

CLUSTAL 2.1 multiple sequence alignment

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gi|51473102|ref|NT_010498.15|_      -----  
-----  
gi|114795057|ref|NC_006483.2|N      ATGCAGGAGATACAA  
GAAGGGGCACTGGAAGTGCCTGCAGGTTTTTCGTG 50  
gi|73957561|ref|NW_876316.1|Cf      -----  
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gi|194719394|ref|NC_007316.3|N      -----  
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gi|149361523|ref|NC_000074.5|_      -----  
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gi|51473102|ref|NT_010498.15|_      -----  
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gi|114795057|ref|NC_006483.2|N      GGCTGGAGTCAACC  
CTCGGGAGGAATTGAGGTAGGTGGCAAATATTTGTT 100  
gi|73957561|ref|NW_876316.1|Cf      -----  
-----  
gi|194719394|ref|NC_007316.3|N      -----  
-----  
gi|149361523|ref|NC_000074.5|_      -----  
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gi|51473102|ref|NT_010498.15|_      -----  
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gi|114795057|ref|NC_006483.2|N      CAAAAGGGGTGGCT  
GAATTTTCGTGGACAAATGCAGAGGGCACCTCCTGTA 150  
gi|73957561|ref|NW_876316.1|Cf      -----  
-----  
gi|194719394|ref|NC_007316.3|N      -----  
-----  
gi|149361523|ref|NC_000074.5|_      -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GCCCTTAAGTAACT  
TCCCTGTAGAGATGAGGAAGCCAGCGGAAAGGCGGG 200  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TGGCACGGACTTCC  
CCAGAGCTCCCCCTCTGCTAAGTGGTGGGTCTAGTT 250  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N ACGGATCTAGTCCT  
ACCTGAAGCCAAAGAAAGCCCTGGCACTTCAAAGCA 300  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CCCACTTGGCGGCC

GGCAACTGTCTACACTGCGTATGGACTCACATACTT 350  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TGGGAGCCATTTGA  
GCCCAGCACCTTCTGATGAGGAGGAGGAGGAGG 400  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ATGGTGTCATGGGG  
ACACCAGCACATTCTCTACTCCAAGCCCTGCTCCAG 450  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATGGAAAGAC  
GCTTCTCTCAGTTCCTG-----CAGAAACTC 36  
gi | 194719394 | ref | NC\_007316.3 | N ATGCCATCCCCATAC  
CCCATACTATGCCAAGCCCTGCCCTGAGCTCTT 50  
gi | 149361523 | ref | NC\_000074.5 | \_ ---TCACCTGGGGAC  
CAGGTAGACAGCTCCCCG-----GCAACCTG 38

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N ACCTTCCTGTACAG  
CACTGTCCGCTGGGGCCTCTCCATGTCCTGTGAAG 500  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCTTCTCGGGCG--  
-----CCGGTCACCTGTACGAGCCACTGGAGAG 77

gi | 194719394 | ref | NC\_007316.3 | N            CCCATATAAGACGGC  
CCA---GCAAATTTCTCTCAATTTCACTATGAAG 97  
gi | 149361523 | ref | NC\_000074.5 | \_            GCCGCCCGGGAAG--  
-----CCTGGGCGCGCAGCAG----- 67

gi | 51473102 | ref | NT\_010498.15 | \_            -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N            GAGGCGCTATCGTG  
GTGGCCATTCTGCAGAGCAGTAAACCAAGGCGCTAA 550  
gi | 73957561 | ref | NW\_876316.1 | Cf            GAG-----CGAG  
TTGAAATCTTGGTGAG-----TCTGGGCG----- 109  
gi | 194719394 | ref | NC\_007316.3 | N            GAGGTGCCATCACG  
GTGGCCATTTTACAGATGAGTAAACTGAGCCTGTGA 147  
gi | 149361523 | ref | NC\_000074.5 | \_            -----CCG  
CGGCCTCGCTAGGGCC----- 86

gi | 51473102 | ref | NT\_010498.15 | \_            -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N            AAATGTAAGAAAGC  
TGCTCAGGTCCCACG-----ACGAGCAAGAGCGGCG 595  
gi | 73957561 | ref | NW\_876316.1 | Cf            -----  
-----ACCGGGCGCGG--GCCG 124  
gi | 194719394 | ref | NC\_007316.3 | N            ACATTTAAGAAACC  
TGCTCCAGGTCCAAGATTAGCAAGCACAGGAGCCA 197  
gi | 149361523 | ref | NC\_000074.5 | \_            -----  
-----CCAGGGACGCGGGCAG 102

gi | 51473102 | ref | NT\_010498.15 | \_            -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N            CTCATCCTGCAGAC  
GAGGACAGGGGCCCTGACCATCCGAGACCATGCAGG 645  
gi | 73957561 | ref | NW\_876316.1 | Cf            GGTC-----  
-----CCTGACCCTCCG----- 141  
gi | 194719394 | ref | NC\_007316.3 | N            GCTCTGCAAATGAG  
AATAAAGAGCTCATAGACCATGCAGCACCAGGTATA 247  
gi | 149361523 | ref | NC\_000074.5 | \_            GGACTG-----

-----CGACCAGCCCCACGGCCG 126

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CGCCAAAGGCAGCA  
GGGCTCTCAGTCGCTCCTGTTCCCTGGACTCACTCCC 695  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCCACCG-----  
-CACCCCACCCT-----CCCCCA 166  
gi | 194719394 | ref | NC\_007316.3 | N GCCCAAAGGCAGAG  
GCTCCTCAAAGTGTCCAGCTTGTGGGGTTCCCTCCC 297  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTGTGGAGCAGCC  
TGGACACCAGTT-----CACCA 157

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGGGCCCTGGAGGT  
GGGGGTCTTGGCCTTCTGCTGCTCCCCGCTCAATGA 745  
gi | 73957561 | ref | NW\_876316.1 | Cf GGACCCCATCCGCG  
TGCTGCGCCCAGCAACTCGCTCACCTGCTCCTGGCT 216  
gi | 194719394 | ref | NC\_007316.3 | N AGGGCCCTTCCTGG  
GGGTAAGGTCTTAAGCTG--TCTTCTCCTTCAATAA 345  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGGAGACGCCTC  
AAGTTTCTGCAGAAACTGGCCTTCTTGGGCCAG--A 205

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CAGGCTAGGTCGCC  
GAGGCTCAGAAAGGCCACGTGACCCGTCCAGAGCGC 795  
gi | 73957561 | ref | NW\_876316.1 | Cf CTAGAAAG--AAGC  
CATCTTCGGAGCG-----AGCCAGCTCGCGTTCCT 258  
gi | 194719394 | ref | NC\_007316.3 | N CAAACTGG--CAAT  
CGCCTTCAGAGAGGCCACGTAGCCGCTCCCGAGCCT 393  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCACCGGTACAAG  
GCGCTGGAGAGGGACGAGGTGGAGACCCTGGTGAGT 255

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N ACAGCCGCAGGTGT  
GAGTCTGACTGAGCTCCAGCCGCCTCGCTCCCGGCG 845  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCCAG-----AGC  
CGGGCTCACGCCGTTTAACCCTCTTAGGACAGCCCA 303  
gi | 194719394 | ref | NC\_007316.3 | N CCCAGC-----AGC  
TCTAGGAGCCTCAGCTCACATTAAACGTGCTCCCAG 438  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGGCGATTTGGT  
ATGAAGCGTGGAATTAGATCCCACATTTGTCCCCTG 305

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N CCTTAGAGCGGCCC  
ACCCTGGGTTCCTCAAGAGGATCACCTGGGGCTCGT 895  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTTGTGGATTTGA  
TACTGAGGCAGAAAAGAGGTTACTAGTGTCCCTTAA 353  
gi | 194719394 | ref | NC\_007316.3 | N CATCTTAGCTGACC  
TCACGTGGCTCCCCAGGAGAATCATCTGGGTGCTCA 488  
gi | 149361523 | ref | NC\_000074.5 | \_ GGACTCTGTATCTG  
ACCCCTGGGAACCCGTGG--ATCACTGGACTCTGAG 353

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TAAAAACCCAGCTC  
CCGGCGGCTCCAAACCCAGTGACTGGGCAGGGAGGG 945  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----AGGCA  
CCCCG---CTAGGAACTTGACCTAGGTTTCTCTGAC 392  
gi | 194719394 | ref | NC\_007316.3 | N GGAAAGTTCAGCTT  
CCCGG---CCCGCTCAGTGACTCAGGATAGGGAGGG 535  
gi | 149361523 | ref | NC\_000074.5 | \_ ATTCTTCTCAGCAC  
CTCAGTTGACTCTGAAAAGAACCTAGCTTCGAAGTA 403

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GTCTGGGAATCCGG  
ATTTTAAACCAGCATTGCTCCTCCACCTCCCCAC 995  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCAG-----  
---AAAGTTTACATTCTAGGTCTCCACTCAGGC 430  
gi | 194719394 | ref | NC\_007316.3 | N GTCTG-----  
---GTTTATCGCCCATCTCCACCCCATCTCCCCGGC 573  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCAG-----  
-----CTCCACCAGGC 419

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TCCAGGTGATTCTTA  
GGATCTG-CAAGTTTGGGAAACAGCCCAAGCCCTG 1044  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTATATGGATTT  
TTTTTCAAGTTACTTGAATTGGAAAAAAAAAATTAA 480  
gi | 194719394 | ref | NC\_007316.3 | N TCCAGCTGCATCTC  
ACGATTGGGCAAGTTTGGGAAACAGCCCAAGCTTTG 623  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAAGGCGCAGAAC  
TC-AGCAATTA ACTTGGTTAGGCCAGCCCATTTTGG 468

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N AGGCGACGCAGCCTC  
TCCCTGGGTCTTCCATGGCCAGCCGGCGCTGTCCC 1094  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTGATGTAAAAAA  
ACAAAGTAAAATACTCTTGGCAAAAA----- 520  
gi | 194719394 | ref | NC\_007316.3 | N AGGCCCTCCGCAG  
CCCCGGGGCCTTCCCCAGGCCGCG----- 663  
gi | 149361523 | ref | NC\_000074.5 | \_ GACCGAGAAACTAA  
GGCCGGTGCTCTTTAAGGGCATGGAG----- 508

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N CAGGGCCCCTGGGGT  
CCCAGGCGAGCTCGCGGGGCGGGGCCGGGTGAGCC 1144  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGTTTTAACAATA

ATAGTAGT---AATAATGGTAGAAATCTGGTAAAGA 566  
gi | 194719394 | ref | NC\_007316.3 | N -CGGCCCTCAAGG  
GCGGGAAAGTCCGGGAGGGGCGGGGCCCGGTGCTCC 712  
gi | 149361523 | ref | NC\_000074.5 | \_ ----TTAGCAGGCC  
ACCTAGCCAGAAGTTAACTTCGTTTTCTCCGATTCA 554

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GGC-ACCTCCCTGTG  
CGCAGCCCCGCCCCAGGGGCGGGGCCTCACCTGCC 1193  
gi | 73957561 | ref | NW\_876316.1 | Cf GTAGCCAGGCCT--  
-CCCAGCTTTGCTTCCTG-----CACCTCCA 603  
gi | 194719394 | ref | NC\_007316.3 | N GAGGGCCTCCCTGT  
GCGCAGCTCCGCCCGGGGTGGGGCCTCACCTGCG 762  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAGTTTAAACT  
CCTCTACCCAG-----AGAGACA 586

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----GGG-TCCGGCCCAGGAGGCTT 20  
gi | 114795057 | ref | NC\_006483.2 | N GCGGGCAGGTAGACA  
GCTACCTGGTAACCGGG-TCTGGCCCAGGAGGCTT 1242  
gi | 73957561 | ref | NW\_876316.1 | Cf GCGCAGTTTTTGAAA  
AGCACTCCGATTTGTAGG-----TTGACTT 642  
gi | 194719394 | ref | NC\_007316.3 | N GCAGGCAGGTAGGC  
GGCTACCTGGTAACCTGGGCCTGGCCCGGGAGGCTT 812  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTGCGTGAACTTT  
TACAGAAAGGCTGCCGGG-----ATTGAAA 625

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCGCGCGCAGCCA  
TCCCGGGCCTCGCCGGGGACCTAGGGACGCAGGCA 70  
gi | 114795057 | ref | NC\_006483.2 | N GGGCGCGCGCAGCCA  
TCCCGGGCCTCGCCGGGGACCGAGGGACGCAGGCA 1292  
gi | 73957561 | ref | NW\_876316.1 | Cf TG-----CAGCC  
TCCAGGGGACCTCTAGGATAAATCAACCGGATTAT 685  
gi | 194719394 | ref | NC\_007316.3 | N GGGCGCGCGCAGCC  
AGCCCCGGCCACGCCAGGGACCGAGGGACGCAGGCA 862



gi | 149361523 | ref | NC\_000074.5 | \_ GGGATGTGGACCCA  
AAACAAAAACAAACAAACAAAAAGCCACACAAAAT 675

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGCCT-----G  
CGCCCGCTCACCATGGTCGAGGG----- 100

gi | 114795057 | ref | NC\_006483.2 | N GCGCCT-----GC  
GCCCGCTCACCATGGTCGAGGG----- 1322

gi | 73957561 | ref | NW\_876316.1 | Cf CAGGCT-----G  
GGGAGTGGGAGGGTTGGGGAGAG----- 715

gi | 194719394 | ref | NC\_007316.3 | N CAGGCGGCCGCCGG  
CGGGACGGGAGGCTGGGCGAGGGGCCTGCACCCGCT 912

gi | 149361523 | ref | NC\_000074.5 | \_ CCCGCT-----  
--CAAGTTTAAGAGTGAAAATTG----- 702

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-ACGCGTCTCCGAGTTCCTGAAGAAACTCGGCTTCT 135

gi | 114795057 | ref | NC\_006483.2 | N -----  
ACGCGTCTCCAAGTTCCTGAAGAAACTCGGCTTCT 1357

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---GAGTTTGCAG-----GCTGATGAACTGACAAA 742

gi | 194719394 | ref | NC\_007316.3 | N CACTATGGTCTGAAG  
GACGCTTCTCCAGGTTGCTGCAGAAGCTCGCCTTCT 962

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---AAATTTGAAGCTGTTTAGTAGGGCTCCTGTAGA 735

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGGCGGGGGCCGC  
CAGTACCAGGCGCTGGAGAAGGACGAAGAGGAAGCC 185

gi | 114795057 | ref | NC\_006483.2 | N CGGGCGGGGGCTGCC  
AGTACCAGGCGCTGGAGAAGGACGAAGAGGAAGCC 1407

gi | 73957561 | ref | NW\_876316.1 | Cf GTTGTTCAA---AA  
AAGCCCTTCCACCTGGTGAAG-----CC 776

gi | 194719394 | ref | NC\_007316.3 | N GGGGCTCGAGCCACA  
AGTACGAGCTGCTGGCGAAGGGCGAGTTGGAAACC 1012

gi | 149361523 | ref | NC\_000074.5 | \_ GGGCTTTCCTCCAC  
ATCAATGTGGTTTTTAAAAAG----- 770

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gi | 51473102 | ref | NT_010498.15 | _          TTGGTGAGTCCCCG
CGACTCCGCGCCGGGCGTGCGACCCGACCCCCCATC 235
gi | 114795057 | ref | NC_006483.2 | N          TTGGTGAGTCCCAGC
GACTCCGCGCCGGGCGTGCGACCCGACCCCCCATC 1457
gi | 73957561 | ref | NW_876316.1 | Cf          AGGGTCAGTGG---
-----ATGACCCGGCAAC 800
gi | 194719394 | ref | NC_007316.3 | N          TTGGTGAGTCCGGGC
GCCCGGACGCGGGGCGTGCGACCTGACCCCCACCC 1062
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          CCCTCCGTCGTAAC
CGTCCCCGGCCCGAGACCCCGCGTTTCGCGCTGCGAT 285
gi | 114795057 | ref | NC_006483.2 | N          CCCTCCGTCGTAAC
GTCCCCGACCCGAGACCCCGCGTTTCGCGCTGCGAT 1507
gi | 73957561 | ref | NW_876316.1 | Cf          TCT-----
----CCATAGCTTTGTAAGAGTGTAAGCTTTGCAT- 834
gi | 194719394 | ref | NC_007316.3 | N          CGG-----
---CCCACCCACGACCCCGTCTGCGCACCGCAGG 1097
gi | 149361523 | ref | NC_000074.5 | _          -----
-----CTGCTCTGAGCCAACGCATGGTAGCACATG- 800

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gi | 51473102 | ref | NT_010498.15 | _          CCGCG-----AA
CTCGCCCTCCTCCCCTGG-CTCTGGAAAGAAGCTGT 327
gi | 114795057 | ref | NC_006483.2 | N          CCGCG-----AAC
TCGCCCTCCTCCCCTGG-CTCTGGAAAGGAAGCCGT 1549
gi | 73957561 | ref | NW_876316.1 | Cf          -----
----CTTGCATGATAGGAGAGCAGGGAG--TGCTGA 864
gi | 194719394 | ref | NC_007316.3 | N          CTGCGCTCCCCCAGC
TCGCCCCGCTCCTCTGTTCTAGAAAGAAGGTGT 1147
gi | 149361523 | ref | NC_000074.5 | _          -----
-----CCTCTTATCCCAG-CACTTGGGAGGCAGGGA 830

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCACAGCAACCG

CGCTCTCATCTGCGCTCTGGCGCGGGGAGCTCAGCA 377  
gi | 114795057 | ref | NC\_006483.2 | N CCTCACAGCAACCGC  
GCTCTCATCTGCGCTCTGGCGCGGGGAGCTCAGCA 1599  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTCCTG---CAAA  
AGCAT---CTCAGGGTTGTTGCATTTTTTTTTTTCT 907  
gi | 194719394 | ref | NC\_007316.3 | N CTTCCTA---ACAAC  
GCTCTGGGCCAGCGTTCGTCTTTTAAGCTTTTAA 1194  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGATAGATCTTTG  
AGATAGAGACCAGTCTAATCTGTATAGTGAGTTTCA 880

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAACCCTCACGT  
GAACCCATTTTGTGGTTGAGAACTGAGGCCGAGAG 427  
gi | 114795057 | ref | NC\_006483.2 | N TGGAACCCTCACGTG  
AACCCATTTTGTGGTTGAGAACTGAGGCCGAGAG 1649  
gi | 73957561 | ref | NW\_876316.1 | Cf T--TTCACCTTAAT  
CAGTCATT-----C 928  
gi | 194719394 | ref | NC\_007316.3 | N T--CTCTCCCATGCC  
AACCCATTTTGCAGATGCGAGACTGAGGCCGAAAC 1242  
gi | 149361523 | ref | NC\_000074.5 | \_ G--TCCAGCCAGAG  
CTACACAG-----AGAAAC 906

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTTAAGTATATT  
CCCTAAGGGGCACGGAGCTAGGAAGTGACCTGGCTG 477  
gi | 114795057 | ref | NC\_006483.2 | N TGGTTAAGTATATTC  
CCTAAGGGGCAAGGAGCTAGGAAGTGACCTGGCTG 1699  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAAATATAATTCC  
TGAAATAGTGCCTTGGGCATG-CTCAG--GAGAAT 974  
gi | 194719394 | ref | NC\_007316.3 | N AGGGTAAATATGTCC  
GATAAGGGGCACAGGACTAG-CAATGACCGAGCAG 1291  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTTCTTAAAAG  
CAAACCAGAACCCCACTCTGAATGGTATAATGTCTT 956

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAACTTAACCTAG  
GTTTCTCTGACTCCAGAGAATTAAAATTCCTGGGTC 527  
gi | 114795057 | ref | NC\_006483.2 | N GGAACTTAACCTAGG  
TTTCTCTGACTCCAGAGAATTAAAATTCCTGGGTC 1749

gi | 73957561 | ref | NW\_876316.1 | Cf ACAACCTTGCCGTGG 1019  
-CCGTCTGACTGGGAA-AGTGAAACCTCACGG---  
gi | 194719394 | ref | NC\_007316.3 | N GGGACCTAACCTAGG 1341  
TTTATCTGACTCCACAGAATTTAAATTCCCAGGTC  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAACCTTAAGGTAG 1001  
--CTTCTGGGCTAACCTTACAGAGCTTCAGTG---

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCAGACTTGGGCT 567  
G-----CTTTATGGATTTTTTAAACTTAAAT  
gi | 114795057 | ref | NC\_006483.2 | N TCCAGACTTGGGCTG 1789  
-----CTTTATGGATTTTTTAAACTTAAAT  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTAAATTTACTTTTTTTTTTTTTTTT 1042  
gi | 194719394 | ref | NC\_007316.3 | N TCCCCATCTAGACTG 1391  
CTATCGGAATTTTTTAAAGTTACTTAAATGGGGTCG  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAAGAAGTTTCTCTACAGGACC 1023

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAAAATAAAATT 617  
AGAGGGATGCAAAAAACAAAAGATTGCTGAAATGTT  
gi | 114795057 | ref | NC\_006483.2 | N TGGAAAATAAAATTA 1838  
GAGGGATGCAAAAAACAAAG-ATTGCTGAAATGCT  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAGATTTTATTTAT 1092  
TTATTCATGAGACACAGAATGAGGCAGAGACATAG  
gi | 194719394 | ref | NC\_007316.3 | N GGGGGCATTGGTGAC 1440  
AAAGTGTGTGCAAATGTTTGAG-CATAAACAGTA  
gi | 149361523 | ref | NC\_000074.5 | \_ AACAGCCATAACGTT 1073  
GTTTCTGTGACTCTGATGGTGCCGTTGGGGTCCAG

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gi | 51473102 | ref | NT\_010498.15 | \_ GTAGCAATAATAGA 667  
AAGCAAAGTTGGAGCTGAGGGACCTCCCAGCCTCAC  
gi | 114795057 | ref | NC\_006483.2 | N GTAGCAATAATAGAA 1888  
AGCAAAGTTGGAGCTGAGGGACCTCCCAGCCTCAC  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAGAGGGAGAAGCA 1139  
AGCTCCATGCAGGGAGCTTGACGTG---GGACTCG  
gi | 194719394 | ref | NC\_007316.3 | N GCAGTAATGGTGGAA

ATCAGAGTAAGAGTGGCCATGCTTTTCAGTTCTGC 1490  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAGCACAGCTCCCC  
ACCCCTGCCAGCTTTGTAAAGGCTGAGAGTGGAAA 1123

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTACAG--TCA  
GGTACTTTTAG---AAAGTCACTCAGAGCTGTATGC 712  
gi | 114795057 | ref | NC\_006483.2 | N TTCCTACAG--TCAG  
GTACTTTTAG---AAAGCCACTGAGAGCTGTATGC 1933  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCCGGGGTCTCCAG  
GATCACGCTC----- 1164  
gi | 194719394 | ref | NC\_007316.3 | N TTCCGGCATCTCCAG  
AGCCACTTTCGCAAAAACCACTCAGATTTGTGTGC 1540  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCACAGCACACCCA  
GAACTCCATG----- 1148

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCTTTGCAACCT  
TCAG-GGACCCTCTGGGATAAAGCAGCAGGGTGCCA 761  
gi | 114795057 | ref | NC\_006483.2 | N CTGCTTTGCAACCTC  
CAG-GGACCCTCTGGGATAAAGCAGCAGGATGCCA 1982  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----T 1165  
gi | 194719394 | ref | NC\_007316.3 | N TAGCTTTGCAGCCTC  
CAGAGGACCCTCTAGGATAAACCAACAGGATTCTA 1590  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CT 1150

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCAGGGCGG--T  
TCATGAGGGAACGAAGTGGCAAAGCTGTCAAATAAA 809  
gi | 114795057 | ref | NC\_006483.2 | N GGGCAGGGCGG--TT  
CATGAGGGAACGAAGTGGCAAAGCTGTCAAATAAA 2030  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCCA-----  
-----AAGGCGGGCACCAAACTGCTGAACC 1196  
gi | 194719394 | ref | NC\_007316.3 | N GGGCCAGGAGAGTTT  
TTCCAGTGGACAGGCTGACACTCCTGTCCCCAAA 1640  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCCATGGGG----  
-----AGCTGAGACCTGTGCTCTTTAAG 1184

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCCTCCTGTTCC  
 TTGGATTCTTGGAAGCCAGGGGTGAAGCCAGGCTTG 859  
 gi | 114795057 | ref | NC\_006483.2 | N GCCCCTCCTATTCTT  
 TGGATTCTTGGAAGCCAGGGGTGAAGCCAGGCTTG 2080  
 gi | 73957561 | ref | NW\_876316.1 | Cf ACCCAAGCAC-----  
 -----CCCTAA----- 1212  
 gi | 194719394 | ref | NC\_007316.3 | N GCCCATCCACGTGGA  
 GG-----ACCCAGAGAGGCAGCGGGGTCAA 1680  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGCATGGAGTT-----  
 -----CTCAGG----- 1201

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGGTGACCCAACA  
 CCCTTCTTTTGTAGCTTCGCAAACAGAACTCGTTGCA 909  
 gi | 114795057 | ref | NC\_006483.2 | N AGGGTGACCCAACAC  
 CCTTCTTTTGTAGCTTCGCAAACAGAACTCCTTGCA 2130  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----ATTTACTTT-TTAATGGAAAAGATCAGA 1239  
 gi | 194719394 | ref | NC\_007316.3 | N GGGGT----CACCAA  
 CTTTCTCCTTAGCTTG-TAAGCGGAACTCACCGCG 1725  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 ----CCACCTAGCCAGGGAGTCTTGTCTTGCCGAG 1232

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTTTAAGGTCAG  
 GGGGGCACTGAATTTCTGCAGAAGCGTTTCTCTGCA 959  
 gi | 114795057 | ref | NC\_006483.2 | N TGCTTTAAGGTCAGG  
 GGGGGCACTGAATTTCTGCAGAAGCGTTTCTCTGCA 2180  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGGAATAAAA-----  
 ----- 1248  
 gi | 194719394 | ref | NC\_007316.3 | N TGATACCAAGAGCAG  
 AGAACGTGGTGTCTTCTGCAGAAGCATCTC----- 1769  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAAGAGGGTCTA  
 GGTAAATTTGTAACAACAGAAG----- 1270

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gi | 51473102 | ref | NT\_010498.15 | \_ CGCCAGAGGGTCGTT  
GCACTTTTTTTTTTTTCATTTACGCTTAAGCAGTC 1009  
gi | 114795057 | ref | NC\_006483.2 | N CGCCAGAGGGTCGTT  
GCCCTTTTTTTTTTTT-CATTTACGCTTAAGCAGTC 2229  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CT  
GATCTTTTTTAAATT----- 1264  
gi | 194719394 | ref | NC\_007316.3 | N -----TGGGTCTCT  
GCACTTTTTTAAAGTG-----TAAATGAGTC 1803  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AT  
GTTTTGTAATATTTTC----- 1287

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCAAAAGTAACAT  
TTCTGAACGAGTCCCCTGGGTTGCTAATTAGAAAT 1059  
gi | 114795057 | ref | NC\_006483.2 | N GTTCAAAAATAACAT  
TTCTGAACGAGTCCCCTGGGTTGCTAATGAGAAAT 2279  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAATAATTT  
TCCT----- 1277  
gi | 194719394 | ref | NC\_007316.3 | N GTTCAAAAACAAAAT  
TCTTGAAGCGGTCCTCTGC----- 1837  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AATTTTATT  
TTCT----- 1300

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGACTTGGCGATGG  
CCTTTTGACCAGTGAAAGGAAACTTCAAAGGTAAA 1109  
gi | 114795057 | ref | NC\_006483.2 | N TTGACTTGGCGATGG  
CCTTTTGACCAGTGAAAGGAAACTTCAAAGGTAAA 2329  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCAAAG----- 1284  
gi | 194719394 | ref | NC\_007316.3 | N ---AGGTGCTCATGG  
CCTTTTGACGGCTGAAGGGAAACCTCAAAGTTAAA 1884  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCCAAAG----- 1307

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTACCTTTTAATTA  
AAAAAAGAAATTAGCTGAAAAAATATTTGACTTAA 1159  
gi | 114795057 | ref | NC\_006483.2 | N CTTACCTTTTAATTA

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AAAAAAGAAATTAGCTGAAAAAATATTTGACTTAA 2379
gi | 73957561 | ref | NW_876316.1 | Cf -----
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gi | 194719394 | ref | NC_007316.3 | N TTGACTTTTTTAATGA
ATGAGAGCTGTTGGAA----- 1915
gi | 149361523 | ref | NC_000074.5 | _ -----
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gi | 51473102 | ref | NT_010498.15 | _ AATTTTATTTTTTTC
TCCCAAAGAATACTAATGGTCAAAACATTTTGT 1209
gi | 114795057 | ref | NC_006483.2 | N AATTTTATTTTTTTC
TCCCAAAGAATACTAATGGTCAAAACATTTTGT 2429
gi | 73957561 | ref | NW_876316.1 | Cf -----
-----AATGACAACAGTCAAAATGTTTTGGTG 1311
gi | 194719394 | ref | NC_007316.3 | N -----
-----AATCTTGACAACGGTCAAAACATTTTGGTT 1945
gi | 149361523 | ref | NC_000074.5 | _ -----
-----AATGCCATGGTCAAAACACTTG-ATG 1332

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gi | 51473102 | ref | NT_010498.15 | _ GTGAGATTAAGTATT
CGTGCTTTTTTTAAAAATAGTGTTTTGTGCTTTTT 1259
gi | 114795057 | ref | NC_006483.2 | N GTGAGATTAAGTATT
CGTGCTTTTTTTAAAAATAGTGTTTTGTGCTTTTT- 2478
gi | 73957561 | ref | NW_876316.1 | Cf GT-----
-ATGATTCTTAAATATTTGTGCATTT-----AA 1340
gi | 194719394 | ref | NC_007316.3 | N GT-----
-ATGGGTCTTAAATATTTGTGTGTGTG----TGTT 1977
gi | 149361523 | ref | NC_000074.5 | _ GT-----
-GTGGTTTTTTAGATAACTATACATTTGTTTACAAA 1368
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gi | 51473102 | ref | NT_010498.15 | _ AAAAATAGTGTTT-T
ATACATCCCTGTTGATGTAAGAATTCTGGTCTTAG 1308
gi | 114795057 | ref | NC_006483.2 | N AAAAATCGTGTTT-C
ATACATCCCTGTTGATGTAAGAATTCTGGTGTAG 2527
gi | 73957561 | ref | NW_876316.1 | Cf AAAAATAGTACTT-T
ATACATGAATTAGCACGAGA-ATTCCTGGCACCAG 1388

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gi | 194719394 | ref | NC\_007316.3 | N TGAAATAGTGTTT-T  
ATAGATGAACACTAGCATGAGAATTCTGGTGCTAG 2026  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTATTGTATGTGT  
CCGCGTTGGTGTGATGTAAGAATTCTGGTCTTAG 1418

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGGTAGGCCACAG  
GACCACGTAACACTAGCAG-TTTTTGAGCAATCTCGA 1357  
gi | 114795057 | ref | NC\_006483.2 | N GGTGGTAGGCCACAG  
GACCACGTAACACTAGCAG-TTTTTGAGCAATCTCGA 2576  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTGGTAGATCACAG  
GG--GTGTGAACACTACGGGTTCTCACATAATCTCTG 1436  
gi | 194719394 | ref | NC\_007316.3 | N GATGGCAGACCACAG  
GG--TTGTGTCTGGCAG-TTCTCAAATAATCTCTG 2073  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCTGTGAACCGCAG  
GA-----CCCAAACACTATCCGTG 1451

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTCTGAAGTGGC  
ATG-----TTAATATTGATAGGATATAGAGTTCAA 1402  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTCTGAAGTGGC  
GTG-----TTAATATTGATAGGATATAGAGCTCAA 2621  
gi | 73957561 | ref | NW\_876316.1 | Cf --TTTCTGAAGTGAC  
GTGTGGCTCAAACATGGATTGGATGTAGAGTTTGA 1484  
gi | 194719394 | ref | NC\_007316.3 | N TTTTTTCATATGTGAG  
GTGTATGTTAACCATGGGTTGGATACAAAGTCCAA 2123  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTCTCTGCCACCTC  
ATG-----TGTTAGTGGTGTACCATAATCCTTTG 1495

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAATTGGCTGTGAT  
CCATTTCTCTGCTTCT-----GCGATACA 1441  
gi | 114795057 | ref | NC\_006483.2 | N TTAATTTGCTGTGAT  
CCATTTCTCTGCTTCT-----GTGATACA 2660  
gi | 73957561 | ref | NW\_876316.1 | Cf TGATTTTGGTGAGAT  
CAATTTGTCTACCCAAAAGTCC----TGCACTGAA 1530  
gi | 194719394 | ref | NC\_007316.3 | N TTATTTGCTGAAAT  
CCATTTCTCTCCCTCTGTGTACGCCGTGTAACCTCA 2173  
gi | 149361523 | ref | NC\_000074.5 | \_ CTAATGCCAAGTGTG

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TCCTTACACGGTTTGT-----ACTGT 1531
      *:*      *: :
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gi | 51473102 | ref | NT_010498.15 | _      TTCTGCTAAAGGAGT
TTGAAGTTTATTTGCCATCACAGGTTGCCTTTCCT 1491
gi | 114795057 | ref | NC_006483.2 | N      TTCTGCTAAAGGAGT
TTGAAGTTTATTTGCCATCACAGGTTGCCTTTCCT 2710
gi | 73957561 | ref | NW_876316.1 | Cf      GTCTGCTCAAGGAGT
TTAAAGTCAGTTTGCCA-----ACA 1565
gi | 194719394 | ref | NC_007316.3 | N      TTCTGTTGAAGGAAT
TTGAGGTTAATTTGCCAGCCTG-----TTCT 2214
gi | 149361523 | ref | NC_000074.5 | _      GTGGTTAGAAGGAGT
TGGAATTGTATTTGTTGACACTG---ACAGCTTCC 1578
      *      : ***** *
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gi | 51473102 | ref | NT_010498.15 | _      ATGTTGCCATTCCTG
TTTTTTCCTTTCCATCTTTTGAT--TCTTGCATCA 1539
gi | 114795057 | ref | NC_006483.2 | N      ACGTTGCCATTCCTG
TTTTTTCCTTTCCATCTTTTGAT--TTTTGCATCA 2758
gi | 73957561 | ref | NW_876316.1 | Cf      CTATTGCCTTTTCTA
TGTTACTTGTCTATTCTTTTCT----- 1603
gi | 194719394 | ref | NC_007316.3 | N      ATGTTACTTTTTCTA
TTTTTCTTTTTTCTTTTCATCTTTGACTTTGCATCA 2264
gi | 149361523 | ref | NC_000074.5 | _      TTCCACCTTTTTTCTG
TCCTTCCCCCCCCCACCTTTTTTT----- 1616
      : * : ** ** .
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gi | 51473102 | ref | NT_010498.15 | _      GGCCAGGTATTTTTC
AAACTCTCCTGGTGTGTAGTTGGTTACCATCAGGT 1589
gi | 114795057 | ref | NC_006483.2 | N      GGCCAGGTATGTTTC
AAACTCTCCTGATGTGTAGTTGGTTACCATCAGGT 2808
gi | 73957561 | ref | NW_876316.1 | Cf      -----TTTTTT
TAAAGATTTTTTAATT--TATTTATTCATGAGAGAC 1642
gi | 194719394 | ref | NC_007316.3 | N      AGCTGGGTATTTTTC
AAGCACTCCTGATGT--CGTTGGTTACAGCCAGAT 2312
gi | 149361523 | ref | NC_000074.5 | _      -----TTTGTGCC
TCTGTCTTTTGATGT---TTTGGGCAAGGCTAGGG 1655
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gi   51473102   ref   NT_010498.15   _	TTCACAGGATGTCCA
GGAATGCAGGTGCATGGATGATGTAACCTCAAGGG	1639
gi   114795057   ref   NC_006483.2   N	TTCATGGGATGTCCA
GGAATGCAGGTGCATGGATGATGTAACCTCAAGGG	2858
gi   73957561   ref   NW_876316.1   Cf	ACAGAGAGAG-----
---AGGCAGAGACACAGG-----CAGAGG	1673
gi   194719394   ref   NC_007316.3   N	TCTATGGGATGCCTT
GGTTTGCCAAGTACCTGGGGCT---TCTCTGGTG	2358
gi   149361523   ref   NC_000074.5   _	GCTCCTGATG-----
-TGTAGCCAG-----	1674

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gi   51473102   ref   NT_010498.15   _	AGATGCTGGGAGAGT
TTGATCTCTGTGCCAGGTGGACTCGTCCCTCCAAA	1689
gi   114795057   ref   NC_006483.2   N	AGATGCTGGGAGAGT
TTGATCTCTGTGCCAGGTGGACTCATCCCTCCAAA	2908
gi   73957561   ref   NW_876316.1   Cf	-----
-----GAGAAGCAGGCTCCCTGCAG-AGAGC	1698
gi   194719394   ref   NC_007316.3   N	GCTCCAATGATAAAG
AATATGCCTGCAATGCAGGAGACCTGCGTTAGATC	2408
gi   149361523   ref   NC_000074.5   _	-----
-----TTGTCATTAGAGAGAGAGATTCTAAA	1700

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gi   51473102   ref   NT_010498.15   _	GCTTTGCAGGAGAGT
TCTCAGAGGTCTGACAGGTGTTTCAGCCGGTCTGTC	1739
gi   114795057   ref   NC_006483.2   N	GCTTTGCAGAAGAGT
TCTCAGAGGTCTGACAGGTGTTTCAGCCGGTCTGTC	2958
gi   73957561   ref   NW_876316.1   Cf	CCTATGCAGGACTCA
ATCCTAGG-----ACCCTGGGATCACAACCTGAGC	1743
gi   194719394   ref   NC_007316.3   N	CCTGGGTCAGTAAGA
TCCCCTAG-----AGAAGGGAATGGCTACCCACTC	2453
gi   149361523   ref   NC_000074.5   _	AGTGTGCAGGTGTGG
GCTTGGTG-----AAGTCCACCTGGAGATGCTC	1743

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gi   51473102   ref   NT_010498.15   _	AGTGTGCTCTCCCAC
CTGGCTGTGGACCGGGGTGCTCTCAGCAGCATCCT	1789

gi | 114795057 | ref | NC\_006483.2 | N AGTGTGCTCTCCCAC  
CTGGCTGTGGACCGGCGTGCTCTCAGCAGCATCCT 3008  
gi | 73957561 | ref | NW\_876316.1 | Cf CGG-----  
---AAGGCAGACACTCAACCCTGAGCT-ACCCAG 1777  
gi | 194719394 | ref | NC\_007316.3 | N CAGGA-----TTC  
TTGCCTGGAGAATTCCATGGGCAGAGGG-AAACTG 2495  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAG-----  
--CCAGGTGGACTTCATTCCCCTGAGCTGTTCAA 1780

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGGCCCTGGGTGCG  
TGATGATGGGCAGTGTGCAGCGCCAGGAGGCGGGT 1839  
gi | 114795057 | ref | NC\_006483.2 | N GAGGCCCTGGGTGCG  
TGATGATGGGCAGTGTGCAGCGCCAGGAGGCGGGT 3058  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGCCCTGCTATCTT  
TTGTTTTTTTGCATGAAGCTAGGTATTTTT----- 1821  
gi | 194719394 | ref | NC\_007316.3 | N GTGGGCTACAGTCAA  
TG--AGGTCGCAAAGAGTCAGACACGACTGAG--- 2540  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTCCCCCAAGCTGT  
TCAAAGGCAACCTGTCTGCAGGTGTATTT----- 1824

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gi | 51473102 | ref | NT\_010498.15 | \_ GATACCAGCACTGAC  
ACCAAAGGCCAGCTGAGAAAGAAGCCATGCTGTCT 1889  
gi | 114795057 | ref | NC\_006483.2 | N GATACCAGCACTGAC  
ACCAAAGGCCAGCTGAGAAAGAAGGCATTGTGCCT 3108  
gi | 73957561 | ref | NW\_876316.1 | Cf -CAAACGTGCCAGGT  
GTCTAGGTATGCCAGGTATGAGGGTGATG----- 1864  
gi | 194719394 | ref | NC\_007316.3 | N -CAATTAACACTAAC  
ACTTAGGTGTGCCAGCTATGGGGATGATGTATCCT 2589  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCACCTGGCCATAC  
ACTCTGTAGCACACTGAAAGTG----- 1861

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGAGGCAGCCTTG  
TGCAAACCCAGGAAATGTGCAAACCCAGGAAATGG 1939  
gi | 114795057 | ref | NC\_006483.2 | N CCAGAGGCAGCCTTG  
TGCAAACCCAGGAAATGTGCAAACCCAGGAAATGG 3158  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TTGAGATGCTGG

GGTGAGTTTGACCTGTGCACCAAAGTGGACTTCAT 1911  
gi | 194719394 | ref | NC\_007316.3 | N GAATAGAGATGCTAG  
GGAGAATTTGATCTCTGAACCAAGGTGGGCTTCAT 2639  
gi | 149361523 | ref | NC\_000074.5 | \_ ----AGGGAGCCTTG  
GGCTGTGATGACCAGTAGAGCAGACTT--ATGGG 1904

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gi | 51473102 | ref | NT\_010498.15 | \_ CAATGAAGATCGATG  
GGAAGTGTGAGGAGGGAGGGAGGTGGGGAGGCCGG 1989  
gi | 114795057 | ref | NC\_006483.2 | N CAATGAAGATCGATG  
GGAAGTGTGAGGAGGGAGGGAGGTGGAGAGGCCGG 3208  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCCCAAATCTTTT  
CCGGGTGGTCCGCAAGGGTATGACAGGTCTTCAAC 1961  
gi | 194719394 | ref | NC\_007316.3 | N GCCCCCAGAGCTTTT  
CAGAGGGTCCCTTAAAAGTGGGACGGGTCTTCAAC 2689  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGGTCAGAGATATG  
GGCAGTCTTCAGAAAAGGCCAGCTGCGTGGTGTA 1954

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGCTGGGCGAGGC  
ACTCACTTCCCTGCCAGGTTGGCTCAGACCTGAACA 2039  
gi | 114795057 | ref | NC\_006483.2 | N GAGGCTGGGCGAGGC  
ACTCACTTCCCTGCCAAGTTGGCTCAGACCTGAACA 3258  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGCCTG-----  
-----TAGGTATGTCAGGGGTTACCCACCT 1994  
gi | 194719394 | ref | NC\_007316.3 | N CTGTCTG-----  
-----TAGGTAT-TCGGGGGTGGAGGGGCAC 2721  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGTCTC-----  
-----CAAAGCTGGCCTTACAA 1978

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCCTTTGCTGTCA  
TACTCATGTCCTCTCGTTGGAACCTTTCTCCCA 2089  
gi | 114795057 | ref | NC\_006483.2 | N CCTCCTTTGCTGTCA  
TACTCATGTCCTCTCGTTGGAACCTTTCTCCCA 3308  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTCGTGGACTTGGA  
TGTTCTTGGCAGCACCTGAAGGGTGGGTGATAGG 2044  
gi | 194719394 | ref | NC\_007316.3 | N TCACCT-ACCTGGCG  
TGTTCTCAACAGCACCTGAGGCACGTATGACG-- 2768

gi | 149361523 | ref | NC\_000074.5 | \_ ACACGAGGCATGCAA  
T----AAGGGTGCACAGTCAGGGTCTG----- 2016

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTTTGGAAAGGAG  
GCGATGTGTGTTGAGGTGATCACTTCTACAATAGT 2139

gi | 114795057 | ref | NC\_006483.2 | N GGGTTTGGAAAGGAG  
GCGATGTGTGTTGAGGTGATCACTTCTACAATAGT 3358

gi | 73957561 | ref | NW\_876316.1 | Cf TGATGTGGCAGTGGG  
GAGGGGAGGGGAGACTGGCGACCCAGGTAGCTGGC 2094

gi | 194719394 | ref | NC\_007316.3 | N --ACTTGGCAGTGCG  
--GGGGCAGTGAGATGGGAAACCCAGGCAGCCAGC 2814

gi | 149361523 | ref | NC\_000074.5 | \_ -----GGGAGAGTG  
GAACTCAACGGTGGATCAATGCATACATCCCTGGC 2060

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAATTGTCTTTTT  
TTTTTTTTTG-CGTTATTTTCATACTAGTTTATTTAG 2188

gi | 114795057 | ref | NC\_006483.2 | N TGGAATTGTCTTTTT  
TTTTTTTTTTTCGTTATTTTCATACTAGTTTATTTAG 3408

gi | 73957561 | ref | NW\_876316.1 | Cf CCCAAAGTCTGGGTG  
AAAAACAAAATGTCTGATTTCCAAAGGTGCTTGGT 2144

gi | 194719394 | ref | NC\_007316.3 | N TGCGCAGGCTGGCTG  
AGAAACCAAGTATTCTGTCTCTAAAGGCAGCT-CA 2863

gi | 149361523 | ref | NC\_000074.5 | \_ TTCCATCCTCAGTAC  
CACAAGAAACCAAGCAACCACACTAA-----AA 2103

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTTCCATTTTCAC  
TCCTCAATAG----AACCGTCTTTTATGAGCACTA 2234

gi | 114795057 | ref | NC\_006483.2 | N GGGTTCCATTTTCAC  
TCCTCAATAG----AACCGTCTTTTATGAGCACTA 3454

gi | 73957561 | ref | NW\_876316.1 | Cf GCAAATCCAGGAGAT  
GGCACTAAAGGAGCTGCGGG-TATGATGGGGTGGG 2193

gi | 194719394 | ref | NC\_007316.3 | N GCAAACCCAGGGAAT  
TATAAAAAAGTAAATGAGGAGTGTGATGAGGGAGG 2913

gi | 149361523 | ref | NC\_000074.5 | \_ GCCAGTCTCCAGGAA  
TGAGATGAAG-----AAAGAAGGCTG 2139

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gi   51473102   ref   NT_010498.15   _	ATTACATGCCACATC
CAGGATG-CCTGTAGGAGGCCTCTAAGCCCTCCCC	2283
gi   114795057   ref   NC_006483.2   N	AATACATGCCACATC
CAGGATG-CCTGTAGGAGGCCTCTAAGCCCTCCCC	3503
gi   73957561   ref   NW_876316.1   Cf	GAGATGACCTGTTTC
CTGCCAGCTCAGCTCAGAGCCTGAACGTTCTTTGC	2243
gi   194719394   ref   NC_007316.3   N	CGGCCGGCCGG---C
CAGCCAGGTCACCTGTTT-CCTGCCAG--CTCAGC	2957
gi   149361523   ref   NC_000074.5   _	GGGAGACACTGCATC
CTGCTGG-----GGCTGGATCGCTGTGGCC	2179

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gi   51473102   ref   NT_010498.15   _	TCCCCCAGCCACTTT
GACCAGTT--ACCCAGTTCTAATAGTGATTGTTA	2331
gi   114795057   ref   NC_006483.2   N	TCCCCCAGCCACTTT
GACCAGTT--ACCCAGTTCTAATAGTGATTGTTA	3551
gi   73957561   ref   NW_876316.1   Cf	TCTCACA----CTTT
CCCAATTGGAACCCTTTTTTTTGCCAAGAAAAATT	2289
gi   194719394   ref   NC_007316.3   N	TCACAGT----CTTT
GCTCTT-----ACACTTACGTCCTCCA-----CTT	2993
gi   149361523   ref   NC_000074.5   _	CCCACGAG--GCTTT
GGGGGAGG--AACCAATTCACCTCTGGGATCGCTT	2225

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gi   51473102   ref   NT_010498.15   _	CTGAGAACTTGCTGT
GTCTTCTCTTGGGCCTCTTACCTCCAAGGTAAATT	2381
gi   114795057   ref   NC_006483.2   N	CTGAGAACTTGCTGT
GTCTTCTCTTGGGCCTCTTACCTCCAAGGTAAATT	3601
gi   73957561   ref   NW_876316.1   Cf	GAAAAAAGAAGCAAC
GTGTGCTCACAGTGATCATTCTACAG-TAGTTGT	2338
gi   194719394   ref   NC_007316.3   N	TGAAAAAGAAGCAAA
TT-TGCTTACCGTGATCATTCTCAA-TAGTTGT	3041
gi   149361523   ref   NC_000074.5   _	CTGCAACCGTCGTGA
CTTGGCTTTACG--ATCATTGGTCTG-----	2265

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gi   51473102   ref   NT_010498.15   _	TTACTCTCGTCATGT
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GATCAATGAGGATGTGAGGCTCCTAGTGGGGCCAC	2431
gi   114795057   ref   NC_006483.2   N	TTACTCTCGTCATGT
GATCAATGAGGATGTGAGGCTCCTAGTGGGGTCAC	3651
gi   73957561   ref   NW_876316.1   Cf	GAACTCCCTTTTATG
AACACTTG---TATACAGCATTCTGGGCAG-----	2380
gi   194719394   ref   NC_007316.3   N	-AACTCTCCTTCATG
AGTACTTGTGTAGGTGGTGTCTAGGCAG-----	3085
gi   149361523   ref   NC_000074.5   _	-----TGCTG
TGTCCTAGGTGCTGGTTGGTTTCACAGCACG----	2301

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gi   51473102   ref   NT_010498.15   _	GTTTGTTTGCTCAGT
GAGCATTTCCTGACAGCCAGTTTTGCTAGGCGCTG	2481
gi   114795057   ref   NC_006483.2   N	GTTTGTTTGCTCAGT
GAGCACTTCCTGACAGCCAGTTTTGCCAGGCGCTG	3701
gi   73957561   ref   NW_876316.1   Cf	-----CCTCTG-
-----AACCCCGCAGCCACTTTGCCAGCCACCT	2415
gi   194719394   ref   NC_007316.3   N	-----GCTCTG-
-----AACCTCCCCTCCACTTTGCCGAGTCACCC	3120
gi   149361523   ref   NC_000074.5   _	-----CGCAG-
-----CTGTCCTGAGACTGGCTGGGTCCCCT	2332

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gi   51473102   ref   NT_010498.15   _	AGGATACAGATGTGT
ACAAAACAAAGTTCATAAAGGAGGCCAATGGTCAG	2531
gi   114795057   ref   NC_006483.2   N	AGGATACAGATGTGT
ACAAAACAAAGTTCATAAAGGAGGCCAACGGTCAG	3751
gi   73957561   ref   NW_876316.1   Cf	TACTTATCCTACTAA
GTATTACTGAGAACTTGCTG--TGTCTTCTTTCAG	2463
gi   194719394   ref   NC_007316.3   N	CAGTTATAATACTAA
TTATTATTGAGACCTTGTTG--TGTCTCTTCACC-	3167
gi   149361523   ref   NC_000074.5   _	CCGAGGCCTTTG---
GCCTCCAGATGAACTTTACGACAGCTTTGGCACGG	2379

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gi   51473102   ref   NT_010498.15   _	-----CTGAGAAACT
GGGAGATGCTTTATTTGAGACCCAGTGGTCTCAGG	2576
gi   114795057   ref   NC_006483.2   N	-----CTGAGAAACC
GGGAGATGCTTTATTTGAGACCCAGTGGTCTTAGG	3796



gi | 73957561 | ref | NW\_876316.1 | Cf GTCTCCCTGTGCCGA 2513  
GGTTAATTTTATTATTATAATCATATGATAAATGA  
gi | 194719394 | ref | NC\_007316.3 | N -----CCTAAGTTGT 3203  
G-----TTAATTGTATGCACGTGATAGATGA  
gi | 149361523 | ref | NC\_000074.5 | \_ --AGACGAGTGCCAA 2427  
GGTTCCAACAGGCATCATTGGTTCTTGCCGAGTA

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCACTGGAGAATCA 2626  
AAGAGTAGAGGACCAGACAGAGGACTGGTGGTTGA  
gi | 114795057 | ref | NC\_006483.2 | N TGCACTGGAGAATCA 3846  
AAGAGTAGAGGACCAGACAGAGGACTGGTGGTTGA  
gi | 73957561 | ref | NW\_876316.1 | Cf TGACATCAAGCTTCA 2535  
CAGG-----TGG  
gi | 194719394 | ref | NC\_007316.3 | N GGCTTTGGAGGCTCT 3225  
CAGA-----TTG  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGATTGGACAATCT 2450  
TGGG-----CAGC

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGGGGA ACTGGAGA 2676  
CGACCCCATGTTAGAAGCACTGGAGACTGGATTTC  
gi | 114795057 | ref | NC\_006483.2 | N GAGGGGA ACTGGAGA 3896  
TGACCCCATGTTAGAAGCACTGGAGACTGGATTTC  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCAGGTACTAAAGA 2572  
TACAGCTGTGTACAAAACGAAG-----  
gi | 194719394 | ref | NC\_007316.3 | N GCCAGGTGGTAAGGT 3262  
TACAGCTGTGTCCAAAACAAAG-----  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGAGGATAATACA 2487  
ACACGCAGTATTCACAAATTAG-----

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCATTTCAGGAAT 2726  
GGAAAGAAAGGTGTTTGAGCCGGGCGCAGTGGCTC  
gi | 114795057 | ref | NC\_006483.2 | N AGCATTTCAGGAAT 3946  
GGAAAGAAAGGTGTTTGAGCCGGGCGCAGTGGCTC  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCGTGAGGG 2592  
AGGCCACAG-----  
gi | 194719394 | ref | NC\_007316.3 | N -----TTCATGGCAG

AGACTGACCG----- 3282  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTCGTGGGGA  
GGGGAGGAGAGTG----- 2510

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGCCTGTCATCCCC  
ACACTTTGGAAGACTGAGGCAGGAGGGTCACTTGA 2776  
gi | 114795057 | ref | NC\_006483.2 | N ATGCCTGTAATCCCC  
ACACTTTGGAAGACTGAGGCAGGAGGGTCACTTGA 3996  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGACAGAGAGACCA  
AGAGATGTTTAATCGAAGGTCTGG-----C 2632  
gi | 194719394 | ref | NC\_007316.3 | N TCAACAGAGAAATCC  
ACCAGTTTCCAGTAGGAAGGAGAA-----T 3322  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAGGTGAAAGAGGA  
AGAGATGCCTCATCAATGATCTTATTGATTTCAGAT 2560

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCCAGAGTTCAAG  
ATCAGCCTGGGCAACAT-AGCCAGATGCCATCTCT 2825  
gi | 114795057 | ref | NC\_006483.2 | N ACCCCAGAGTTCAAG  
ATCAGCCTGGGCAACTTTAGCCAGATGCCATCTCT 4046  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTCTAGGGTATTAT  
GGGAAACAAGAAAGCAGGGACATGTGGTTCATGGCA 2682  
gi | 194719394 | ref | NC\_007316.3 | N AAAAAAAGTGGAGT  
G----ACTGGGCAG--GGGACAGGTGGTTGAGACA 3366  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGCAGAGGAAGAAA  
GCCAAGGAGCCTAGAAGGGGCTGAGAGAGAGAGAT 2610

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAAAAATTAGGCG  
TGGTGGTGTGCACCTGTGGTCCTAGCTACTCACCA 2875  
gi | 114795057 | ref | NC\_006483.2 | N GCAAACAATTAGGCG  
TGGTGGTGTGCACCTGTGGTCCTAGCTACTCACCA 4096  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGGCCAGGG-----  
-----AGGACCCAG--TTAGTGGC 2709  
gi | 194719394 | ref | NC\_007316.3 | N GGGGTCAAGGGAGC--  
-----AGGACCGAGAGTCAGGAGC 3399  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAAATCCCCA--  
-----AGTTACAGGGGTCAAACAG 2642

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gi   51473102   ref   NT_010498.15   _	AGCTGAAGCAGGAGG
ATTGCTTGCACCTGGGAGGTCAAGGCTGCAGTGAG	2925
gi   114795057   ref   NC_006483.2   N	AGCTGAAGCAGGAGG
ATTGCTTGCACCTGGGAGGTCAAGGCTGCAGTGAG	4146
gi   73957561   ref   NW_876316.1   Cf	ATTAGAG-----
-----CGTGGTTCATGGCTTTGAAGAT	2740
gi   194719394   ref   NC_007316.3   N	ATCCAAGGCTGAGT-
-----CAGCACAGCCCTTATGGCTCTGGAGAT	3440
gi   149361523   ref   NC_000074.5   _	ATTTGAGG-----
-----TTCAGCACCCAG----CTGGTGAG	2670

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gi   51473102   ref   NT_010498.15   _	TTGTGATCATGCCAC
TGTGCTCCAGCCTGGGCAACAGAGTGAGACCCTGT	2975
gi   114795057   ref   NC_006483.2   N	TTGTGATCATGCCAC
TGTGCTCCAGCCTGGGCAACAGAGTGAGACCCTGT	4196
gi   73957561   ref   NW_876316.1   Cf	GCCCCGTTCTTGCTG
TGTATTTCCAATGTAACAACAAGGAAGAGCTTTAG	2790
gi   194719394   ref   NC_007316.3   N	GGTTTATTCTTGCT-
-GCATTTCCAACG----AAAAGGAAAGCACCTGG	3483
gi   149361523   ref   NC_000074.5   _	GTAGCTCCCTTTTCC
TGTGTTTCCAGAGTGACGAATGGACAGGTGTCTG-	2719

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gi   51473102   ref   NT_010498.15   _	CTCAAAACAAAACAA
CAACAAAAGGTCTTTGAGAGGCCTCCTTAATTTA	3025
gi   114795057   ref   NC_006483.2   N	CTCAAAACAAAACAA
CAACAAAAGGTCTTTGAGAGGCCTCCTTAATTTA	4246
gi   73957561   ref   NW_876316.1   Cf	GAGACCCTGTTAATT
CAACTACTAGGGAAAAAAAAG-----	2826
gi   194719394   ref   NC_007316.3   N	GAGACCTG----CTT
TCGTTACTGGG-----	3505
gi   149361523   ref   NC_000074.5   _	CAAGACTCTTTGGTT
TTGATGCTGG-----	2744

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTACTAGAAAAGC  
TTCTCACTGCTGACCTGAACATTAGGGTAAGGAAG 3075  
gi | 114795057 | ref | NC\_006483.2 | N GTTACTAGAAAAGC  
TTCTCACTGCTGACCTGAACATTAAGGTAAGGAAG 4296  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAAACACC  
TTCTCTGTGTTAACCTGAATGGTGG-GTAAGGAGA 2868  
gi | 194719394 | ref | NC\_007316.3 | N -----AAAGATCT  
TTCTCT--GCCCATCAGAACCTTGG-CTAAGGAAA 3545  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACAAAG  
CTCTCTCTGATGTCCTGCACAGTGG-----GAGA 2779

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gi | 51473102 | ref | NT\_010498.15 | \_ AGATTGGAGCAGAAA  
TTCCTGCTTCCCAGGTGACTCAG----CGCCAACT 3121  
gi | 114795057 | ref | NC\_006483.2 | N AGATTGGACCAGAAA  
TTCCTGCTTCCCAGGTGACTCAG----CGCCAACT 4342  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGTTGGACTGGAAA  
TTCCTGCTTCCCTG-ATGACTCGGTCAGTGCCAACT 2917  
gi | 194719394 | ref | NC\_007316.3 | N ATGTTGGACCAGAAA  
TTCCTGCTTCCCTGGATGACTTG----GTGCCAACT 3591  
gi | 149361523 | ref | NC\_000074.5 | \_ ACACAAGACTAGAAA  
TTCCTGCTCCTGAGAAGGCTGGG----TGCCAGCT 2825

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGGGGGAAGCTGTC  
TCTGCCCCTCAGGGCTCCCATCTCTTAAGTGAGGC 3171  
gi | 114795057 | ref | NC\_006483.2 | N CCAGGGGAAGCTGTC  
TCTGCCCCTCAGGGCTCCCATCTCTTAAGTGAGGC 4392  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAGG-GAAGTTATC  
TGTGACCCTCAGAGCTCCCATCTCTTAATCAAGTC 2966  
gi | 194719394 | ref | NC\_007316.3 | N CAG---AAAGTTATC  
TTTGACCCTCAGGGCCCCCATCTCTTAACCGAGAC 3638  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAGG-GATCTTGGC  
TCTGCCCCTCGAGG-----TTGCTCCCGAGGT 2865

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTATAGCCCCAGC  
CCA--CTGCCTTCCCTGGCTGGTGAGCAGATGCATC 3219  
gi | 114795057 | ref | NC\_006483.2 | N AGGTATAGCCCCAGC

CCA--CTGCCTTCCTGGCTGGTGAGCAGATTCATC 4440  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCATGGCTCCACC  
CTCTGCTGCCTTCCTGGTTGGTGAAGTGCATTCATC 3016  
gi | 194719394 | ref | NC\_007316.3 | N TGGCATGGCTCCATC  
CCACACTGCCTTCCTGGTTGGTGAAGTGCATTCATC 3688  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGTGGCGACTCCCAC  
CTGTCCTGCTATCCTGACTATTGACCT-TGTCACC 2914

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTCTGG-GCTCTCC  
AGGGTGAGGCTTGGATCCCAACAGACGAATGTAGT 3268  
gi | 114795057 | ref | NC\_006483.2 | N CTTCTGG-GCTCTCC  
AGGGTGAGGCTTGGATCCCAACAGACGAATGTAGT 4489  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCCTGGAGCTCTCC  
AGGGTGAAGACAGCATTCCAACAGACTCATGTAGT 3066  
gi | 194719394 | ref | NC\_007316.3 | N TCCCTGGGGCTCTGC  
AGGGCGAAGACTAGGTCCCAGCCGACCCGTGTCTT 3738  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTCTGG-GCTCTCC  
AG-----ATCTGAGATGGCATGTGTAGT 2951

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gi | 51473102 | ref | NT\_010498.15 | \_ GACCAC-CCATCCAT  
TCAACCTAGATTCACGGAGGGGGCTCCCTCTGTGT 3317  
gi | 114795057 | ref | NC\_006483.2 | N GACCAC-CCATCCAT  
TCAACCTAGATTCACGGAGGGGGCTCCCTCTGTGT 4538  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTCACCCCATTCAT  
TCAGCCCAGATTTACAGTG----CCTCTACTGTGT 3112  
gi | 194719394 | ref | NC\_007316.3 | N GG-----TCATTCAT  
TCAGCCCAGATTCACCGAG----CACCTGCCCTGT 3779  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGCAC-CGTGTCAT  
TCGACCCAGGCACCAG-----CAACTGTCCTGT 2993

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCAAGTGAGTGCTA  
CCAGCTGGAGTTGGGG---CTGATAAGGATGCACA 3364  
gi | 114795057 | ref | NC\_006483.2 | N GTCAAGTGAGTGCTA  
CCAGCTGGAGTTGGGG---CTGATAAGGATGCACA 4585  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCAGGCCAGTGCTG  
CATGCCAGGGATGGGGGCTCAG-----AAGA 3153

gi | 194719394 | ref | NC\_007316.3 | N GTCAGGCTGGTGCTG  
CACGCCAGGGATGGAGTGGAGGGAAGGATGCACAC 3829  
gi | 149361523 | ref | NC\_000074.5 | \_ G-ATGGCTTGGGCTG  
AGGACAATG-----CTCAC 3021  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCTCTACCCTCAG  
GTATCCCAACCAGGAGGCAGAGACAGGCACCCAGC 3414  
gi | 114795057 | ref | NC\_006483.2 | N GTTCCCTGCCCTCAG  
GTATCCCAACCAGGAGGCAGAGACAGGCACCCAGC 4635  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTCCCTGCTCTCCT  
GGT-----GGGCAGCGATGGGTACCAAAC 3192  
gi | 194719394 | ref | NC\_007316.3 | N ACTCCCTGCCCTCGT  
GGTGCCCT-----GTCCTGAGACGGGCCCAAAC 3873  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTCTCTGCTCTTAG  
GCATCCAT-----CCGGGTGGGTGGA 3057  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACTGGTCACAGTTC  
ACTGTTTAATGCCAACGTGTCAGAGCTGGGAGAAA 3464  
gi | 114795057 | ref | NC\_006483.2 | N AACTGGTCACAGTTC  
ACTGTTTAATGCCAATGTGTCAGAGCTGGGAGAAA 4685  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTAGAGCACAGCTG  
ACTCTTTAATGGCAGGTGTGCAGCAGCTGGGAGGG 3242  
gi | 194719394 | ref | NC\_007316.3 | N CACAGACCACAGCTG  
ACTGTTTAATG-----AGA 3902  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCAGGTCACAGTTG  
ACCTTGACTGTG-----GAGTGT 3090  
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gi | 51473102 | ref | NT\_010498.15 | \_ GACGTGATGTTTAAG  
ATGAATAGGAGTGGCAAAGGGTG--AGCTGG-ATG 3511  
gi | 114795057 | ref | NC\_006483.2 | N GACGTGATGTTTAAG  
ATGAATAGGAGTGGCAAAGAGTG--AGCTGG-ATG 4732  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAGGAGTGTTTAAG  
ATTCCTGAGAATGATAAAGATCAGGAGTGTGCTGG 3292  
gi | 194719394 | ref | NC\_007316.3 | N AGGGATGTTTAACAG  
ATTCATTGGAATGGCAACGACTAGGAGATG--TGG 3950  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAGTTTGGAGAGAG

AGCAGAATCTGAGATTAACAGGAGTAGAAAGATGG 3140  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGGGCAGGGATTGA  
CAGCGAGTTCTAGACAGAAGAGGTAGAGGCGTTGG 3561  
gi | 114795057 | ref | NC\_006483.2 | N AAGGGCAGGGGTTGA  
CAGCGAGTTCTAGACAGAAGAGGTAGAGGCGTTGG 4782  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGAGACAGAAGTCA  
TAGCGG-TTCTGGGCAGAGGG-AGTGAGGGGTAGG 3340  
gi | 194719394 | ref | NC\_007316.3 | N GAAGGGCAGAGTTGA  
TGGAGAGTTCTAGGCAGAAGGGAGTGAGGTGCAAG 4000  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGAGCCTGGCAGAG  
TGCCAG--ACAGGAGGAGGGACATACAGGGGCTGG 3188  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTTGGTAG-----  
GATGAGGCTGCAGAGGAGGGTCGTACGGAGCCTTG 3605  
gi | 114795057 | ref | NC\_006483.2 | N GGTTGGTAG-----  
GATGAGGCTGCAGAGGAGGGTCGTACGGAGCCTTG 4826  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTTGGTGTGAGAGG  
GATGAAGTTGCAGAGGTGAACCACGAAAAGCCTCT 3390  
gi | 194719394 | ref | NC\_007316.3 | N GCTTAGTGGGAGAGG  
-ATGAGGCTGCAGAAGCGGACCCACAGAGGTTCT 4049  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTAAGAAG-----  
-GTCAGGCTACACGG--GGGACCCACAGAGCCTCG 3229  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----TCAGA  
GTGTGGGCTTTATCCCTGGAGCAGTGGGGGATCGT 3645  
gi | 114795057 | ref | NC\_006483.2 | N -----TCAGA  
GTGTGGGCTTTATCCCTGGAGCAGTGGGGGATCGT 4866  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCTGCCAAGAAGA  
ATTTGGGCTTTATCCCTAGAGTAGCAGGGATCTAT 3440  
gi | 194719394 | ref | NC\_007316.3 | N GGGCC-TTGTGAAGA  
ATTTGGGCTCCCTCCATAGAGCGACAGGGAATCAT 4098  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----CAGAAAGA  
ATCTGTCCTTTCTATTTACAGTCATGGGG-ACCTT 3272  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGAAGGGTTTTTAAGT  
CAGGACATGATAGTCACTCATTATTCCCAGATGG 3695  
gi | 114795057 | ref | NC\_006483.2 | N TGAAGGGTTTTTAAGT  
CAGGACATGACAGTCACTCATTATTCCCAGATGG 4916  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGGGGGTTTTAAATC  
AGG-ATATGACAGTCATTCCCTTATTCACAGATGT 3489  
gi | 194719394 | ref | NC\_007316.3 | N GGAAAGGTTTTTAGGC  
TGGGGCAGGACAGTCATTATTATTGCAAATGT 4148  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAAGGGTTTTTAAGT  
CAGGACTTGGCAGTAGTTCACACATTCATAAACGT 3322

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCAAACATTAGAAC  
TGTG----ATAAACAGGCACAGTCAGATTTGTGT 3741  
gi | 114795057 | ref | NC\_006483.2 | N GCCAAACATTAGAAC  
TGTG----ATAAACAGGCACGGTCAGATTTGTGT 4962  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCAAACATTAAGAA  
TGCAATAAACAAAACAGACATGATCTGATTTGCAT 3539  
gi | 194719394 | ref | NC\_007316.3 | N GCCAGACATGACGCA  
TGCAGTGAACAGAACAGACACAGTCACATTTGAGT 4198  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCAGACTTCAGAGA  
CTTAG----TAAAGAAAACAATCACAGATTTGTAT 3368

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTAAGAGATTACA  
CTCAGTTACTGGAAAAGAGTATGTGTGTGGGAATT 3791  
gi | 114795057 | ref | NC\_006483.2 | N TTTTAAGAGATTACT  
CTCAGTTACCAGAAAAGAGTATGTGTGTGGGAATA 5012  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTGAAGAGATCACA  
CCTGGATTGCAG-----GAATA 3571  
gi | 194719394 | ref | NC\_007316.3 | N TTTTAAGAGATCACA  
CTTGGATTGCAGGAAG-----AGGAGTT 4236  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTCAAGACCGGACG  
CTCAGGCTGGAGAAAT-----GGCTT 3404

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGAGGCTCATGCAC  
ACACAACCTTTAACCCAAGGCTTGCCCAAACCTCACA 3841



gi | 114795057 | ref | NC\_006483.2 | N CTGAGGCTCATGCAC 5062  
ACACAAC TTTAACCCAAGGCTTGCCCAA ACTCACA  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGTGTATAGGAGAG 3598  
ACT-----TCTTACACA  
gi | 194719394 | ref | NC\_007316.3 | N CTGAGACTTACACAC 4272  
ACAGAGAGA-----GACACCCACAGA  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCTGT TAAAGTACT 3434  
GGTTG-----CTCTTCCAGA  
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gi | 51473102 | ref | NT\_010498.15 | \_ GATCATTAGT--GTT 3889  
TCTCAGAATTCAGCAACATGTGGGCATCTTCTTAA  
gi | 114795057 | ref | NC\_006483.2 | N GATCATTAGT--GTT 5110  
TCTCAGAATTCAGCAACATGTGGGCAGCTTCTTAA  
gi | 73957561 | ref | NW\_876316.1 | Cf CATCATTAGT--GTT 3642  
TCTTAAAATATAGCAAGATAGG---ACTACTTCT  
gi | 194719394 | ref | NC\_007316.3 | N GATCCTTGGT--GTT 4316  
TCTCAAAATTTAGCAATATATG---TCATCTTAA  
gi | 149361523 | ref | NC\_000074.5 | \_ GGACCCAGGTTTCGAT 3484  
TCCCAGACCCACATGGCAGCTCTTAGCCATCTGTA  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAATGTACTGCAA 3928  
CCCCACAG-----TGTTTTTTCTTTTCGAG  
gi | 114795057 | ref | NC\_006483.2 | N AGAAATGTACTGCAA 5149  
CCCCACGG-----TGTTTTTTCTTTTCGAG  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAAGTG----- 3664  
-----ATGTATTCTTAAAGTT-  
gi | 194719394 | ref | NC\_007316.3 | N AGAAACGTATTGGAA 4366  
GCCCCCAGGGTTGTCTTTTAAAGTATTATTTATCTG  
gi | 149361523 | ref | NC\_000074.5 | \_ ATTCCAGTTCTAGGG 3520  
GATCTATG-----TGCTCTTCCAACG  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGTGTCTCGCCCT 3978  
GTCACCCAGGCTGGAGTGCAATGGCATGGTCTTGG  
gi | 114795057 | ref | NC\_006483.2 | N ACAGTGTCTCGCCCT 5199  
GTCACCCAGGCTGGAGTGCAATGGCATGATCTTGG  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATTTGT

ATCAAAAGGTGACTTAAGTATAAGCAT---AAAAC 3702  
gi | 194719394 | ref | NC\_007316.3 | N GCTGGTCTCAGTTGT  
GGCATATGGGATCTTTAGTTGTGGCATGAGAACTC 4416  
gi | 149361523 | ref | NC\_000074.5 | \_ TATAGGAACACTGCA  
TACATGAGGTCACAGACACACACCCATATACATTA 3570

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCACTGCAACCTCT  
G-----CCTCCCAGAT 4004  
gi | 114795057 | ref | NC\_006483.2 | N CTCACTGCAACCTCT  
G-----CCTCCCAGAT 5225  
gi | 73957561 | ref | NW\_876316.1 | Cf TTG-----  
----- 3705  
gi | 194719394 | ref | NC\_007316.3 | N TTAGCTGTAGCATGT  
GGGATCTAGTCCCCTGACCAGGGATCGAACCCAGG 4466  
gi | 149361523 | ref | NC\_000074.5 | \_ AAAAAATAAATACTA  
G----- 3586  
:

gi | 51473102 | ref | NT\_010498.15 | \_ TCTCCTGCCTCAGCT  
TCCCGAGTAGCTGGGATTACAGGCACCCGCCACCA 4054  
gi | 114795057 | ref | NC\_006483.2 | N TGTCCTGCCTCAGCT  
TCCCGAGTAGCTGGGATTACAGGCACCCGCCACCA 5275  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N CCTCTTACTTGGGGA  
GCACGGAGTCTTAGCCACTGGACCACCAGGGAAGC 4516  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACCCAGCTAATTTT  
TGTACTTTTAGTAGAGATGGGGGTTTCACCATGTT 4104  
gi | 114795057 | ref | NC\_006483.2 | N CGCCAGCTAATTTT  
TGTACTTTTAGTAGAGATGGGGGTTTCACCATGTT 5325  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--AAATAAATGTAGATCTGTGTGTGTAACACAA-- 3736  
gi | 194719394 | ref | NC\_007316.3 | N TCCCCCGTTGTCTTA  
CGTTAGTCATGTCCAGCTATTTGTGACCCCATGG 4566

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
TTAAAAATAAAAACAGGCAGTGGTGGCACACGC-- 3619

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCAGGCTGGTCTC  
GAACTCCTGACCTCATGATCCGCCTGCCTCAGCCT 4154

gi | 114795057 | ref | NC\_006483.2 | N GGCAAGGCTGGTCTC  
AAACTCCTGACCTCATGATCCNNNNNNNNNNNNNNNN 5375

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATCAGAAAAGTCA----- 3749

gi | 194719394 | ref | NC\_007316.3 | N ACTGTAGCCCACCAG  
GCTGCTCTGTCCATCAGAATTCCCAGGCAAGAATA 4616

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTTAATCCCAG----- 3631

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAAAGTGCTGGGA  
TTACAGGCGTGAGCCACCGCACCTGGCCAGTGTTG 4204

gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 5425

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CTAGAGCGGGTTGCC  
ATTTT--CCTCCTCCTGGGCATCTTACCAACCCAG 4664

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTAAATGATTTGT  
ACAAAAGTGTGATATCAAGTAAGTATAAGCATAAA 4254

gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 5475

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N AGACTGAACCCATGT  
CTCCTGCACCAGCAGGCAGGTTCTTTACCTCTGAG 4714

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi   51473102   ref   NT_010498.15   _	ACTTGTAATAAACAT
AACTGTTTGCTTATAACTCAACTATAAAATCAGGT	4304
gi   114795057   ref   NC_006483.2   N	NNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	5525
gi   73957561   ref   NW_876316.1   Cf	-----
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gi   194719394   ref   NC_007316.3   N	TCCTGGGAAGCCCTT
CA-TATACCAAATGTGCCTTGAATAAGTATAAAC	4763
gi   149361523   ref   NC_000074.5   _	-----
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gi   51473102   ref   NT_010498.15   _	TCAATTTAGGCCTGT
TGCGGTGACTCACTCCTGTTTTCCCAGCACTTTGG	4354
gi   114795057   ref   NC_006483.2   N	NNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	5575
gi   73957561   ref   NW_876316.1   Cf	-----
-----AACTAAGTTT	3759
gi   194719394   ref   NC_007316.3   N	CTAAAATTGGCAATA
AACATAGTCACATGCTTATTATGAAAACACTACGTTT	4813
gi   149361523   ref   NC_000074.5   _	-----
-----CACTTGG	3638

gi   51473102   ref   NT_010498.15   _	GAGGCTGAGGCGTGC
AGATCACTTGAG-----	4381
gi   114795057   ref   NC_006483.2   N	NNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	5625
gi   73957561   ref   NW_876316.1   Cf	ATAATAAAATCATAA
AGTACAAATGTAG-----	3787
gi   194719394   ref   NC_007316.3   N	ATAATAAGATTATGA
AGTACACATGGAG-----	4841
gi   149361523   ref   NC_000074.5   _	GAGGTAGAGGCAGGT
GGAT-----	3657

gi   51473102   ref   NT_010498.15   _	-----
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 5675

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 5725

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 5775

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----TTCAGG  
AGTTCAAGACCAACCTGGCCAATATGGTGAAACCC 4422

gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNTCAGG  
AGTTCAAGACCAACCTGGCCAATATGGTGAAACCC 5825

gi | 73957561 | ref | NW\_876316.1 | Cf -----CAATT  
GAATTTTGACATGGCTAGTGATTTTTTTTTTTTTTTT 3827  
gi | 194719394 | ref | NC\_007316.3 | N -----CAACT  
GTGTTTTGACGTGGCTGGTGACGTCG---TATCAG 4878  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTCTG  
AGTTCGAGGCCAGCCTGGTCTACAGTGTGAGTTCC 3697

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTCTACTAAAAAT  
ACAAAAATTAGCCAGGCGAGGTGGCAGGCACCTGT 4472  
gi | 114795057 | ref | NC\_006483.2 | N CTCTCTACTAAAAAT  
ACAAAAATTAGCCAGGCGTGGTGGCAGGCACCTGT 5875  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCTTAGCCACTGAC  
GTTGAAT---GATTGTGCTGGTTGTCTATTGCTGT 3874  
gi | 194719394 | ref | NC\_007316.3 | N AAGTCGACCAGTGAT  
GTGGAAT---GCTTGTGTTTCGTTGTGCGACTGCTGT 4925  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGACAGCTAAGACT  
ACACAGAGAAACCTGTCTCGAAAAACAAAATAAA 3747

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gi | 51473102 | ref | NT\_010498.15 | \_ AATCCCAGCTACTGC  
--GGAG-GCTGAGGCAGGAAAATCCTTTG-----A 4514  
gi | 114795057 | ref | NC\_006483.2 | N AATCCCAGCTACTGG  
--GGAG-GCTGAGGCAGGAAAATCCTTTG-----A 5917  
gi | 73957561 | ref | NW\_876316.1 | Cf GTAACAAATGACTCC  
--AAAATGCAGTGGCTGAAAAGAACAATGATCAT 3922  
gi | 194719394 | ref | NC\_007316.3 | N GTGACATGTTACTCC  
--CAAACGTGGCAGCTGAAAAGGACTTT-----CT 4968  
gi | 149361523 | ref | NC\_000074.5 | \_ TAAATAAATAACAAT  
GACCTAACCTTGTCTAGCATGTGCAAG----- 3790

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCAGGAGGCGGAG  
GTTGCAGAGAGCTGAGATCACGAAACTG--CACTC 4562  
gi | 114795057 | ref | NC\_006483.2 | N ACCCAGGAGGCGGAG  
GTTGCAGAGACCTGAGATCACGACACTG--CACTC 5965  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCGTGGTTTCTGT  
GGTAAGAAATCTGGGTGCAGCTCAGCCGGGTGCTC 3972  
gi | 194719394 | ref | NC\_007316.3 | N CTCCCAGTTTCTTTG

AGTCTCAGGTCTAGGGGTGGTTTTCTGGGTA CTG 5018  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCTGGGTTCTATA  
ACACACACACACATATATGTAGTATGTGTGTGTGT 3840  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCCTGGAAGACAG  
AGCGAGACTCCCTCTCAAAAAAAAAAAAAAAAA--AG 4610  
gi | 114795057 | ref | NC\_006483.2 | N CAGCCTGGAAGACAG  
AGCGAGACTCCCTCTCAAAAAAAAAAAAAAAAAACAAG 6015  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGGATCTG-ATCTC  
TTATGAGGTGGTCATCCAGCTGTTGGCTGGGGTTG 4021  
gi | 194719394 | ref | NC\_007316.3 | N CCGGCTCCAGGTCTC  
TCGTGTGGCTGCTGTCCAGCTCTCCCCAGGG-CTG 5067  
gi | 149361523 | ref | NC\_000074.5 | \_ ATATATATACACACA  
TATCTATGTATATAACATATATGTATATATGTTAG 3890

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAATTTATAATAA  
AATTATAAAGTACAAATAGAACAGCCTTATTTTGA 4660  
gi | 114795057 | ref | NC\_006483.2 | N TCAAATTTATAATAA  
AATTATAAAGTACAAATAAAACAGGCTTATTTTGA 6065  
gi | 73957561 | ref | NW\_876316.1 | Cf TGATCTCATCTGAAA  
GCTCACTGTGTGGAAGGGGGAAGG-ATTCACTTCC 4070  
gi | 194719394 | ref | NC\_007316.3 | N TGGTCTCGTCTGAAG  
ACTCTCAGGGAAGAAGGGGGGAGGGATTCCCGCCT 5117  
gi | 149361523 | ref | NC\_000074.5 | \_ TATATACTGAGCAGC  
TGTATGTGTGTGCACATGCATGTGCATGCATGTGT 3940

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gi | 51473102 | ref | NT\_010498.15 | \_ TATATTGGTGATGTC  
TATTAAACTCAATCAGGCTGGGCATG--GTGGCT 4708  
gi | 114795057 | ref | NC\_006483.2 | N TATATTGGTGATGTC  
TATTAAACTCAATCAGGCTGGGCATG--GTGGCT 6113  
gi | 73957561 | ref | NW\_876316.1 | Cf CGGATTATTTGCAGG  
-CCTTGCACCCTTACTGTATGGGCCTGTCTACAGA 4119  
gi | 194719394 | ref | NC\_007316.3 | N GGGGCTGCTGGTGGG  
-CCTCTGGCTCTGATTGCACGGGCATCTCCTCGCT 5166  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTATGTATGTGTG  
CTCATATGTGCATATGTGTGTAGCCTTTTTGATAT 3990

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gi | 51473102 | ref | NT_010498.15 | _ TACGCCTGTAATCCC
AGCACTTTGGAAAGCCGAGGCAGGCGGATCACCTG 4758
gi | 114795057 | ref | NC_006483.2 | N TACGCCTGTAATCCC
AGCACTTTGGAAAGCCGAGGCAGGCGAGATCACCTG 6163
gi | 73957561 | ref | NW_876316.1 | Cf GCTG-CTTCATGGCT
TAGCAGCTGGCTTTCCCAAGAGTGAATGGTCCAAG 4168
gi | 194719394 | ref | NC_007316.3 | N TCTGGCATGTTCTGT
TGACTGGAAGGAGTCTAGGTTCGAGCTGGTTCTCAA 5216
gi | 149361523 | ref | NC_000074.5 | _ GAATCATGTCATTTA
AAGAAATCAGCAGTGAGAGCGGGCATTGTCCTCAG 4040

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gi | 51473102 | ref | NT_010498.15 | _ AGGTTACGAGTTCGA
GACCAGCCTGGCCAACATGGCAAAACCCCATCTCT 4808
gi | 114795057 | ref | NC_006483.2 | N AGGTTAGGAGTTCGA
GACCAGCCTGGCCAACATGGCAAAACGCCGTCTCT 6213
gi | 73957561 | ref | NW_876316.1 | Cf AGAGATTAGGAAAGC
ATCCAT---AAAAGCCAAG-----AAGCCATAGG- 4209
gi | 194719394 | ref | NC_007316.3 | N AGGGGAGGGGATAAC
ACCAGGGTGTGAATAAAGG-----GAGACAGAGTG 5261
gi | 149361523 | ref | NC_000074.5 | _ CCAAACCCAGCATAAC
AACAGTTGCTGGAGCTGGAG----- 4075

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gi | 51473102 | ref | NT_010498.15 | _ ACTAAAATACAAAA
ATTAGCTGGGTGTGGTGGTGGGTGCCTGTAACCCC 4858
gi | 114795057 | ref | NC_006483.2 | N ACTAAAATACAAAA
ATTAGCTGGGTGTGGTGGTGGGTGCCTGTAACCCC 6263
gi | 73957561 | ref | NW_876316.1 | Cf -----CCTTTT
ATAACCCAACCTTGAAGTG----- 4235
gi | 194719394 | ref | NC_007316.3 | N ATGGAGGTATCTAGA
GGCTGCCTGCCACACTGGTGGAAAGAAATCGTCCC 5311
gi | 149361523 | ref | NC_000074.5 | _ -----CCAAATG
AGAAGATGTCCATGG----- 4097

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gi   51473102   ref   NT_010498.15   _	GGCTACTCAGAAGGC
TGAGGCAGAAGAAACGCTTGAATGCAGGAGGTGGA	4908
gi   114795057   ref   NC_006483.2   N	AGCTACTCAGAAGGC
TGAGGCAGAAGAAACGCTTGAATGCAGGAGGTGGA	6313
gi   73957561   ref   NW_876316.1   Cf	---ACATCTTATCAC
TT-CTGCCATGTTCT-----ATTCATTATAAGTG	4275
gi   194719394   ref   NC_007316.3   N	C-TAAATGAGATCAC
TTGCTAAATAGAACC-----ACGCCTGGTATGAG	5354
gi   149361523   ref   NC_000074.5   _	--TACATAAAGAAAT
GAAATGTATAGACCA-----CATATATGTATGTAT	4140

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gi   51473102   ref   NT_010498.15   _	AGTTGCAGTGAGCCA
AGATTGCGCCACTACTCCAGCCTGGGTGACAGA	4958
gi   114795057   ref   NC_006483.2   N	AGTTGCAGTGAGCCA
AGATTGCGCCACTGCCTCCAGCCTGAGTGACAGA	6363
gi   73957561   ref   NW_876316.1   Cf	AGTCTAGGGGCACCT
GGCTGGCTCAGTCAGTAGAACGTGCAACTCTTTAC	4325
gi   194719394   ref   NC_007316.3   N	GTTTGCTGCGCAGCT
GTCTGGTTTTTGTGGTGTTTTTTATTAGTCTTGAGT	5404
gi   149361523   ref   NC_000074.5   _	ATATGCTATATATCA
CAGAATTTATACATATTCTTAGCCTGAGGCTGACT	4190

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gi   51473102   ref   NT_010498.15   _	GCGAGACTCCATCTC
AAAACAACAACAACAAAAAAGAGACTGGAAACCA	5008
gi   114795057   ref   NC_006483.2   N	GCAAGACTCCATCTC
AAAACAACAAC-----AAAAGAGACTGGAAACCA	6407
gi   73957561   ref   NW_876316.1   Cf	-CTCAGCGTCATGAA
TTTGAGCCCC-----ACATTG---GGTGTAGA	4364
gi   194719394   ref   NC_007316.3   N	-CTGGTCTTTTTTTTT
TTTTTTTCCTG-----GCTGTGTTAGGTCTTGG	5446
gi   149361523   ref   NC_000074.5   _	CACACCCATCAGAAT
AGAACTCACCG-----ATACACAGGGATCTTA	4232

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gi   51473102   ref   NT_010498.15   _	AAGCCTTTTTTTGAAT
CTCATTTTTGAATGAGGTCTCATAACTTCTGCCAT	5058
gi   114795057   ref   NC_006483.2   N	AAGCCTTTTTTTGAAT

CTCATTTTCGAAATGAGGTCTCATAACTTCTGCCAT 6457  
gi | 73957561 | ref | NW\_876316.1 | Cf GATGATTTAAT-AAA  
ATAAAAATAAAATAAAG-TAACTCTAGGTCTAGCCC 4412  
gi | 194719394 | ref | NC\_007316.3 | N TTGCTCCATAC-AGG  
CTTTTCTCTAGTTGTG-GCAAGCGGGGGCTCCTCT 5494  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGAAAAGGTTTGTA  
CCCTCTTCCCCTTGTC--ATCTTAACAACCTTACAC 4280

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTCTATTCGTTTGA  
TGCAAGTCTAGGTCCAGTCTACACTCAAAGGGAAG 5108  
gi | 114795057 | ref | NC\_006483.2 | N ATTCTATTCGTTTGA  
TGCAAGTCTAGGTCCAGCCTACACTCAAAGGGAAG 6507  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGCTTGAGGTGG--  
-----GGCAGAGGTGGATTTGAATTACACA 4450  
gi | 194719394 | ref | NC\_007316.3 | N CTAGTTGTGGTGTGC  
AGGCT-TCCTGTCGCAGGGGCTCCTCTCTAGTTGT 5543  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGGTGTGACTT--  
-----CAGTTCACATTAACATTCAACTTGCCA 4320

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTTACACAGGCCA  
TGGGTACTGGGAGGGAGTGATGGCTGGGGACTGCC 5158  
gi | 114795057 | ref | NC\_006483.2 | N GGGTTACACAGGCCA  
TGGGTACTGGGAGGGAGTGATGGCTGGGGACTGCC 6557  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGGTGTGAATACCA  
AGAAGCAAGG-----CTGGTTTGGGGGCAGAGAC 4494  
gi | 194719394 | ref | NC\_007316.3 | N GGTGTGCAGGCTTCC  
TGCCGCGGGGGCTCCTCCCGTTGCAGAGCACAGGC 5593  
gi | 149361523 | ref | NC\_000074.5 | \_ ATCAAAGGAGCCACA  
GGCTCCTGTGACGAGACCGAGACCCAATCCATGAC 4370

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAAAGGCTGCCCCAT  
TGGAATAGTAGAAAGAAATATTTCTTCAATGACG 5208  
gi | 114795057 | ref | NC\_006483.2 | N TTAAAGGCTGCCCCAT  
TGGAATAGTAGAAAGAAAGATTTCTTCAATGACG 6607  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCCC----ACCACA  
ATGGTGGAAAGGAATAGCTTCTTACATGAG---CC 4537

gi | 194719394 | ref | NC\_007316.3 | N TCTAG----GCACAT  
GGGCTGGAAGCTGTAGCCCATGTGCTTAGT-TCT 5638  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGCG-----A  
TGGCTGGTTCGTTCTCCACCCCTGGCTGAAGAACA 4411

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATTCACGTTAAAA  
AAAATCCTAGAACCACATCTGACATGTCATCTGCT 5258  
gi | 114795057 | ref | NC\_006483.2 | N TCATTCACGTTAAAA  
AAAATCCGAGAACCACATCTGACATGTCATCTGCT 6657  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGTCACCTAGAAAG  
CAGAACCACACCTGGTGCTTAATCTGCT----- 4580  
gi | 194719394 | ref | NC\_007316.3 | N TCGGTGGCATGTGGG  
GTCTTCCTGGACCGGGGATCAAACCGATGTCCCC 5688  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTGCCCCCGAGCC  
TGGAGAAGATACTTGTGCTTGTACAACCTGAGTG-- 4459

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTACTTATCTAGT  
TTTGTTAGTGTTTTTCATTCATCGTAAGTTCTGTTC 5308  
gi | 114795057 | ref | NC\_006483.2 | N CACTACTTATCTAGT  
TTTGTTAGTGTTTTTCATTCATCGTAAGTTCTGTTC 6707  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGATAGTTATCTTT  
TTCTTACTGTTTTTCATTTACTCTTGAATTCTAGTC 4629  
gi | 194719394 | ref | NC\_007316.3 | N GAGTTGCAAGGTGGA  
TTCTTAACCACCAGGGAAGGCCTTGAGGTCCAATC 5738  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCCTGGCTCAGGGT  
CGCTCTCAAGGTGGCGGTCACACTGTGTGCAGAGC 4509

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAA----ACTCTT  
TTGAACTTTTGATTTTGAAAATACTGATGCTAAG- 5353  
gi | 114795057 | ref | NC\_006483.2 | N TTAA----ACTCTT  
TTGAACTTTTGATTTTGAAAATACTGATGCTAAG- 6752  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCATGTAGACTCCT  
TTAGAATTCTGATTTTGATAAAGCACATGCTGAG- 4678  
gi | 194719394 | ref | NC\_007316.3 | N TTCAG----ACTCTT  
TTTGAATTTTGATTTTGATAAAGCTTATGCTGGA- 5783  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGG----TCTCAC

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CTGGAGCCATGCAACTCTAAGCACTATGGCTGTGG 4555
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gi | 51473102 | ref | NT_010498.15 | _ ----AATGTCTGCTA
ATGTGTGTATGTACAAAATGACATTTACATTTGTC 5399
gi | 114795057 | ref | NC_006483.2 | N ----AATGTCTGCTA
ATGTGTGTATGTACAAAATGACATTTACATTTGTC 6798
gi | 73957561 | ref | NW_876316.1 | Cf ----AATGTCTAATT
ATGTGTATGTGTACAAAATGGTATTTAAATATGTC 4724
gi | 194719394 | ref | NC_007316.3 | N ----AATGTTTAATT
CCCATATGTGTATAAAAATGGTGTTCACGCAGACC 5829
gi | 149361523 | ref | NC_000074.5 | _ CAGGCCTGTTTGCTG
ACCATGTGATCCTCTCTGCGGGACTCACTGTGGCC 4605
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gi | 51473102 | ref | NT_010498.15 | _ AGG-ACTTTGTTTGC
TAGTTTAGGATAATCAGACTCAAACCTCAAGTCCAA 5448
gi | 114795057 | ref | NC_006483.2 | N AGG-ACTTTGTTTGC
TAGTTTAGGATAATCAGACTCAAACCTCAAGTCCAA 6847
gi | 73957561 | ref | NW_876316.1 | Cf ACG-AGTCTGTTTGC
AACTTTAGGATAACTAGCCTCTTACTTAAGCACAA 4773
gi | 194719394 | ref | NC_007316.3 | N GAG-ACTGTGTCTGC
TAGATCAGGACAACCTGCCCGTCACATAA----- 5872
gi | 149361523 | ref | NC_000074.5 | _ CAGCAGACAGACGGC
TCAGTGGGGATTAGTAAAGGTAGCCTTAGAATACT 4655
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gi | 51473102 | ref | NT_010498.15 | _ CTGCCAGCAAGCAGC
CTACGAATGCCAATTTTAAG-GCTGTCATCTGATA 5497
gi | 114795057 | ref | NC_006483.2 | N CTGCCAGCAAGCAGC
CTGCGAATGCCAATTTTAAG-GCTGTCATCTGATA 6896
gi | 73957561 | ref | NW_876316.1 | Cf GGGGCAGCAAACAAC
CTGTGAATGTCAGTTTTTCAGGGCTGTCACCTGGGTA 4823
gi | 194719394 | ref | NC_007316.3 | N -----TCATC
GTAGAACTGGCTGGATCACTTGAAGATAAGGCCTT 5912
gi | 149361523 | ref | NC_000074.5 | _ CACGACGAACGCCAC
GTATGAGAACTTAAAACCTTCTGCTGTACCTTCA 4705
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gi   51473102   ref   NT_010498.15   _	ACCGTAGAACTGGCT
CGTTCACTTGAAGATAATGTTAGTGTTGGGCGTTG	5547
gi   114795057   ref   NC_006483.2   N	ACCGTAGAACTGGCT
CGTTCACTTGAAGATAATGTTAGTGTTGGGCGTTG	6946
gi   73957561   ref   NW_876316.1   Cf	ACTGTAGAATTG-CT
CACGCACTGGAATATAAGGTGAGTGTCAGGCGTTG	4872
gi   194719394   ref   NC_007316.3   N	GTGGAAGGGTTG-TT
TCTTCACCG-----TGTGCGGATGAG-----	5947
gi   149361523   ref   NC_000074.5   _	GTTCCAGGAAGGAGC
GCCAGGCTTAGTCTCCTCCATAGGGAAGGG-----	4750
	. ** . *
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gi   51473102   ref   NT_010498.15   _	TTGAAAGAATATTTTC
TTCATTTGGTATCTATTTGTATGTACTACTACT	5597
gi   114795057   ref   NC_006483.2   N	TTGAAAGAATATTTTC
TTCATTTGGTATCTATTTGTATTTACTACTACT	6996
gi   73957561   ref   NW_876316.1   Cf	TGGGGAAAAATATTC
TTCACTTGGTATTGATTA-----	4905
gi   194719394   ref   NC_007316.3   N	-CGTGCTCACTGCTC
ATCACCCG-----	5969
gi   149361523   ref   NC_000074.5   _	-ATAAGGGGTGGCAC
ACTGCTTG-----	4772
	. . : *
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gi   51473102   ref   NT_010498.15   _	TAGTGCTCATTGACG
GTGCCAGCTGCTACGTACAAAGACTGGATTCATGT	5647
gi   114795057   ref   NC_006483.2   N	TAGTGCTTATTGACT
GTGCCAGCTGCTATGTACAAAGACTGGATTCATGT	7046
gi   73957561   ref   NW_876316.1   Cf	-----CCATACTA
TGGCAAGTAGCTGTGTTACAGACTGGATTCAGGT	4948
gi   194719394   ref   NC_007316.3   N	-----
TGCCAGGTAGCCACGGGCAGAGACTGGGCTTGCAG	6004
gi   149361523   ref   NC_000074.5   _	-----
--AGGGGACACTAGAGAGCAGGGCGGCAATTAGG-	4804
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gi   51473102   ref   NT_010498.15   _	AAGGCACCTGCTTGT
GACGTGACTACTTCTCAATATTTAGGTATCTTA	5697

gi | 114795057 | ref | NC\_006483.2 | N AAGGCACCTGCTTGT  
GACGTGACTACACTTCTCAATATTTAGGTATCTTA 7096  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGGCCCA-CTTAC  
AATGTGATTACACTACTCAGTGGTTTGATACTTTC 4997  
gi | 194719394 | ref | NC\_007316.3 | N ACGGCCTCC-CTGGC  
AGCACGGTTGCCCGCTTCGCAGGTCAGACTTCCTG 6053  
gi | 149361523 | ref | NC\_000074.5 | \_ --GGCTCCCTTAGGC  
TGCCC----TCCCACAGTAGTGGAAGACTTCCAG 4848  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTTTTCTCACCGA  
ATCCACAATTGTGCGCTGTGTGATGACTCAATTCT 5747  
gi | 114795057 | ref | NC\_006483.2 | N GGGTTTTCTCACCGA  
ATCCACAATTGTGCGCTGGGTGATGACTCAATTCT 7146  
gi | 73957561 | ref | NW\_876316.1 | Cf TAGTTGAC---TAGT  
CAGTACCATG---TATTGTGTGATGGTTCTATCTC 5041  
gi | 194719394 | ref | NC\_007316.3 | N AAGTTGATGCGCTGA  
CGTCACCGCG---TGCTGTGCACTGGCTCCGTG-- 6098  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAGATGTGCACATC  
TGTCATCCCAGCATTCTAGAAGTGGAGACAGGAGG 4898  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGCTAACCTTTCT  
CTCTGAGCCATTGAAGCTTTTCAGTGTGTGTCAGCC 5797  
gi | 114795057 | ref | NC\_006483.2 | N TCTGCTAACCTTTCT  
CTCTGAGCCATTGAAGCTTTTCAGTGTGTGTCAGCC 7196  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGCCGGTTCTTCCA  
CTCTGAGCCACTGAG-----GAGCT 5076  
gi | 194719394 | ref | NC\_007316.3 | N CTCCCACCAAGCTCT  
CTCCGGGCTTCCGAG-----AAGCC 6133  
gi | 149361523 | ref | NC\_000074.5 | \_ ATCTACCTTCAGTCA  
CCCCCTGACTCCGTAG-----A 4930  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCACTGGGATGCTA  
CAGTGTGTGCTGTGATGGTTGTCATGGATGCAAAT 5847  
gi | 114795057 | ref | NC\_006483.2 | N TTCACTGGGATGCTA  
CAGTGTGTGCTGTGATCGTTGTCATGGATGCAAAT 7246  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCATCC-----CTG

CAGGCTGTCATGTGTTTGTGTCACAGAGGCACAT 5121  
gi | 194719394 | ref | NC\_007316.3 | N TGCATCC-----CTT  
CAGTGCGCCATGGGATTGTTGTCCTGGATGCAGGT 6178  
gi | 149361523 | ref | NC\_000074.5 | \_ TAAATAG-----TTC  
AGGGAAAGCCTGGGCTACATGAGATCCTGCCAAAA 4975  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATGCACACTGGTGTT  
ATGTCACAGTCCTGAGTTGTAAGTTGCCCCACC 5897  
gi | 114795057 | ref | NC\_006483.2 | N ATGCACACTGGTGTT  
ATGTCACAGTCCTTAGTTGTAAGTTGCCCCACC 7296  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGGCACTAGTGTC  
ATGTCATAGTGCTTTGTTATCAAGTGGCCCAAAG 5171  
gi | 194719394 | ref | NC\_007316.3 | N GTG-ACACCAGGGTC  
CTGTGACAGCTCTTTGTTATAAACCAGCCACCCGG 6227  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGAGCAGACCTGAC  
ATGATTCA-----TATAAAAAATGCTACACATGC 5019  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCGAAAGGTCTG---  
--TGTTGATCAGACAGTCATTG--AAACACATTCA 5940  
gi | 114795057 | ref | NC\_006483.2 | N CCGAAAGGTCTG---  
--TGTTGATCAGACAGTCATTGAAACACACATTCA 7341  
gi | 73957561 | ref | NW\_876316.1 | Cf --GGTCTGTAT----  
----TAATTAGGATAATCATTG--AGACACATAGA 5209  
gi | 194719394 | ref | NC\_007316.3 | N AAGGTCTTTATGCTG  
TGTCATATTAGGCTAGTTATTA--AAACATATTCA 6275  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGCACATGCAT---  
----ACACACAGATACACATGG----ACACACACA 5058  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTTAATAAGTTCT  
CAGAAAACCTTGAAGGCTCCTGAGAATACGTCTGAA 5990  
gi | 114795057 | ref | NC\_006483.2 | N AGGTTAATAAGTTCT  
CGGAAAACCTTGAAGGCTCTTGAGAATACGTCTGAA 7391  
gi | 73957561 | ref | NW\_876316.1 | Cf GT-TCAG-AAGCTCT  
TAGAGAACTG-TAGGCTCTTGAGAATATGTCCAAA 5256  
gi | 194719394 | ref | NC\_007316.3 | N ATGTCTGTAAGATCT  
TCGAAAACCTTGCAGGCTTTTGAGAGCATGTCTGAA 6325

gi | 149361523 | ref | NC\_000074.5 | \_ TATACTTATACACAC  
AGAGATACACATATACACAGAGATACACATACATA 5108

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gi | 51473102 | ref | NT\_010498.15 | \_ GATGGCATCCCGGAA  
ACCCTGCCCCCAATCCAAATGTCACAAGCTTTTTT 6040

gi | 114795057 | ref | NC\_006483.2 | N GATGGCATCCCGGAA  
ACCCTGCCCCCAATCCAAATGTCACAAGCTTTTTT 7441

gi | 73957561 | ref | NW\_876316.1 | Cf GATGCCAAG----AA  
ACCCTGCCCCCAATCCTAATGTCATGAGCTTTGTT 5302

gi | 194719394 | ref | NC\_007316.3 | N GATGCTGTGTTGGAA  
ACCCTGCCCCAG-ACCTAGTGTCATGAGCCTT--- 6371

gi | 149361523 | ref | NC\_000074.5 | \_ CAGAGATACACATAT  
GCACACACACATACACACATGCACACACAGATACA 5158

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAATAAGGGTAAAG  
AATCCCAGAGTCCCAACTAGGAAGGAACTTCCAGTG 6090

gi | 114795057 | ref | NC\_006483.2 | N TAAATAAGGGTAAAG  
AATCCTAGAGTCCCAACTAGGAAGGAACTTCCAGTG 7491

gi | 73957561 | ref | NW\_876316.1 | Cf --ATTAAGGGCAGTT  
GATCCTG-ACTCCCCAG-----ACCCCTCAGGGG 5344

gi | 194719394 | ref | NC\_007316.3 | N --ATTAAGGGTAAAA  
GACCCCGGATTCTCGA-----GCTCCTGCGGGTG 6414

gi | 149361523 | ref | NC\_000074.5 | \_ CATGGACGCACATGT  
ACACACATAAACATGTTTCATGTACACACAGAAA 5208

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTTAAATGGTTGCT  
GCTTGGTGGCCATCATATTAGGGGTGGGACTGGGA 6140

gi | 114795057 | ref | NC\_006483.2 | N TGTTAAATGGTTGCT  
GCTTAGTGGCCATCATATTAGGGGTGGGACTGGGA 7541

gi | 73957561 | ref | NW\_876316.1 | Cf AAGGAATTAG-----  
----- 5354

gi | 194719394 | ref | NC\_007316.3 | N GGGTGGCTAG-----  
----- 6424

gi | 149361523 | ref | NC\_000074.5 | \_ TATACACATATG---  
----- 5220

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gi | 51473102 | ref | NT_010498.15 | _      GCTGATGGGGGGTCC
TTTGGTTTTTCATTTGTGTGCACACAAATTG-TTTG 6189
gi | 114795057 | ref | NC_006483.2 | N      GCTGATGGGGGGTCC
TGTGGTTTTTCATTTGTGTGCACACAAATTTGTTTG 7591
gi | 73957561 | ref | NW_876316.1 | Cf      -----
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gi | 194719394 | ref | NC_007316.3 | N      -----
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gi | 149361523 | ref | NC_000074.5 | _      -----
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gi | 51473102 | ref | NT_010498.15 | _      TAGATTTGGTATTTC
TCCTAAAGCAGAGGCCATCTGGATGAGAACACAGG 6239
gi | 114795057 | ref | NC_006483.2 | N      TAGATTTGGTATTTC
TCCTAAAGCAGAGGCCATCTGGATGAGAACACAGG 7641
gi | 73957561 | ref | NW_876316.1 | Cf      -----
-----AAGGTTTCGGAGATGGCTGTCCTCTC 5379
gi | 194719394 | ref | NC_007316.3 | N      -----
-----CAGGCTCACAGCCGGCCATCTTCTG 6449
gi | 149361523 | ref | NC_000074.5 | _      -----
-----CACACATGCACACACATGGATACATACAT 5249

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gi | 51473102 | ref | NT_010498.15 | _      CAGCTGCTATATCTT
CAAGGGTTGACATTCAGCTGCTATTTCTCTTTTCGG 6289
gi | 114795057 | ref | NC_006483.2 | N      CAGCGGCTATATCTT
CAAGGGTTGACATTCAGCTGCTATTTCTCTTTTCGG 7691
gi | 73957561 | ref | NW_876316.1 | Cf      CCTCTGCCTCCTCTC
TGTG-----TCATCCTCTTCTGTGTGTATGT 5420
gi | 194719394 | ref | NC_007316.3 | N      CCGTG----TCTCAC
ATGG-----TCGTCC-----CTCCGT 6476
gi | 149361523 | ref | NC_000074.5 | _      GCAAACACATATACA
CATG-----CACAC 5273

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gi | 51473102 | ref | NT_010498.15 | _      GGACAAAGAAATACA

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G-TTATGAAAGACCCGAGAGTTTGGGTTTTTATTGC	6338
gi   114795057   ref   NC_006483.2   N	GGACAAAGAAATACA
AGTTATGAAAGACCCAGGAGTTTGGGTTTTTATTGC	7741
gi   73957561   ref   NW_876316.1   Cf	GTCTAAATGCCCTCC
TCTTACTAAGATAACCAGTCATATTG----GATTAA	5466
gi   194719394   ref   NC_007316.3   N	GTCCTAATCTTTCCT
TCTGACAAGGACACCAG-----	6508
gi   149361523   ref   NC_000074.5   _	ATGCATATGCACACA
TGCATATATACACATG-----	5304
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gi   51473102   ref   NT_010498.15   _	CACCCCACCTAATAA
TCTATCAAAAAGGAGAGAAAGGGAATTAGCAGAAA	6388
gi   114795057   ref   NC_006483.2   N	CACCCTACCTAATAA
TTTATCAAAAAGGAGAGAAAGGGAATTAGCAGAAA	7791
gi   73957561   ref   NW_876316.1   Cf	GGCCCATCTTAATCA
TTTCATT-----	5488
gi   194719394   ref   NC_007316.3   N	-ACCCATCCTAATGA
CCTCATT-----	6529
gi   149361523   ref   NC_000074.5   _	--CACACACACATAC
ACACATG-----	5324
	* . * . : . ** .
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gi   51473102   ref   NT_010498.15   _	GCTTATTCAGGGACT
TCAAAAATCATATAGAGTATTTAGATGAACCTGTC	6438
gi   114795057   ref   NC_006483.2   N	GCTTATTTAGGGACT
TCAAAAATCATATAGAGTATTTAGATGAACCTGTC	7841
gi   73957561   ref   NW_876316.1   Cf	-----
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gi   194719394   ref   NC_007316.3   N	-----
-----	-----
gi   149361523   ref   NC_000074.5   _	-----
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gi   51473102   ref   NT_010498.15   _	CAAGTCAGATGTTGA
GAAGGATGGTATTCGGATGGTTGTTTGAGGGTTAA	6488
gi   114795057   ref   NC_006483.2   N	CAAGTCAGATGTTGA
GAAGGATGGTATTCAGATGGTTGTTTGAGGGTTAA	7891

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gi | 73957561 | ref | NW_876316.1 | Cf -----
-----TTTA 5492
gi | 194719394 | ref | NC_007316.3 | N -----
-----TTAA 6533
gi | 149361523 | ref | NC_000074.5 | _ -----
-----GAC 5327
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gi | 51473102 | ref | NT_010498.15 | _ TATAGACACCTGGTA
AGAAGGACTTGTCTCATATCAGATACAATGAAAAC 6538
gi | 114795057 | ref | NC_006483.2 | N TATAGACACCTGGTA
AAAAGGACTTGTCTCATATCAGATACAATGAAAAC 7941
gi | 73957561 | ref | NW_876316.1 | Cf CTTAATCACCT-CTT
TGAAGGGCTTACCTCCAG----- 5524
gi | 194719394 | ref | NC_007316.3 | N CTTAATCACCT-CTT
GGAAATCCCTGTCTCCA----- 6564
gi | 149361523 | ref | NC_000074.5 | _ ACACACAGCCTGCTC
GGGAGTCCCTAGTTTTG----- 5359
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gi | 51473102 | ref | NT_010498.15 | _ AAATACTTTAAAACA
TGAAATGAGATATTCAAATATTTAAAAAATGGCCA 6588
gi | 114795057 | ref | NC_006483.2 | N AAATACTTTAAAACA
AGAAATGAGATATTCAAATATTTAAAAAATGGCCA 7991
gi | 73957561 | ref | NW_876316.1 | Cf -----
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gi | 194719394 | ref | NC_007316.3 | N -----
-----
gi | 149361523 | ref | NC_000074.5 | _ -----
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gi | 51473102 | ref | NT_010498.15 | _ TGAGTAGAGGTTTGT
TTACAGATATTCTGGGATATCTAGATAGCAGAATT 6638
gi | 114795057 | ref | NC_006483.2 | N TGAGTAGAGGTTTGT
TTACACATATTCTGGGATATCTAGATAGCAGAATT 8041
gi | 73957561 | ref | NW_876316.1 | Cf -----
-----
gi | 194719394 | ref | NC_007316.3 | N -----
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCACAGACACTGAA  
ACAGATGCTGTAGAAGCATATGTAATGACACAGTG 6688

gi | 114795057 | ref | NC\_006483.2 | N CTCACAGACACTGAA  
ACAGATGCTGTAGAAGCATATGTAATGACACAGTG 8091

gi | 73957561 | ref | NW\_876316.1 | Cf -ACACAGTCATATTC  
TGAGGTACT----- 5547

gi | 194719394 | ref | NC\_007316.3 | N --AACAGTCACAGCC  
TGAGGTGCT----- 6586

gi | 149361523 | ref | NC\_000074.5 | \_ -----TAATGTTTCC  
TTTGATGCT----- 5378

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gi | 51473102 | ref | NT\_010498.15 | \_ GACGGCTATGATTCT  
AATGTTTTTAAACATGAAAAACGTCAAACACGGCCC 6738

gi | 114795057 | ref | NC\_006483.2 | N GACGGCTATGATTCT  
AATGTTTTTAAACATGAAAAACGTCAAACACGGCCC 8141

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCGCAGTGGGTCAC  
GCCTGTAATCCCAGCACTTTGGGAGTCCCAGGTGC 6788

gi | 114795057 | ref | NC\_006483.2 | N GGCGCAGTGGGTCAC  
GCCTGTAATCCCAGCACTTTGGGAGGCCAGGTGG 8191

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT_010498.15 | _      GTGGATCACTTGAGG
TCAGGAGTTCGAGACCAGCCTGACCAACGTGGTGA 6838
gi | 114795057 | ref | NC_006483.2 | N      GTGGATCACTTGAGG
TCAGGAGTTCGAGACCAGCCTGACCAACGTGGTGA 8241
gi | 73957561 | ref | NW_876316.1 | Cf      -----
--AGGGGTTAGGATTCAACATATGAATTTTGGA-- 5578
gi | 194719394 | ref | NC_007316.3 | N      -----
--GGGATTAGGACATCAGCATGTGGGTTTGAGG-- 6617
gi | 149361523 | ref | NC_000074.5 | _      -----
---ATTTTTTCCCCCTGGGCTCAGAGTTTGGAG-- 5408

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gi | 51473102 | ref | NT_010498.15 | _      AACCTCGTCTCTACT
AAAAATACAAAATTGGCCGGGTGTGGTGGCATGTG 6888
gi | 114795057 | ref | NC_006483.2 | N      AACCTCGTCTCTACT
AAAAATACAAAATTGGCCGGGTGTGGTGGCACGTG 8291
gi | 73957561 | ref | NW_876316.1 | Cf      -----
-GAGGTACAATTGG----- 5592
gi | 194719394 | ref | NC_007316.3 | N      -----
-GGAAGACAATTCTG----- 6631
gi | 149361523 | ref | NC_000074.5 | _      -----
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gi | 51473102 | ref | NT_010498.15 | _      CCTGTAATCCCATCT
ACTTGGGAGGCTGAGGCAGAAGAATCACTTGAATC 6938
gi | 114795057 | ref | NC_006483.2 | N      CCTGTAATCCCATCT
ACTTCGGAGGCTGAGGCAGAAGAATCACTTGAATC 8341
gi | 73957561 | ref | NW_876316.1 | Cf      CCTATAACACTATGT
TCCTTATAGAAA---CTTGAAGGGTATTGGTAGG 5638
gi | 194719394 | ref | NC_007316.3 | N      CCTG-GAATATGAGT
TCCTTGTAGAAAGTATCTGGGAGGGTATTTGTTGG 6680
gi | 149361523 | ref | NC_000074.5 | _      --TTGTGAGCTTGCT
CACACCAAGAATGGCCATGTTTCACACGTGTGTGTC 5456

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gi   51473102   ref   NT_010498.15   _	GGGGAGGCACATGTT
GCAGTGAGCCAAGATCATGTCCCTGCACTTCAGCC	6988
gi   114795057   ref   NC_006483.2   N	GGGGAGGCAGATGTT
GCAGTGAGCCAAGATCATGCCCCTGCACTTCAGCC	8391
gi   73957561   ref   NW_876316.1   Cf	TAGGG-----
ACTGTGGGCCATAATGGG-----	5661
gi   194719394   ref   NC_007316.3   N	GGGAGG-----GGCT
TCTGTGGGCCGTGGTGGG-----	6708
gi   149361523   ref   NC_000074.5   _	GAATGG-----
--GATGTCACTATCTAGG-----	5478

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gi   51473102   ref   NT_010498.15   _	TGGGTGACAGAGCAA
GACTCTGTCTCAAAAAAAAAAAAAAAAAAAGA-----	7032
gi   114795057   ref   NC_006483.2   N	TGGGTGACAGAGCAA
GACTCTGTCTCAAAAAAAAAAAAAAAAAAAGAAAGA	8441
gi   73957561   ref   NW_876316.1   Cf	-----
-----	
gi   194719394   ref   NC_007316.3   N	-----
-----	
gi   149361523   ref   NC_000074.5   _	-----
-----	

gi   51473102   ref   NT_010498.15   _	----AAGAAAGAAAA
ATGTCAAACATACAGAAAAACAGAAGGACTAGACA	7078
gi   114795057   ref   NC_006483.2   N	AAGAAAGAAAGAAAA
ATGTCAAACATACAGAAAAACAGAAGGACTAGACA	8491
gi   73957561   ref   NW_876316.1   Cf	-----AAAATAC
AT-----	5670
gi   194719394   ref   NC_007316.3   N	-----GGGATAG
GT-----	6717
gi   149361523   ref   NC_000074.5   _	-----AGCTTG
CT-----	5486

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gi   51473102   ref   NT_010498.15   _	GCTGTCTGCTCACCC
ACGTGGATTCCACGATTCTTTTGCCATCTTTGCC	7128
gi   114795057   ref   NC_006483.2   N	GCTGTCTGCTCACCC

ACGTGGATTCCACGATTCTTTTGCCATCTTTGCC 8541  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AATCTTCTGTTGAGGTTATAGACA 5694  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AACCTTCG-TGGAGGTCTCAATCA 6740  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGTTTAAAGTGATCAGTCTCA 5507

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCATGATGTATCAT  
TCAGTGGAAACAGGTGGTCGTAATTTCTTTTGGAA 7178  
gi | 114795057 | ref | NC\_006483.2 | N CTCATGATGTACCAT  
TCAGTGGAAACAGGTGGTCGTAATTTCTTTTGGAA 8591  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCTTG-----  
----- 5700  
gi | 194719394 | ref | NC\_007316.3 | N CTCTTTTT-----  
----- 6748  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCCTGTG-----  
----- 5515  
\* \*

gi | 51473102 | ref | NT\_010498.15 | \_ AAAAACATACTTTTA  
CAATGTGCAGAGAATACAATCTGGAGAAAGATCAT 7228  
gi | 114795057 | ref | NC\_006483.2 | N AAAAACATACTTTTA  
CAATGTGCAGAGAATACAATCTGGAAAAAGATCAT 8641  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ TTTGAGCAGTATTTT  
TATCTTGGGATGACAAATTTTCTTCTTTGTAATCT 7278  
gi | 114795057 | ref | NC\_006483.2 | N TTTGAGCAGTATTTT  
TATCTTGGGATGACAAATTTTCTTCTTTGTAATCT 8691  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTTTTTAAATTAAACTT 6765  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ TGTGCATTTTCCAAA  
TTTCCAGCCACAAATATGGTTTAATTTTGTAGACA 7328  
gi | 114795057 | ref | NC\_006483.2 | N TGTGCATTTTCCAAA  
TTTCCAGCCACAAATATGGTTTAATTTTGTAGCCA 8741  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----AAGCCG----- 5706  
gi | 194719394 | ref | NC\_007316.3 | N TTTATTTTGTATTGG  
GGTACAGCCGGTTAACAG----- 6798  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---ACACCTG----- 5522

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAAAAAGGAGATG  
TGAAAAATAAAGAGGAAGTCTGAACAAAAGAAGGG 7378  
gi | 114795057 | ref | NC\_006483.2 | N GAAAAAAGGAGATG  
TGAAAAATAAAGAGGAAGTCTGAACAAAAGAAGGG 8791  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TG  
TTACAA----- 5714  
gi | 194719394 | ref | NC\_007316.3 | N -----TGTTGTGATG  
TTACAGGTGAACAGCAA----- 6825  
gi | 149361523 | ref | NC\_000074.5 | \_ -----G  
CGGCAAG----- 5530

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGAGAAAGGATTGT  
GGGTTTTTAGGTCTGTGTTGCCTTTCTGGGCTCGG 7428  
gi | 114795057 | ref | NC\_006483.2 | N GAGAGAAAGGATTGT  
GGGTTTTTAGGTCTGTGTTGCCTTTCTGGGCTCG- 8840  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----



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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGGGTAGCTGGGT 7478  
GGGTGTAGCTGGGTGGGAGTGGTACTGTAAACAGC

gi | 114795057 | ref | NC\_006483.2 | N -----GT 8877  
GGGCATAGCTGGGTGGGAGTGGTACTGTAAACAGC

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATTATTAGGCAAGAA 7528  
TCCAGATCCCCAGGGGTGGCGGTGTATGAGCGGTG

gi | 114795057 | ref | NC\_006483.2 | N ATTATTAGGCAAGAA 8927  
TCCAGATCCCCAGGGGTGGCGGTGTATGAGCGGTG

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGCCCAGAGCTTT 7578  
GGGCGCCAGTGGGAGAAAGAGGTGGATGGGACAGG

gi | 114795057 | ref | NC\_006483.2 | N CCAGCCCAGAGCTTT 8977  
GGGCGCCAGTGGGAGAAAGAGGTGGATGGGACAGG

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCTGTACGTGACC  
ATTTGGGGGCTCCTGCGACCCCTTGCGGCTTCCCA 7628  
gi | 114795057 | ref | NC\_006483.2 | N GGTCTGTACGTGACC  
ATATGGGGGCTCCTGCAACCTCTTGGGGCTTCCCA 9027  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
----AGGAACTCCGCTGTACATATGGGGCTTCCCT 6856  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ ACACAGAGATAAGTA  
GTTTGGGTCAGCACATTTGAAACTTCCACAGGGGA 7678  
gi | 114795057 | ref | NC\_006483.2 | N ACACGGAGATAAGTA  
GTTTGGGTCAGCACATTCGAGACTTCCACAGGGGA 9077  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GGTGG-----  
----- 6861  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ GTTTGGGAATGACCAA  
GGGCAGGGAGGAAAGGTCTCTGGTTCAAGGAAGGC 7728  
gi | 114795057 | ref | NC\_006483.2 | N GTTTGGGAATGACCAA  
GGGCAGGGAGGAAAGGTCTCTGGTTCAAGGAAGGC 9127  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ AGGTGAGGCGATGAG  
GTTGCCATGAGGGCAGGACTGGCTACAGAATTCGT 7778

gi | 114795057 | ref | NC\_006483.2 | N AGGTGAGGCGATGAG  
GTTGCCATGAGGGCAGGACTGGCTACAGAATTCGT 9177  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGCAGACTGCCAA  
TAGCAGGAAGACACTTGCTTCTGTCTTCTGTGATC 7828  
gi | 114795057 | ref | NC\_006483.2 | N GGGGCAGACTGCCAA  
TAGCAGGAAGACACTTGCTTCTGTCTTCTATGATC 9227  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACTTTACCCTCTG----- 5727  
gi | 194719394 | ref | NC\_007316.3 | N -----  
---CTCAGAGGCTAAAGCATCTG----- 6881  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGACTGTGACCAATCG----- 5547

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCCCTCGAGTGTC  
CTGGTGAGTTCCACTTGATATAGATTATTGGTCTC 7878  
gi | 114795057 | ref | NC\_006483.2 | N TCTCCCTTGAATGTC  
CTGGTGAGTTCCACTTGTTATAGATTATTGGTCTC 9277  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACCACACAAGGGAT  
TACTACTGGGTGAGTGTAGACCAAGTGTGTTCAAC 7928  
gi | 114795057 | ref | NC\_006483.2 | N CACCACACAAGGGAT  
TACTACTGGGTGAGTGTAGACCAAGTGTGTTCAAC 9327  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----C 5728  
gi | 194719394 | ref | NC\_007316.3 | N  
-----C 6882  
gi | 149361523 | ref | NC\_000074.5 | \_  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCAGCCCAAGATA  
GCTTTGAATGCAGCCCAACACAAATTTGTCAACTT 7978  
gi | 114795057 | ref | NC\_006483.2 | N CTGCAGCCCAAGATA  
GCTTTGAATGCAGCCCAACACAAATTTGTCAACTT 9377  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTAAGT-----  
----- 5735  
gi | 194719394 | ref | NC\_007316.3 | N CTGCAATGCAGGAGA  
CCTGGGTTTGAT----- 6909  
gi | 149361523 | ref | NC\_000074.5 | \_ CTACAGAACTGG---  
----- 5559  
\* . \* .

gi | 51473102 | ref | NT\_010498.15 | \_ TCTTAACACATTATG  
AGATTTTTTTTGGCAATTTTTTTTTTTTTTTT---- 8024  
gi | 114795057 | ref | NC\_006483.2 | N TCTTAACACATTATG  
AGATTTTTTTTGGCAATTTTTTTTTTTTTTTTTTTT 9427  
gi | 73957561 | ref | NW\_876316.1 | Cf  
-----  
gi | 194719394 | ref | NC\_007316.3 | N  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_  
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gi | 51473102 | ref | NT\_010498.15 | \_ -AGCTCATCAGCTAT  
CATTGGTATTAGTGTATTTTATGTGTGGCCCAAGA 8073  
gi | 114795057 | ref | NC\_006483.2 | N TAGCTCATCAGCTGT  
CATTGGTATTAGTGTATTTTATGTGTGGCCCAAGA 9477  
gi | 73957561 | ref | NW\_876316.1 | Cf  
-----  
gi | 194719394 | ref | NC\_007316.3 | N  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAATTCTTCTTCCAA  
TGTGGCCCAGGGAAGCCAAAAGATTGGACACCCCT 8123  
gi | 114795057 | ref | NC\_006483.2 | N CAATTCTTCTTCCGA  
TGTGGCCCAGGGAAGCCAAAAGATTGGACACCCCT 9527  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCTGG----- 5741  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCTGG----- 6915  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTGG----- 5564

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGTAGACCCTGCC  
AGGTATCCCCCATCGGGGAGGACAGTCATGGCCGC 8173  
gi | 114795057 | ref | NC\_006483.2 | N TGTGTAGACCCTGCC  
AGGTATCCCCCATCGGGGAGGGCAGTCATGGCCGC 9577  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GTA  
G----- 5745  
gi | 194719394 | ref | NC\_007316.3 | N -----ATC  
AGGAAGATCCCCTGGAGAAGGAAATGGCAACCCAC 6953  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGTGGAGGAGGGG  
AGATGCCAAGCCCCGGGCACACATCATCCCATGGG 8223  
gi | 114795057 | ref | NC\_006483.2 | N TGGGTGGAGGAGGGG  
AGATGCCAAGCCCCGGGCATACATCGTCCCGTGGG 9627  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CATATGG- 5752  
gi | 194719394 | ref | NC\_007316.3 | N T-----  
-----CCAGTACTCTTGCCTGGAAAATCCCATGG- 6983  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCACTTG- 5571

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gi | 51473102 | ref | NT_010498.15 | _      GCTAAATTTCCACAT
ACACATTCAGATCCAATGATTACGCATTCCAAGAT 8273
gi | 114795057 | ref | NC_006483.2 | N      GCTAAATTTCCACAT
ACACATTCAGATCCAATGATTACACATTCCAAGAT 9677
gi | 73957561 | ref | NW_876316.1 | Cf     -----
-----ACAGA--- 5757
gi | 194719394 | ref | NC_007316.3 | N      -----
-----ACAGAGAA 6991
gi | 149361523 | ref | NC_000074.5 | _     -----
-----CAGATAA 5578
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gi | 51473102 | ref | NT_010498.15 | _      GGCAGCTGTGGAGCA
TGAAGCCTCAAGGCCAACACCTGTCCTGCACGGGG 8323
gi | 114795057 | ref | NC_006483.2 | N      GGCAGCTGTGGAGCA
TGAAGCCTCAAGGCCAACACCTGTCCTGCACGGGG 9727
gi | 73957561 | ref | NW_876316.1 | Cf     -----
-----
gi | 194719394 | ref | NC_007316.3 | N      GCCTGCCATACA---
----- 7003
gi | 149361523 | ref | NC_000074.5 | _     GG-----
----- 5580
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gi | 51473102 | ref | NT_010498.15 | _      ATCTCTGTGCAATTG
CACTGGCCTCATGCCAGTGAGGCTGGCCCTGCTGA 8373
gi | 114795057 | ref | NC_006483.2 | N      ATCTCTGTGCAATTG
CACTGGCCTCATGCCCATGAGGCTGGCCCTGCTGA 9777
gi | 73957561 | ref | NW_876316.1 | Cf     -----
-----
gi | 194719394 | ref | NC_007316.3 | N      -----
-----
gi | 149361523 | ref | NC_000074.5 | _     -----
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gi | 51473102 | ref | NT_010498.15 | _      AGGGTTCTTGTCGGA
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GAGGAAACATCCAATCGATACCTCCCCTGTGGACT 8423  
gi | 114795057 | ref | NC\_006483.2 | N AGGGTTCTTGTCGGA  
GAGGAAACATCCAATTGATACCTCCCCTGTGGACT 9827  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCAGTGATTCTTCT  
GAATTGTCATGGGGTTAATCTGGATCTGTGGACGC 8473  
gi | 114795057 | ref | NC\_006483.2 | N GTCAGCGATTCTTCT  
GAATTGTCGTGGGGTTAATCTGGATCTGTGGACGC 9877  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TA 7005  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ TTCAGAGGCTAATAA  
TCCCAGTACCTCTGGTCTCTAAGGCATCTCACATG 8523  
gi | 114795057 | ref | NC\_006483.2 | N TTCAGAGGCTAATAA  
TCCCACCACCTCTGGTCTCTAAGGCATCTCACATG 9927  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N TACATGTATCCATTT  
TCCCCAAACTCCCCTCTCTCC----- 7042  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ ATGGTGATAAGAACA  
TGGGAAATTTAGTAGTGGAAGTCGTGTGCTAAGAC 8573  
gi | 114795057 | ref | NC\_006483.2 | N ATGGTGATAAGAACA  
TGGGAAATTTAGTAGTGGAAGTCATGTGCTAAGAC 9977

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGTGAGTAG----  
-----TGGAAGCC 8592  
gi | 114795057 | ref | NC\_006483.2 | N TGAGTGAGTAGTTG  
AAGCCATGTGGTAAGTCTCAGCGAGTAGTGGAAGCC 10027  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CA 7044  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTGCTAAGTCTCA  
GCGAGTAGTGGAAGCCGTGTGCTAAGTCTTAGTAG 8642  
gi | 114795057 | ref | NC\_006483.2 | N GTGTGCTAAGTCTC  
AGCGAGTAGTGGAAGCCGTGTGCTAAGTCTTAGTAG 10077  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GGCTGCCACATAACA  
CTGAGCAGAGTTC----- 7072  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAAGCCGTGTGCT  
AAGTCTTAGTAGTGGAAGTTGTGTGCTAAGTCCTA 8692  
gi | 114795057 | ref | NC\_006483.2 | N TGGAAGCTGTGTGC  
TAAGTCTTAGTAGTGGAAGTTGTGTGCTAAGTCCTA 10127  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTAGTAGTG-----  
----- 8701

gi | 114795057 | ref | NC\_006483.2 | N GTAGTAGTGGAAGT  
CATGTGCTAAGTCTCAGTGAGTAGTGGAAGCTGTGT 10177

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GCTAAGTCTTAGTG  
GTGGAAGTTGTGTGCTAAGTCCTAGTAGTAGTGGA 10227

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GCCATGTGCTAAGT  
CTCAGCGAGTAGTGGAAGCCGTGTGCTAAGTCTTAG 10277

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TGGTGG AAGTTGTG  
TGCTAAGTCCTAGTAGTAGTGG AAGCCATGTGCTAA 10327  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GTCTCAGTGAGTAG  
TGGAAGCCGTGTGCTAAGTCTCAGCGAGTAGTGGA 10377  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GCCGTGTGCTAAGT  
CTCAGCGAGTAGTGG AAGCCATGTGCTAAGTCTCAG 10427  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CGAGTAGTGGAAGC  
CGTGTGCTAAGTCTTAGTGGTGGAAAGTTGTGTGCTA 10477  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGTCCTAGTAGTAG  
TGGAAGCCATGTGCTAAGTCTCAGCGAGTAGTGGA 10527  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GCCATGCGCTAAGT  
CTTAGTGGTGGAAAGTTGTGTGCTAAGTCCTAGTAGT 10577  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGTGGAAGCCATGT

GCTAAGTCTCAGCGAGTAGTGGAAGCCGTGTGCTAA 10627  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GTCTTAGTGGTGA  
AGTTGTGTGCTAAGTCCTCGTAGTAGTGGAAGCCAT 10677  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GTGCTAAGTCTCAG  
TGAGTAGTGGAAGCCGTGTGCTAAGTCTCAGCGAGT 10727  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGTGGAAGCCGTGT  
GCTAAGTCTCAGCGAGTAGTGGAAGCCATGTGCTAA 10777  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GTCTCAGTGAGTAG  
TGGAAGCCATGTGCTAAGTCTTAGTAGTGGAAGCCG 10827  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----G 8702  
gi | 114795057 | ref | NC\_006483.2 | N TGTGCTAAGTCTTA  
GTAGTGGAAGTTGTGTGCTAAGTCCAGTAGTAGTGG 10877  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ AAGTCATGTGCTAAG  
TCTTAGCAAGTAGTGGAATCATATGGTAAGCGGG 8752  
gi | 114795057 | ref | NC\_006483.2 | N AAGTCATGTGCTAA  
GTCTTAGCAAGTAGTGGAATCATATGGTAAGCGGG 10927  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N ----CGTGTGCTATA  
GAGTAGGTCCTTGTTGATTACCCATTTTGAATATA 7118  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTGGTGGGAGCTT  
TCAATCCAATCACCTGTCTTCCCTCTCCCTGCCTG 8802  
gi | 114795057 | ref | NC\_006483.2 | N AGCTGGTGGGAGCT  
TTCAATCCAATCACCTGTCTTCCCTCTCCCTGCCTG 10977

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N ACAGTGTGTATATGT  
CCATCCCAAACCTCCC----TCACTGTCCCTTCCC- 7163  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGGTGGAGTGGGC  
CGGACAGGCATCTTTGTTGTCAATGAATATGAATC 8852  
gi | 114795057 | ref | NC\_006483.2 | N GAAGGTGGAGTGGG  
CCGGACAGACATCTTTGTTGTCAATGAATGTGAATC 11027

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAAAGGTGTCCAGC  
CAGCTGCCCTTGCTGGAGACTCCACTTCCTCACAG 8902  
gi | 114795057 | ref | NC\_006483.2 | N CCAAAGGTGTCCAG  
CCAGCTGCCCTTGCTGGAGACTCCACTTCCTCACAG 11077

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----CCATA  
CATCTCCCCTGGCAACTGTAAGTTCACCCTCAAAG 7203  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT_010498.15 | _          CTCATTTATTGTCTC
AGTTCTGGAGGCCAGAACTCCAAGAGCAAAGTGCC 8952
gi | 114795057 | ref | NC_006483.2 | N          CTCATTCATTGTCT
CAGTTCTGGAGGCCAGAACTCCAAGAGCAAGGTGCC 11127
gi | 73957561 | ref | NW_876316.1 | Cf          -----
-----
gi | 194719394 | ref | NC_007316.3 | N          TACAGACACTCTTAA
AACCGTGTGTTGTCAGCCCTACCTGTGTGCC---CC 7250
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          AGCAGGGTTGGTTCC
TCCGGAGGCCTCTCTGCTTGGTTTGCACATGGCTG 9002
gi | 114795057 | ref | NC_006483.2 | N          AGCAGAGTTGGTTC
CTCCGGAGGCCTCTCTGCTTGGTTTGCACATGGCTG 11177
gi | 73957561 | ref | NW_876316.1 | Cf          -----
--CTGTGTTCTTCTAGCTCC-----ATCA 5779
gi | 194719394 | ref | NC_007316.3 | N          AAAGCCCTGGAGATG
ACCTGTGTCCTTCCGGCTGG-----GCCG 7289
gi | 149361523 | ref | NC_000074.5 | _          -----A
ACATCTGGATTACAGGATGATG-----TT 5605

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gi | 51473102 | ref | NT_010498.15 | _          CCTTCCCTGTGTCTT
CATACGGTTGTCCTCTGTGCATGGCTGTGTCCTAA 9052
gi | 114795057 | ref | NC_006483.2 | N          CCTTCCCCGTGTCT
TCATACGGTTGTCCTCTGTGCATGTCTGTGTCCTAA 11227
gi | 73957561 | ref | NW_876316.1 | Cf          TCTTCCCACTG----
----- 5790
gi | 194719394 | ref | NC_007316.3 | N          TCTTCACTGTG----
----- 7300
gi | 149361523 | ref | NC_000074.5 | _          GCTTCACTTAG----
----- 5616
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gi | 51473102 | ref | NT_010498.15 | _          TCTCCTCCTTTTACT
TGGACACCAGTCGTATTGGATTAAGCCCCACCAA 9102

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gi | 114795057 | ref | NC\_006483.2 | N TCTCCTCCTTTTAC  
TTGGACACCAGTCGTATTGGATTAAGGCCCCACCAA 11277  
gi | 73957561 | ref | NW\_876316.1 | Cf --ATCTTCCCATTGG  
TAGGGAACAGAG-----CCCAGCAA 5823  
gi | 194719394 | ref | NC\_007316.3 | N --ACCTTCTTGTGGG  
TGGGTAGCGGAG-----CCCAGCAG 7333  
gi | 149361523 | ref | NC\_000074.5 | \_ ----TTCTGTTGTA  
TATAATAACTCG-----CTCCGGGGC 5647

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gi | 51473102 | ref | NT\_010498.15 | \_ TGACATCATTTAGCT  
GTAATGACCTCTTTAAAGGCCCCAGCTTTAAATAT 9152  
gi | 114795057 | ref | NC\_006483.2 | N TGACATCATTTAGC  
TGTAATGACCTCTTTAAAGGCCCCATCTCTAAATAT 11327  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCATGTGTTT GCC-  
----- 5837  
gi | 194719394 | ref | NC\_007316.3 | N AGCATGTGTCTGACG  
----- 7348  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCCTGGTGGTGGCA  
G----- 5663

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTCACTTTCTGAGG  
ATATGGGGTGTGGGGTTTAGGGCTTTAGCCTGGGA 9202  
gi | 114795057 | ref | NC\_006483.2 | N AGTCACTTTCTGAG  
GATATGGGGTGTGGGGTTTAGGGCTTCAGCCTGGGA 11377  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAGCCTG--- 5844  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CAACTTG--- 7355  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GCAAG--- 5668

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGTGGGGGGGTTG  
GACAACTCAGTCCAACACCATGTTCTGTGTAGAAA 9252  
gi | 114795057 | ref | NC\_006483.2 | N ATGGTGGGGGGGTT  
GGACAACTCAGTCCAACACCATGTTCTGTGTAGAAA 11427  
gi | 73957561 | ref | NW\_876316.1 | Cf -----



--TAACTCAAGTACACAGTTGG----- 5864  
gi | 194719394 | ref | NC\_007316.3 | N -----  
--AAACTCAAGTATTTACCAAG----- 7375  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
--GAGCTGTGAACAAAGACAGG----- 5688

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGACTTGAAAGGTA  
TTTTTTTTCTTTGAGGAGCTGTGGGCCACCAGGAGA 9302  
gi | 114795057 | ref | NC\_006483.2 | N TTGACTTGAAAGGT  
ATTTTTTTCTTTGAGGAGCTGTAGGCCACCAGGAGA 11477  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GA 5866  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GA 7377  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATTCA 5693

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATTTGTAATTGTG  
TCTTGAGGCTGCAGCCCCTCTGGAAATGTTTATCA 9352  
gi | 114795057 | ref | NC\_006483.2 | N AAATGTGTAATTGT  
GTCTTGAGGCTGCAGTCCCTCTGGAAATGTTTATCA 11527  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAGTGCTCAGGAT  
TCATGATTTTCAGAGTCCCTGGGGGAAAGGA----- 5911  
gi | 194719394 | ref | NC\_007316.3 | N AGATGTGCTCCAAAC  
TCATGATTCTGGAGTCCCTGGGG-TGAGAG----- 7421  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCAGGCACCTGCC  
TGTGGCTGGCTGCCTCTTTCTGCCCTCTA----- 5738

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCTGCCGTCTGCC  
CCAAGTCCTCAGGAGAAGCGGGCATGGTGCCCCAC 9402  
gi | 114795057 | ref | NC\_006483.2 | N CCTCTGCCGTCTGC  
CCAAGTCCTCAGGAGATGCAGGCATGGTGCCCCAC 11577  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGAC  
TTAAAACCTCTAGA-ACAAAGCCAGG----CACTC 5945  
gi | 194719394 | ref | NC\_007316.3 | N -----CAAC  
TTGAAACCTCTGGA-ATGAAGTCAAG----CCCTA 7455

gi | 149361523 | ref | NC\_000074.5 | \_ -----ACC  
TCTGTAGCTTACACAGCTGAGATCTGTGGTGTCTA 5776

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCTGGGCCATATT  
CCTATGACCTTCCCTAAGACCTCCCTGTGGCCTAT 9452

gi | 114795057 | ref | NC\_006483.2 | N TAGCTGGGCCATAT  
TCCTATGACCTTCCCTAAGACCTCCCTGTGGCCTAT 11627

gi | 73957561 | ref | NW\_876316.1 | Cf CATATAATCATTCTT  
TATGTTTCAAACCATTA AAAAC----- 5981

gi | 194719394 | ref | NC\_007316.3 | N CCCATAATTATTCTT  
TATAGTTCAAACCATTGAACC----- 7491

gi | 149361523 | ref | NC\_000074.5 | \_ CATTCTCTTGTGTGT  
TGAGAATCTTGTCTACTAGTGCT----- 5813

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAGAGAAGAGAGC  
TCAGCAGAGGATGTGTTGTTTGGCCCACCTTGAAA 9502

gi | 114795057 | ref | NC\_006483.2 | N TGGAGAGAAGAGAG  
CTCAGCAGAGGATGTGTTGTTTGGCCCACCTTGAAA 11677

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAAA 5985

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CAGA 7495

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCA 5817

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCAAGTGCAAACAG  
AGACAGGGAAGAGAGGGGCCCAAGATCTGCGATTC 9552

gi | 114795057 | ref | NC\_006483.2 | N CTCAAGTGCAAACA  
GAGACAGGGAAGAGAGGGGCCCAAGATCTGCAATTC 11727

gi | 73957561 | ref | NW\_876316.1 | Cf CCACCATGTTAATTA  
GATCTGG-----TTATTTCA 6015

gi | 194719394 | ref | NC\_007316.3 | N CTGCCGTGCTAACTG  
GGCCTGG-----TAGGTTTA 7525

gi | 149361523 | ref | NC\_000074.5 | \_ GGTCTGTGCTAAGAG  
ACTTAATTTAG-----TAAATTCT 5851

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gi | 51473102 | ref | NT_010498.15 | _ CAGAGACCCAGAGGG
AAGAGATGACAGGCAGGCACTGCACCTCACTTTCC 9602
gi | 114795057 | ref | NC_006483.2 | N CAGAGACCCAGGGG
GAAGAGATGACAGGCAGGCACTGCCCTCACTTTCC 11777
gi | 73957561 | ref | NW_876316.1 | Cf CAG-----
----- 6018
gi | 194719394 | ref | NC_007316.3 | N CAG-----
----- 7528
gi | 149361523 | ref | NC_000074.5 | _ CAG-----
----- 5854
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gi | 51473102 | ref | NT_010498.15 | _ TAAGCCAAACCAAGG
ACGCCAACTCCCAGGCTAACTAGAACTGCTTATTT 9652
gi | 114795057 | ref | NC_006483.2 | N TAAGCCAAACCAAG
GACGCCGACTCCCAGGCTAACTAGAACTGCTTATTT 11827
gi | 73957561 | ref | NW_876316.1 | Cf -----
---CTCAC-CCCAGGATTAT----- 6034
gi | 194719394 | ref | NC_007316.3 | N -----
---CTAACACCCAGGATCAC----- 7545
gi | 149361523 | ref | NC_000074.5 | _ -----
-----GCAGCCTGAAGGTCCTGG----- 5872

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gi | 51473102 | ref | NT_010498.15 | _ CACCCCATGCACTT
CTCAGGACGCTCCCTGTCTTTGCCTCTCCAGCTGG 9702
gi | 114795057 | ref | NC_006483.2 | N CACCCCATGCACT
TCTCAGGACGCTCCCTGTCTTTGCCTCTCCAGCTGG 11877
gi | 73957561 | ref | NW_876316.1 | Cf ----ACCATATACTC
CTCAG-GCACTTCTTATCTTCGCCTCTCCAGCAAG 6079
gi | 194719394 | ref | NC_007316.3 | N ----CCCAGGTACAT
CTCAG-AATCCTTTGGTCTGTGCCTCTCCAGTGAG 7590
gi | 149361523 | ref | NC_000074.5 | _ ----AGAATGTATGA
CCATGACACCATGGTGTCTGTTTAGTCCTAACGCC 5918

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCGAATCTGGGGGC

TCTG---GGCGTAGGGGAAGGAGTGTTGGTCTGAG 9749  
gi | 114795057 | ref | NC\_006483.2 | N ACCGAATCTGGGGG  
CTCTG---GGTGTAGGGGAAGGAGTGTTGGCCTGAG 11924  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTGAACATGGGGTT  
CCTTGTGGAAAGGGGGGAAAGAATATCGACCCAGG 6129  
gi | 194719394 | ref | NC\_007316.3 | N ACTGAGTCTGGTGA  
ACTTGTGGGTTCGGGGG-AAAGAGTATTGGCCTGAA 7639  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAAACCTTG-----  
TCCTGAAAGGTAAAGAAACCTAGAGTAATCGCTGA 5963  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCCACTCTTAACC  
AGGAGCCATTGGTGTAGGGCAGACAGGGCCCTCC 9799  
gi | 114795057 | ref | NC\_006483.2 | N TGGCCACTCTTAAC  
CAGGAGCCATTGGTGTAGGGCAGACAGGGCCCATCC 11974  
gi | 73957561 | ref | NW\_876316.1 | Cf AGACCAGTCCCAACC  
AGGAGATCTTGGTTAGGG---CTTAGACTGGGACC 6176  
gi | 194719394 | ref | NC\_007316.3 | N AGACCGCACCTAACC  
AGGAGATCTTGGTTTAGG---CAGGGGTCAGGGCC 7686  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCCAGGATCGACAC  
AGCTGAAGTG---TTTGG-----TGTGTGTCTATGC 6006  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCGCCGGCCACATG  
GATTTAGGCAGGTGTAATCTCTCCACATTCATGTG 9849  
gi | 114795057 | ref | NC\_006483.2 | N GTCGCCGGCCACAT  
GGATTTAGGCAGGTGTAATCTCTCCACATTCATGTG 12024  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAGCTGAGACTT-  
---CCAGCCTGGGGTCTGTTATTTATGGAAATGAG 6222  
gi | 194719394 | ref | NC\_007316.3 | N AGGACCCAGAGCCG  
GAACCCACCCTGGGTTCCATTCCCCTGGCTGTGTG 7736  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGCCGGGGATGGG  
-ACTAGAGCTGGGATTTGGGTTTCCCAAGTATGAG 6055  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTGGTGTGAAAGT  
GGAGGTGTTGGGTGCAAGAATGGAGGGCAGCATTG 9899  
gi | 114795057 | ref | NC\_006483.2 | N TCCTGGTGTGAAAG  
TGGAGGTGCTGGGTGCAAGAATGGAGGGCAGCGTTG 12074

gi | 73957561 | ref | NW\_876316.1 | Cf AAGT--TAAGCATAT  
TTACTTAATCTCTCCACTTTCAAATGTCCTTGCCCT 6270  
gi | 194719394 | ref | NC\_007316.3 | N AGTT--TGGGCACAT  
TCTCT--GTCTCTGCACATCTGAATGTCTGTCTCT 7782  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAGCACAAGGCTAT  
CTACCAAATGGATAGGTAGATCCTTAATAACTCCT 6105  
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gi | 51473102 | ref | NT\_010498.15 | \_ GATTCCCCTTCTGAC  
TGCTAGATTCCCTCCT-----CTCCCTGGCCTTTTTTG 9944  
gi | 114795057 | ref | NC\_006483.2 | N GATTCCCCTTCTGA  
CTACTAGGTTCCCTCCT-----CCCCCTGGCCTTTTTTG 12119  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAAGTGG-----AG  
ACATTCGTTGTG-----AGAAATCAATGAT 6304  
gi | 194719394 | ref | NC\_007316.3 | N GAAAGCGGGTGTGTG  
CCCTTAGTGGTTTCGAGGTTCCCTCGTGGCTCTTTG 7832  
gi | 149361523 | ref | NC\_000074.5 | \_ TAATAAGTCAGCTAC  
TCCCATCAGGCTAGG-----AACTTACCTGTCT 6148  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAAGCTGTGTTGG  
GTAACAGATCTAAGCATTCCACAAAGTTCCCCTCA 9994  
gi | 114795057 | ref | NC\_006483.2 | N TGGAAGCTGTGTTG  
GGTAACGGATCTAAGCATTCCACAAAGTTCCCCTCA 12169  
gi | 73957561 | ref | NW\_876316.1 | Cf ATAGTGTTGGATTCC  
CTTTCTCATCTAGGTGCCTCATCAGTG--CCTTTC 6352  
gi | 194719394 | ref | NC\_007316.3 | N TGAAGATTAGATCAG  
GTGACGTGTGTAGGTGCTGACGCAAGTGTGCTTTC 7882  
gi | 149361523 | ref | NC\_000074.5 | \_ CATGCTCAAAGCAGT  
CTGGCTTATAAAGGAAGAACCTCAATGTTGGA ACT 6198  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTACGCCTCCCTCA  
GTGAATGTTAGTAATCAAAAAAGAGTAAGTGAGGGA 10044  
gi | 114795057 | ref | NC\_006483.2 | N CTACGCCTCCCTCA  
TTGAATGTTAGTAATCAAAAAAGAGTCAGTGAGGGA 12219  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTAGCTTTCTATG--  
-----AAGCTGATTAGATTAGGTAA 6386  
gi | 194719394 | ref | NC\_007316.3 | N CCTGGGTGAATATAG

TCATAAGACAAGAATAAACGAGAGAATGTGAGGAA 7932  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCCTCCTGCCCTGC  
TG-----ATGACCAGTTGAAATGAGAGC 6236

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTGTTTAAAACT  
CTCTGCACAATGCCTTGTTTACAAGATGATCTTG-- 10092  
gi | 114795057 | ref | NC\_006483.2 | N AGGTGTTTAAACCT  
CTCTGCACAATGCCTTGTTTACAAGATGATCTTG-- 12267  
gi | 73957561 | ref | NW\_876316.1 | Cf TG-----C  
TCAGCACACTTCTTTGCTCATGAATATGCCTT--- 6421  
gi | 194719394 | ref | NC\_007316.3 | N AA-----C  
TCGGCATGATGCCTAGCTCAAACAGCGGCGATGGT 7970  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
-GCAGAAAGTGCATCTGGAAACCTCCTAACTGG-- 6270

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gi | 51473102 | ref | NT\_010498.15 | \_ -TTTTTCAGAATCA  
AGCCCTGTCTTGCTTTGACCTTGGGTCATGTGCTAG 10141  
gi | 114795057 | ref | NC\_006483.2 | N -TTTTTAAGAATCC  
AGCCCTGTCTTGCTTTGGCCTTGGGTCATGTGCTAG 12316  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCTTTGGTGAATGTGGTCATTTAAAAA 6448  
gi | 194719394 | ref | NC\_007316.3 | N TTTTATTAGGAATCA  
TCCCTGTCCCGTTGCTCTCTGAGCTCAGGTTCGAGT 8020  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GACACACTGGGCCTTAGCCAG 6291

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gi | 51473102 | ref | NT\_010498.15 | \_ GCGCTGTGTCCATA  
GAAAGCGCTCAGTGGTGGGGGCAGGGCCGACTACGT 10191  
gi | 114795057 | ref | NC\_006483.2 | N GC-CTGTGTCCATA  
GAAAGCGCTCAGTGGTGGGGGCAGGGACCGACTACGT 12365  
gi | 73957561 | ref | NW\_876316.1 | Cf G----GATAAATGAG  
AAT-----TGTTTAAAACATTTTTTGC 6480  
gi | 194719394 | ref | NC\_007316.3 | N GTGCAGCGAGATGCT  
CAG-----GAGCCAGACTGGCTACAT 8056  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----GACCCTGG  
CTG-----AGTGAAGAGCTAGCTAGG 6321

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gi | 51473102 | ref | NT_010498.15 | _      GATTGTCAGGCTCA
CTGCAAAACGGCCCCCTCCTTGAAAAATGACTAAGA 10241
gi | 114795057 | ref | NC_006483.2 | N      GATTGTCAGGCTCA
CTGCAAAACGGCCCCCTCCTTGAAAAATGACTAAGA 12415
gi | 73957561 | ref | NW_876316.1 | Cf     ATATGCCTAGTCCAA
AAAGTG---ATCATTTTTTTTAAAAGATTTTTTAATT 6527
gi | 194719394 | ref | NC_007316.3 | N      AAATTGCAAGATGAA
AATGTGGG-GCCCCTTCTTGAAAAATGGTTTAAGA 8105
gi | 149361523 | ref | NC_000074.5 | _      GCTTTGCAGGAGCTG
GGAGAGG-----TGGCTGTGAGTCTGAGCAGCT 6364

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gi | 51473102 | ref | NT_010498.15 | _      ATCTCAAGAAGGCG
GCAGCAGAGATTGAGCAAAGTGCAGGCTGCCGTGGA 10291
gi | 114795057 | ref | NC_006483.2 | N      ATCTCAAGAAGGCG
GCAGCAGAGATTAAGCAAAGTGCAGGCTGCCGTGGA 12465
gi | 73957561 | ref | NW_876316.1 | Cf     TATTCATGAAAGACA
CAGAGAG----- 6549
gi | 194719394 | ref | NC_007316.3 | N      ATTTTCAGGTCGGTGC
CAGCAGGGCAT-----TGCAGGCAGCA----- 8142
gi | 149361523 | ref | NC_000074.5 | _      CTATCAGGACAGACC
CC----- 6381

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gi | 51473102 | ref | NT_010498.15 | _      CACACGAAGCCATG
AACGTGGAGCCGGGCCTGGTGGGCTCACCGTCG-CG 10340
gi | 114795057 | ref | NC_006483.2 | N      CACACGAAGCCATG
AACGTGGAGCCGGGCCTGGTGGGCTCACCGTCG-CG 12514
gi | 73957561 | ref | NW_876316.1 | Cf     -----
-----AGAGAGGCCAG-----AGACATAAGCAG 6572
gi | 194719394 | ref | NC_007316.3 | N      -----
-----CAGCCGGCCTGGCGGGGCGTCCTTGTGTG 8171
gi | 149361523 | ref | NC_000074.5 | _      -----
-----AGCCTGTACATGAGGAGCCAGTGGGAA 6409

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTCCCTGGCTGG  
AGACACCAGCAAGCTCTTGCTGTTTGGGGTTCTCTT 10390  
gi | 114795057 | ref | NC\_006483.2 | N AGGTCCCTGGCTGG  
AGACACCAGCGAGCTCTTGCTGTTTCGTGGTTCTCTT 12564  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGTCCCCTCACAGG  
GACCCCG-----ATATGTGACTTGGTCCC 6611  
gi | 194719394 | ref | NC\_007316.3 | N AGGTCCGTGGTCGGA  
GATGCCAGACG-TTCTTGCCATTTGCTTTCCTCCT 8220  
gi | 149361523 | ref | NC\_000074.5 | \_ GCGGGAGGGGGGGAC  
AACACAG-----GCTGTCATTCT 6442

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCAGCCTCTACT  
CCAGCCACTCCTCTGGCCCTCACCTACTTTTTTTTTT 10440  
gi | 114795057 | ref | NC\_006483.2 | N TTTCAGCCTCTACT  
CCAGCCACTCCTCTGGCCCTCACCTACTTTTTTTTTT 12614  
gi | 73957561 | ref | NW\_876316.1 | Cf AG---GACTCCAGGA  
TC----- 6625  
gi | 194719394 | ref | NC\_007316.3 | N TTTCAGGCTCCGCAC  
AG----- 8237  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGCATCCCCACTC  
CCACT----- 6462

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gi | 51473102 | ref | NT\_010498.15 | \_ T-CAACTTCTATTT  
TAAGTTTCAGGGTGCAGGGTACACATGCAGGATGTG 10489  
gi | 114795057 | ref | NC\_006483.2 | N TTCAACTTCTATTT  
TAAGTTTCAGGGTGCAGGGTACACATGCAGGATGTG 12664  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGTTTGTTACAT  
AGGTAAACATGTGCCATGGTGATCTACTGCACAGAT 10539  
gi | 114795057 | ref | NC\_006483.2 | N CAGGTTTGTTACAT



AGGTAAACATGTGCCATGGTGATCTACTGCACAGAT 12714  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATCCCATCACCCA  
GGAATTACGCCCAGCATCCATTTCACTCTCTTCCCC 10589  
gi | 114795057 | ref | NC\_006483.2 | N CATCCCATCACCCA  
GGAATTAAGCCCAGCATCCATTTCACTCTCTTCCCC 12764  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACAACCTG 6633  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCTTCTTC 8245  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGTTCCTG 6470

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCTTCCCCTCCT  
TTCCCCTCTCTTCCCCTCCTTTCCCCTCCCCTCTCC 10639  
gi | 114795057 | ref | NC\_006483.2 | N TCCTTTACCCTCTC  
TTCCCCTCCTTTCCCC-----TCCCCTCCCCTCCCC 12809  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCCAAAGCCAGAT-  
----- 6647  
gi | 194719394 | ref | NC\_007316.3 | N TGCCCTTCACATACT  
TCTG----- 8264  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGAGTTGCTTTG-  
----- 6484

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gi | 51473102 | ref | NT\_010498.15 | \_ TACCCTCCCCTCTC  
CTGTCGTTTCCTTTTCCTTTTCCTGATAGGGTCTTACT 10689  
gi | 114795057 | ref | NC\_006483.2 | N TGCCCTCCCCTGCC  
CTCTCGTTTCCTTTTCCTTTTCCTGATAGGGTCTTACT 12859  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ CTGCCATCCAGGCT  
GGAGTGCAGTGGCGCAATCATGGCTCACTGCAGTCT 10739  
gi | 114795057 | ref | NC\_006483.2 | N CTGCCATCCAGGCT  
GGAGTGCAATGGCGCAATCATGGCTCACTGCAGTCT 12909  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAATCTTTCTGGGC  
TGAAGTGATCCTCCCACCTCCCGAATAGCTGGGAAT 10789  
gi | 114795057 | ref | NC\_006483.2 | N CAATCTTCCTGGGC  
TGAAGTGCCCCTCCCACCTCCCGAATAGCTGGGAAT 12959  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACAAGCACACAACC  
ATGCTTGGCTAATTTTTGAACAGATGGGGTTTTGCT 10839  
gi | 114795057 | ref | NC\_006483.2 | N ACAAGCACACAACC  
ATGCTTGGCTAATTTTTGAACAGATGGGGTTTTGCT 13009  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGTTGCCTAGGCT  
GGTCTTGAACCTCCTGGGCTCAAGAGATCTGTCCACC 10889  
gi | 114795057 | ref | NC\_006483.2 | N AAGTTGCCTAGGCT  
GGTCTTGAACCTCCTGGGCTCAAGAGATCTGTCCACC 13059  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCGGTCTCCCAAAG  
TGTTGGGATTACAGGCGTGAGCCACTGTGCCTGGCT 10939  
gi | 114795057 | ref | NC\_006483.2 | N GCGGTCTCCCAAAG  
TGTTGGGATTACAGGCGTGAGCCACTGTGCCTGGCT 13109  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GATCCTTTCTTTTG  
ATGACATGTCCTCCAAGTGTGGGCTGGGGACCAACA 10989  
gi | 114795057 | ref | NC\_006483.2 | N GATCCTTTCTTTTG  
ATGACATGTCCTCCAAGTGTGGGCTGGGGACCAACA 13159  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---GCTCAACTGCTGAGCAACTCAGGTGCCCCCA 6679  
gi | 194719394 | ref | NC\_007316.3 | N --TGGCTGCTTTAGA  
ATAGCTCTTCCCCAAACGCGGTCTGGGGCCAGGA 8312  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---GTTCAGTACCATAG--AGTGAGGGGCTCAGGA 6514

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTGAGCATCACC  
TGGGAGCTTGCCAGAAATGCAGAATCTCAGGTTCCA 11039  
gi | 114795057 | ref | NC\_006483.2 | N GTGTGAGCATCACC  
TGGGAGCTTGCCAGAAATGCAGAATCTCAGGTTCCA 13209  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAG-----  
-----TGGTAAT 6690  
gi | 194719394 | ref | NC\_007316.3 | N ACGTGA-----  
-----AGTCTGAGTTGCA 8331  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGGG-----  
-----CTCGGCTCAA 6530

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGGA ACTACAG  
AATCAGAAACTCTGGGCGGGGTCCCAGCAATCTGAG 11089  
gi | 114795057 | ref | NC\_006483.2 | N CCCTGGA ACTACAG  
AATCAGAAACTCTGGGCGGGGTCCCAGCAATCTGAG 13259  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTTAT TAAACTCT  
TCATACGATGCTTTG----- 6720  
gi | 194719394 | ref | NC\_007316.3 | N ACCGAGA ACCACTCT  
TTCTCCATCCCTGTGAC----- 8363  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTGGTTAGGGCTGG  
TATGAGGGCAGAGCTGG----- 6562

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCAGCAAGCCTC  
GCCGGGGGGTTCTGAGGCTCCCTGGAGTTTGAGTAC 11139  
gi | 114795057 | ref | NC\_006483.2 | N ACTCAGCAAGCCCC  
GCCGGGGGGTTCTGAGGCTCCCTGGAGTTTGAGTAC 13309  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTGCTCTGGGTG  
ATTAGCTTCTCTGCGTGTCTCAGATCCATCCTCCTG 11189

gi | 114795057 | ref | NC\_006483.2 | N TGCTGCTCTGGATG  
ATTAGCTTCTCTGCGTGTCTCAGATCCATCCTCCTG 13359  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTTCAAAG 6729  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ATCCATCCTCCTG 8376  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGTCTTGTT 6572

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGCCAGGCCCTC  
TTGCAGATACTAGAGACAAAAGAGTGAGCAAAGCGC 11239  
gi | 114795057 | ref | NC\_006483.2 | N TTTGCCAGGCCCTC  
TTGCAGATACTAGAGACAAAAGAGTGAGCAAAGCGC 13409  
gi | 73957561 | ref | NW\_876316.1 | Cf CG-ACAGTAATTTTG  
A-----TGAGGAATCGTCAC 6758  
gi | 194719394 | ref | NC\_007316.3 | N AG-GCCAGATCCTTT  
T-----AGTGAGTTAAACAC 8405  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGGGATTGGGTGT  
G-----AAAGGAAAATAGATCC 6604

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gi | 51473102 | ref | NT\_010498.15 | \_ TGATCCTACTGGGT  
GGGGCTCATGTTCTGGTAGGGAAGGAAGATGTCTAT 11289  
gi | 114795057 | ref | NC\_006483.2 | N TGATCCTACTGGGT  
GGGGCTCATGTTCTGGTAGGGAAGGAAGATGTCTAT 13459  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTTGGAACACCTGG  
GTGGCTCAG--CAGTTAG---TGTCTGCT----- 6797  
gi | 194719394 | ref | NC\_007316.3 | N TTGTACTACCCAGGG  
GAGCTTATAGTCTGGTGGGTAAGACAGAA----- 8449  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGTGCAAAAAAAGG  
AAGAGAGTGTCTGCTCCTCCATTGTCATG----- 6649

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATAATTCCTCC  
AGTGAGTATATAATTACACACTGAG-ATAAACCCCA 11338  
gi | 114795057 | ref | NC\_006483.2 | N CAAATAATTCCTCC  
AGTGAGTACATAATCACACACTGAG-ATAAACCCCA 13508  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTTGGCTCA

GGGCGTG-----ATCCTGGG-TCCAGCATCG 6831  
gi | 194719394 | ref | NC\_007316.3 | N -----ATTATACTA  
GTGAGTATATAATTACAAGCTGAG-ATAAGCCCCA 8492  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCTTTTACA  
AAATTTATTTTATTGGTTACTGCGTATATGTGTAT 6693

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGGAAAGCAGA  
GCCTGTAAGAAAGAAGGTAGGTATGGCCTGGGTGTG 11388  
gi | 114795057 | ref | NC\_006483.2 | N GGAAGGAAAGCAGA  
GCCTGTAAGAAAGAAGGTAGGTATGGCCTGGGTGTG 13558  
gi | 73957561 | ref | NW\_876316.1 | Cf ----GGCTCCCTGCA  
TGG-----AGCCTGCTTCTC 6857  
gi | 194719394 | ref | NC\_007316.3 | N TGAAGGAAAGCAGCA  
CATGTAAGAAAGGAGTTAAACACAGCCTGTGTGTG 8542  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGTGCACGTTGGG  
CAC-----AGCACACATGTG 6723

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGATGGGTGGGA  
ATGCTACTGTTAAAGTCCAGTGCCATCTGGGAAGAC 11438  
gi | 114795057 | ref | NC\_006483.2 | N GGGGATGGGTGGGA  
ATGCTACTGTTAAAGTCCAGTGCCATCTGGGAAGAC 13608  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCTG-CCTGTGTGTC  
TCTGCCTCT-----CTCTCTG-----TC 6889  
gi | 194719394 | ref | NC\_007316.3 | N CCTGTAGCCTGTGGG  
GATGCTGCTGCCATCAGGGTGCAATCTGGGGAGAC 8592  
gi | 149361523 | ref | NC\_000074.5 | \_ --GGGGTCCTAGGAC  
AACTTTGTG-----ATGTTGGTTCCA 6757

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTGGAGGAGGT  
GGCAGGAACTCAGAGAACTAAGCCTTGCATTTGGGC 11488  
gi | 114795057 | ref | NC\_006483.2 | N TTCCTGGAGGAGGT  
GGCAGGAACTCAGCGAACTAAGCCTTGCATTTGGGC 13658  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTCATGAATAAAT-  
-----AAATAAAATATTTTAAAAAGAAAAAAG- 6931  
gi | 194719394 | ref | NC\_007316.3 | N TTCCTGGAGGAGGTG  
GCAGGGACTTGGAGAACTGAGATTTGAAGGCAAGC 8642

gi | 149361523 | ref | NC\_000074.5 | \_ TTTTTTATATGGGTT  
CCGAGCTTGCAAAGCAGATGTCTTTGCCCACTGGT 6807  
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gi | 51473102 | ref | NT\_010498.15 | \_ TACACGTGCTCCTG  
CATTTATTATTTTCATTTTTTTATATCAGCCACATTT 11538  
gi | 114795057 | ref | NC\_006483.2 | N TACACGTGCTCCTG  
CATTTATTATTTTTATTTTTTTATATCAGCCACATTT 13708  
gi | 73957561 | ref | NW\_876316.1 | Cf -AATCAT-----  
---AACTATCTTGCTGTCTGACTTGGGCCGAG--- 6966  
gi | 194719394 | ref | NC\_007316.3 | N TACCCAT-----  
---TCTCATTTTTATTTTTTTTACATAAGCCACATTT 8681  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGCCAT-----  
CTCACCAGCCTTGGGGGTCTTAAAAAGCCATG--- 6846  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTACACCCTGGAG  
CCTACAGCCTG---ACCTGCAGTAGATTTTCAGGAAA 11585  
gi | 114795057 | ref | NC\_006483.2 | N GGTACACCCTGGAG  
CCTACAGCCTG---ACCTGCAGTAGATTTTCAGGAAA 13755  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CATGTGGC  
CCTGTG-----CCCAGAGAAGAGCTCAG---- 6997  
gi | 194719394 | ref | NC\_007316.3 | N -----CACATATGCC  
CTGGAGGATGGCCTCCCTCCTCTGACCTTGGGAAT 8726  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTTAGTGGA  
CAGGGGACGAGGGTGCCACAGCACATATAGG---- 6886  
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gi | 51473102 | ref | NT\_010498.15 | \_ GATAAGCTGGCCTC  
CCTCCCCTGTGATCTGGGAGGTGCCTGTTCCCCAGG 11635  
gi | 114795057 | ref | NC\_006483.2 | N GATAAGCTGGCCTC  
CCTCCCCTGTGATCTGGGAGGTGCCTGTTCCCCAGG 13805  
gi | 73957561 | ref | NW\_876316.1 | Cf ----TGGTGGAGGCT  
GGACCAG----CTACACCATGTAAGAGGCCAGT 7038  
gi | 194719394 | ref | NC\_007316.3 | N --TCTGTAGGTTGCT  
AGTCTCA----TTCAGCGGCACTGCATCTCCAGT 8769  
gi | 149361523 | ref | NC\_000074.5 | \_ ---AAGGTCAGAGCA  
CAACTCTG-----GGAGTTGGTTCTCTTGT 6923  
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gi | 51473102 | ref | NT\_010498.15 | \_ G----AAAGTCTAT  
 AAATAGCCAGTCTCCTTCAGCAACACCTATCTCACC 11681  
 gi | 114795057 | ref | NC\_006483.2 | N G----AATGTCTAT  
 AAATAGCCAGTCTCCTTCAGCAACACCTATCTCACC 13851  
 gi | 73957561 | ref | NW\_876316.1 | Cf G---CAAATGGAAAA  
 TGGGGAAGGGGTGGGGGGAATAACCAAAAATTTCA 7085  
 gi | 194719394 | ref | NC\_007316.3 | N GTTAGAAATCCCCC  
 ACTGGGCTGCCCTTCCTCCTTTCCCTAAGTGCCA 8819  
 gi | 149361523 | ref | NC\_000074.5 | \_ TTCACCATGCAGGTT  
 AGTGACAAGGCTCCTTTACCCACTGAGCTATCTCA 6973

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gi | 51473102 | ref | NT\_010498.15 | \_ AGG-CCTTCTCCTC  
 CTTCTACCCCCTCCCCCAGATATCAGCATATTGAAA 11730  
 gi | 114795057 | ref | NC\_006483.2 | N AGG-CCTTCTCCTC  
 CTTCTACCCCCTCCCCCAGATATCAGCATATTGAAA 13900  
 gi | 73957561 | ref | NW\_876316.1 | Cf AGA-AGATGACAGCA  
 GAGCCTGACATGAAGCACGCACCCTTCTGAGCATG 7134  
 gi | 194719394 | ref | NC\_007316.3 | N GCA-TATTGAAATTT  
 GAGTGAGTTTTGCCTTCACTGACCATTGAATTAGG 8868  
 gi | 149361523 | ref | NC\_000074.5 | \_ ATAGCCTTGTCTTGG  
 GTTTGACTCTTCCTTAGGATTGCACTTTATGGATA 7023

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGAGTGACAGTT  
 TTGCCTTCACTTATTATTGAATTCTCCTAATAGTAG 11780  
 gi | 114795057 | ref | NC\_006483.2 | N TTTGAGTGACAGTT  
 TTGCCTTCACTTATTATTGAATTCTCCTAATAGTAG 13950  
 gi | 73957561 | ref | NW\_876316.1 | Cf CCCGTGGGG-----  
 ---CTGGAGTCAATAAACATG---CTAACAAGTTC 7172  
 gi | 194719394 | ref | NC\_007316.3 | N CTAATGTTAGTGTTT  
 T-ACTGTCTTTTATGAACCAGGAACACTACATTAT 8917  
 gi | 149361523 | ref | NC\_000074.5 | \_ ATTACTAGACATG--  
 TGCAGAGACTCCAGAGAGAGGAAGGTCAAAGCTAC 7071

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGCTGTTTATCTA



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CTATCTTGTGTGAACCGGGAATTGTATGTTTTTTTT 11830
gi | 114795057 | ref | NC_006483.2 | N      TTGCTGTTTATCTA
CTATCTTGTGTGAACCGGGAATTGTATGTTTTTCTT 14000
gi | 73957561 | ref | NW_876316.1 | Cf     TFACTGCTCGGT--C
TCCCATTTTCAGCCCCCTCGCAGACCATTCTTCTG 7220
gi | 194719394 | ref | NC_007316.3 | N     TTTTTCTTTATC--C
TCCCCCGCCGCCCCACTTCTTTGTCCTTTTTTCCTT 8965
gi | 149361523 | ref | NC_000074.5 | _     TGGAATAGTGGGTGA
TGGGAAGTGGAACCCCTGGATGAG----- 7109
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gi | 51473102 | ref | NT_010498.15 | _     CTTCTTTCCCTTTT
TCCTTCCTTCTTTTCCTGTCTAAACTTGTCTTAAGT 11880
gi | 114795057 | ref | NC_006483.2 | N     CTTCTTTCCCTTTT
TCCTTCCTTCTTTTCCTGTCTAAACTTGTCTTAAGT 14050
gi | 73957561 | ref | NW_876316.1 | Cf     -----
ACTGTCCCATACTGTTG--TCCATTATTTCTGTAG 7253
gi | 194719394 | ref | NC_007316.3 | N     TTCCCTTTCGAA--A
CTTGTCTTAGTTTTTTGGTTTCGATGTTTTGTTTTT 9013
gi | 149361523 | ref | NC_000074.5 | _     -----
-CTGAGCCATCCAGCCCCACACTGAGCATCTATTT 7143

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gi | 51473102 | ref | NT_010498.15 | _     TTTTCTCATAAACC
ATAAATAAAAATTGGCACAATTTAAAGTTCCTCCTT 11930
gi | 114795057 | ref | NC_006483.2 | N     TTTTCTCATAAACC
ATAAATAAAAATTGGCACAATTTAAATTCCTCCTT 14100
gi | 73957561 | ref | NW_876316.1 | Cf     ATCAGCTGTTCTCCA
GAT---ACAGTCTG--GTCCCAGCAATCTGAGTCT 7298
gi | 194719394 | ref | NC_007316.3 | N     TTCCCTCATAAACCA
GAG---TAAGTTTGCAGAGTCTGAAATTCCTCCTT 9060
gi | 149361523 | ref | NC_000074.5 | _     TTGTTCCCTTGAACT
TCTTCCTTAGGTGGGATGGGATGGCTTACACCCAG 7193
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gi | 51473102 | ref | NT_010498.15 | _     CACTCCCCCACTTT
ATGGATCCTATTTTCCCCCGTGACTTGGGGTTGGGG 11980
gi | 114795057 | ref | NC_006483.2 | N     CACTCCCCCACTTT
ATGGATCCTATTTTCCCCCGTGACTTGGGGTTGGGG 14150

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gi | 73957561 | ref | NW\_876316.1 | Cf TAAACCCTCGAGTGG 7337  
G-----TCTGCTGCTACCT-----TGAGTTTGAG  
gi | 194719394 | ref | NC\_007316.3 | N CACTCCCTCACTTCT 9104  
T-----TTCTCTCCTCCTTGATGGGGAGGTGGAG  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGCCTCAAAGTGG 7243  
ACATGTCTTGGGTTCTCATTGAAAAGGAAGGGGAA  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGGCGGAGGGAGG 12030  
AAGGTCCTGTTTGTTCCTGATCAGTTTGC GGTAATC  
gi | 114795057 | ref | NC\_006483.2 | N GAGGCGGAGGGAGG 14200  
AAGGTCCTGTTTGTTCCTGATCAGTTTGTGGTAATC  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AACCTCTGCTCTGCACAGTTAGC 7360  
gi | 194719394 | ref | NC\_007316.3 | N GG-----ATT 9144  
ACTTGCCCTTTGCAACTAATCTGTGTGCAGTAATC  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
-----ATTAACACTGAAGCACAGTCATTGTCTGTC 7274  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTCACTGTTTGC 12080  
TTGGGTGTTCTTGGCCCCTTTTCTGCGCAAGTCTAG  
gi | 114795057 | ref | NC\_006483.2 | N AGGTCACTGTTTGC 14250  
TTGGGTGTTCTTGGCCCCTTTTCTGTGCAAGTCTAG  
gi | 73957561 | ref | NW\_876316.1 | Cf G--TCTCCATTCTTT 7408  
GGACAGCCATCCGCCATTTGCCAGACCCTTTTGG  
gi | 194719394 | ref | NC\_007316.3 | N AGATCGCCGTTGGTT 9194  
TGGGCACTCCCGGCCTCCTTTCTCTGCAGTTCTAG  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGAGGGGAAGGGGA 7324  
AGATTAACAGTGAAGCACAGTCCTGGTCTGTCCGG  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGGCTGCAGGAT 12130  
TGTGGTTAAGAGCACGGAAGTCTACAGCCAGGCTG  
gi | 114795057 | ref | NC\_006483.2 | N AGAGGCTGCAGGAT 14300  
TGTGGTTAAGAGCACGGAAGTCTACAGTCCAGGCTG  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGCACTGG----- 7447  
-----AGACAAGACAGGGAGCCAAACACTGACCCT  
gi | 194719394 | ref | NC\_007316.3 | N AGAAGCTGTGA-----

---TTAGGAACACTGGCATCCGAGCACCGGCCAC 9236  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGGGAAGGGG----  
---AAGTTTAACTGAAGCACAGTCACTGTGCAG 7367

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGATGCAAATT  
CTAGTTCTGCCACTCGCCAGCTGTGAGACCTCGGGC 12180  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGATGCAAATT  
CTAGTTCTGCCACTCGCCAGCTGTGAGACCTCGGGC 14350  
gi | 73957561 | ref | NW\_876316.1 | Cf ACC--AAGTGGAG--  
-CTTATGGCCTTGTGGGATAGACAG-----ATA 7485  
gi | 194719394 | ref | NC\_007316.3 | N CTG--AGGCAAAGTC  
CAGTTTCGCCACCTGCCAACGGAAGGTTCTAAGCC 9284  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAGGAAGGGGAAG--  
-ATTAACACTGACGAACGATTGTGTCTGTGCTGCC 7415

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gi | 51473102 | ref | NT\_010498.15 | \_ AAA--CTTAACTTT  
TCCCTGCCTCTGTTTGTCTTCTGTACAATGGGGTA 12228  
gi | 114795057 | ref | NC\_006483.2 | N AAA--CTTAACTTT  
TCCCTGCCTCTGTTTGTCTTCTGTACAATGGGGTA 14398  
gi | 73957561 | ref | NW\_876316.1 | Cf AACTTCTCAAATAAT  
TATAGTAGTGTG--TATATAATTACAAATTGAGAT 7533  
gi | 194719394 | ref | NC\_007316.3 | N AGTTTCTTAATTCTC  
TCTTGCCTCTGGGTTTTCTTCTGTCCAGTGGGGTC 9334  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAGGCTATTCTGAG  
CAGTTTCTGTAGTGGTTTAAACTACGCGTTAAAAA 7465

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gi | 51473102 | ref | NT\_010498.15 | \_ GTAAC TAAGTGTAC  
ATACATCGGGGGGTCTGTTGTGGAATGGAGTCATTT 12278  
gi | 114795057 | ref | NC\_006483.2 | N GTAAC TAAGTGTAC  
ATACATCGGGGGGTCTGTTGTGGAATGGAGTCATTT 14448  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAGT-CCCA  
TGAAGGAAAG-CACATGCAAG-ACAGGAGCTGGGC 7574  
gi | 194719394 | ref | NC\_007316.3 | N -----AAGTGTACC  
TGCCTCAGAG-CTCTGTTGTGGAGTGGAAATGATTC 9377  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATTATTTTCG  
TGCATGCGGAGGTCAGAGGACAACTTACGAGAATC 7509

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gi | 51473102 | ref | NT_010498.15 | _      AATACACATCAAGC
ATGTAAGGTAGCACCTGATCATGGTGATTTTTTATTA 12328
gi | 114795057 | ref | NC_006483.2 | N      AATACACATCAAGC
ATGTAAGGTAGCACCTGATCATGGTGATTTTTTATTA 14498
gi | 73957561 | ref | NW_876316.1 | Cf      ACAGCCTGTGTG---
----TAGCAGAG--TGGTGGGG----- 7602
gi | 194719394 | ref | NC_007316.3 | N      CCTGTGTGTGAAGTA
T-TCAGGCAGCATCTGATCACA----- 9413
gi | 149361523 | ref | NC_000074.5 | _      AGGTCTCTCCTCCGA
CCATATGGGTACACAGGACCTTG----- 7546

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gi | 51473102 | ref | NT_010498.15 | _      GCAATAATTATTTA
ATTATAAGTAATTATTATTATAACAACACTACAGGCTGG 12378
gi | 114795057 | ref | NC_006483.2 | N      GCAATAATTATTTA
ATTATAAGTAATTATTATTATAACAACACTACAGGCTGG 14548
gi | 73957561 | ref | NW_876316.1 | Cf      -----AC
TTTACTGCTGCGTTCTGGGTGCAACCCAG----- 7633
gi | 194719394 | ref | NC_007316.3 | N      -----CC
GTAATTACCGTTGTTTATATAACAACCGT----- 9445
gi | 149361523 | ref | NC_000074.5 | _      -----GT
TTGACACCAAGGATCTTTCTTTCTCCTCGCTG----- 7578

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gi | 51473102 | ref | NT_010498.15 | _      GCGTGGTGGCTCAC
GCCTGTAATCCCAGCACTTTGAGAGGCCGAGGCGGG 12428
gi | 114795057 | ref | NC_006483.2 | N      GCGTGGTGGCTCAC
GCCTGTAATCCCAGCACTTTGAGAGGCCGAGGCGGG 14598
gi | 73957561 | ref | NW_876316.1 | Cf      -----
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gi | 194719394 | ref | NC_007316.3 | N      -----
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gi | 149361523 | ref | NC_000074.5 | _      -----
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gi | 51473102 | ref | NT\_010498.15 | \_ CGGATCATGAGGTC  
AGGAGTTTGAGATCAGCCCGGCCAACGTAGTGAATT 12478  
gi | 114795057 | ref | NC\_006483.2 | N CGGATCATGAGGTC  
AGGAGTTTGAGATCAGCCCGGCCAACGTAGTGAATT 14648  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GGGAGACTT  
CCTG-----GAAGAGGCAGCGGG-GCTTTG 7665  
gi | 194719394 | ref | NC\_007316.3 | N -----AAGTGTCTT  
TTTGTATTATTTTTGTACATACATAGGGTCCTATT 9489  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGCCATCCCACCCATCT 7595

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATGCGCGTCCGT  
GTGAAGAGACCACCAAACAGGCTTTGTGTGAGCAAC 12528  
gi | 114795057 | ref | NC\_006483.2 | N TCATGCGCGTCCGT  
GTGAAGAGACCACCAAACAGGCTTTGTGTGAGCAAC 14698  
gi | 73957561 | ref | NW\_876316.1 | Cf GCACACTGAGACTTG  
CGCTCAAGCTACTACAAA----- 7698  
gi | 194719394 | ref | NC\_007316.3 | N GCACACACAACAGGA  
AGCTCCTCCGCCCTTCAC----- 9522  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTAGAGGGCTTTG  
GACCTGTGGAAGCTTTGAG----- 7628

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGCTGTTTATTT  
CACCTGGGTGCAGGCGGGCTGAGTCCGAAAAGAGAG 12578  
gi | 114795057 | ref | NC\_006483.2 | N ATGGCTGTTTATTT  
CACCTGGGTGCAGGCGGGCTGAGTCCGAAAAGAGAG 14748  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTTAC  
CCAAG--CCAAGCTG-----G 7718  
gi | 194719394 | ref | NC\_007316.3 | N -----ACTTC  
CCCACAGTGCATCCTG-----A 9544  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-AATGACAGCAGGCAG----- 7643

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGGCAAAGGGTGG  
TGGATTATCATTAGTTATTATAGGTTTGGGGATAGG 12628  
gi | 114795057 | ref | NC\_006483.2 | N TCGGCAAAGGGTGG

TGGATTATCATTAGTTCTTATAGGTTTGGGGATAGG 14798  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCCCTCCT-----  
-----CTGAT 7733  
gi | 194719394 | ref | NC\_007316.3 | N TCAAACACGTTCTTT  
TCTTATTTCTTTTTTTTTTTTAAATTTTGGCTGTG 9594  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGAGCT 7649

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGTGAAGTTACGT  
TTTGC GTGCAGGGGTGGATCTTTCAGAGTACCTTCT 12678  
gi | 114795057 | ref | NC\_006483.2 | N CGGTGAAGTTACGT  
TTTGC GTGCAGGGGTGGATCTTACAGAGTACCTTCT 14848  
gi | 73957561 | ref | NW\_876316.1 | Cf CAG-GGAGGTACCTG  
ATGCCCAGGGG-----ATTCTGCAG----- 7767  
gi | 194719394 | ref | NC\_007316.3 | N CTG-GGTCTTCGTTG  
CTGCGCACAGG-----TTTTCTCTGG-----TTGC 9633  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGTACCATTTCAGTG  
GGCCTGCGGTC ACTATGGCTTCCAG----- 7690  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAAGGGTGGGGGAG  
ATTACAAAGTACATTGATCAGTTAGAGTGCGGCAGA 12728  
gi | 114795057 | ref | NC\_006483.2 | N TAAGGGTGGGGGAG  
ATTACAAAGTACATTGATCAGTTAGGGTGGGGCAGA 14898  
gi | 73957561 | ref | NW\_876316.1 | Cf -----A  
GTCTCAGGCTCCAGGTTTCAG----- 7788  
gi | 194719394 | ref | NC\_007316.3 | N AGCGAGTGGGGCCTA  
CTCTTCGTCGCGGTGCACAG----- 9668  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
GGCTAGAGGGCTGGGGTCTTT----- 7711

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gi | 51473102 | ref | NT\_010498.15 | \_ AACAAATCACAATG  
GTGGAGTGTCATCAGTTAAGGCTATTTTTACTTCTT 12778  
gi | 114795057 | ref | NC\_006483.2 | N AACAAATCACAATG  
GTGGAATGTCATCAGTTAAGGCTATTTTTACTTCTT 14948  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GAATCCCCTTAC  
TGCAG----- 7805

gi | 194719394 | ref | NC\_007316.3 | N ---ACTTCTCATTGC  
GGTG----- 9684  
gi | 149361523 | ref | NC\_000074.5 | \_ --CTCAGCTTCCTGC  
CGATG----- 7729

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTGGATCTTCAG  
TTACTTCAGGCCATCTGGATGTATACGTGCAAGTCA 12828  
gi | 114795057 | ref | NC\_006483.2 | N TG-TGGATCTTCAG  
TTACTTCAGGCCATCTGGATGTATACGTGCAAGTCA 14997  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGGGATGTGATG  
GCTTGGCTTGGGCTCAGAGGCCTGACAGTGAAACCT 12878  
gi | 114795057 | ref | NC\_006483.2 | N CAGGGGATGCGATG  
GCTTGGCTTAGGCTCAGAGGCCTGACAGTGAAACCT 15047  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----C 7806  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----T 9685  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----T 7730

gi | 51473102 | ref | NT\_010498.15 | \_ CATCTCTACTAAAA  
ATACAAAAATTAGCTGCTTGTGGTGACATGAGCCTG 12928  
gi | 114795057 | ref | NC\_006483.2 | N CATCTCTACTAAAA  
GTACAAAAATTAGCCGCGTGTGGTGACATGCGCCTG 15097  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTCTCTCCTT----  
-----C 7818  
gi | 194719394 | ref | NC\_007316.3 | N CTTCTCTTCTTGCAG  
AGCACGGG-----CTC 9711  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGTCTACAG----

----- 7741  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAATCCCAGCTACT  
CAGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG 12978  
gi | 114795057 | ref | NC\_006483.2 | N TAGTCCCAGCTACT  
CAGGAGGCTGACGCAGGAGAATTGCTTGAACCTGGG 15147  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCCACATTCTAGCA  
CTGAAATGCAAGTGATAGTTTTGCTT--TCCTTAG 7866  
gi | 194719394 | ref | NC\_007316.3 | N TAGAGCACACGGGCT  
CAGTGGTTGCAGCTCTGGGCTTAATTGCTCCATGG 9761  
gi | 149361523 | ref | NC\_000074.5 | \_ --GACCTAGCTGGGG  
GTGGAGGTTCAACAGTGTCTGCTGATGGGTACAGAG 7789

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCAGAGGTTGCA  
GTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGA 13028  
gi | 114795057 | ref | NC\_006483.2 | N AAGCGGAGGTTGCA  
GTGAGCCAAGATCATGCCACTGCACTCCAGCCTGGA 15197  
gi | 73957561 | ref | NW\_876316.1 | Cf TCA-TGGAAAT----  
-----ACACTAAT 7884  
gi | 194719394 | ref | NC\_007316.3 | N TATGTGGAATC----  
-----TTCCTGGA 9780  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCCCAGATGAG---  
-----CCAGCCCATC 7811

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gi | 51473102 | ref | NT\_010498.15 | \_ CGACAGAGCAAGAC  
TCTGTCCTGAAAAAAAAAGAAAAAATATTTAAAAA 13078  
gi | 114795057 | ref | NC\_006483.2 | N CGACAGAGCAAGAC  
TCCGTCCTGAAAAAAAAAGAAAAAATATTTAAAAA 15247  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTAGCTGCTATTCT  
TTGTCTCTCATG-----AACCAGGAA----- 7920  
gi | 194719394 | ref | NC\_007316.3 | N CCAGGGATCGAACCT  
GTGTCCCCTACATCGGCAGGCAGATT----- 9821  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTGGAGGAAGTTCT  
GTGTGTCTTACTGGGAGCCTGGGATGGAGG----- 7856

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTATACAACTACA  
TAAGTGTCTTTTCCCTCATAGATTCATGCTGGGCAC 13128  
gi | 114795057 | ref | NC\_006483.2 | N ATTATACTGACTACA  
TAAGTGTCTTTTCCCTCATAGATTCATGCTGGGCAC 15297  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CT  
ATACCTATTTTTCTTTCCTT----- 7942  
gi | 194719394 | ref | NC\_007316.3 | N -----CT  
CAGCCACTGAACCACCAGGG----- 9843  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAC  
CAGCTCCTGGCTCCTCCTGAG----- 7880

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTATTCTGCCCAC  
TCCATGCTTCCATATTCCTGCAGTGTATGTGGGTCA 13178  
gi | 114795057 | ref | NC\_006483.2 | N ACTATTCTGCCCAC  
TCCACGCTCCCATATTCCTGCAGTGTATGTGGGTCA 15347  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCT  
CCCTTTTTCT--TTCTAAACTTTTTTTTTTCGTAA 7979  
gi | 194719394 | ref | NC\_007316.3 | N -----AAGT  
CCTCTTTTCTGTTTCTTAAAGTTTACTGAAGTAC 9882  
gi | 149361523 | ref | NC\_000074.5 | \_ -CTGGAGAACACCAT  
CTCTCTTGTCCTCATCCTGGTCATTCTCTGAGGGCA 7929

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gi | 51473102 | ref | NT\_010498.15 | \_ ACACATCTTCAATG  
GCGGTGTAGGCATTCGTATTTAACCCGTTTCCTGCC 13228  
gi | 114795057 | ref | NC\_006483.2 | N ACACATCTTCAATG  
GCGGTGTAGGCATTCGTATTTAACCCGTTTCTTGCC 15397  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCACAATAAAAATG  
TG-----CACAATATGAGGTTCTCCTCC 8018  
gi | 194719394 | ref | NC\_007316.3 | N AGTTGATTTATAGTG  
TTGTGTGAGTTTCTTCTGTACAGCAAAGCAACTCC 9932  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTTGTGTCCTGAGC  
TACTAAGAACTCCAAGTACGGACCACCTCAGTG 7979

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gi | 51473102 | ref | NT\_010498.15 | \_ GACAGTTAGTTGGT  
TTCCTTTTTTGTATTTTGTAGAACAATGTTATAATGAA 13278

gi | 114795057 | ref | NC\_006483.2 | N AACAGTTAGTTGGT  
TTCCTTTTTTGGATTTTGTAGAACAATGTTATAATGAA 15447  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCTGGCACTTG---  
----- 8030  
gi | 194719394 | ref | NC\_007316.3 | N GTTATACATATA---  
----- 9944  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCTTG-----  
----- 7985  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATCTATGGATATA  
CCACATTGTTTTGAATCCTTACAAAATCCCTGTAG 13328  
gi | 114795057 | ref | NC\_006483.2 | N CATCTATGGATATA  
CCACATTGTTTTGAATCCTTACAAAATCCCTGTAG 15497  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTTGCTCCCACTTTCCTCCTCGGTG 8055  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TATATATTCTCTTTCATCCATTAT 9969  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTCACCCAGTGCCTTCTCTTAA 8009

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATCTGAGGCTTA  
GAAAATGAAGTAACTTGCCCAGGGTCACACAGCTCT 13378  
gi | 114795057 | ref | NC\_006483.2 | N AAATCTGAGGCTTA  
GAAAATGAAGTAACTTACCCAGGGTCACACAGCTTT 15547  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGGGTGGAGGGAGG  
TACTGTTTGTATGTAATCAGTG----- 8092  
gi | 194719394 | ref | NC\_007316.3 | N G--GTTTATTACAG  
AATATTGAATACAGTTCCTGTG----- 10004  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTCCTGACTGCAGA  
GAAGCCATATCCTGAGGCTGGAG----- 8047

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATGGAATTGGGC  
CCAGGGCGGCCTGAATTCTAAGCTCGAGTCCCCTGG 13428  
gi | 114795057 | ref | NC\_006483.2 | N TCATGGAATTGGGC  
CCAGGGCGGCCTGAATTCTAAGCTCGAGTCCCCTGG 15597  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCAGTAATCAGAAC

TGTTTGCCTGGGCGTTCCCGGCCCTATTGCTCTG- 8141  
gi | 194719394 | ref | NC\_007316.3 | N CTCTGCAGTAGGAC  
CTTGTTCTTAATCCATTTTATATATCAATATAATA- 10053  
gi | 149361523 | ref | NC\_000074.5 | \_ ---TGGTGGTGGTCA  
TGGGAGGAGAGGCCGTAAGTTCCTTACGGAAACA- 8093  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCCTTGTCAGTG  
TTAGGAATACCTCTGCTTCAAATGCTTTCTTTTTTT 13478  
gi | 114795057 | ref | NC\_006483.2 | N ACTCCTTGTCAGTG  
TTAGGAATACCTCTGCTTCAAATGCATTCTTTTTTT 15647  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CAGTTCCCAAG----- 8152  
gi | 194719394 | ref | NC\_007316.3 | N -----  
---GATTGCCTCTGCT----- 10066  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TCTCCTGAG----- 8102

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTAAAGTTCTGGG  
ATACATGTGCAGAACGTACAGGTTTGTACATAGGT 13528  
gi | 114795057 | ref | NC\_006483.2 | N CTTAAAGTTCTGGG  
ATACATGTGCAGAACGTACAGGTTTGTACATAGGT 15697  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGCCTGCGGT  
TAAGAGCACTGACG----- 8176  
gi | 194719394 | ref | NC\_007316.3 | N -----AATCCCAA  
CTCCCAGTCCATCCC----- 10090  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GAG  
TCCTTGTCACCCAG----- 8120

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCCACGTGCCATG  
GTGGTTTGCTGCACCCATCAACCCATCATCTACATT 13578  
gi | 114795057 | ref | NC\_006483.2 | N ATACACGTGCCATG  
GTGGTTTGCTGCACCCATCAACCCATCATCTACATT 15747  
gi | 73957561 | ref | NW\_876316.1 | Cf -TCCAGGTGCCCGG-  
-----GCTACCTGCATGCGA----- 8204  
gi | 194719394 | ref | NC\_007316.3 | N -TCCCCCAGCCTCT  
-----TCCCCCT--TGACAA----- 10116

gi | 149361523 | ref | NC\_000074.5 | \_ GAGCTGCAGCCACCG  
AGG-----GAAACCCATGGAGGATG----- 8155  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTTATTTCTCCTA  
ATGCTATCCCTCCCCTCTCCCCACACCCCCTGACAG 13628  
gi | 114795057 | ref | NC\_006483.2 | N AGTTATTTCTCCTA  
ATGCTATCCCTCCCCTCGCCCCACACCCCCTGACAG 15797  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATTCTGTTCTGCACTTGCCAGCCGTCAG 8232  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCACAAGTCTGCTCTCTATGTCTGTGAG 10144  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TACAGTACTTGAAGTTAGGCCACGCC 8182

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCCGGTGTGTGA  
TGTTCCCGTCCCTGTGTCCATGCGTTCTCATTGTTT 13678  
gi | 114795057 | ref | NC\_006483.2 | N GCCCTGGTGTGTGA  
TGTTCCCTCCCTGTGTCCATGTGTTCTCATTGTTT 15847  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTCCG-AGCACACT  
CCTTAGTTTTTCTGTACGACGGGGTAT----- 8272  
gi | 194719394 | ref | NC\_007316.3 | N TCTATTTTGTAGAT  
AAGTTTGTGTGTGCCGTGTTTTAGTTT----- 10185  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAACTGTCCCCACA  
TCTAGGCAGAACTG----- 8212

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTCCCCTTATG  
AGTGAGAACATACGGTGTGTTTGGTTTTCTGTTCCCTGT 13728  
gi | 114795057 | ref | NC\_006483.2 | N AACTCCCCTTACG  
AGTGAGAACATGCGGTGTTTGGTTTTCTGTTCCCTGT 15897  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TCGCTG--CA  
GCCATCTGTTGTGG-AATGGAATGATT----CAGG 8310  
gi | 194719394 | ref | NC\_007316.3 | N -----CCACATGTA  
AGTGATATCATATGGTGATGGTCTTTCT----CTAA 10226  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTCTACTGC  
AAGGCATCTTCCAGAACTTT-----CTGT 8245

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTAGTTTGCTGAG  
AATGATGGTTTCCAGCTTCATCCATGTCCCTGCAA 13778  
gi | 114795057 | ref | NC\_006483.2 | N GTTAGTTTCCTGAG  
AATGATGGTTTCCAGCTTCATCCATGTCCCTGCAA 15947  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCATAAAGCATTT  
AGGGCAGTCCCCGATCTCAGTAATTATTATTTATA 8360  
gi | 194719394 | ref | NC\_007316.3 | N CTTCTTCACTTAG  
TATGATCCTCTCTAGGCTCATCCGTGTTGCTGCAA 10276  
gi | 149361523 | ref | NC\_000074.5 | \_ TGACCTACTGGAGGG  
AAGAGAAAAGCAAAGCATGATCAAGTGTAGACAGG 8295

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gi | 51473102 | ref | NT\_010498.15 | \_ GGACACGAACTCAT  
CCTTTTTTATGGCTGCGTAGTATTCCATGGTGTACA 13828  
gi | 114795057 | ref | NC\_006483.2 | N GGACATGAACTCAT  
CCTTTTTTATGGCTGCATAGTATTCCATGGTGTACA 15997  
gi | 73957561 | ref | NW\_876316.1 | Cf TACGAT----TACGT  
AGTGTCTCTTAAAAAAAAAAAAAAAAACCAACAGACA 8406  
gi | 194719394 | ref | NC\_007316.3 | N TGGCAT----TACT  
TCCTTTTTATGGCTGAGTAGTATCCCACTGTATGCA 10322  
gi | 149361523 | ref | NC\_000074.5 | \_ GGAGAC---ATGCCC  
ACGACTTGTGACTCTGGAACTTCCAGAACCAAGG 8342

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGCTACATTTTC  
TTTATCCAGTCTATCACTGATGGGCTTCAAATACAT 13878  
gi | 114795057 | ref | NC\_006483.2 | N TGTGCTACATTTTC  
TTTATCCAGTCTATCATTGATGGGCTTCAAATACAT 16047  
gi | 73957561 | ref | NW\_876316.1 | Cf T----AAAATCATAAC  
TGTGCGCACCATCTGCTGCAAC----- 8439  
gi | 194719394 | ref | NC\_007316.3 | N TGTACCACATCTTC  
TTTATCCATTCTCTGTTGACGG----- 10359  
gi | 149361523 | ref | NC\_000074.5 | \_ T-----CATCATTG  
CATCCATGATCTCTCTGAACAG-----CC 8375

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTCACAGAAACC

TCCCCACCCCCTTTTAAGAACAGTTGCATTGACTTG 13928  
gi | 114795057 | ref | NC\_006483.2 | N TCTTCACAGAAACC  
TCCCCACCCCCTTTTAAGAACAGTTGGATTGACTTG 16097  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCCCTCTAGCCTCT  
CTG-----TGCTCCT 8464  
gi | 194719394 | ref | NC\_007316.3 | N ACATTTAGGTTGCT  
TCCC-----TGTCTTG 10384  
gi | 149361523 | ref | NC\_000074.5 | \_ ACGTGTATGAGGCCT  
GGT-----TAGTTTG 8400  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCATGCCTCCCA  
ATCCCCTGCCTTTTGCCATCTCTCAGGGTCAGTCCT 13978  
gi | 114795057 | ref | NC\_006483.2 | N ACTCATGCCTCCCA  
ATCCCCTGCCTTTTGCTATCTCTCAGGGTCAGTCCT 16147  
gi | 73957561 | ref | NW\_876316.1 | Cf GATAGTATATACAGA  
TCCAGAACATTCT-----TCA 8495  
gi | 194719394 | ref | NC\_007316.3 | N GCTGTTGTGAATAG  
AAGCACATTCTTTC-----CTA 10415  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTCACCCACAAG  
ACCACTCATGTAT-----TCCC 8432  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGCAGGATGGGC  
AGCCAGGTTTCCTCCTGGCATGGGGGCTGATCTGTTC 14028  
gi | 114795057 | ref | NC\_006483.2 | N GGGGCAGGATGGGC  
AGCCAGGTTTCCTCCTGGCATGGGGGCTGATCTGTTC 16197  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGCTACATAGGGG  
-----TTTCC 8515  
gi | 194719394 | ref | NC\_007316.3 | N GCGGCTGTGTAGGC  
A-----TTTTA 10435  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGGCTGATAAGTCT  
-----TTGC 8451  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTCAACACCATT  
GCAGCCAGGGCTCAAAGGCTGACCATAGACATGGCC 14078  
gi | 114795057 | ref | NC\_006483.2 | N AGCTCAACACCATT  
GCAGCCAGGGCTCAAAGGCTGACCATAGAAATGGCC 16247

gi | 73957561 | ref | NW\_876316.1 | Cf ATGTCACCCAC--CC  
CCTACTG----- 8535  
gi | 194719394 | ref | NC\_007316.3 | N AGTTAACCCACATC  
CCCAGCTG----- 10457  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCTAGGCAGGTCAA  
ATGTGTG----- 8473  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCCATGGCCACA  
TGTGGTGGCTCACACCTGTAATCCTAGCACTTTGGG 14128  
gi | 114795057 | ref | NC\_006483.2 | N AAGCCATGGCCACA  
TGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGG 16297  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATGGGCACTT  
AAAGGGTTTCCTTTTTTTTTTTTTTTTAAATTTT--- 8577  
gi | 194719394 | ref | NC\_007316.3 | N -----ATGGGCTTT  
TGGGTAGTTTCCCTCCTT-----TCATTTT--- 10491  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGTGTT  
GGGGAGTCTTGTGGGTATTGGGGGGTGGGGGT--- 8511

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCTAAGGCGAGA  
GGATCACTTGAGGTCAAAAGTTTGGAGACCAGCCTGG 14178  
gi | 114795057 | ref | NC\_006483.2 | N AGGCTAAGGCGAGA  
GGATCACTTGAGGTCAAAAGTTTGGAGACCAGCCTGG 16347  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAGA 8581  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CAGA 10495  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGA 8515

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAACGTGGCAAAA  
CCCCGTCTCTACTAAAAATGCAAAACATTTAGCCAG 14228  
gi | 114795057 | ref | NC\_006483.2 | N CCAACGTGGCAAAA  
CCCCGTCTCTACTAAAAATGCAAAACATTTAGCCAG 16397  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGATGT-----TC  
CAGTGAACATCTCTGGGTGTGCCATGTTAT----- 8620  
gi | 194719394 | ref | NC\_007316.3 | N ACAATGT-----T

CTGCTGAACACCTATGGATGCCGTATATTAT----- 10534  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGAGA-----C  
CACCCCCTGGCCCAGAGTTCCAGTTGCAGT----- 8553

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gi | 51473102 | ref | NT\_010498.15 | \_ GCATGGTGGCGGGT  
GCCTGTAATCCCAGCTACTTGGGAGGCTCAGGCACC 14278  
gi | 114795057 | ref | NC\_006483.2 | N GCATGGTGGCGGGC  
GCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCACC 16447  
gi | 73957561 | ref | NW\_876316.1 | Cf --TTTGAGTCG-TCT  
ACAAAATCCCTGCAG----- 8648  
gi | 194719394 | ref | NC\_007316.3 | N --TTTGAATC--CT  
TACAGAAATCCCTGTAG----- 10561  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCCTGGCA  
GACCCATCCCTTCCTG----- 8577

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAATCGCTTGAAC  
CCAGGAGGCGGAGGTTGCAGTGAGCTGAGATCTTTT 14328  
gi | 114795057 | ref | NC\_006483.2 | N AGAATCACTTGAAC  
CCAGGAGGCGGAGGTTGCAGTGAGCTGAGATCTTTT 16497  
gi | 73957561 | ref | NW\_876316.1 | Cf ----AAACTTGAGGT  
TTGGGGAGTGAAGTGGCT----- 8677  
gi | 194719394 | ref | NC\_007316.3 | N ----GAATCTGAGC  
CTTGAAAGTGAAGTAACT----- 10590  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTGTATG  
AGGGAGGCTGAGGTGACT----- 8602

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTGCATTCCAGC  
GTGGGCGACAGAGCAAGACTCCATCTAAAAA 14378  
gi | 114795057 | ref | NC\_006483.2 | N CACTGCATTCCAGC  
GTGGGCGACAGAGCAAGACTCCATTT---AAAAA 16543  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT_010498.15 | _          AAAAAAAAAAAAAAGT
AAAGAAAGAAATGGCCAAGCCAGGAGGAAGAGCTGC 14428
gi | 114795057 | ref | NC_006483.2 | N          AAAAAAAAAAAAAAGT
AAAGAAAGAAATGGCCAAGCCAGGCGGAAGAGCTGC 16593
gi | 73957561 | ref | NW_876316.1 | Cf          -----
-----TGC 8680
gi | 194719394 | ref | NC_007316.3 | N          -----
-----TGC 10593
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          CCCTCTTCCTGGAC
CATCCAGGCAAAAGCAGCCTCAGAAGAGACAGGCAA 14478
gi | 114795057 | ref | NC_006483.2 | N          CCCTCTTCCTGGAC
CATCCAGGCAAAAGCAGCCTCAGGAGAGACAGGCAA 16643
gi | 73957561 | ref | NW_876316.1 | Cf          CCGGGTTCACACAGC
CATCCCAGGAACGGGGACCCCGGTCAGCCAG---T 8727
gi | 194719394 | ref | NC_007316.3 | N          CCAGGCCACACAA
CTCCCAAGGAGTTCGGACCCAGGTCAGCCTGGATT 10643
gi | 149361523 | ref | NC_000074.5 | _          ----CATTTGGTATC
TCCCTGGGTTCTGCTGTGTAAGGAGACACTTG--- 8645

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gi | 51473102 | ref | NT_010498.15 | _          GAGTCTACAGCTGG
AGACAGAAGTGTGCCTCCTCTCCCAGGGACATGCTG 14528
gi | 114795057 | ref | NC_006483.2 | N          GAGTCTACAGCTGG
AGACAGATGTGTGCCTCCTCTCCCAGGGACATGCTG 16693
gi | 73957561 | ref | NW_876316.1 | Cf          GTGTACTGG-----
-----ATTTCTCCAACCCCT----- 8752
gi | 194719394 | ref | NC_007316.3 | N          CTGTGCATG-----
-----AATTCTCCACTCCA----- 10667
gi | 149361523 | ref | NC_000074.5 | _          -----
-----GTCATAAGAATCAG----- 8659

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATCCAGCGCTGG  
GCCTGCCCTGGAGCAAAGCTAGTGGGTTCCTGGGAG 14578  
gi | 114795057 | ref | NC\_006483.2 | N GGATCCAGCGCTGG  
GCCTGCTGTGGAGCAAAGCTAGTGGGTTCCTGGGAG 16743  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCGGG  
GCAGCTCT----CTCTTCCATAAAGTCCCTG-ACT 8787  
gi | 194719394 | ref | NC\_007316.3 | N -----CTG  
GCCAGGTTT----CTCTTCTCTGAAGTTCCTG-TTT 10701  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TAAGAG  
TCGGAATTCATTGCCAGGCTTCTGGGTTCCTCCTTT 8700

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACTGTCCTTGTC  
ATCTTGGGCACAGCTCAGTGGCCTACTGCTTTCTGC 14628  
gi | 114795057 | ref | NC\_006483.2 | N GCACTGTCCTTGTC  
ATCTTGGGCACAGCTCAGTGGCCTACTGCTTTCTGC 16793  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCCGCCGTAATTA  
GTAAG-----CATT----- 8811  
gi | 194719394 | ref | NC\_007316.3 | N TCCCTGTTGTAATC  
AATTAG-----TATTGGGCTGGAC 10734  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCCTGTCCACAGGC  
TCCTC----- 8720

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gi | 51473102 | ref | NT\_010498.15 | \_ TACTGAGGCCGCAA  
GCAGGTCCACTAGGAACCAGCCTCACTGTCCCAAAA 14678  
gi | 114795057 | ref | NC\_006483.2 | N TACTCAGGCCGCAA  
GCAGGTCCACTAGGAACCAGCCTCACTGTCCCAAAA 16843  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N AAAAGGTGCCTTTG  
GATTTTTCAGGAAGAGCCT--CTGGAAAACCCAAAT 10782  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGAGTGTGAATCA  
GTGCCAGGGAGGCCAGCTGTGTGTCTAGAGGCAGA 14728  
gi | 114795057 | ref | NC\_006483.2 | N CTGAGTGTGAATCA

GTGCCAGGGAGGCCAGCTGTGTGTCTAGAGGCAGA 16893  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCACGGAGCGTCGT 8825  
gi | 194719394 | ref | NC\_007316.3 | N GAAC TTTTGGCCAA  
-----CCTGGTATTTTATGACAAGTAGT 10819  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATAGCTTTTAGGCCGC 8736

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGTGGGCTGGCA  
GGAAAGCCTGCATCAAACCCTCACTCCACACTCACC 14778  
gi | 114795057 | ref | NC\_006483.2 | N GAGGTGGGCTGGCA  
GGAAAGCCTGCATCAAACCCTCACTCCACACTCACC 16943  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGAGG-CTGCGTC  
GATATCCTTTCTCATACCTTTTC----- 8862  
gi | 194719394 | ref | NC\_007316.3 | N GCTGAGG-CTGTGT  
CGATAGCCTATTTCT--CATTTTT----- 10854  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTAGCGGAGTCTTC  
ATGGTCCTTGCACGTCCGCAGGCCACC----- 8778

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCGTGACCTTGG  
GCAAAGCTCTCAAATCCAGGGCCTTGGTTTGCCCAT 14828  
gi | 114795057 | ref | NC\_006483.2 | N TGCCGTGACCTTGG  
GCAAAGCTCTCAAATCCAGGGCCTTGGTTTGCCCAT 16993  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAACAAAATGGGC  
ACAGCGCCTGCCAACTTGAAC TTTTGGTGAGATAGA 14878  
gi | 114795057 | ref | NC\_006483.2 | N CCAACAAAATGGGC  
ACAGCACCTGCCAACTTGAAC TTTTGGTCAGATAGA 17043  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ACT  
CTGGTTCTCGCATCTG-----TGGATG----- 8888

gi | 194719394 | ref | NC\_007316.3 | N -----GC  
TCAG-TTTTAGCATCTG-----TTGGTGA----- 10879  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCT  
CAGCACCTGTGGAGAGCGATTTTGAATG----- 8810

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGTGAAGGTGCG  
CGTGATGATAAGCAGCCATGTCTGGTCCGTAGTATG 14928  
gi | 114795057 | ref | NC\_006483.2 | N GGAGTGAAGGTGCG  
TGTGATGATAAGCAGCCGTGTCTGGTCCGTAGTATG 17093  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCCCTGTCCGGAGGGATTACT- 8909  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTCTTGCCTGAACCCATTACTG 10901  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCAGGAAGTTGTACTGACTA 8831

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTCAGCCAATGC  
GGGTTGAACCTGAATATAGGAATGAACCTGTTTCTT 14978  
gi | 114795057 | ref | NC\_006483.2 | N TGCTTAGCCAATGC  
GGGTTGAACCTGAATATAGGAATGAACCTGTTTCTT 17143  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CGT 8912  
gi | 194719394 | ref | NC\_007316.3 | N T-----  
-----TTAAAAAATATTTATTTTAAAT 10924  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
-----CAGC 8836

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCAGCCATACCGT  
TATTCTGGAATCATTCTTCATTTATTGTCTGGAAA 15028  
gi | 114795057 | ref | NC\_006483.2 | N CCCAGCCATACCAT  
TATTCTGGAATCATTCTTCATTTATTGTCTGGAAA 17193  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAAGGCTTGCTGAT  
CTTCTG-CTTCCATCCCTGCCTCCTT----- 8952  
gi | 194719394 | ref | NC\_007316.3 | N TGAAGGATAATCGC  
TTTACAGTATTACGTTGGTTTCTCCAT----- 10965  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCAGGGAGCGTGTG

AGAAGTGCAGAGGCTTGGGCCTGCTT----- 8877

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gi | 51473102 | ref | NT\_010498.15 | \_ TAATTTCAAATGGA  
 CAGAAAAGTTGTAAGAAGATGATAGCACAAACACTA 15078  
 gi | 114795057 | ref | NC\_006483.2 | N TAATTTCAAATGGA  
 AAGTAAAGTTGTAAGAAGATGATAGCACAAACACTA 17243  
 gi | 73957561 | ref | NW\_876316.1 | Cf --TATTCCTCGGTGC  
 T---CTGGGAAGG----- 8975  
 gi | 194719394 | ref | NC\_007316.3 | N --ACATCAACATGA  
 AT---CAGCCATAGGTATACATATGTCCCTTCCCTC 11010  
 gi | 149361523 | ref | NC\_000074.5 | \_ --CACACCTCAGACA  
 CTGACACGGGAGGG----- 8904

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCACATCCTTCC  
 TCCAGGGTCTCTCAGCATCGTCAGTACATTTTCGACA 15128  
 gi | 114795057 | ref | NC\_006483.2 | N TAGCACATCCTTCC  
 TCCAGGGTCTCTCAGCATCGTTAGTACATTTTCGACA 17293  
 gi | 73957561 | ref | NW\_876316.1 | Cf -AGAGCTGCTCCTCT  
 GCATGCTCATTTCATTTCGTTTCATATT-----CGCA 9018  
 gi | 194719394 | ref | NC\_007316.3 | N CTGAACCTCCCTCC  
 CACCTCCACTCCATCCCACTCCTCTAGGTTGTCACA 11060  
 gi | 149361523 | ref | NC\_000074.5 | \_ -TGA CTCTGACACTC  
 CAGGCCTCAGCTGGCCTCGGTTGCTCTGGTGC GCC 8953

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGCTGCATTGTC  
 CTCAGCCTCACC GCCCCATTTAGACATAAATTGCA 15178  
 gi | 114795057 | ref | NC\_006483.2 | N CTGGCTGCATTGTC  
 CTCAGCCTCACC ACCCCATTTAGGCATAAATTGAA 17343  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGG-----AC  
 TCATCATGAGTTCCTG----- 9039  
 gi | 194719394 | ref | NC\_007316.3 | N GAG-----C  
 CCCAGTTT GAGTTCCTGAGTGATACAGCAAATTCC 11100  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCG-----AGAC  
 CCAGCTCAGGTGCTCCCTGGACCG----- 8984

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gi | 51473102 | ref | NT\_010498.15 | \_ GACATGATGCTGTA  
TTATTTCTGAATACATCTG----- 15211  
gi | 114795057 | ref | NC\_006483.2 | N GACATGATGCTCTG  
TTATTTCTGAATACATCTCTCTGTGTGTGTGTGTGT 17393  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CACCGGCT-----  
----- 11108  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----TGTGTGTGT  
GTGTATGTGTGTGTTGGGGGTGGGGGTGTTGGTTTT 15256  
gi | 114795057 | ref | NC\_006483.2 | N GTGTGTGTGTGTGT  
GTGTGTGTGTGTGTTGGGGATGGGGGTGTTGGTTTT 17443  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTTTTTTTT 9048  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GTTTTACCTGT 11119  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TGAGACCCACTT 8996

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTGGTTTTTTTTTT  
TTTTTTTTTTTTTGAGACAGCGTCTTACTCTTTTCAC 15306  
gi | 114795057 | ref | NC\_006483.2 | N GTTGG-TTTTTTTTT  
TTCTTTTTTTTTTGAGACAGCGTCTTACTCTTGTCAC 17492  
gi | 73957561 | ref | NW\_876316.1 | Cf GTTTGTTTGTTTTGT  
TTTTTTTTTATGAGTTCCTGTTTTAACAAGTGTGCC 9098  
gi | 194719394 | ref | NC\_007316.3 | N GGTAGTATGTATGT  
TTCCATGCTACCCTCTCCATCTCCATCTGTCCCACC 11169  
gi | 149361523 | ref | NC\_000074.5 | \_ GACAGATTAGCAGCT  
TCTCATTGGTTAG-ACATCCTCTTCCCTACCGCTCC 9045

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGGCTG----AGA  
GCAGTAGCGCAATCTCGGCTCACTGCAGCATCCAAC 15352

gi | 114795057 | ref | NC\_006483.2 | N CCGGCTG----AGA  
GCAGTAGTGCAATCTCGGCTCACTGCAGCCTCCAAC 17538  
gi | 73957561 | ref | NW\_876316.1 | Cf CGCATTT----GTTA  
GCACCG---TTTTTA----TTTTGCTG--TCCCAG 9135  
gi | 194719394 | ref | NC\_007316.3 | N CACTCTT----CCC  
TCTCCCGTCACATCTC----CATTGCTG--TCCTGC 11209  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCTCTGGAGTAAGT  
GAGCAGAGCGCCTGCCCTACTATAGAG-TATCTGG 9094

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCAGGCTCAAGC  
GATCCTCCAACCTCAGCCTCCCCAGTAGCTGGGACT 15402  
gi | 114795057 | ref | NC\_006483.2 | N TCTTAGGCTCAAGA  
GATCCTCCAACCTCAGCCTCCCCAGTAGCTGGGACT 17588  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCTGG-CCAATAGG  
AGCTTCTG--CACGGTGCCCGCTGTGT--CCCCT 9179  
gi | 194719394 | ref | NC\_007316.3 | N AAATAGGCCCATCA  
GTGCCGCCTTTCTAGATTCCAGGTGTAAGTGTTAAT 11259  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGTAGGCCCGATGA  
GGGAGGGTGGAGCAGGACAGACAGACAAAGCCTGT 9144

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGGCATGTGCCA  
CCACGCCAGCTAATTTTTGTATTGTTGTAGAGACT 15452  
gi | 114795057 | ref | NC\_006483.2 | N ACAGGCATGTGCTA  
CCACGCCAGCTAATTTTTGTATTTTTGTAGAGACT 17638  
gi | 73957561 | ref | NW\_876316.1 | Cf GGATGTTCTTGCCAT  
TGCT-----CTTT 9202  
gi | 194719394 | ref | NC\_007316.3 | N ATATGATATTTATT  
TTTCTGACT--TACTTCACTCTATATAATAGGCTCT 11307  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTTCTGCTGTGCTA  
TGGATGCT-----TTCTGGAGGAG 9178

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTTTCACGCTGT  
TGTCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGCAA 15502  
gi | 114795057 | ref | NC\_006483.2 | N GGGTTTCACCCTGT  
TGTCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGCAA 17688  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGTCCTTCCCCACT

TTCTGGTGTCAACAAGAAAAGTCCTGGCTCCTGTGA 9252  
gi | 194719394 | ref | NC\_007316.3 | N AGGTTTCATCCACCT  
CATCAGAAGTACTTAAAATGCATTCTTTTATGG 11357  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGTGGGGCTCGAG  
GAACCGGAGACTTGCCTTGGCCAGCCGCTCCTGA 9228  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTCCCACCTCAG  
CCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACT 15552  
gi | 114795057 | ref | NC\_006483.2 | N TCCTCCCACCTCAG  
CCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACT 17738  
gi | 73957561 | ref | NW\_876316.1 | Cf TCGTTTCCCCACCCC  
CACCTGCAAG----- 9278  
gi | 194719394 | ref | NC\_007316.3 | N CTGAGTAACATTCC  
ATTGTATATATGTA----- 11385  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCACACACCCCACA  
CACAGGCCATGGAG----- 9257  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCCCAGCCTATT  
TTCTTTAAGTGACAGTCTTCATTAATCACAACAGAG 15602  
gi | 114795057 | ref | NC\_006483.2 | N GTGCCCAGCCTATT  
TTCTTTAAGTGACAGTCTTCATTAATCAGACAGAG 17788  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CA 9280  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCACAGCTTCTTTA 11399  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAA 9262

gi | 51473102 | ref | NT\_010498.15 | \_ TCCAAAAATCAGGA  
AATGAACATCTACACAACATGACCATCCAGTCCACA 15652  
gi | 114795057 | ref | NC\_006483.2 | N TCCAATAATCAGGA  
AATGAACATCTACACAACATGACCATCCAGTCCACA 17838  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCATTTCTCT----  
-TGGGATTCTTGGCTCCTTTTAG----- 9313  
gi | 194719394 | ref | NC\_007316.3 | N TCCATTCATCTGTC  
AATGGACATCTAGGTTACTTCCATGTCCT----AGC 11445



gi | 149361523 | ref | NC\_000074.5 | \_ TGCATGGTCATGGTG  
GCGGATCCCAGGGGAAATGAAGT----- 9300

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTTCCCATCAGCG  
TTGTCCTGGTAACAGGGAAAGGATGTGGCTCTTAGT 15702

gi | 114795057 | ref | NC\_006483.2 | N AGTTCCCATCAGCA  
TTGTCCTGGTAACAGGGAAAGGATGTGGCTCTTAGT 17888

gi | 73957561 | ref | NW\_876316.1 | Cf -----TAGAAGAAC  
GGGAGTGGAAATCGAG----- 9338

gi | 194719394 | ref | NC\_007316.3 | N TATTGTAAATAGTG  
CTGCAATGAACACAGAGGTA----- 11479

gi | 149361523 | ref | NC\_000074.5 | \_ ----CTCTCTCTTCC  
TCCTCTGTGATCTGGGAGG----- 9330

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCACGTCCCTCT  
GTTTCTCCTTCTGTGTGGAATACTCCTGTGGATTTT 15752

gi | 114795057 | ref | NC\_006483.2 | N TGCCACGTCCCCCT  
TTTTCTCCTTCTGTGTGGAATACTCCTGTGGATTTT 17938

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-GTCTGATGCCAG---GTGTCCTCATGCTCCTG- 9367

gi | 194719394 | ref | NC\_007316.3 | N -----CAT  
GTGTCTTTTTCAATTATGATTTCCCTCAGGGTATGTG 11518

gi | 149361523 | ref | NC\_000074.5 | \_ -----TG  
GCTGTGCTCCAGG---AAGCCCTGAGGG----- 9357

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTTGTCTTCTGTA  
TTCTCGACCTTTTTAGAGATTCCGGGCTCAGATTCC 15802

gi | 114795057 | ref | NC\_006483.2 | N CCTTGTCTTCTGTA  
TTCTCGACCTTTTTAGAGATTCCGGGCTCAGATTCC 17988

gi | 73957561 | ref | NW\_876316.1 | Cf --CAGTATTGTGGCT  
GCTGGG-----CCCTCCCGGGGGTGT 9401

gi | 194719394 | ref | NC\_007316.3 | N CCCAGTAGTGGGAT  
TGCTGGGTTATATGGTATTTTTATTCCCAGTTTTTTT 11568

gi | 149361523 | ref | NC\_000074.5 | \_ -CAGGTGTCTCTGAC  
TCACACACACACACACACACACACACACACATTCT 9406

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCTCGGGGACGT  
 CATAGGATGTCTCTTGATTTGAGTTTGTCT-AATGT 15851  
 gi | 114795057 | ref | NC\_006483.2 | N AGGCTCGGGGACAT  
 CATAGGATGTCCCTTGATTTGAGTTTGTCT-AATGT 18037  
 gi | 73957561 | ref | NW\_876316.1 | Cf G----TGTATGTGTA  
 TATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAC 9447  
 gi | 194719394 | ref | NC\_007316.3 | N A----AGGAATCTC  
 CATACTGTCTTCCATAGTGGCTGTATCAATTTATGT 11614  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTCTCTCTCTCTCTC  
 TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGG 9456

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTCGGGATTTG  
 GCTCAGGTTACGCGCTTCTGGAGAAAGCCCTGTGGC 15901  
 gi | 114795057 | ref | NC\_006483.2 | N TTCCTCTGGATTTG  
 GCTCAGGTCACGCACTTCTGGAGAAAGCCCTTGTGGC 18087  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGTATATAAATATGC  
 ATCG--ATTCCATCCGAT----- 9478  
 gi | 194719394 | ref | NC\_007316.3 | N TCCCACCAACAGTG  
 CAGAAGCATTCCCTTTTCT----- 11647  
 gi | 149361523 | ref | NC\_000074.5 | \_ TTTCTGCAGACTTCC  
 CTCACAGCTGCTCCTTCC----- 9489  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACGATACTGTGTCC  
 TCCTTAGTACATGGTATTGGGAGGCCACCCAGCTG 15951  
 gi | 114795057 | ref | NC\_006483.2 | N ACGATACTGTGTCC  
 TCCTTAGTACATGGTATTGGGAGGCCACCCAGCTG 18137  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----CCAGGGAAT  
 ACCACAAGGTTGGTG-----CCAGCTT 9509  
 gi | 194719394 | ref | NC\_007316.3 | N -----CTACACCC  
 TCTCCAGCATTTATTGT-----TCATAGA 11679  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----CAACCCCT  
 CCCCCAAGCATGGAGG-----CAGTGA 9519

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGTCTCGTTACT

GGTGGGAGTAACTTTTGCCCCTTGGTTAAGACAGCG 16001  
gi | 114795057 | ref | NC\_006483.2 | N TTTGTCTCATTACT  
GGTGGGGGTAAC TTTTGCCCCTTGGTTAAGACAGCG 18187  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTATATCCATTC--  
-----CTCTCTTTACCAGTG-----AGAG-- 9541  
gi | 194719394 | ref | NC\_007316.3 | N TTTTTGATGATGG-  
-----CCATTTTGACCAGTG-----TGAAGT 11713  
gi | 149361523 | ref | NC\_000074.5 | \_ AATG-----  
-----TCCCGTGCACCCTG----- 9537  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGCCAGGTTTCC  
CTTAATTAAAGCTATTACTTTCTCCCTTGTAATGAT 16051  
gi | 114795057 | ref | NC\_006483.2 | N TGTGCCAGGTTTCC  
TTTAATTAAAGCTATTATTTCTCCCTTGTAATGAT 18237  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGGCACTGCGTTTACTTACTGCATAATT 9569  
gi | 194719394 | ref | NC\_007316.3 | N GATGTCTTGTTGTA  
GTTTTGATTTGCATTTCTCTAATAATGAGTAACGTT 11763  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTTCTCTTCTCATTACATTCTGCCT 9563

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAGTATTTTACCG  
AGAGACATGTTGAGACTGTGTCAGTATCTGATTCTC 16101  
gi | 114795057 | ref | NC\_006483.2 | N TAAGTATTTTACGG  
AGAGACATGTTGAGACTGTGTCAGTATCTGATTCTC 18287  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCCTGCCGGTACTT  
-----AGTCTCCTCGCCTTCCCAGTGGTCCCCGG 9613  
gi | 194719394 | ref | NC\_007316.3 | N GAGCATCTTTTCAT  
G-----TGTTTATTAGCCATCTGTGTGTCTTCTTT 11807  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGCCTCTTGTTCTT  
AAGTGTGGTCTCTGGAGTACCTGGGACTGGACGTG 9613

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTTATTTTCGCT  
CATTAAGTTCGGCATGCATGGACGATGCTTGGCTGA 16151  
gi | 114795057 | ref | NC\_006483.2 | N GTTTTATTTTCACT  
CATTAAGTTCGGCATGCATAGACAATGCTTGGCTGA 18337

gi | 73957561 | ref | NW\_876316.1 | Cf TCACATTGGCCACCA  
CCTGGCTTGG--GCATCTCTTCATTGGGCCCT-- 9659  
gi | 194719394 | ref | NC\_007316.3 | N GGAGAAATGTCTGT  
TTAGGTCTTCTGCCATTTTTTTGATTGGTGAAC-- 11855  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCTTCCTGCTTTG  
TCTTCCCATTTCCTCCCTTTCTATACCTGTCC-- 9661

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGATTACTATCA  
CAACGTTTGTGAATGGTGATTTTCTAATTCCATCT 16201  
gi | 114795057 | ref | NC\_006483.2 | N ATGGATTACTATCA  
CAGTGTTTGTGAATGGTGATTTTCTAATTCCATCT 18387  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GACCACCCTGAC  
CCTCCCTGCAAGAGACATGTACTCCGTG----- 9699  
gi | 194719394 | ref | NC\_007316.3 | N ---CATTACTTTTA  
GAATGTTTGTGAACGGCAATTTTCCAAG----- 11895  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TATTTTTTTCT  
CCTCATGAACCCACAGAAAATCTCAATG----- 9699

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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTAGTCCCTTC  
TCACACTGCTATAAAGAAATACCTGAAGCCGGGCAT 16251  
gi | 114795057 | ref | NC\_006483.2 | N GCATTAGTCCCTTC  
TCACACTGCTATAAAGAAATACCTGAAGCCTGGCAT 18437  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGTCT  
CATTCCGTCTATTGGTAGTACTTTG--TTGTGT 9736  
gi | 194719394 | ref | NC\_007316.3 | N -----TTTA  
TCATTCTGCCTCATTTACTACCTGGTGCTTGGTAT 11935  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GC  
CACAATTCCACAGCTTCATTCCCACCACACTTT 9736

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGGCTCATGCCT  
GTAATCCCAGCACTTTGGAAGGCCAAGGTGGGTGGA 16301  
gi | 114795057 | ref | NC\_006483.2 | N GGTGGCTCATGCCT  
GTAATCCCAGCACTTTGGAAGGCCAAGGTGGGTGGA 18487  
gi | 73957561 | ref | NW\_876316.1 | Cf G--GGCTCACACCAC  
CAGTACACACACATA----- 9766  
gi | 194719394 | ref | NC\_007316.3 | N C--AGAAAGAGCTG

CCCTAACTCGCAGACCTAGAGAACAAAGC----- 11976  
gi | 149361523 | ref | NC\_000074.5 | \_ G---GCCCCATTTTC  
CTCCTGGGGCACTGTTAGCGTCCG----- 9772

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACTTCAGGTCAG  
AAGTTCAAGAGCAGCCTGGCCAACATGGTGAAACCT 16351  
gi | 114795057 | ref | NC\_006483.2 | N TCACTTGAGGTCAG  
AAGTTCAAGAGCAGCCTGGCCAACATGGTGGAACCT 18537  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CACG-----TGG  
TTCGCAAACACTGCCT----- 9789  
gi | 194719394 | ref | NC\_007316.3 | N ---TACGGTTACCG  
GGGCACAAGGACAGGGG----- 12004  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGT  
CGCTGTGTGACAGCCGGG----- 9793

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCTCTAATAAAA  
ATACAAAATTAGCCGGGCTTGGTGATGCATGCCTGT 16401  
gi | 114795057 | ref | NC\_006483.2 | N GGTCTCTACTAAAA  
ATACAAAATTAGCCGGGCTTGGTGATGCATGCCTGT 18587  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGA  
TAGAATTTTCAG--TAACCAGAAGACACAT--CTGG 9823  
gi | 194719394 | ref | NC\_007316.3 | N -----AA  
AGGGACAGTTAG--GGAATTTGGGATGGAC--ATGT 12038  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTA  
TGGTGTGCAAG--GCGTTCTGGTTCTTCGCTAT 9828

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gi | 51473102 | ref | NT\_010498.15 | \_ AATCCCAGCTACCT  
AGGAGGCTGAGGCAGGAGTATAGTTTGAACCCAGGA 16451  
gi | 114795057 | ref | NC\_006483.2 | N AATCCCAGCTACCT  
GGGAAGCTGAGGCAGGAGTATAGTTTGAACGCAGGA 18637  
gi | 73957561 | ref | NW\_876316.1 | Cf AACCCATGCTGACCT  
G-AGGCTGG-----AATTTAACAACCCTG-- 9861  
gi | 194719394 | ref | NC\_007316.3 | N ACACACTGCTATAT  
TA-AAAATGG-----GTAGGGACTTCCCTGGT 12078  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGACTGTGGGATA  
TGTTGCAAG-----AGTCTCTGGCCAGG- 9867

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gi | 51473102 | ref | NT\_010498.15 | \_ GCGGAGGTTGCAG  
TGAGCTAAGATTGTAGCACTGCACTCCAGCCTAGGT 16501  
gi | 114795057 | ref | NC\_006483.2 | N GCGGAGGTTGCAG  
TGAGCTAAGATTGTAGCACTGCACTCCAGCCTAGGT 18687  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCTCCGCGATCCAGCATGTAG 9882  
gi | 194719394 | ref | NC\_007316.3 | N G-----  
-GTCCAGTGGCTAAGACTCCATGCTCCT-AATGCAG 12113  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGCTTTCCTGTAGACTG 9885

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gi | 51473102 | ref | NT\_010498.15 | \_ GACAGAGTGAGACT  
CTGTCTCAAAAAACACACACATAAAAAGAAGAAATA 16551  
gi | 114795057 | ref | NC\_006483.2 | N GACAGAGTGAGACT  
CTGTCTCAAAAAACACACACATAAAAAGAAGAAATA 18737  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAT-----  
---ATCATG-----ACT 9895  
gi | 194719394 | ref | NC\_007316.3 | N GAGG-----  
----CCCATGTTCCATCCCTGGTCTGGGAACTAGCT 12149  
gi | 149361523 | ref | NC\_000074.5 | \_ CATTG-----  
----- 9890

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGAGACTGTGTG  
ATTTATAGGGAAAAGAGGTTTGATGGGCTCACGGTT 16601  
gi | 114795057 | ref | NC\_006483.2 | N CCTGAGACTGTGTG  
ATTTATAGGGAAAAGAGGTTTGATGGGCTCACGGTT 18787  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCGT-----  
-----CTTACAGAG 9909  
gi | 194719394 | ref | NC\_007316.3 | N CCCAA-----  
-----ATGCCGCAA 12163  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTCCA 9895

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCAGGCTG-TAC  
AGGAAGCACAGTGGCTTCTTCTGGGAAGACCTCAGG 16650  
gi | 114795057 | ref | NC\_006483.2 | N CTGCAGGCTG-TAC  
AGGAAGCACAGTGGCTTCTTCTGGGAAGACCTCAGG 18836  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGAAGACGGCCTCA  
GAGAAGTCAAGGGCCTGG-----CTGA 9946  
gi | 194719394 | ref | NC\_007316.3 | N CTAAGACCCGACAC  
AGCCAAATAAATAACTTTTTTTT-----TTAA 12203  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCAGCCCTGTGAGA  
GCTTGTGTAATGCCTTCACAT----- 9931  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTTTCCAATCAT  
GGTGAAGGCAAAGGAGGAGTGAAGTGTCTTACATG 16700  
gi | 114795057 | ref | NC\_006483.2 | N AGGTTTCCAATCAT  
GGTGAAGGCAAAGGAGGAGCGAAGTGTCTTACATG 18886  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGTTGCACAGCTGG  
TAGCTGGGAGAAGGAGAAGAGAG---CCCAGATCA 9993  
gi | 194719394 | ref | NC\_007316.3 | N TGGATAACCAACAA  
GGACCTACTGAATAGCACATGGAA---CTCTGCTGG 12250  
gi | 149361523 | ref | NC\_000074.5 | \_ ----CCCCACACCTG  
AACCTACCCTCTG-----TGCAGT 9961  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGGAACAGGAGC  
AAGAGAGAGAGCAGGGGACGGTGTCCCATGCTTTTA 16750  
gi | 114795057 | ref | NC\_006483.2 | N GTGGGAACAGGAGC  
AAGAGAGAGAGCAGGGGACGGTGTCCCATGCTTTTA 18936  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGAGTTGTG--GG  
CCAGGCAG----TGCTCCCTCTGCCAGTTTGTTC 10037  
gi | 194719394 | ref | NC\_007316.3 | N GTGTTATGTGGCAG  
CCTGGATGGGAAGGGGATTTGTGGGAGAAATGGATA 12300  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGTAAATGGTGC  
ACATCTGAG----GCGCCTCCTGGGGAAGCGTGAT 10006  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATGACGAGATCTC  
ACGAGAACTCACATTCGCGAGGACAGTACTAAGGGG 16800  
gi | 114795057 | ref | NC\_006483.2 | N AATGACGAGATCTC

ACGAGAACTCACATTTGCGAGGACAGTACTAAGGGG 18986  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTGGGGTTGTTT-  
-----CCCCTTAACATTAAAGAATGCTGGGCAGGCC 10081  
gi | 194719394 | ref | NC\_007316.3 | N CATGTATATGTATG  
ACTGAGTCCCTTCCCTGTTTCACCTGAAACTATGGCA 12350  
gi | 149361523 | ref | NC\_000074.5 | \_ TAAATAGAAGATTA  
AATATTTAGATCATTAAAGTCGCGATTAAGTATTAAG 10056

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gi | 51473102 | ref | NT\_010498.15 | \_ ATAGTGCTCAACTA  
TTCATGAGATATCCTTCCCCATGATGCAGTCACCTC 16850  
gi | 114795057 | ref | NC\_006483.2 | N ATAGTGCTCAACTA  
TTCATGAGATATCCTTCCCCATGATGCAGTCACCTC 19036  
gi | 73957561 | ref | NW\_876316.1 | Cf CCGTGGGGTGACGG  
GCCTCGC----TCCTCCCACGGAGCCTCTCTTTGC 10127  
gi | 194719394 | ref | NC\_007316.3 | N ACATTTGTTAATCA  
GTTATGC----CCCAACACAGATAAAAAGTTTAAAA 12396  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGGGGGTGGAGCA  
TTGAGGG-----CGCCACCTGAGGGCTGTTTCATGT 10100

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACCAGG--CCCA  
CCTCCAACATTAGAGAATAGAATTGGACATGAGATT 16898  
gi | 114795057 | ref | NC\_006483.2 | N CCACCAGG--CCCA  
CCTCCAACATTAGAGAATACAATTGGACATGAGATT 19084  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCTTAC---CCT  
CCCCACCTGCCTGAGTGTCTGCTTGGATCCTTGG---- 10170  
gi | 194719394 | ref | NC\_007316.3 | N GGAAAAAAGAGCTG  
CCCCTTTCTCCTCTTTATCTAGTTGTTTCGTGT---- 12442  
gi | 149361523 | ref | NC\_000074.5 | \_ GTATGTCC-----  
CCACACACACCTGCATGGAGGTCAGGCCAGAA---- 10140

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGGGTGAACACA  
GATCCAAACCATATCACCATCATCATCTCTCTCT 16948  
gi | 114795057 | ref | NC\_006483.2 | N TGGGGGTGAACACA  
GATCCAAACCATATCACCATCATCATCTCTCCCT 19134  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATTCT-----CCAGCAG--TCCTTCAAGCT 10193



gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ATTCATTCATACATCAT--TCATGCACTCA 12470  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCT 10143

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gi | 51473102 | ref | NT\_010498.15 | \_ CATTTAACGTCTCC  
TGTAAGGAAGAGCTTTCTCTTCTCCCTGTAACTTG 16998  
gi | 114795057 | ref | NC\_006483.2 | N CATTTACGGTCTTC  
TATAAGGAAGAGCTTTCTCTTCTCCCTGTAACTTG 19184  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAAGTCCCCTCCC  
CTCCTG-----ACAGGCTCTGCCCCAGG---TTTG 10235  
gi | 194719394 | ref | NC\_007316.3 | N CAAATTCCTATTCT  
TTTAGGTGGGTTAAAATTTGTTACCCTCT---TTTT 12517  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGTTGTGTTTGTC  
CCTCAGGACATCATATTTTGTCTCCCACT----- 10186

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCGTTTATTCATT  
GATATCAGTAGGAATGCAAGGACTCTGTATTAGTCC 17048  
gi | 114795057 | ref | NC\_006483.2 | N GTCATTTATTCATT  
GATATCGGTAGGAATGCAAGGACTCTGTATTAGTCC 19234  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCTGCTTTTCTGC  
CTTTGAATCAGCAATTCAATGCTGGTG----- 10276  
gi | 194719394 | ref | NC\_007316.3 | N TTTTTATCCTCATG  
CCCAGATTTGGCCATTAGAAGCCTTT----- 12557  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCCTGAAAATTGC  
CAAGGCTTCTAGGCTGGCTGGCCAGAG----- 10227

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCTCATGCTGCT  
ATGAAGAAATATCTGAGACTGAGTAATTTACAAAGA 17098  
gi | 114795057 | ref | NC\_006483.2 | N ACTCTCATGCTGCT  
ATGAAGAAATATCTGAGACTGAGTAATTTACAAAGA 19284  
gi | 73957561 | ref | NW\_876316.1 | Cf --ACTCAAGATTCA  
AG----- 10290  
gi | 194719394 | ref | NC\_007316.3 | N --TCTCATGGTGAC  
TT----- 12571  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGAGGTTTCATT  
 GACTCACAGTTCCGCATGTCTGGGGAGGCCTCAGGA 17148  
 gi | 114795057 | ref | NC\_006483.2 | N AAAGAGGTTTCATT  
 GACTCACAGTTCCACATGTCTGGGGAGGCCTCAGGA 19334  
 gi | 73957561 | ref | NW\_876316.1 | Cf ----AAAGTACAAA  
 AAGGAGTACTTCCTTAGGAGTCT-----CTGGCAGC 10331  
 gi | 194719394 | ref | NC\_007316.3 | N ----TTCTGTCCTC  
 TGGACATCTTTCCGTCACCTCTCTG--AGCATGTGCC 12615  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----AGGGATTCATCTGTCTCTG-----C 10247

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTTACAGTCATG  
 GCGGAAGGCACCTCTTCACAGAGCGGCAGGAGAGAG 17198  
 gi | 114795057 | ref | NC\_006483.2 | N AACTTACAGTCATG  
 GCGGAGGGCACCTCTTCACAGAGCGGCAGGAGAGAG 19384  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTCTGTCTTCCAG-  
 -----CCACCCCTCCCCAGG-----CCCAAAG-- 10367  
 gi | 194719394 | ref | NC\_007316.3 | N TGCTCTCTGGCAT-  
 -----AACAAAGACATTCCAAG-----CTCATTGTG 12653  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTCGAACCTGCCT-  
 -----CCTTCCCAGG----- 10270

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gi | 51473102 | ref | NT\_010498.15 | \_ AATGAATGCTGAGC  
 AAAGGGGGAAGCCCCATATGAAACCATCAGATCTTG 17248  
 gi | 114795057 | ref | NC\_006483.2 | N AATGAATGCTGAGC  
 AAAGGGGGAAGCCCCATATGAAACCATCAGATCTTG 19434  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----GCAA  
 TGGCCCCGGTTTCCTTTCCCTTTTCGTTATCTGTAG 10407  
 gi | 194719394 | ref | NC\_007316.3 | N AACCTTCCCTGAGC  
 CAGCCCTGGAGCCAGCCATTTCTTCTGGGAGTCTTG 12703  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----ACTGC  
 TTGGTGTTTTGTTTTGTTTAATTTAGCGAGGTTTAT 10311

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGAACTCACTCA  
CTATCATGAGCATGGGGGAACCACTCCCGCCATCTA 17298  
gi | 114795057 | ref | NC\_006483.2 | N TGAGAACTCACTTA  
CTATCATGAGCATGGGGGAACCACTCCCACCATCTA 19484  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----CTAACTTA  
GACTCACAGTATTGTGCACCTTTGCTCTTT----- 10447  
gi | 194719394 | ref | NC\_007316.3 | N G-----CTCTTTTC  
GCCAGAAGGATATTATTTTTTAAAATTTCTTTTGCTG 12748  
gi | 149361523 | ref | NC\_000074.5 | \_ GGAAATTTAACTCG  
GATCCTTATGCTTATAAGACTCAGTCCCCGTTGTTA 10361

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCACCTCCCATGA  
GGTCCCTTCCCAACATGCGGGGATTACACTTCAGA 17348  
gi | 114795057 | ref | NC\_006483.2 | N ATCACCTCCCATGA  
GGTCCCTTCCCAACATGTGGGGATTACACTTCAGA 19534  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCTCATTAATGGG  
-----ACCACCGCTTG-GGAAAAGTGCCTGATGG 10489  
gi | 194719394 | ref | NC\_007316.3 | N CACCAGGTCTTAGT  
-----TGCGGCACATG-GGCTCTGTAGCTGTGGC 12790  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCTTTAATTATAG  
-----GTAGGTGTTATTACATGTCTC 10396

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gi | 51473102 | ref | NT\_010498.15 | \_ TTACAATTCCAAAT  
GAGATTTGGGTGGGGACACAGAGCCAGGCCATATCA 17398  
gi | 114795057 | ref | NC\_006483.2 | N TTACAATTCAAAT  
GAGATTTGGGTGGGGACACAGAGCCAGGCCATATCA 19584  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTCCAGCATCACG  
CAAGG-CCTG-GGTGCCTAG-----GACCCAGCAT 10531  
gi | 194719394 | ref | NC\_007316.3 | N ATGCGAGCTCTTAG  
TTGGGGCCTGTGGGGTCTAGTTCCCCGACCAGGGAT 12840  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCTACCTTCAGT  
GAGACATCTCAATTCCCCTG-----CCCCTCAGCT 10440

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTCCTAGTTGAT  
TAAATATGCTATGATTTGTTACTATCAATATTTATT 17448

gi | 114795057 | ref | NC\_006483.2 | N GAGTCCTAGTTGAT  
TAAATATGTTATGATTTGTTACTATCAATATTTATT 19634  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCACCCAG-----  
-----GAGACAT----- 10547  
gi | 194719394 | ref | NC\_007316.3 | N CAAACACGG-----  
-----GCACCCTGCATTGGGA 12865  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCCCAATG-----  
----- 10449  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTGATGCTTCATTG  
TCTTAATTTGGCCAACGGGAACCTTTCAAGGTGAC 17498  
gi | 114795057 | ref | NC\_006483.2 | N TTGATGCTTGATTG  
CCTTAATTTGGCCAATGGGAACCTTTTCAAGGTGGC 19684  
gi | 73957561 | ref | NW\_876316.1 | Cf --GAGGGCTTGCAC  
TCGCTAAAAGACCCGCACACACCCATTGGTGG---- 10591  
gi | 194719394 | ref | NC\_007316.3 | N GTGATGAGTCTTAG  
CCGCTGGACCACCAGGGAAGTCCCAGAAGAAGGGTA 12915  
gi | 149361523 | ref | NC\_000074.5 | \_ -----T  
TCTCCTCCCCCAAATCCTGCACCATTGCTAGG---- 10482

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCATGCCCTCTT  
GACATTTTTTTACGTTATCCTTTGAGCACTTCCCTTT 17548  
gi | 114795057 | ref | NC\_006483.2 | N TGCCATGTCCTCTT  
GACATTTTTTTACGTTATCCTTTGAGCACTTCCCTTT 19734  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N T-----  
----- 12916  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGCATAATGAGA  
AACTTCAGCTTCATTTTGTACTTTCTGTACCTTGGC 17598  
gi | 114795057 | ref | NC\_006483.2 | N CTGGCATGAG---A  
AACTTCAGCTTCATTTTGTACTTTCTGTACCTTGGC 19781  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----AAGTGTTATG-- 10601  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTAGAAATCAAGATCTGGTG-- 12936  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGAAAAAGCCA  
TTTCTCCCAGTATCCTTGGCTGTTTTTACCGGAAGA 17648  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGAAAAAGCCA  
TTTCTCCCAGTATCCTTGGCTCTTTTTTACCGGAAGA 19831  
gi | 73957561 | ref | NW\_876316.1 | Cf --TGTAATAAGCCA  
AA---CCAG-----ACACGACTCAAACGCCCAACCT 10641  
gi | 194719394 | ref | NC\_007316.3 | N --TGCCGTGTGCCC  
ATGGTCCTGGGGTGTATGGCCTCTGGGCCCTCTCA 12984  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAGGCATATTCACCTTGGAT 10502

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTATATTTAGAAA  
GCAAGATCTGGTAGTATGTGTTTCATTGTTACTGGGT 17698  
gi | 114795057 | ref | NC\_006483.2 | N ATTATATTTAGAAA  
GCAAGATCTGGTAGTATGTGTTTCATTGTTACTGGGT 19881  
gi | 73957561 | ref | NW\_876316.1 | Cf GATGCAAATAGTTA  
-----AGTGA ACTGTGGCGT--- 10670  
gi | 194719394 | ref | NC\_007316.3 | N GGTGTGTGTACG--  
-----TG TACTGT TAGAG--- 13011  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTGTCTATACCTA  
G-----CTAGGTTTCCTT--- 10528

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCATGGCTCCTGG  
GCCCTCTCAGTGGAGGGGGTGTAAAGTGTGCATATGC 17748  
gi | 114795057 | ref | NC\_006483.2 | N GCCATGGCTCCTAG  
GCCCTCTCAGTGGAGGGGGTGTAAAGTGTGCATATGC 19931  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATCTGG  
TCAGCGGAATACTTG-AAATGCAACAGAGCAACAAA 10711  
gi | 194719394 | ref | NC\_007316.3 | N -----CCATAT  
TCAGTTTTATACTTGTGTGTGCATTTATACATGTAT 13053

gi | 149361523 | ref | NC\_000074.5 | \_ -----TCCCAT  
TTTGATCTCTTAGAGGGGGTCCCAGAGGTCCCGAAA 10570

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCGAGATCTATAT  
TTAGTTTTATATCTGTCTCTCTGTATCTCCATAT 17798

gi | 114795057 | ref | NC\_006483.2 | N TGCGAGATCTATAT  
TTAGTTTTATATCTGTCTCTCTGTATCTCCATAT 19981

gi | 73957561 | ref | NW\_876316.1 | Cf AGAGGATGAATTAT  
AGTTTTTAATCCCCATCGCTCTTGAG----- 10752

gi | 194719394 | ref | NC\_007316.3 | N ATATAAGTATAAAA  
CTGAATATTTGATCATAGCTTTCAATC----- 13094

gi | 149361523 | ref | NC\_000074.5 | \_ TTTCAAGAGCTTGT  
CTATAGTTAGACAACCTTGCCTGGGGAT----- 10611

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTCCAGTCCAATA  
AATACCACAGGGTTTGTGCCAGTTCTTTGTATATTT 17848

gi | 114795057 | ref | NC\_006483.2 | N ATTCCAGTCCAATA  
AATACCACAGGGTTTGTGCCAGTTCTTTGTATATTT 20031

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAACACAGG-TGAATCTCGCCGGGGTAAT 10780

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CAGGGCTGGTTCAGCTCTATGTATATTT 13123

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTGAAGGCTGATCCTCTAACATGT 10635

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAACTCTTTTCAC  
CAACAGTAAGAACACTGGCTACCATTACCATTAG-- 17896

gi | 114795057 | ref | NC\_006483.2 | N TTAACTCTTTTCAC  
CAACAGTAAGAACACTGGCTACCATTACCATTAG-- 20079

gi | 73957561 | ref | NW\_876316.1 | Cf G-----TTGGC  
AAGAGGAGACAGACACAGAAGGACATCTGTGTG--A 10820

gi | 194719394 | ref | NC\_007316.3 | N GTAACTCCCTTCCC  
CGACAGCAAGAGTGCCAGCTCACATTATGTTTGGTA 13173

gi | 149361523 | ref | NC\_000074.5 | \_ AAGTTTTACTTCTC  
TG--TGCTGGATATTTTTCTTTAGGCTCCTCAG-- 10681

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gi | 51473102 | ref | NT\_010498.15 | \_ CATATTTTCCTTACT  
GCACAATTTCCCTGTATGTAACCCATCTCCTCACCT 17946  
gi | 114795057 | ref | NC\_006483.2 | N CATATTTTCCTTACT  
GCACAATTTCCCTGTATGTAACCCATCTCCTCACCT 20129  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTATATTCGTCTA  
TATGACTTTCCAAAATAGAACACATCCACGTCGACA 10870  
gi | 194719394 | ref | NC\_007316.3 | N TGTATTTGCTTATT  
ACCTAATCTCCCTGTGCGTGACCAGGCTCCTCACCT 13223  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCTTTTTCGAACT  
GTTTTATGCAACTGGCCCCGTGGACACGGACTGTGT 10731

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCAACAATTGCA  
CTGGCCACCCTCTGCCTAGCCGTCTCCTCTTGGCC 17996  
gi | 114795057 | ref | NC\_006483.2 | N TGCCAACAATTGCA  
TTGGCCACCCTCCGCCTAGCCGTCTCCTCTTGGCC 20179  
gi | 73957561 | ref | NW\_876316.1 | Cf G-AAGTCCAAA-TG  
TTGCTCATCTTTCAAG--GGCTGCCACGGAGAGTG 10916  
gi | 194719394 | ref | NC\_007316.3 | N TGCCACCCACC-TG  
TTGGTCCCCAGTCCCAGCGGCCTCCTCCTAACCCAG 13272  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGAGTGAGTGAGT  
GAGTAAGCCAGTCACTCTTCTCCTGTCTCTTCTG--- 10778

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gi | 51473102 | ref | NT\_010498.15 | \_ CGAATGCACTGGCC  
ACCCTTGAGCAAGGTTTCATGCTCCAAGTATCTCACT 18046  
gi | 114795057 | ref | NC\_006483.2 | N CGAATGCACTGGCC  
ACCCTTGAGCAAGGTTTCATGCTCCAAGTATCTCACT 20229  
gi | 73957561 | ref | NW\_876316.1 | Cf GACACAGGGCAGCC  
TTCCGGTTGCTAGAGACGTCCCTCCACTGCATCGGCG 10966  
gi | 194719394 | ref | NC\_007316.3 | N CTCTCGTG-TTGAC  
TGCTCTGTGCCACCTGCTTCCCCCACAAGACCTGCA 13321  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCAGATGAATCCC  
AGCCCT---CAACACTGCTCCAGCCAGGGACCTGGG 10825

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTCCTGTTGCTA

GCTCCTTGCTCGCTGGTGTCACTCCCCTGCGTA 18096  
gi | 114795057 | ref | NC\_006483.2 | N TTGTCCTGTTGCTA  
GCTCCTTGCTCACTGGTGTCACTCCCCTGCATA 20279  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGGGGG-TTGCTC  
AGGTGACACG-TATGCAAGCAGGCATCCAGCTGCAC 11013  
gi | 194719394 | ref | NC\_007316.3 | N CTCTGAG-CACCTC  
ACGTCATATTGGCAGTTCTTTGCTGTCTGGGTTTAC 13370  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCAAAGGCTCCCA  
AGACCAGGGATCAGAGATGGAACCTCACTGAAGTTA 10875

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCACACACAGACG  
CACACAGG---TACTACCTAGAAAGGACTTCAGGGG 18143  
gi | 114795057 | ref | NC\_006483.2 | N TGCACACACAGACG  
CACACAGG---TACTACCTAGAAAGGACTTCAGGGG 20326  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTTACCGTTTGTG  
CACACGACCATCTGTGGGTTATACATCAATTCATGT 11063  
gi | 194719394 | ref | NC\_007316.3 | N ACCACCATCATTTCA  
CACACAGAGAACAACCAACTAGGTGTGATTTTCAGGGC 13420  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGTCTGATGCTG  
CCCACAGGGAGGCCCTAGGCATTG-AATGGAAGAGG 10924

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGAAAACATCTC  
TGAAG----CCCCTCTTGACCTGAGGCTGAAATTTTC 18189  
gi | 114795057 | ref | NC\_006483.2 | N CTGGAAAACATCTC  
TGAAG----CCCCTCTTGACCTGAGGCTGAAATTTTC 20372  
gi | 73957561 | ref | NW\_876316.1 | Cf TTAGTATTTTCCAT  
ACGGGTAAATAAAAAGCTTTTCACAGTCTGCTTTTAA 11113  
gi | 194719394 | ref | NC\_007316.3 | N CTGGAAAACACCTC  
TCTG--AAACCCATCTTGACCTGAGGCTGGACCTTA 13468  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGCAAGTTTTTC  
CCAGG-----GCTGGAGGAAAGCCACCTTTATCTAT 10969

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAGCCCTTCCTC  
ACATCAATGCTAGGTGCGAGGTATCATCATTTCCCAT 18239  
gi | 114795057 | ref | NC\_006483.2 | N AGAAGCCCTTCCTC  
ACATCAATGCTAGGTGTGAGGTATCATCATTTCCCAT 20422



gi | 73957561 | ref | NW\_876316.1 | Cf TGGCAGCATTCA-T  
GTTACGGTGGTACCACGATGAACTTCACTGGTCCTT 11162  
gi | 194719394 | ref | NC\_007316.3 | N AG-AACCTCTGC-C  
TCAGCAATGCTCCATGTGTGGTATCGTTATTCCCAT 13516  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGTCTCCAGAAGA  
GGTGGCCTCACGACCAGCCGGTAGAGCCTGAAGCTG 11019

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTAAAGAGGAGGA  
AACTGTGACTCAGAAAAGT--CAAGCGGCTTGCTGA 18287  
gi | 114795057 | ref | NC\_006483.2 | N TTTAAAGAGGAGGA  
AACTGTGACTCAGAAAAGT--CAAGTGGCTTGCTGA 20470  
gi | 73957561 | ref | NW\_876316.1 | Cf TATTCAGGG----A  
CACGAGGGTTTCTAGTAGT--TAACTG--TTGTAAG 11204  
gi | 194719394 | ref | NC\_007316.3 | N TGTACAGAAGAGAA  
AGCGGAGGCTCAGAGAAGT--CAAAGGGCTTGTTGA 13564  
gi | 149361523 | ref | NC\_000074.5 | \_ AAACCAGGGTGGGA  
CTCTGCTTCCAGGAACACAGGCTTGGTGCTTCCTGG 11069

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTCACACAGCGT  
AGGTGGGGGTAGCTAGACCAGGCCGAGTCTGGGCCT 18337  
gi | 114795057 | ref | NC\_006483.2 | N GGGTCACACAGCGT  
AGGTTCGGTGGGGCCAGACCAGGCCGAGTCTGGGCCT 20520  
gi | 73957561 | ref | NW\_876316.1 | Cf CAATAGTGCCGCAG  
ATGACTTTGAACAGG-TACTATCCTGCAGTGAATAA 11253  
gi | 194719394 | ref | NC\_007316.3 | N GGGTTGCTCGGCTG  
GTAGCTGGGAACCTGGATCAGGGCCCAGATCAGTGA 13614  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTTGCCTTCCCTG  
TCATCCTGG-ACCCAGCTCAGGCCTTGTTACTTCCT 11118

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGATGCCTCCTC  
TACCCTGTTGGCTGCATTTAGGGTTTTTGTGTTGTTT 18387  
gi | 114795057 | ref | NC\_006483.2 | N GGTGATGCCTCCTC  
TACCCTGTTGGCTGCATTTAGGGTTTTT-----T 20563  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
-----TCTGAAAAAGAAATTGCT----- 11272  
gi | 194719394 | ref | NC\_007316.3 | N G-----

-----ACAGTGCCTGGTGATGCT----- 13633  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
-----CTGTGCAGGTCACAGCAG----- 11137  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTGTGGTTTGTG  
GTCCCTAACATTAAAAAATATTCAGGCAGGCCCTTC 18437  
gi | 114795057 | ref | NC\_006483.2 | N GTTTGTGGTTG-TTTG  
GTCCCTAACATTAAAAAATATTCAGGCAGGCCCTTC 20612  
gi | 73957561 | ref | NW\_876316.1 | Cf -----A  
GAACTGGTCAGTCTTAGACTCTGATACTGCCAAATT 11309  
gi | 194719394 | ref | NC\_007316.3 | N -----C  
CTTCCA-CCAGTTTCTGCAGTTAGGGTACCCCCCGC 13669  
gi | 149361523 | ref | NC\_000074.5 | \_ -----G  
TCTTAAGGAAACCCACCTTGTATAGCTGATCCCAGA 11174

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGTTCTTTTGCA  
ATGTTCTTCCCCATTTTCCCACACTGTCTTAAGCTT 18487  
gi | 114795057 | ref | NC\_006483.2 | N TGAGTTGTCTTGCA  
GTGTTCTTCCCCATTTTCCCACATGGTCTTCAGCTT 20662  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTTGAGAAAGCT  
GTGTTCCCCTGGCACTACCTGCTACAGATTTCTTGA 11359  
gi | 194719394 | ref | NC\_007316.3 | N AGCATTAAAAAGCA  
GTGGGCCAGCCCTTTGAGTTCATTTGCATCCCTCTT 13719  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGAGTGGATGACC  
TGGAGCTTCCGGCTCTGTCTGTGAGGCAGGGCGGTG 11224

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gi | 51473102 | ref | NT\_010498.15 | \_ GATTGTCGCCACTC  
ACCTGTGGGCAGTGGGGTTGGGGGTGCAGATCTGAG 18537  
gi | 114795057 | ref | NC\_006483.2 | N GATTGTCGCCACTC  
ACCTGTGGGCAGTGGGGTTGGGGGTGCAGATCTGAG 20712  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCTACCCTAAGAG  
CCAGGTGAACGCTG-----GCACACTTGCG 11398  
gi | 194719394 | ref | NC\_007316.3 | N GCCTCCTGTTG---  
CTCTGCACTCTCAG-----CCCTGCCGCCG 13755  
gi | 149361523 | ref | NC\_000074.5 | \_ GACAGGTGGCACCA  
CTGCCCAACAGGAG-----GTAGGCTCAG 11262

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAAAACTGTTTG  
GCAGTGACGACTATCACTGAACAAGCATGCCGCGCT 18587  
gi | 114795057 | ref | NC\_006483.2 | N GGAAAAACTGTTTG  
GCAGTGACAACACTATCACTGAACAAGCATGCCACGCT 20762  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCTTTT  
TCAGACACACCC-TGGTTTTTCAGTGAGTTTGACTAT 11439  
gi | 194719394 | ref | NC\_007316.3 | N -----TCCTCG  
TGGGTCCCTCCCGTTGCAGCCTCTGCCCTCCCTTCC 13797  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGCT  
CAGGCCTCCTGATCCTGGGACACCACTTGCCCCCTT 11302

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGAGAACCTGAGA  
CTGCGATAACCCCAGACTGAGTTCCACTTCTGAGCA 18637  
gi | 114795057 | ref | NC\_006483.2 | N CTGAGAACCTGAGA  
CTGCGATAACCCCAGACTGAGTTCCACTTCTGAGCA 20812  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTT-----  
TTACATTT--CAGAGTTATTTATCACCTCCTTT--- 11474  
gi | 194719394 | ref | NC\_007316.3 | N CAAG-----  
CTGACATTGGCCCAGTCTTTGATCCTGAGCATC--- 13834  
gi | 149361523 | ref | NC\_000074.5 | \_ CAACAAAGTGGTCA  
CTGCGAATCACCAACCTTTTCGGACAG----- 11342

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gi | 51473102 | ref | NT\_010498.15 | \_ CATTTGGGCACTCG  
TATCTCCTGGAGGGCTTGCATGTGAATGGTCACAGC 18687  
gi | 114795057 | ref | NC\_006483.2 | N CATTTGGGCACTCG  
TATCTCCTGGAGGGCTTGCATGTGAATGGTCACAGC 20862  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTGTGAACTCTTAGGTCATATC 11496  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCAGCCTAGGAAGGCCCTCCCC 13856  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACTTGGAAGCCGGTACTCGCCGG 11365

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTGTCCTATATAA  
AAGCCCAAACCTGGGCCAGGTGCGGTGGCTCGTGCCT 18737  
gi | 114795057 | ref | NC\_006483.2 | N AGTGTCCTATATAA  
AAGCCCAAACCTGGGCCGGGCGCGGTGGCTCGTGCCT 20912  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTTGTCTTTTAA  
AAAAAAAAAAAAAAAAAACAGGAGCTGGTGGTCTTCTGC 11546  
gi | 194719394 | ref | NC\_007316.3 | N TTCTGCTCCAGCTC  
TGCCCAGGCTTAGTCAAGACTGGTTTTTTCCTCCTT 13906  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTGGCAGCTGTGC  
TGGACCAGATGTGCTCAGTAAATATGCAAACCTGGGT 11415

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gi | 51473102 | ref | NT\_010498.15 | \_ GTAATCCCAGCGCG  
TTGGGAGGCCCGAGGCGAGTGGATCACCTAAACTCAG 18787  
gi | 114795057 | ref | NC\_006483.2 | N GTAATCCCAGCATG  
TTGGGAGGCCCGAGGCGAGTGGATCACCTAAACTCAG 20962  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCTTCATG-----  
-----AGTCAGAGCTCTG 11568  
gi | 194719394 | ref | NC\_007316.3 | N GGAATCAGA-----  
-----AGATCTTACTCAG 13928  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGCAGCCG-----  
-----TAAGGGGGACAT 11436

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gi | 51473102 | ref | NT\_010498.15 | \_ GAATTCAAGACCAG  
CCTGACCAACATGGTGAACCCGTCTCTACAAAAT 18837  
gi | 114795057 | ref | NC\_006483.2 | N GAATTCAAGACCAG  
CCTGACCAACATGGTGAACCCGTCTCTACAAAAT 21012  
gi | 73957561 | ref | NW\_876316.1 | Cf CATTTGG-----GT  
GGGGAATCGCAGG-----TGCTT 11595  
gi | 194719394 | ref | NC\_007316.3 | N GGTTCAGATCCGA  
CAGGACGCAAAG-----GGGGT 13960  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTTGGAGACCAAT  
AGACAGACACTG----- 11462

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCCAGGCATGAT  
GGCAGGTGCCTGTAATCCCAGCCACTCAGGAGGCTG 18887  
gi | 114795057 | ref | NC\_006483.2 | N TAGCCAGGCATGAT

GGCAGGTGCCTGTAATCCCAGCCACTCAGGAGGCTG 21062  
gi | 73957561 | ref | NW\_876316.1 | Cf TCGCCAG-----  
----TGTGGTGTGTTGTCCTCAGACTTTG----- 11626  
gi | 194719394 | ref | NC\_007316.3 | N TCAACAG-----  
----AAGTCTCTTGCTGCCTGTTTCACA----- 13991  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----AATGTTCTTCATCCAGATACTTATAG----- 11488

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCAGGAGAATCA  
CTTGAACCAGGGAGGCGGAGGTTGCAGTGAGCCGAG 18937  
gi | 114795057 | ref | NC\_006483.2 | N AGGCAGGAGAATCA  
CTTGAACCAGGGAGGCGGAGGTTGCAGTGAGCCGAG 21112  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGCG  
CATTTTCCAG-----AAGACAGCCCA 11653  
gi | 194719394 | ref | NC\_007316.3 | N -----CCACC  
CAGTTTCGAG-----CTCCGAAGGCAA 14018  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTAGTA  
CATGTCTATG-----CTGACCACCTCA 11516

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTGCGCCATTGCA  
CTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAA 18987  
gi | 114795057 | ref | NC\_006483.2 | N AGTGCGCCATTGCA  
CTCCAGCCTGGGTGACAGAGCGAGACTCTGTCTTAA 21162  
gi | 73957561 | ref | NW\_876316.1 | Cf CGCCCCACTGTTAC  
AGCATGAATG-----TATCAGTTTTTT 11689  
gi | 194719394 | ref | NC\_007316.3 | N CCAGCCCCTGGTCT  
CTGTGCCCTG-----ATTATGCTAGCA 14054  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTCACCCTTGCC  
ACCC-----CTATTTGGGCA 11545

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAAACAAGAAAG  
ATCAAACCTGGACACAAAATGCCAGCCATGTGCACGT 19037  
gi | 114795057 | ref | NC\_006483.2 | N AAAAAAAAAA-AAAG  
ATCAAACCTGGACACAAAATGCCAGCCATGTGCACGT 21211  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTCATGGGCATC  
TGCCTTTGTCTTGTGCTCAGAAAGTCCTTTTCTGCT 11739

gi | 194719394 | ref | NC\_007316.3 | N AACCCATCCTCTTC  
TCCGCTTGGTTATAGACAGGCTAACCTATTGCTCAT 14104  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAATTACATGATG  
ATCCATTACCCTAAACACTTGAAGATGTTTATTCTT 11595

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTTAAATAAACTG  
TGGCATAGCCATGAAGCAGCGTACTTAGAATACTAT 19087  
gi | 114795057 | ref | NC\_006483.2 | N ACTTAAATAAACTG  
TGGCATAGCCATAAAGCAGCATACTTAGAATACTAT 21261  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGATAAAAAAAG  
TGGTCTG----- 11760  
gi | 194719394 | ref | NC\_007316.3 | N GATATGCTTTGCC  
TTTATTT----- 14125  
gi | 149361523 | ref | NC\_000074.5 | \_ AATTGCAATAAAGA  
TTGTATG----- 11616

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGCAACAAAAGA  
GAATGAGTGGCAGTTATTCATGGAAATGCACCAGTG 19137  
gi | 114795057 | ref | NC\_006483.2 | N AAAGCAACAAAAGA  
GAATGAGTGGCAGTTATTCATGGAAAGGCACTAGTG 21311  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCTCACAGCCTA  
TTCCTTCTCCAAGGTTGCGGCCCTCAAGAATAAG 19187  
gi | 114795057 | ref | NC\_006483.2 | N AAGCTCACGGCCTT  
TTCCCTTCTCAAAGGTTGCGGCCCTCAAGAATAGG 21361  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGATTTCTTCTAG  
TACTTTTATATAGGGTTTCTCGTCCTCCT-----A 11803  
gi | 194719394 | ref | NC\_007316.3 | N -TTTTTCCTTCTCA  
GTCTATTGCTAAAGGTACCACCACTTGGG-----A 14168  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTCCTCTCT

GTATCTCCACTCAG-----CCTCGGG-----C 11647

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTTTGCTGGGTTG  
GCCCTTGAGTGCGTCTCCCAAGACAGCCCTTCTCAG 19237  
gi | 114795057 | ref | NC\_006483.2 | N ACCTTGCTGGGTTG  
GCCCTTGAGTGCATCTCCCAAGACAGCCCTTCTCTG 21411  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTGTCCTGATTAT  
G--CTTTTAAGCAAACATCATG-TAACTCCTCCATTT 11850  
gi | 194719394 | ref | NC\_007316.3 | N ATACTGCTGGGCAG  
TGTCTGTTGCTCAGTCCCTCAGTCGCATCTGAATTT 14218  
gi | 149361523 | ref | NC\_000074.5 | \_ ACATTCATGTGGCC  
TCACTGGGGTCTGGAACCTTCTTGTCACCTGCTATA 11697

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGCTCTGGGTAC  
ATTTTAGAATATTAGAATCGCCTGGGGGACTGGGTG 19287  
gi | 114795057 | ref | NC\_006483.2 | N ACAGCTCTGGGTAC  
ATTTTAGAATATTAGAATCGCCTGGGGGACTGGGTG 21461  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGATGAGGGCTGT  
GT-----CTGCCTT----- 11873  
gi | 194719394 | ref | NC\_007316.3 | N GTGACCCTGTGGAC  
TG-----TAGCCCG----- 14241  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCAATGGTTCCTT  
GG-----TTTTCTG----- 11721

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTGGCTGATGCC  
TGTAATCCCAGCACTTTGGGAAGCTGAGGTGGTAGG 19337  
gi | 114795057 | ref | NC\_006483.2 | N TGGTGGCTGATGCC  
TGTAATCCCAGCACTTTGGGAAGCTGAGGTGGTAGT 21511  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CC  
TGTGGTGCCAGGCCTGGG----- 11893  
gi | 194719394 | ref | NC\_007316.3 | N -----CC  
GGGCTCCTCTGTCCGTGG----- 14261  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-ATCTTTCAGGTCCCTGG----- 11738

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTGCTTGAGCCCA  
GGAGTCCAAGGCCAGCCAGCCTGGGTGACATAGTGA 19387  
gi | 114795057 | ref | NC\_006483.2 | N ATTGTTTGAGCCCA  
GGAGTCCAAGGCCAGCCAGCCTGTGTGACATAGTGA 21561  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
TTCTTACACACCATGAGAAGCTGG----- 11917  
gi | 194719394 | ref | NC\_007316.3 | N -----  
AATTCTCCAGGCAAGA-AGACTGG----- 14284  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CT  
GTCTTCCAAGCTCAGTAGAACTTT----- 11764

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gi | 51473102 | ref | NT\_010498.15 | \_ GATCCCATGCCTAT  
TTTTTTTTTTTTTAATAGAAGCACCTGGGGGCTTGTG 19437  
gi | 114795057 | ref | NC\_006483.2 | N GATCCCATCCCTAT  
TTTTTTTTTT--TAATAGAAGCACCTGGGGGCTTGTG 21609  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GGAGTGGATGAG 11929  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AGGGGGTTGCCG 14296  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTAGTT 11770

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGCCCTGATGGCC  
TCACTCATCTGCTGGTCTCGGGTGAGCCCACAGCAG 19487  
gi | 114795057 | ref | NC\_006483.2 | N GAG-----  
-----TGCTGGTCTCGGGGGAGCCCACAGCAG 21639  
gi | 73957561 | ref | NW\_876316.1 | Cf GGG-----  
-----CCCAACAAGG 11942  
gi | 194719394 | ref | NC\_007316.3 | N TTT-----  
-----CCTACTCCAG 14309  
gi | 149361523 | ref | NC\_000074.5 | \_ TTT-----  
-----CAAGTCAAG 11782

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTGTTTTTTGTAA  
GAACCAGCAGCAACTTTTGGCCAGGCAGGTGCAGTG 19537



gi | 114795057 | ref | NC\_006483.2 | N GTGTGTTTTTATAA  
GAACCAGCAGCAACTTTTGGCCAGGCAGGTGTGGTG 21689  
gi | 73957561 | ref | NW\_876316.1 | Cf GATCATTTGAAGAG  
-----AGGAGCCTCAGGATCAGACTCAGGCTGGT 11985  
gi | 194719394 | ref | NC\_007316.3 | N GATCCTTCCCG---  
-----ACCTCAGGATCGAACCGGTGTCTCT 14345  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTTCTCTGTGTAG  
-----CCCTGGCTGTCCTGGACTTTCT 11818  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTCACGCCTGTCA  
TCCCAGCACTTTGGGAGGCCGAGGTGGGTAGATCAC 19587  
gi | 114795057 | ref | NC\_006483.2 | N GCTCACGCCTGTCA  
TCCCAGCACGTTGGGAGGCCGAGGTGGGTAGATCAC 21739  
gi | 73957561 | ref | NW\_876316.1 | Cf TACAATGGCCACGG  
CACAGG----- 12006  
gi | 194719394 | ref | NC\_007316.3 | N TTTGTCTCCTGCAT  
TGCAGGCGGATT----- 14371  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGTAGACCAGGCT  
GGCCTC----- 11839  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGAGGTCAGGAGA  
CCAGCCTGGCCAAATGGTGAAATCCTGTCTCTACTA 19637  
gi | 114795057 | ref | NC\_006483.2 | N CTGAGGTCAGGAGA  
CCAGCCTGGCCAAATGGTGAAATCCTGTCTCTACTA 21789  
gi | 73957561 | ref | NW\_876316.1 | Cf CATTGGCTCGGCCA  
CCACCAAGGGGAAGCCTGTGCGGTTGGAAGCACCAT 12056  
gi | 194719394 | ref | NC\_007316.3 | N CTTTACCACTAGCG  
CCACCTAGG-----AAGCGCGCCAAAATCTCTCT 14414  
gi | 149361523 | ref | NC\_000074.5 | \_ --AATTCACAGACA  
TCCACCTGCCTCTGCCTCCCAAGTGCTGGTATTAAC 11887  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATACAAAATT  
AGCTGGGCATGGTGGCAGGTACCTGTAACCTAGCT 19687  
gi | 114795057 | ref | NC\_006483.2 | N AAAATACAAAATT  
AGCTGGGCATGGTGGCAGGTACCTGTAACCTCCAGCT 21839  
gi | 73957561 | ref | NW\_876316.1 | Cf GTTCTGTAACGTGT

GACTGTACCTTCCAGCCGCTGCCC-----CTGCA 12099  
gi | 194719394 | ref | NC\_007316.3 | N TGTATTCGTCTCCA  
TCCTCACGGGTGAAGAAGGTGCCT-----CAGTG 14457  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTGTGTGCTACCA  
TGCTCATCTG-----AGGTCCCTG-----AAGAT 11925  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCGGGAGACTGA  
GGCAAGAGAATGGCTTGAACCCGGGAGGCAGAGGTT 19737  
gi | 114795057 | ref | NC\_006483.2 | N ACTCGGGAGACTGA  
GGCAGGAGAATGGCTTGAAGCCGGGAGGCAGAGGTT 21889  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGT-CTGCATAG  
G-----CTCTTGTCCTTGGA----- 12128  
gi | 194719394 | ref | NC\_007316.3 | N ATAATGCTGTGTAA  
G-----AACTTGTATTTG----- 14484  
gi | 149361523 | ref | NC\_000074.5 | \_ CTAAAGATTCCAA  
G-----CTTATAACTTTGTGG----- 11955  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGTGAGCCGAGA  
TCACGCCACTGCACTGCAGCCTGGGTGAAAGAGCGA 19787  
gi | 114795057 | ref | NC\_006483.2 | N GCACTGAGCCAAGA  
TCACGCCACTGCACTGCAGCCTGGGTGAAAGAGCGA 21939  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCCCTCCCTCCGGTCCTGGTCCTG----- 12152  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCTTCACAGCTTTGTTGGTGATG----- 14508  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AATATTCCCCCATTGTTGGCTGGTCTG---- 11982  
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gi | 51473102 | ref | NT\_010498.15 | \_ GACTCTGTCTCAAA  
AAAAAAAG-AAAGAAAAACTAGTATCAACCTTTGAA 19836  
gi | 114795057 | ref | NC\_006483.2 | N GACTCTGTCTCAAA  
AAAAAAAGAAAGAAAAACTAGTATCAACTTTTGA 21989  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCATAGCTCCTGGCA 12167  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ACTTCGCCATTTG-- 14521

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GTGTTTCCTCAGATA 11997

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gi | 51473102 | ref | NT\_010498.15 | \_ CACATCAGTCAGAG  
TCCTCTACAGAACTTGCTGGAACACAGACTGTCTGC 19886  
gi | 114795057 | ref | NC\_006483.2 | N TACATCAGTCAGAG  
TCCTCTATAGAACTTGCCAGAACACAGACTGTCTGC 22039  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCAGGG-----  
--GTATGGAGACCTTCCGG--GCAGCTCCTTCTTCC 12206  
gi | 194719394 | ref | NC\_007316.3 | N CCCAAAA-----  
--CTCAGCTCACCTTCTT--CCTCAGTCAGGTTTC 14560  
gi | 149361523 | ref | NC\_000074.5 | \_ CACATTAG-----  
--GTCTACTCTCTAAAGGG--CCTTGTGGAGGGTGT 12037

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACCCCTAGGGCT  
TCTGAGGTAGTAGGCCAGGGTAGGGCCTGAGTTTC 19936  
gi | 114795057 | ref | NC\_006483.2 | N CCACCCCTAGGGCT  
TCTGAGGTAGTAGGCCAGGGTAGGGCCTGAGTTTC 22089  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTTCCCTCCCTGC  
TTC-----CCTCCCTCCCACAAACATTTT 12244  
gi | 194719394 | ref | NC\_007316.3 | N ACATGCGTTCAGTT  
TCT-----GCCTTCTCCTTCTCAAGTGCT 14598  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGTGTGCTCACTG  
TGTG-----CTGAGGTCAGCCTTGAGTTGG 12076

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCATTTCTAACAA  
TTTCCAGGTGATGCTGGCCTGAGGCCATACTCTGA 19986  
gi | 114795057 | ref | NC\_006483.2 | N TGCATTTCTAACAA  
TTTCCAGGTGATGCTGGCCTGAGGCCATACTCTGA 22139  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAGCACCTTTTAT  
TTGCAGTGCTGTACTGGGCATTGGGGTGTATGCTGG 12294  
gi | 194719394 | ref | NC\_007316.3 | N TCTCTGTCTTCACT  
GTCCCTGTTGATCCT---CTTTAGCTCCTGAACTTT 14645  
gi | 149361523 | ref | NC\_000074.5 | \_ GCGTTTCCTCTATT  
CCACTTTCTGAAACTG--AGTTTCTCACTGAACTTG 12124

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gi | 51473102 | ref | NT\_010498.15 | \_ GAATCCTGGAATAA  
 GATAAAACTAGAGAATAACCCAGATCTGTGCCTTGGG 20036  
 gi | 114795057 | ref | NC\_006483.2 | N GAATGCTGGACTAA  
 GATAAAACTAGAGAATAACCCAGATCTGTGCCTTGGG 22189  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATATGAGCAGCTGC  
 TCCCCACCAGG---CTGCCGGTCCAGTGCTGGATG 12341  
 gi | 194719394 | ref | NC\_007316.3 | N CCAGGCCTCTCTTC  
 TCCTCCTCAT-----TTTCATCATCAGTACTGAATG 14690  
 gi | 149361523 | ref | NC\_000074.5 | \_ GAGCTCGCTGTTTC  
 TGCTGCATCG-----TCTGCCTCTGCGCC----- 12162

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGAAGGATAGAG  
 AAGCCTTGAAAGAAGGAAGCATCTGCCTGAGTGTG 20086  
 gi | 114795057 | ref | NC\_006483.2 | N AGAGAAGGATAGAG  
 AAGCCTTGAAAGAAGGAAGCATCTGCCTGAGTGTG 22239  
 gi | 73957561 | ref | NW\_876316.1 | Cf T-----GGACACAT  
 GGACCCAGGCATGCTGGCACAGG---GAGGACGGGG 12383  
 gi | 194719394 | ref | NC\_007316.3 | N G-----ATCCAGGG  
 CAGCCAGGGACTGCTTGTTCCTCCACGGTCAGTC 14735  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----CC  
 CAGCACTGGGACTACAGACATGTACCGCTGTGTGTG 12200

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTATTTGGGTGT  
 GTGTCTCCAATGTCACCCTTGTGTCAGGAAGCCCCTC 20136  
 gi | 114795057 | ref | NC\_006483.2 | N GCTTATTTGGGTGT  
 GTGTCTCCAATGTCACCCTTGTGTCAGGAAGCCCCTC 22289  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----AGTCTGGGAGCTCAGAG 12400  
 gi | 194719394 | ref | NC\_007316.3 | N -----  
 -----AGTCAGTCAGTTCAGTC 14752  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----GCTTTTACATGCATGC 12216

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gi | 51473102 | ref | NT\_010498.15 | \_ GATTGTTTTGTTCT

TGTGTCATTCTGACTCTTGCATTGATTCTCTCCAAA 20186  
gi | 114795057 | ref | NC\_006483.2 | N GATTGTTTTGTTCT  
TGTGTCATTCTGACTCTTGCATTGATTGTCTCCAAA 22339  
gi | 73957561 | ref | NW\_876316.1 | Cf AATGAG-----  
-TTCCTTGCAGGGCCCATGATGGGTGGTATGTCAG- 12440  
gi | 194719394 | ref | NC\_007316.3 | N ACTCAGGCGTGTCT  
GACTCTTTGCGACCCCATGAATCGCAGCACGCCAGG 14802  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGTGG-----  
-GCACTGAACTCTGATCCTCATGGCTGTGCTCCAAG 12257

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCATCGATCCCAA  
TAATTACGTGCCCTATATTGTGAAATTCTTTTTTTTG 20236  
gi | 114795057 | ref | NC\_006483.2 | N GGCATCGATCCCAA  
TAATTACGTGCCCTATATTGTGAAATTCTTTTTTTTG 22389  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGTCTT  
TGGGCTGCTGCAACAAAT----- 12464  
gi | 194719394 | ref | NC\_007316.3 | N --CCTCCCTGTCCA  
TCACCAAGTCCCGGAGTT----- 14832  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCCT  
TTACCAGGTCCCCAGTGT----- 12279

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTGTTTTATTTTC  
TG-----TTTTTGTTTTTTGAGATGGAGTCTCGCT 20280  
gi | 114795057 | ref | NC\_006483.2 | N TTTTGTTTTGTTTTC  
TGTTTCTGTTTTTGTTTTTTGAGATGGAGTCTCGCT 22439  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AACC 12468  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CACT 14836  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTT 12283

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTTGCCAGGCTA  
GAGTGCAGTGGTGCAATCTTGGCTCACTGCTACCTC 20330  
gi | 114795057 | ref | NC\_006483.2 | N CTGTTGCCAGGCTA  
TAGTGCAGTGGTGCAATCTTGGCTCACTGCTACCTC 22489

gi | 73957561 | ref | NW\_876316.1 | Cf CTGAACCTG-----  
--GTGGTAGAAAACAACACAAATTCATT-GTCTCAC 12510  
gi | 194719394 | ref | NC\_007316.3 | N CAGACTCACGTCCA  
TCGAGTTAGTGATGCCATCCAGCCATCT-CATCCTC 14885  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGATGCTG-----  
-----AGTGTCCCATTTGCTGGTGGTGGCAGCTCC 12321  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGCCTCCTGGGTTC  
AAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG 20380  
gi | 114795057 | ref | NC\_006483.2 | N CGCCTCCCTGGTTC  
AAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG 22539  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTTGTGGAGGTCA  
G-ACGTGTGACACGGGTCTCCCTGGG-----TTAAA 12554  
gi | 194719394 | ref | NC\_007316.3 | N TGTCGACCTCTTCT  
CCTCCTGCCCCCAATCCCTCCAGCA-----TCAGA 14930  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGCCTGAACCAGG  
ACTGATGTGTCCCTCTCTGGCCTGCATG---GGTGA 12368  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTACAGGTGGGC  
GCCACCATGCTCGGCTAATTTTTGTATTTTTAGTAG 20430  
gi | 114795057 | ref | NC\_006483.2 | N GGCTACAGGTGGGC  
GCCACCACGCTCGGCTAATTTTTGTATTTTTAGTAG 22589  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCAGGGTGTGGGC  
AGGGCCGCACTCC----- 12581  
gi | 194719394 | ref | NC\_007316.3 | N GTCTTTTCCAATGA  
GTCAACTCTTTAC----- 14957  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCTTGCCCGAGGA  
AAAGCGTGATGAG----- 12395  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGATGGGGTTTCAC  
CATGTTACCCAGGATGGTCTCAATCTCTTGACCTCG 20480  
gi | 114795057 | ref | NC\_006483.2 | N AGATGGGGTTTCAC  
CATGTTAGCCAGGATGGTCTCGATCTCTTGACCTCG 22639  
gi | 73957561 | ref | NW\_876316.1 | Cf --CTCTGGGGACTC  
CAG-----GATG--AATCTGTGTCCTGACCTCC 12619  
gi | 194719394 | ref | NC\_007316.3 | N --ATGAGGTGGCCA

AAG-----TACTGGAGTTTCAGCATTAGCATCA 14997  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGATGTCCC  
AAT-----CCCAGTTCAGCCACTTCC 12427

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gi | 51473102 | ref | NT\_010498.15 | \_ TGATCCACCCAAAG  
TGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCC 20530  
gi | 114795057 | ref | NC\_006483.2 | N TGATCCACCCAAAG  
TGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCC 22689  
gi | 73957561 | ref | NW\_876316.1 | Cf T--TCCAGCTTCCG  
AGG----- 12634  
gi | 194719394 | ref | NC\_007316.3 | N T--TCCTTCCAAAG  
AAAT----- 15013  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGCCGCCT----  
----- 12437  
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gi | 51473102 | ref | NT\_010498.15 | \_ TATATTGTGAAATT  
CTTGAAGGATTGGGGCTGGAGGATTCACTAGGCCCA 20580  
gi | 114795057 | ref | NC\_006483.2 | N TATATTGTGAAATT  
CTGGAAGGATTGGGGCTGGAGGATTCACTAGGCCCG 22739  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GTGGTCTG----- 12642  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCAGGGCTG----- 15023  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTTCTTTCTCTG  
CCTCTTCTCTTTCTCTGAAACCCCCAGGGGCCAAGT 20630  
gi | 114795057 | ref | NC\_006483.2 | N GGG--CTCTCTCTG  
CCTCTTCTCTTTCTCTGAAACCCCCAGGGGCCAAGT 22787  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----CATTCCTTCCCTGTGGCCCATCCT----- 12666  
gi | 194719394 | ref | NC\_007316.3 | N -----  
----ATCTCCTTCAGAATGGACCAGTTG----- 15048  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTCTCCCCGCCCCTTGAG----- 12456

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTTCACAACCT  
AAGGCATTTGGGATTCCCACATGAGCCGTTTTCTTG 20680  
gi | 114795057 | ref | NC\_006483.2 | N GCTTTCACAACCT  
AAGGCATTTGGGATTCCCACATGAGCTGTTTTCTTG 22837  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGCCT  
TCAAAGCCAGGAATCCTCTC----- 12692  
gi | 194719394 | ref | NC\_007316.3 | N -----ACCTCCTT  
ACAGTCCAAGGGACTCTCAAGA----- 15078  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCATCCC  
CACATGTGTG----- 12473

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTTCTCAGCACC  
TTCATGCCTGTTCTTCCCTCAGCCCAGAAGGCCCT 20730  
gi | 114795057 | ref | NC\_006483.2 | N ---TTCTCAGCACC  
TTCATGCCTGTTCTTCCCTCAGCCCAGAAGGCCCT 22884  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ACTCCCA  
CTCTGTTCTATTCT-----CA 12716  
gi | 194719394 | ref | NC\_007316.3 | N -----GTCTTCTCC  
AACACCACAGTTCA-----AA 15103  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGCACA  
TGCATTCTGGTTTG-----ACT 12496

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gi | 51473102 | ref | NT\_010498.15 | \_ CATTCCAGTACCTC  
TCTCAACTGCTTTCTCACAATTCCTGGGTGCCTTTC 20780  
gi | 114795057 | ref | NC\_006483.2 | N CATCCCAGTACCTC  
TCTCAACTGCTTTCTCACAATTCCTGGGTGCCTTTC 22934  
gi | 73957561 | ref | NW\_876316.1 | Cf CATCCCCTCTCCAC  
CCCCTGCCTCCTTCTTACAAGAACC----- 12755  
gi | 194719394 | ref | NC\_007316.3 | N AGCATCAATTCTTC  
GGCGCTCAGCCTTCTTCACAGTCC----- 15141  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGTTCGTGTCTGC  
TGCTGTCAGTATTCACCTGCGGCTTG----- 12535

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGATTCCCCGCGA  
TCTGCACTGGGGCCCCGCCATCTCCTTCGTGTTAG 20830  
gi | 114795057 | ref | NC\_006483.2 | N TAGATTCCCCGCGA  
TCTGCACTGGGGCCCCGCCATCTCCTTCGTGGTTAG 22984  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTG  
TGAGCACACAGGGCCCTCCGGGATCATCCGGGATCA 12794  
gi | 194719394 | ref | NC\_007316.3 | N -----  
--AACTCTCACATCCATACATGATCACAGGAAAAAC 15175  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---CTCTAGGTGCCAGTTTTGGCTTGTGAGAGAC 12567

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCACCCC----A  
GGAGGGCGTGACCACCACGCGAGTTTTGAGCATCTC 20876  
gi | 114795057 | ref | NC\_006483.2 | N CTGCACCCC----A  
GCAGGGCGTGACCACCACGCGAGTTTTGAGCATCTC 23030  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCCCCAG----C  
TCAAGACCTCAACTTAACAACCCC-TGCAGAGTCCC 12839  
gi | 194719394 | ref | NC\_007316.3 | N CATAGCCTT----G  
ACTAGACGAACCTTTGTTGGCAAAGTAATGTCTCTG 15221  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTCATAAGGTCC  
CCTTGTCCTTCTAGCCTTCCCCAGAAGCAGGTGAGC 12617

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGGCTTGTTCATG  
CCTCTGGTGTGTCGATTTACACATGACACACAGT 20926  
gi | 114795057 | ref | NC\_006483.2 | N TCGGCTTGTTCATG  
CCTCTGGTGTGTCATCAGATTTACACATGACACACAGT 23080  
gi | 73957561 | ref | NW\_876316.1 | Cf CT-----  
----- 12841  
gi | 194719394 | ref | NC\_007316.3 | N CT-----  
----- 15223  
gi | 149361523 | ref | NC\_000074.5 | \_ CCG-----  
----- 12620

gi | 51473102 | ref | NT\_010498.15 | \_ CATGGTTGAATTTTC  
AAACAATAAG-----TGCACGCTTGTCCCATGCGGT 20971  
gi | 114795057 | ref | NC\_006483.2 | N CGTGGTTGAATTTTC

AAACAATAATTTAAGTGCACGCTTGCCCCATGCGGT 23130  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTGC  
CAAGTGAG----- 12853  
gi | 194719394 | ref | NC\_007316.3 | N -----TTTG  
AATATGCT----- 15235  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTGA  
AATGGGAAG----- 12633

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCGTGT-----  
-----ATACTGGAAAATCATCTGGTGTTTATCTGG 21009  
gi | 114795057 | ref | NC\_006483.2 | N ACTCGTGTGTGTGT  
GTGTGTATACTGGAAAATCATCTGGTGTTTATCTGG 23180  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GTCACG--TGGTCACAGGCTTC 12873  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ATCTAGGTTGGTCATAACTTTC 15257  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAATACTAAGCTGGACTCACGAGAA 12658

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTGCAAAGGTAAC  
TGGCATCTGTATTTTCGTTTCTTAAACGCGGCAGCC 21059  
gi | 114795057 | ref | NC\_006483.2 | N AGTGCAAAGGTAAC  
TGGCATCTGTATTTTCGTTTCTTAAACGCGGCAGCC 23230  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGGATCAG-----  
-GACAGGG-----ACATCTCTTGGCATCATTTCAGG 12911  
gi | 194719394 | ref | NC\_007316.3 | N CTTCCAAGG-----  
-AGTAAGCGTCTTTTAATTTTCATGGCTGCAGTCACC 15301  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGCCTTG-----  
-----TCTCTTAGATCCTGGTGTGCATTTTGC 12694

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTTCGGGCCCT  
TGGTGTCTCTAAGGACGAGGACTCCTGCTGTCCCC 21109  
gi | 114795057 | ref | NC\_006483.2 | N CTCTTCGGGCCCT  
TGGTGTCTCTAAGGACGAGGACTCCTGCTGTCCCC 23280  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCAGCT----TCT  
CCTCC-CCGCTCCCACCAGCCTCTTCCCTTACTCCC 12956

gi | 194719394 | ref | NC\_007316.3 | N ATCTGCAGTGATTT  
TGGAG-CCCCAAAAATAAAGTCTGACACTGTTTCC 15350  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAGGCCTCTGGGT  
TGAGAAACAAACAAAAAATCTCTCTGTCTTTGCTA 12744

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTCTGGTCACCG  
-----CTGTCACCCTAAG----GCCCTCAGTGCTCC 21150  
gi | 114795057 | ref | NC\_006483.2 | N ACCTCTGGTCACCG  
-----CTGTCACCCTAAG----GCCCTCAGTGCTCC 23321  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCGGAGGTTCCAG  
-----AAAGTCATG----TTTCTCTCTGTGCTTT 12995  
gi | 194719394 | ref | NC\_007316.3 | N TCCACAGTACCCAT  
CCTTATTAGTGGCATGGGGGTTGTTTCCAGTGCTTA 15400  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGGATGAAGGGG  
-----GTGTGTGTATG----CACACACTGTTTG 12782

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGTGCTGGGCTC  
TGTGCTGGGAACTTCACTCTCACTGTTTCCT----- 21195  
gi | 114795057 | ref | NC\_006483.2 | N GTGGTGCTGGGCAC  
CGTGCTGGGAACTTCACTCTCACTGTTTCCTATTTT 23371  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCCCTTCTG-CCC  
TCTG-----CTCAGCACAATTCCCC----- 13028  
gi | 194719394 | ref | NC\_007316.3 | N GTTGATAACAGGCAC  
TGTGGCAGTGGCTGACTTTGAACAGAAATCA----- 15445  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTATACTCAGCCT  
TGTG-----TCTGTGCATATATACAC----- 12817

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gi | 51473102 | ref | NT\_010498.15 | \_ -TTTTTTTTTTTTTTT  
TTTTGAGATGGAGTTTAGCTCTGTCACCCAGGCTGG 21244  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTTTTTTTTTTTT  
TTTTGAGATGGAGTTTAGCTCTGTCACCCAGGCTGG 23421  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TCTAGATG  
TTTTCTCATGTTTTTATGGAGCAGTGACAAGTGCCGG 13072  
gi | 194719394 | ref | NC\_007316.3 | N -----TTCTGCAG  
--TAAATGAGTCTGCAAAAGAAATGACTAGAACAGG 15487  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCGTACAT

TTCAATCCCATAAATCCCAAACAGCCCGTGTCCACT 12861

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTACGGTGGCGCT  
ATCTCCGCTCACTTCAACCTCTGCCTCCTGGGTCCA 21294

gi | 114795057 | ref | NC\_006483.2 | N AGTGCAGTGGCGCT  
ATCTCAGCTCACTTCAACCTCTGCCTCCTGGCTTCA 23471

gi | 73957561 | ref | NW\_876316.1 | Cf TCCGGGAGGCAGCC  
AGTTCAGCCATCT-----CTCTTCATCTGCGGGATA 13117

gi | 194719394 | ref | NC\_007316.3 | N TCCG-TTTTCAGCT  
T-TTAGAAAATAT-----TTATTTGTTTTAGGCTGT 15530

gi | 149361523 | ref | NC\_000074.5 | \_ CCCTGAGCACTTCT  
TGGTTACAGGGCT---ATTTCTGAATCACATGGTTT 12908

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAGTTCTCCTGC  
CTCAGCCTCCCGAGTAGCTGGGACTACAGGCATGTG 21344

gi | 114795057 | ref | NC\_006483.2 | N AGCAGTTCTCCTGC  
CTCAGCCTCCCGAGTAGCTGGGACTACAGGCATGTG 23521

gi | 73957561 | ref | NW\_876316.1 | Cf G--GGATGAAGA--  
--CTGCCTCCAT--CTCAAAGGGTTGCAGGGATGAT 13159

gi | 194719394 | ref | NC\_007316.3 | N GGTGGGTCTTTG--  
--TTGCCACGTGGGCTCTTGTGACAAGAAGGGTGTT 15576

gi | 149361523 | ref | NC\_000074.5 | \_ ACCTGTGTGTGAG-  
--CGGTCTCCTTCCCTTGACAGCTATGTGTTGGTTT 12955

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gi | 51473102 | ref | NT\_010498.15 | \_ CTATCACGTTTGGC  
TAACTTTTTTGTATTTTGTAGTAGAGACAGGGTTTCA 21394

gi | 114795057 | ref | NC\_006483.2 | N CTATCACGTTTGGC  
TAACTTTTTTGTATTTTGTAGTAGAGACAGGGTTTCA 23571

gi | 73957561 | ref | NW\_876316.1 | Cf TTAATGAGCTTGTA  
GGTGTCAAATGCTATAACAAGATCT-----CT 13199

gi | 194719394 | ref | NC\_007316.3 | N TTTCTCTAGTTGTG  
ACGAGCGGGGCTCTTCTATAGTTGCGACGTGGGCT 15626

gi | 149361523 | ref | NC\_000074.5 | \_ CCAATTACTTTGGC  
TGCCACTCAGCCCAGCTGTGTCCC-----CT 12995

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gi | 51473102 | ref | NT\_010498.15 | \_ CCATGTTGGCCAGG  
CT-GCTTTCGAACTCCTGACCTCTAATGATCCACCC 21443  
gi | 114795057 | ref | NC\_006483.2 | N CCATGTTGGCCAGG  
CC-GCTTTCGAACTCCTGACCTCTAATGATCCACCC 23620  
gi | 73957561 | ref | NW\_876316.1 | Cf GATATCAAAATGTT  
AG-ATGTTCTGTCTCTTGTATCATTGCATTACATG- 13247  
gi | 194719394 | ref | NC\_007316.3 | N CTTCTCTCGTTGTG  
AC-AATCAGGGGCTCTTCTCTCGTTGTGATGAGCGG 15675  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTCCCTGGCAATG  
CTGTCCCTCTTGAACAGCACACATGGTGGGTCATG- 13044

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTCAGTCTCCCA  
AAGTGCTGGGATTACAGGCCTGAGCCACCATGTCCA 21493  
gi | 114795057 | ref | NC\_006483.2 | N ACCTCAGTCTCCCA  
AAGTGCTGGGATTACAGGCCTGAGCCACCATGCCCA 23670  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTGCTAGGG  
TTGTGACAT-----TTTATCCTCA 13275  
gi | 194719394 | ref | NC\_007316.3 | N GGGCTCTTCTCTCA  
TTGTGACGAGCGAGGG-----CTCTTCTCTAG 15716  
gi | 149361523 | ref | NC\_000074.5 | \_ ----ATGTGTCTTA  
CTGAGAG-----CTGAATTCTCC 13072

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCTCACTTTCCTT  
TATCCCACGGCAGCCCTGTGGACCCCGGCTGTTATA 21543  
gi | 114795057 | ref | NC\_006483.2 | N GTCTCACTTTCCTT  
TATCCCACGGCAGCCCTGTGGACCCCGGCTGTTATA 23720  
gi | 73957561 | ref | NW\_876316.1 | Cf TTATGACCTATTAG  
CTGTTCTCAGCCATCTCTT---CATTGGGCATCTCT 13322  
gi | 194719394 | ref | NC\_007316.3 | N TTGCGACGTGCAGG  
CTTCTCACTGCAGGGGCTT---CTCTCTCTGTGGAG 15763  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTAGGCCTTGCCT  
CATACACACACACACACACACACACACACACATG 13122

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTTAGCCCCCA  
CATTCCAGGGGAGGAAACTGAGGCACGGGCTAGGCT 21593

gi | 114795057 | ref | NC\_006483.2 | N CCCTTAGCCCCCA  
CATTCCAGGGGAGGAAACTGAGGCACGGGCTAGGCT 23770  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCTCTTGTCTGCC  
CAACATCTAGAAGGACATGGGGGCACC----- 13363  
gi | 194719394 | ref | NC\_007316.3 | N CACAGGCTCCAGGG  
CTTCGGTATTTGCAGCGTGTGGGCTCAG----- 15805  
gi | 149361523 | ref | NC\_000074.5 | \_ CACACACGCACACG  
CACCCCTCCACATGCTTACAG----- 13158

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGGTCAAATATGT  
TGAAGCAATGCATGTCTGCATAAGCCCTCTAACAGG 21643  
gi | 114795057 | ref | NC\_006483.2 | N TTGGTCAAATATGT  
TGAAGCAGTGCATGTCTGCATAAGCCCTCTAACAGG 23820  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGC  
TGCCTCAGGTCTCATCCTCACCCCTCCCCTAGGAAG 13402  
gi | 194719394 | ref | NC\_007316.3 | N -----TAGTTGT  
GGCTCCCGGGCTCCAGAGCACAGCCTCTGTAGCTGT 15848  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TGCATACACATCCACATACATACTCACACA 13190

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGATCATTAGGG  
TCTAACGCAGTCCAAGTTCGCAATGAACCGAATCCC 21693  
gi | 114795057 | ref | NC\_006483.2 | N GAAGATCATTAGGG  
TCTAACGCAGTCCAAGTTCGCAATGAACCGAATCCC 23870  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----CAGAAGGAACACTTC----- 13417  
gi | 194719394 | ref | NC\_007316.3 | N GGC-----  
----ACACAGGCTTAGTTG----- 15866  
gi | 149361523 | ref | NC\_000074.5 | \_ C-----  
----ACACACGCATAAGTG----- 13206

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGCTGGACGGGA  
GGGCGCCACAGCGGGGCTGGACTGAGGGAGGCTGTT 21743  
gi | 114795057 | ref | NC\_006483.2 | N GGGGCTGGACGGGA  
GGGCGCCACAGCGGGGCTGGACTGAGGGAGGCTGTT 23920  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----CTGCTTG----GACTG----- 13429  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTGCAGG----GCATGTGGGA----- 15883  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGCCCGGAGGTGCC  
GCTGGCTCCCTTGCTCTGGAGTGAGCTCACAGCTCC 21793  
gi | 114795057 | ref | NC\_006483.2 | N CGCCCGGAGGTGCC  
TCTGGCTCCCTTGCTCTGGAGTGAGCTCACAGCTCC 23970  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----ACTCCACAGCTCT-----CCCAG---- 13447  
gi | 194719394 | ref | NC\_007316.3 | N -----  
----TCTCCCTGGATCAGGTATCG--AACCTGGGTC 15913  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----CACACAT-----ACCTGCATG 13222

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTCACCTTTCAG  
CAAGGGCCATACGTGCACTTCGTGGTCCCCTCGGGA 21843  
gi | 114795057 | ref | NC\_006483.2 | N AACTCACCTTTCAG  
CAAGGGCCATACGTGCACTTCGTGGTCCCCTCGGGA 24020  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCAGCACTCACAG  
CTTGGGGCTTGG-----TCCATTGGCCATGG---- 13487  
gi | 194719394 | ref | NC\_007316.3 | N TCCTGCACTGGCAG  
GTGGATTCTTTG-----CCTGAGCCACCAGGGA 15957  
gi | 149361523 | ref | NC\_000074.5 | \_ CATGCAAATACATG  
CATG-----CACATGCATACTCTAGAC 13258

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCTCTGGTAGGTT  
AAACGTCAGTCCTGAGCTGCGCTTGTTGGGTGCAGC 21893  
gi | 114795057 | ref | NC\_006483.2 | N GCCTCTGGTAGGTT  
AAACGTCAGTCCTGAGCTGCGCTTGTTGGGTGCAGC 24070  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCTTTCTCTCCAA  
GATGGTGGCCCCCTTAAGACC-----AAGACCCCA 13530  
gi | 194719394 | ref | NC\_007316.3 | N ATCTCGGTCTTTAT  
GGAAATCACCTATTCTGGACGTTTCATAAAAACCGA 16007

gi | 149361523 | ref | NC\_000074.5 | \_ ACCACTGCAGCCCA  
GGCAGGAGCTCGTTGTCCGCCTTGACCTTAGGCTGC 13308

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCTTGGAAACC  
TTTCTCTTCTAGGCCGTTTCCTTGGGGCTAGGGAGG 21943

gi | 114795057 | ref | NC\_006483.2 | N TTCTCTTGGAAACG  
TTTCTCTTCTAGGCCGTTTCCTTGGGGCTAGGGAGG 24120

gi | 73957561 | ref | NW\_876316.1 | Cf TAGGATTGCTGTC-  
-----TCCCAGCCAGGCATCCTCAGATTGG----- 13568

gi | 194719394 | ref | NC\_007316.3 | N GTCAAGTGATAACG  
TGGCCTTTTGTGTCTGTCTTCATCAGCATGAGGTTT 16057

gi | 149361523 | ref | NC\_000074.5 | \_ AGCTGGGGCTGTC-  
-----TCTCGGCAGTCTCGG----- 13336

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCGCTCACCGTC  
GCCCCGCGTGGGTCTATCTGCAGCAGGCAAATAACAT 21993

gi | 114795057 | ref | NC\_006483.2 | N CTGCGCTCACCGTC  
GCCCCGCGTGGGTCTATCTGCAGCAGGCAAATAACAT 24170

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCTGGCTGCA-TATAAGAAT----- 13588

gi | 194719394 | ref | NC\_007316.3 | N TTGA-----  
-----GGTCTATCTGTG-TTGGAGAATGTTGT 16087

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGTATGCTCTTACTGAGTT---- 13356

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGGGGGTTCCAA  
AGGAGGCACAGACACAGAAGATGGATGTGAAGTAGG 22043

gi | 114795057 | ref | NC\_006483.2 | N CTTGGGGGTTCCAA  
AGGAGGCACAGACACAGAAGATGGATGTGAAGTAGG 24220

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CACCCAGGGCTTTTAGGACTCCTGCTAT 13616

gi | 194719394 | ref | NC\_007316.3 | N TTCCTAGGGTTAAT  
GAGCAGAGCACCCCAGACTATGACGGCTTCAAGCAA 16137

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CATACCACAGGGTGGCTCACCAGGATTTAA 13386



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gi | 51473102 | ref | NT\_010498.15 | \_ CGGGACCGTGACGT  
 CCATAGAGACAGGAAGCAGATGAGTCGTTCCGGAGG 22093  
 gi | 114795057 | ref | NC\_006483.2 | N CGGGACCGTGACGT  
 CCATAGAGACAGGAAGCAGATGAGTCGTTCCAGGAGG 24270  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTGAGCCCCACTCC  
 TTGGTTGGCCTGG-----AGA 13646  
 gi | 194719394 | ref | NC\_007316.3 | N CAGAAATTTACTCT  
 CTCACAGTTCCGGGGCCAGATGTCCAAGATCGCAGT 16187  
 gi | 149361523 | ref | NC\_000074.5 | \_ GAAAGCCATGGGCT  
 TTGCTG-----AAG 13409

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGAAAGGGCGTG  
 GGGAGTGCCTGCTTCCTGGGCACAGGATTTTCCTCT 22143  
 gi | 114795057 | ref | NC\_006483.2 | N CTAGAAAGGGCGTG  
 GGGAGTGCCTGCTTCCTGGGCACAGGATTT-CCTCT 24319  
 gi | 73957561 | ref | NW\_876316.1 | Cf TAGGCCATGGCAAT  
 G-----TATT 13665  
 gi | 194719394 | ref | NC\_007316.3 | N ATGGGCAGGGCCTG  
 G-----CTCT 16206  
 gi | 149361523 | ref | NC\_000074.5 | \_ GAGGCCAG-----  
 ----- 13418

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCGGGCGGTGAAA  
 GTGTTTGGGGATGAGCTCCACGTGGTGCCTGCACAA 22193  
 gi | 114795057 | ref | NC\_006483.2 | N GGCGGGCGGTGAAA  
 GTGTTTGGGGATGAGTTCCACGTGGTGCCTGCACAA 24369  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCT-----  
 -----ACAAGACCCCAATGGTTCCT---CAA 13691  
 gi | 194719394 | ref | NC\_007316.3 | N AACGGCCG-----  
 -TAGTGGAGAACCTGTCCCGTGCCTTTCTC---TTA 16246  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----TGGGCAGGTGGGGAACCAGAATTT 13442

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gi | 51473102 | ref | NT\_010498.15 | \_ CATTGCAAAGGTAC

TAGATGCACTGAACTGCATGCTCTAAAACAGTTAAT 22243  
gi | 114795057 | ref | NC\_006483.2 | N CATTGCGAAGGTAC  
TAGATGCACTGAACTGCATGCTCTGAAACAGTTAAT 24419  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTTGGAGTG----  
----- 13701  
gi | 194719394 | ref | NC\_007316.3 | N GCTTCCAGTG----  
----- 16256  
gi | 149361523 | ref | NC\_000074.5 | \_ GAATCCTGAG----  
----- 13452  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTGTTATGTGG  
ATTTTCATCTTATAAAAAGCTTTAAAAAGGG-AAACA 22292  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTGTTATGTGC  
ATTTTCATCTTATAAAAAGCTTTAAAAAGGGGAAACA 24469  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAAAAGAAAAGGGG  
GCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGTAC 22342  
gi | 114795057 | ref | NC\_006483.2 | N CAAAAGAAAAGGGG  
GCCGGGCGCGGTGGCTCACGCCTGTCATCCCAGTAC 24519  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CATCA-----CAGTCC 13712  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTGCTGGCGAGGCAGTGG 16274  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGGGAGGCCGAG  
GTGGGCGGATCACCTGAGGTCAGGAGTTTGAGACCA 22392  
gi | 114795057 | ref | NC\_006483.2 | N TTTGGGAGGCCGAG  
GTGGGCGGATCACCTGAGGTCAGGAGTTTGAGACCA 24569

gi | 73957561 | ref | NW\_876316.1 | Cf CCTGG--AGAAGTT  
GTTAAAGCATAGATTGCAAG-----GTCCATGCCCA 13755  
gi | 194719394 | ref | NC\_007316.3 | N CCTGG--GCTTCTA  
GTGGGATCACTCTCTGCGGGTCTGTCTCCATGTCCA 16322  
gi | 149361523 | ref | NC\_000074.5 | \_ -CAAGCAGCCTCCA  
GTCTAGCCACAGCTCCCTGG-----GTTGTTGCCTT 13496

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gi | 51473102 | ref | NT\_010498.15 | \_ G--CCCGGCCAACA  
TGTTCAAACCCCGTCTCTACTAAAAATACAAAAATT 22440  
gi | 114795057 | ref | NC\_006483.2 | N G--CCCGGCCAACA  
TGTTCAAACCCCGTCTCTACTAAAAATACAAAAATT 24617  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
AGCTTCTGATCCATTAG-----ATCCAAGGTAG 13784  
gi | 194719394 | ref | NC\_007316.3 | N GGACTCTCCTTACG  
AGGTCATCAGTCGTATC-----CAACTGGATCT 16364  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----A  
GGAATTTTCCCACTTG-----ATACTAAAAAG 13526

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCCGGCGTGGTG  
GTGGGCACCTGTAATCCCAGCTACTCGAGTGGGTGA 22490  
gi | 114795057 | ref | NC\_006483.2 | N GGCCGGGCGTGGTG  
GTGGGCACCTGTAATCCCAGCTACTCGAGTGGCTGA 24667  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCCTG-----A  
GAATCTGCCTTTCTAACACGTTCCAGGTAATGCT-- 13825  
gi | 194719394 | ref | NC\_007316.3 | N CGCCCT-----G  
ATGACCTCATTGTCACCTCGTTACCTCTGTAAAG-- 16405  
gi | 149361523 | ref | NC\_000074.5 | \_ CACCGG-----  
-----GCCCTACTGGACTCGCTTGCAAATCTGT-- 13561

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAGGAGAATGGC  
TTGAGCCCTGGGGGCAGAGGTTGCAGTGAGCCGAGA 22540  
gi | 114795057 | ref | NC\_006483.2 | N CGTAGGAGAATGGC  
TTGAGCCCTGGGGGCAGAGGTTGCAGTGAGCCGAGA 24717  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----GGCCTG-----AGG 13834  
gi | 194719394 | ref | NC\_007316.3 | N -----

----ACCCTGT-----TTCTCAGT 16420  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCCTTT-----CCTTTC 13573

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACACTGCTGCAC  
TCCAGCCTGGGTGACAGAGTGAGACTCAGACTCAA 22590  
gi | 114795057 | ref | NC\_006483.2 | N TCACACTGCTGCAC  
TCCAGCCTGGGTGACAGAGTGAGACTCAGTCTCAA 24767  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCACCCACTGAGA  
ACCA--CCAGGCTAAAGCAGAACCCGGTAACTCCCA 13882  
gi | 194719394 | ref | NC\_007316.3 | N TCAGTCACCTTTGA  
GGTT--CAGGGGGTTAGGACTTCAAGATAACTTCTT 16468  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTACCACACGTAC  
ACTATGTCAGGAGACCTGCCTGCTAGGAGACCTGCC 13623

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAAAAAAAAAAA  
AAAAGAAGAAGAAGAAG-----GGAAGGTTTGGTT 22634  
gi | 114795057 | ref | NC\_006483.2 | N AAAAAAAAAAAAAA  
AGAAGAAGAAGAAGAAGAAGAAGGGAAGGTTTGGTT 24817  
gi | 73957561 | ref | NW\_876316.1 | Cf GATACATACC-----  
-----TTAGGA 13898  
gi | 194719394 | ref | NC\_007316.3 | N TTTTCTTCCAGTTT  
TATC-----AAGATATAAA 16496  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTCAGGAGA-----  
-----C 13634

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCCTAAATCACC  
TGTGATGGAGAGGGGAGAATTAGGGGACACTCTCTGAC 22684  
gi | 114795057 | ref | NC\_006483.2 | N CTGCCTAAATCACC  
TGTGATGGAGAGGGGAGAATTAGGGGACACTCTCTGAC 24867  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGACTGTCAGAAA  
AGTCTGGGAAAGAAGGAAGCATTGTCAT----TGAG 13944  
gi | 194719394 | ref | NC\_007316.3 | N TGGACGTACAGCGT  
TGTGTAAGTTTAAGGTGTACAGCATCATGATTTGAC 16546  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGCCTCTCAGGAG  
-ACCTGCCTCTCAGGAGACCTGCCTCTCAGGGTGCG 13683

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gi | 51473102 | ref | NT_010498.15 | _ CTTTACCAGGATGC
GCCACTCTCATTACAAAAGGAACACTTGC GATTAC 22734
gi | 114795057 | ref | NC_006483.2 | N CTTAACCAGGATGC
GCCACTCTCATTACAAAAGGATCACTTGC GATTAC 24917
gi | 73957561 | ref | NW_876316.1 | Cf TTGGGTCATTTCT
CCTCCTCTCAAATG----- 13972
gi | 194719394 | ref | NC_007316.3 | N TTACATCATGAAAT
GATTATCACAGTAAGTTCAGCAAACAT----- 16587
gi | 149361523 | ref | NC_000074.5 | _ TAGGACCTG---AG
GCTCTTCAAG----- 13704
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gi | 51473102 | ref | NT_010498.15 | _ AGTGGACTGATGTC
TACAAAGTAACAAGAAGCTACAGCCTCGG ACCCTTC 22784
gi | 114795057 | ref | NC_006483.2 | N AGTGGACTGATGTC
TACAAAGTAACAAGAAGCTACAGCCTCGG ACCCTTC 24967
gi | 73957561 | ref | NW_876316.1 | Cf -----TCATC
TCCTTAATG-----ACCCTGC 13993
gi | 194719394 | ref | NC_007316.3 | N -----CCAATATC
TCATATTTT-----TCCCTTG 16611
gi | 149361523 | ref | NC_000074.5 | _ -----AAC
TGCTCTCTG-----CCCT-- 13720

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gi | 51473102 | ref | NT_010498.15 | _ AGCCCCACAGCCCC
GGGGCAGCTACTGCCATCTCTCGCATCTTCTGTGGA 22834
gi | 114795057 | ref | NC_006483.2 | N AGCCCCACAGCCCC
GGGGCAGCTACTGCCATCTCTCGCATCTTCTGTGGA 25017
gi | 73957561 | ref | NW_876316.1 | Cf AGCCGGATTGTTCT
TGGGT-----TACTGTGACCCTTACATTG-- 14031
gi | 194719394 | ref | NC_007316.3 | N TGATGAGAACTTTT
AGGGTT----CACCTCTTAACAACCTTTTGTATA-- 16655
gi | 149361523 | ref | NC_000074.5 | _ -GCAGCATACCCTC
GGGGCTG-----GCTGGGGAAGAATGGGAG-- 13758

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gi | 51473102 | ref | NT\_010498.15 | \_ CGCACATACATGCT  
GTTATGGTCAAGGCGTGTCTCCCAAAAACATGTTG 22884  
gi | 114795057 | ref | NC\_006483.2 | N CGCACATACATGCT  
GTTATGGTCAAGGCGTGTCTCCCAAAAACATGTTG 25067  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCCTTTCT  
GAGTG-----CCTTGATCCCAATAA 14060  
gi | 194719394 | ref | NC\_007316.3 | N -----TAACATACA  
GCAGGGTTGATTATATTTATCAATTTGTACATCACA 16700  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTTT 13763

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCCCTAACCCT  
GGTACCTGTGAATGCAACCTTATTTGCAAATAGGGT 22934  
gi | 114795057 | ref | NC\_006483.2 | N AAGCCCTAACCCT  
GGTACCTGTGAATGCAACCTTATTTGCAAATAGGGT 25117  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGCATCTACCCAT  
ACTACAAAATTCTTGAAGAGTCAGAGCTGAGTTG-G 14109  
gi | 194719394 | ref | NC\_007316.3 | N CGCCTGGTACTAAT  
TTATCTTATAACTAGAAATTTCTGTCTTTTGACCGC 16750  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTCATAAGCCCT  
TTCCCTAGAGAGCTGGGTCTTATGGTCTCTCAGCCT 13813

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTATCCATGCAG  
TCAAATTA AAAATGAGGTCACACTGGAGTTGTGTGGG 22984  
gi | 114795057 | ref | NC\_006483.2 | N CTTTATCTACGCAG  
TCAAATTA AAAATGAGGTCACACTGGAGTTGTGTGGG 25167  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCTTCTCTGGCT  
CCATCCCTCCCTCTGAAAGCCACG----CTCCA--T 14153  
gi | 194719394 | ref | NC\_007316.3 | N CTTTATCCAACTCA  
CCGTCCCCACCTCTGGTAACCGTG----AATCTGAT 16796  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCTTTCTGGGGAA  
GCAGCTGCCCTCTG-----TCTATT 13848

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTAACCCAATGA  
CTGGGGTCTTTATAAGAAAAGCAGACAGAGACGCTT 23034  
gi | 114795057 | ref | NC\_006483.2 | N CCCTAACCCAGTGA

CTGGGGTCTTTATAAGAAAAGCAGACAGAGACGCTT 25217  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTACTTCAGG--  
----- 14165  
gi | 194719394 | ref | NC\_007316.3 | N CTCTTTTTCTATGA  
GATCAGATTTTGTGGTTTCTGA-----AGTTTAAT 16841  
gi | 149361523 | ref | NC\_000074.5 | \_ CCGCCCCCAGG--  
----- 13860  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGAATATAGCCAT  
GTGCTGGCAGAGGCAGAGACTGCTGTGATACGTACA 23084  
gi | 114795057 | ref | NC\_006483.2 | N GGGAATATAGCCAT  
GTGCTGGCAGAGGCAGAGACTGCTGTGATACGTGTA 25267  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GTACTTAGAGTTCCCAAATG 14186  
gi | 194719394 | ref | NC\_007316.3 | N TGACCTACAACAAT  
ATGTT-----AGTTCCTGGTATACGTCATTTC 16882  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAAGGCAAGACTGCCTCCCACT 13882

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gi | 51473102 | ref | NT\_010498.15 | \_ CATGCCAAGAACGC  
GGAAGATTGTCAGCCACCGCCAGAAACTGGGAGAGG 23134  
gi | 114795057 | ref | NC\_006483.2 | N CATGCCAAGAACGT  
GGAAGATTGTCAGCCACCGCCAGAAACTGGGAGAGG 25317  
gi | 73957561 | ref | NW\_876316.1 | Cf GACCATTTACTCTG  
--CTTAGAGCCCTCCCGCATTT----- 14220  
gi | 194719394 | ref | NC\_007316.3 | N GATATGATGATCGT  
GTCAAAGTATCACCAGGATAAGCCTCG----- 16924  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGAATCAGTAACT  
CTTACACGTAGTTCAGGACTCA----- 13918  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGAAAAGATCTTG  
CCTGCAGGGTTCAATGGGAACGTGGCCCTGCCAGCA 23184  
gi | 114795057 | ref | NC\_006483.2 | N AAGGAAAGATCTTG  
CCTGCAGGGTTCAATGGGAATGTGGCCCTGCCAGCA 25367  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCTGGAGCCCAGCAGG-T 14237

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTACAGTCTGTCACCATACAAAGA 16948  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAAAGCACAAAACCACT 13936

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTGGTTTCAGAG  
TTTTAGCTTCCAGAACTGAGAGAACAAATTTTCGGTT 23234  
gi | 114795057 | ref | NC\_006483.2 | N TCTTGGTTTCAGAG  
TTTTAGCTTCCAGAACTGAGAGAATAAATTTTCGGTT 25417  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCCTCTG-----  
-----TGCCCCCAGGGAACCTCACTCCTATACCTT 14274  
gi | 194719394 | ref | NC\_007316.3 | N CATCACTGAAT---  
-----CAGTCTACATAGTCCTCACACTGTGTGTTT 16989  
gi | 149361523 | ref | NC\_000074.5 | \_ CCACATTG-----  
-----TCCCTGCCTTTAGCTACCAGGTTCCCAA 13973

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTTAAGCCACCG  
AGTTTGTGTTGGTTGTTTGTACAGCCGTGGAGACC 23284  
gi | 114795057 | ref | NC\_006483.2 | N GTTTTAAGCCACCC  
AGTTTGTGTTGGTTGTTTGTACAGCCCTGGAGACC 25467  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCAAGGCCAG--  
-----TTTTCTC 14293  
gi | 194719394 | ref | NC\_007316.3 | N ATACCGTGGCACGC  
TTATTGTGCAAATGGAAGTCTGCACCTCTTCATCTC 17039  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCAAAGGCCACT-  
-----AGAGTCC 13993

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCAGCCATGGGA  
AACTCACACACAAAGTTGAATTGAAACTGTTTCCAA 23334  
gi | 114795057 | ref | NC\_006483.2 | N AAGCAGCCATGGGA  
AACTCACGCACAAAGTTGAATTGAAACTGTTTCCAG 25517  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGATTCTG----  
----- 14303  
gi | 194719394 | ref | NC\_007316.3 | N CTCATCCATT---  
----- 17050  
gi | 149361523 | ref | NC\_000074.5 | \_ CCACTGACTGG---



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gi | 51473102 | ref | NT_010498.15 | _      GTTCTTTTATGTGA
CTCCCGTTCCTCCCCTCCCTTCATCTTTCCTTCCT 23384
gi | 114795057 | ref | NC_006483.2 | N      TTTCTTTTATGTGA
CTCCCGTTCCTCCCCTCCCTTCATCTTTCCTTCCT 25567
gi | 73957561 | ref | NW_876316.1 | Cf      -----
-----AGCCCCACCCCTGCTCTGAATTGCAC 14329
gi | 194719394 | ref | NC_007316.3 | N      -----
----TCTCTCCTCCCCACCCCTCCCCTCTCACAACC 17082
gi | 149361523 | ref | NC_000074.5 | _      -----
-----TGGATTCTGGCAGAAGCATTTCCTTCCA 14033

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gi | 51473102 | ref | NT_010498.15 | _      TCCTCTTTTTTTTTT
TT--AAAACAAAAGTAGGATTATATTACGACGATTG 23432
gi | 114795057 | ref | NC_006483.2 | N      TCCTCTTTTTTTTTT
TTTTTAAACAAAATTAGGATTATATTATGACAATTG 25617
gi | 73957561 | ref | NW_876316.1 | Cf      CCCTGTCTGTCTCC
TT--TATAGAG----- 14352
gi | 194719394 | ref | NC_007316.3 | N      CCGTGTTTGTTCTC
AA--TGTCTATGGCTCTTTCTGTGTTGTTACGTGTG 17130
gi | 149361523 | ref | NC_000074.5 | _      CCTTCTTTTCCTCC
GTGTTTTGTATG----- 14059
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gi | 51473102 | ref | NT_010498.15 | _      TTCTGCAAAAGG--
TTTTTTTTTTAATTTGATGACATATCAGTGACG--- 23477
gi | 114795057 | ref | NC_006483.2 | N      TTCTGCAAAAGGTT
TTTTTTTTTTAATTTGATGACATATCAGTGACG--- 25664
gi | 73957561 | ref | NW_876316.1 | Cf      ----CGGG-----
----GTGTCCCACATCATGATGTCGCCACTTGG--- 14384
gi | 194719394 | ref | NC_007316.3 | N      TTCACGGGTTTGCT
TTTTAGAGCCCACATATAAGCGATATCATAACGGTGT 17180
gi | 149361523 | ref | NC_000074.5 | _      -----
-----GGTCACCTTCTTGACAGCAGCCCACACG-- 14087

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gi | 51473102 | ref | NT\_010498.15 | \_ -TCTCCTTAGGTCA  
AATCATATAACACCTCTTTTCTCTTTAATTTTATAC 23526  
gi | 114795057 | ref | NC\_006483.2 | N -TCTCCTTAGGTCA  
AATCATATAACACCTCTTTTCTCTTTAATTTTATAC 25713  
gi | 73957561 | ref | NW\_876316.1 | Cf --ATCTCTCGG---  
-----CTTATTCCCTTCCCAATGTTGCCA 14416  
gi | 194719394 | ref | NC\_007316.3 | N TTGTCTCTCTGTCT  
GACTTCACTGAGCATAACGCCCTCCCTGTCCATCCA 17230  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCTTTTTCCCTTCTTTATCTCTCAT 14112

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gi | 51473102 | ref | NT\_010498.15 | \_ TATTTAATTTTGTA  
TTTTGTATTGGAGAATTCCAATCATATGCAGAAATA 23576  
gi | 114795057 | ref | NC\_006483.2 | N TATTTAATTTTGTA  
TTTTGTATTGGAGAATTCCAATCATATGCAGAAATA 25763  
gi | 73957561 | ref | NW\_876316.1 | Cf GATTGGCACAGATA  
CT-TGGTTGCATGGG--AATTTCTGATAGAGTAATG 14463  
gi | 194719394 | ref | NC\_007316.3 | N TGTTGTTGCAAATG  
GTGAGGTTTCATTCTTTTTTTTATGGTTGAGTAGTA 17280  
gi | 149361523 | ref | NC\_000074.5 | \_ TAACGGCACCCTG  
TTTGGGGAAGACTCTGTGGAAATG---TCCATTATA 14159

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gi | 51473102 | ref | NT\_010498.15 | \_ GACAGAATAATGGA  
ATGAGCCCACATGACTCTGTTACCCAGTGCCAATGA 23626  
gi | 114795057 | ref | NC\_006483.2 | N G----AATAATGGA  
ATGAGCCCACATGACTCTGTTACCCAGTGCCAATGA 25809  
gi | 73957561 | ref | NW\_876316.1 | Cf -----T  
TCTAGTATACGTGTGT-----CCCGTG- 14486  
gi | 194719394 | ref | NC\_007316.3 | N G-----GAA  
TATTGTGTGTGTGTGTGTGTGTGTGTGTGTACGTAT 17320  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
-CTAAACACCTGCTGTGGGAACTCATAGTTTTGTGT 14195

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGAGCCAATCTT  
GACTCCTGTCTACCCCAGATTGTTTTGACACAAATC 23676

gi | 114795057 | ref | NC\_006483.2 | N GGGGAGCCAATCTT  
GACTCCTCTCTACCCCAGATTGTTTTGACACAAATC 25859  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGTGTT  
GG--GCAAGCTCCCCTG----TTTATGTTCACTTA 14523  
gi | 194719394 | ref | NC\_007316.3 | N GTAGACACCACATC  
TG--CCTCACCCACTCATGTA-TTAATAGGCACTTC 17367  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCTATGACATAAC  
AG--CCCAAAGTGGGCGCAGCCTACATGCCACCCCC 14243

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGGCTTCCTAGC  
ATTTTCATCTATAAATATTTCTGCATATCTATGGCTA 23726  
gi | 114795057 | ref | NC\_006483.2 | N TCAGGCTTCCTAGT  
ATTTTCATCTATAAATATTTCTGCATATATATGGCTA 25909  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TGCTTCCCAG-  
----- 14533  
gi | 194719394 | ref | NC\_007316.3 | N GGTTGCTTCCATAT  
C----- 17382  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCAGTCAACTAAT  
----- 14257

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGAGAAGAACTCT  
TTAAAATATCACAATTACCATTATCATATCATAAAA 23776  
gi | 114795057 | ref | NC\_006483.2 | N AAGAGAAGAACTCT  
TTAAAATATCACAATTACCATTATCATATCATAAAA 25959  
gi | 73957561 | ref | NW\_876316.1 | Cf ----GGGGGCCAGA  
TGCTGCCCCCGGGGTTCCATGTCTGGTT----- 14571  
gi | 194719394 | ref | NC\_007316.3 | N ---AAGATACCTTT  
TTTTGAAGACACAATTCAACATATAGTG----- 17421  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAATCGCC  
AAACCAGACTGCTATATACTATATACTG----- 14293

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gi | 51473102 | ref | NT\_010498.15 | \_ TATTAACAATTAGA  
GAAAATCAAATATTGGCCAATATTGAGGTTCCCTTG 23826  
gi | 114795057 | ref | NC\_006483.2 | N TATTAACAATTAGA  
GAAAATCAAATATTGGCCAATATTGAGGTTCCCTTG 26009  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TCTA

TTACCACCCCCCTTGGAACCTTATG--AGTCTCTG- 14608  
gi | 194719394 | ref | NC\_007316.3 | N -----TAGC  
ATGCATCAGTACTTCATCCCTTCTTTAAAATCTG- 17460  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATGGA  
ATGAAACACCCGTGGTCCCACAAAGCGACAGAGAGT 14334

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTCCTAAACACT  
GCTTCACGCTGGTTTATTCAAATCAGGACTCAAGTG 23876  
gi | 114795057 | ref | NC\_006483.2 | N GGCTCCTAAACACT  
GCTTCATGCTGGTTTATTCAAATCAGGACTCAAGTG 26059  
gi | 73957561 | ref | NW\_876316.1 | Cf --CTATTTAAACCT  
-----TCGCTTTTCGAGAGGGAAATGGAAGCATGGG 14651  
gi | 194719394 | ref | NC\_007316.3 | N --TTTTTTATTTAT  
GTATTTGGCTGTGCCAGGTCTTAGTTGCGACATATG 17508  
gi | 149361523 | ref | NC\_000074.5 | \_ AACCTGCAGTCGCT  
GGTAGATAAACAGCCACTCTCACAAAGACAACAGGA 14384

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTCCCAGCCTGC  
ACTTGGCTGGGGTCTCTGATGGTTCTCTGCGTCTGC 23926  
gi | 114795057 | ref | NC\_006483.2 | N AGGTCCCAGCCTGC  
ACTTGGCTGGGGTCTCTGATGGTTCTCTGCGTCTGC 26109  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----AG  
ATTTTAGACAAATATCTTGCAGAAATAAATGTCTAC 14691  
gi | 194719394 | ref | NC\_007316.3 | N GG-----CT  
CGTTAGTTGCGCCTGTGGGGTTTTTAGTTGCTTGC 17548  
gi | 149361523 | ref | NC\_000074.5 | \_ GG-----  
-----GCTGGGGTCCCTGGGTGTGACAGTTCTCTGG 14417

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGTTTCATCCTTG  
TGTTTTTCGTTTTGAGATGGAATTCTGCTCTTGTTG 23976  
gi | 114795057 | ref | NC\_006483.2 | N ACGTTTCATGCTTG  
TGTTTTTCGTTTTGAGATGGAATTCTGCTCTTGTTG 26159  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTTTT-----  
-----AAACAGGAGAGCAGGCACTGGGATCTGAC 14727  
gi | 194719394 | ref | NC\_007316.3 | N CGCATGTGGGATCT  
AGTTCCCTGACCAGGGATCGAACCCAGGCACCCTGC 17598

gi | 149361523 | ref | NC\_000074.5 | \_ GTTTCTGGAGCAGG  
CAGAGCAGATTCATGTATAAAGCAGAATTTAATATT 14467

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCAGGCTGGAGTG  
CAGTGGCGTGATCTCAGCTCACTG-CAACCTCTGCC 24025

gi | 114795057 | ref | NC\_006483.2 | N CCCAGGCTGGAGTG  
CAGTGGCGTGATCTCAGCTCACTG-CAACCTCTGCC 26208

gi | 73957561 | ref | NW\_876316.1 | Cf TCTATAAGTGTTTG  
CAATG-AACTGAACCC--CCCAAG-CCGGACAGGAA 14773

gi | 194719394 | ref | NC\_007316.3 | N ATTGGGAGTGCAGT  
CTTAGCCACTGGACCA--CCAGGG-AAGCCCCGGCA 17645

gi | 149361523 | ref | NC\_000074.5 | \_ TCTGGAAGGCAGTG  
TGTGAGAGATGCCCAGTGCCAGGGGGATTCTGGGAC 14517

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTGAGTTCAAGT  
GATTCTCCTACCTTAGCCTCCTGAGTAGCTGGGATT 24075

gi | 114795057 | ref | NC\_006483.2 | N TCCTGAGTTCAAGT  
GATTCTCCTACCTTAGCCTCCTGAGTAGCTGGGATT 26258

gi | 73957561 | ref | NW\_876316.1 | Cf G---GCTTTGAAGA  
AAGCCTGACTTCTGG--CTCAGGGGAGACTGGCTCA 14818

gi | 194719394 | ref | NC\_007316.3 | N CTTTCATTCTCTTT  
GAGGCTGAATGATGCTCCTTTGTGTGAGAGAGCACA 17695

gi | 149361523 | ref | NC\_000074.5 | \_ CTGTACGTTCCATC  
CTGGTTCTGGGCAGTGCTCACTCAGGCGCATAACACA 14567

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGGTGCCCCGCCA  
CCACGCCCCGGCTAATTCTTATATTTTTTAGTAGAGAT 24125

gi | 114795057 | ref | NC\_006483.2 | N ACAGGTGCCCCGCCA  
CCACGCCCCGGCTAATTCTTATATTTTTTAGTAGAGAT 26308

gi | 73957561 | ref | NW\_876316.1 | Cf CCTGTTAGGTGCCA  
CGTGAGCACTTGCCCTGCAGTGAGCTCC----- 14860

gi | 194719394 | ref | NC\_007316.3 | N CCTTGTTACTGCAT  
CATCTGCGGAAGGACTCTGAGCTGTTCCGAATTGTG 17745

gi | 149361523 | ref | NC\_000074.5 | \_ TGTGAGGGTCCAGA  
CAGCTGCTTGTGATTTGCACGCCTGGCTGTG----G 14613

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCTTTCACCATG  
 TTGACAAGGCTGGTCTCGAACTGCTGACTTCAGGTG 24175  
 gi | 114795057 | ref | NC\_006483.2 | N GGGCTTTCCTCCATG  
 TTGACAAGGCTGGTCTCGAACTGCTGACTTCAGGTG 26358  
 gi | 73957561 | ref | NW\_876316.1 | Cf CAGCTCACTTTGT-  
 --TAGCCAATCATCTTTCAACGAATGTCTTG---- 14903  
 gi | 194719394 | ref | NC\_007316.3 | N CTGCTATGAACAG-  
 --CAAAGAGCTCGTCTTTATTCGCATCCCTTT---- 17788  
 gi | 149361523 | ref | NC\_000074.5 | \_ CAGGTATTCTTCAA  
 TGTACAGTTAACTTTTTTCAATCGGGGAACTCGGAGA 14663

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCTGCCTGCCTTG  
 GCCTCTCAAAGTGCTGGGATTACGGGCGTGAGCCAC 24225  
 gi | 114795057 | ref | NC\_006483.2 | N ATCTGCCTGCCTTG  
 GCATCCCAAAGTGCTGGGATTACGGGCGTGAGCCAC 26408  
 gi | 73957561 | ref | NW\_876316.1 | Cf -TTTGCCCTTGGTG  
 GCTCCTCTGGAAGCCACCAGTAGGTTAAATATCAGC 14952  
 gi | 194719394 | ref | NC\_007316.3 | N -TTTTCAGTTCTCT  
 TGTTACAG--ACCCGGAAGTATGTCCGTGGCTTTC 17835  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGTCTTCTTTCAGG  
 -GTCAGCATTGGGCCATGCGTCCTGGTGGTCTCCTG 14712

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGGCCCGGCCAT  
 TCTTGTGTTTTTGTGTAGTTTACATGCTGGGGAGG 24275  
 gi | 114795057 | ref | NC\_006483.2 | N TCGGCCCGGCCAT  
 TCTTGTGTTTTTGTGTAGTTTACATGCTGGGGAGG 26458  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCTGAGCTATCATT  
 GCTTGTG----- 14973  
 gi | 194719394 | ref | NC\_007316.3 | N ACTTACAGAGCACA  
 GTTGGAGGCTAGACA----- 17864  
 gi | 149361523 | ref | NC\_000074.5 | \_ GTTGGCCAGTCAGC  
 CCATCAG----- 14733

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGGGCTGTGTGTC

CTACAGTTCACAGTCTAGTGATCATGTCCCATG 24325  
gi | 114795057 | ref | NC\_006483.2 | N CCGGGCTGTGTGTC  
CTATAGTTCACAGTCTAGTGATCATGTCCCTATG 26508  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAAAC  
ACTCTAAGAACAACCT-CCTAAG-----TCCTTAGG 15006  
gi | 194719394 | ref | NC\_007316.3 | N -----GCCTC  
CCACTTTGGGCTCAGACTCCG-----TCCCCACG 17898  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGGGTG  
TGTGGGTTGGTGCTAACCCGG-----AACT 14764

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTCATTCAACGT  
GTCTATTATCTCCAGTATTTCCCTGTCAACTGGTGGG 24375  
gi | 114795057 | ref | NC\_006483.2 | N GTGTCATTCAACGT  
GTCTATTATCTCCAGTATTTCCCTGTCAACTGGTGGG 26558  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCTAGACCAT---  
-----TTCCTAAGG- 15026  
gi | 194719394 | ref | NC\_007316.3 | N GTCATGGTCACGGT  
-----CATGGTCACGGAACACAGCTGG- 17934  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTATAAACAGCGA  
G-----GCTCT----- 14784

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGCCTAGAATGG  
AGGCTTGGTGCAACTCAGGAGATGTGTTTGGCTGCC 24425  
gi | 114795057 | ref | NC\_006483.2 | N TGGGCCTAGAGTGG  
AGGCTTGGTGCAACTCAGGGGATGTGTTTGGCTGCC 26608  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-GGTTAGGAAGGCCCCACAT-----CATCACCA 15053  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-GGTTAGGATCCTCCCGCTGGAC-CCTCCTCCTCCA 17968  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-GCAAAAACCCTTCTGAGAGAAGGTCTGTCTGAACA 14819

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gi | 51473102 | ref | NT\_010498.15 | \_ TGACAGCGTAGGTG  
CATCATGGCTGATCAACCTTCCCTCACGATTTACCCT 24475  
gi | 114795057 | ref | NC\_006483.2 | N TGACAGCGTAGGTG  
CATCACGGCTGATCAACCTTCCCCACAACCTTACCCT 26658

gi | 73957561 | ref | NW\_876316.1 | Cf GGCC----TGGCAG  
GCAATGTGGGTCTTTTTACCGTGGGCAAACAATACT 15099  
gi | 194719394 | ref | NC\_007316.3 | N GGCCGCCTTCCCAG  
CCCCTCCCCTTATCCACACAAGCCTCTTTCAGCCAT 18018  
gi | 149361523 | ref | NC\_000074.5 | \_ AGACATGAGCAGAG  
CATTTCCAACATAAATGGCATCCCATAACCCTGCAAT 14869  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTTTGTTCAG  
TTTTTGAGTGCCTCAGCTTCAAGGTGGGCCATTCTG 24525  
gi | 114795057 | ref | NC\_006483.2 | N GAGTTTGTTCAG  
TTTTTGAGTGCCTCAGCTTCAAGGTGGGCCATTCTG 26708  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGGAGGTCACGTG  
-----GGGACCACAG-----AAGATT 15129  
gi | 194719394 | ref | NC\_007316.3 | N CTGGCTGGCTCCCA  
-----GGGACACACAGAGTTCCCAAGAAAGGGTG 18061  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGACTGTCCTGG  
----TTCATGCCCCACAG-----CTGTGTGT 14905  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCATGGCAATGT  
CCTGATCAGCAGCGGGCACGGGCCACTTGGAGAGA 24575  
gi | 114795057 | ref | NC\_006483.2 | N GGTCATGGCAATGT  
CCTGATCAGCAGCGGGCACGGGCCACTTGGAGAGA 26758  
gi | 73957561 | ref | NW\_876316.1 | Cf GTATATGATTCTAT  
TTATATAAAATATG-----CAGAAGAAGTAA 15169  
gi | 194719394 | ref | NC\_007316.3 | N GGAATTCTTGCTAG  
TCTTGGCCACAAAGG-----CAGAGGGATTGG 18102  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGAGTTAAGCTCT  
CCCTGGCACCAGAG-----CTAGTGTGTGGA 14945  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAGTGAGTGTGT  
GTTTGGGGTTGGGTAGAGGGATGGGGGCCGTACCAG 24625  
gi | 114795057 | ref | NC\_006483.2 | N AGAAGTGAGTGTGT  
GTTTGGGGTTGGGTACAGGGATGGGGGCTGTACCAG 26808  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCCCTGGAGACAT  
CAATCAGATCAGTGGCAGCAAAGG---GCTGCGGG 15215  
gi | 194719394 | ref | NC\_007316.3 | N ATGCCTTTGATCCT



GTTTTG-TTTTGTCTTGTCTGG---ATTTTGTG 18147  
gi | 149361523 | ref | NC\_000074.5 | \_ TATCCTCGGCTTTA  
TCATGGGATTGG---CAGCCTTAGTCCACATCCTTT 14992

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTCTGTAGTTTCT  
GGAAACAGAGTGGACAATCCTGTTTTCAACAAAGGA 24675  
gi | 114795057 | ref | NC\_006483.2 | N AGTCTGTAGTTTCT  
GGAAACAGAGTGGACAATCCTGTTTTCAACAAAGGA 26858  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGCAGAGG-----  
-----GGAGTGAGCAATCCTG--AACCTGGGG--- 15249  
gi | 194719394 | ref | NC\_007316.3 | N TGTATGTGGT-----  
-----AAAATGTGCAAAACATTTACCATCTTA--- 18184  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCCAGTTTT-----  
-----CGTTTAAAAAAGAGCCGAATGGACG--- 15027

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gi | 51473102 | ref | NT\_010498.15 | \_ TACATTAAGTGCCA  
TTTAGATTATGGAGCTGTGTGATTGGAATCAACCCG 24725  
gi | 114795057 | ref | NC\_006483.2 | N TACATTAAGTGCCA  
TTTAGATTATGGAGCTGTGTGATTGGAATCAACCCG 26908  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TCTGTCT  
TTGGGCGAATG---AAAACGCCTTGG---AATCAG 15285  
gi | 194719394 | ref | NC\_007316.3 | N -----ACTGTTT  
CCAAGCACACGGTTCAGTGGCATTGAGTACATTCAC 18227  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTTGCT  
TTCCGCTTTCACAGGCCAGAGACTCACATTTCTCCT 15069

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAGATTAGGCC  
CCCGGGCCCTTATGCATTCTTAAGGAGATGAGGGGG 24775  
gi | 114795057 | ref | NC\_006483.2 | N GGCAGATTAGGCC  
CCCGGGCCCTTATGCATTCTTAAGGAGATGAGGGGG 26958  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGAGGTAGTGGC  
TGCATAACATTGG-----AAATATACTAAATGTCA 15329  
gi | 194719394 | ref | NC\_007316.3 | N GTGGTTGTCCAGTC  
ATCACAGCCATCGTCTCCAGAACTTTTTTCAGCTTCT 18277  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGCAGTTTTTATC  
TCCAGATGCTGCATAG-CATACAGTGCTCACCCCTGT 15118

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCCCAGGTAAGC  
 ATCCCAGGTAGGAGTCTCCCAAATGCAGGGCGAGGA 24825  
 gi | 114795057 | ref | NC\_006483.2 | N GTGCCCAGGTGAGC  
 ATCCCAGGTAGGAGTCCCCCAAATGCAGGGCGAGGA 27008  
 gi | 73957561 | ref | NW\_876316.1 | Cf CAGAACTG-----  
 TTCCCTTTAAG----ATGGTTAATTTTAGGGACGCC 15369  
 gi | 194719394 | ref | NC\_007316.3 | N CCAACCGAGTCT--  
 GTCCCAGTAG----ACACTAACTCCTGGGAGTTCC 18321  
 gi | 149361523 | ref | NC\_000074.5 | \_ GTGTTAGG-----  
 AAGCCCATTTCT----CCTTTATATCCAGGATTTG-- 15156

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGCAGCGTCCAC  
 GAGCTCAGTCACCAACCCAGGGACTCTGTTCCTGA 24875  
 gi | 114795057 | ref | NC\_006483.2 | N GTGGCAGTATCTAC  
 GAGCTCAATCACCAACCCAGGGTCTCTGTTCCTGA 27058  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGGGTG-----  
 -----GCTCAGCGGTTT-----AGCG 15391  
 gi | 194719394 | ref | NC\_007316.3 | N CTGGCG-----  
 -----GTCCAGTGGTTAGGACTCAGAG 18349  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----AATGCGTTTCTTAATCTGAG 15176

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTCACGAGACTG  
 GACTGAGGCAGAGCAAGCCCTCACTTACAATGTATT 24925  
 gi | 114795057 | ref | NC\_006483.2 | N GAGTCACGAGACTG  
 AAGTGAGGCAGAGCAAGCCCTCACTTACAATGTATT 27108  
 gi | 73957561 | ref | NW\_876316.1 | Cf CCTGCCTT----CG  
 GCCCGAGGCGTG-----ACCCTG---- 15419  
 gi | 194719394 | ref | NC\_007316.3 | N CTTTCACTGACGTG  
 GCCTGGGTTTCAG-----TCACTGGTTG 18385  
 gi | 149361523 | ref | NC\_000074.5 | \_ TTTTATCTTGTACA  
 TAGAAAGTCCTT----- 15202

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTCCAGGGCTAT  
GTCCCGGTGGCCTTGAAACACCGAAATGACCTGGAG 24975  
gi | 114795057 | ref | NC\_006483.2 | N GGGTCCAGGGCTAT  
GTCCCGGTGGCCTTGAAACACCGAAATGACCTGGAG 27158  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGACCCGGG----  
ATCGAGTCCCACGACAGGCTCCCTGCAGGGAGCCTG 15465  
gi | 194719394 | ref | NC\_007316.3 | N GGAAACAAAG----  
ATCCCGCAAGCCAAGCGGCACAGCAAAAACAAAAC 18431  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---TCTCACTCGGAGATGCTAAGAAAAAGGCGGGCC 15235

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCTGGCTGAAGTC  
GGTTGAGAAGTGGATAGGAAATGAAAAGATAGAGAC 25025  
gi | 114795057 | ref | NC\_006483.2 | N ATCTGGCTGAAGTC  
GGTTGAGAAGTGGATAGGAAATGAAAAGATAGAGAC 27208  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCTCCCTCTGCC  
TG-----T 15482  
gi | 194719394 | ref | NC\_007316.3 | N AATTACCCAGCTTC  
TGGTAA-----G 18452  
gi | 149361523 | ref | NC\_000074.5 | \_ CCGCTTCCTCTTGC  
TCTTGG----- 15255

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAAGTATAGACA  
CTCCTTCTAAAAG-CTCGATGTTGGCAAATGAGGAA 25074  
gi | 114795057 | ref | NC\_006483.2 | N AGCAAGTGTAGACA  
CTCCTTCTAAAAG-CTCGATGTTGGCAAATGAGGAA 27257  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCTCTGCCTCTCT  
CTCTCTCTGTGTCTCTCATGAATAAATAAATAAAAT 15532  
gi | 194719394 | ref | NC\_007316.3 | N CACCCTTCTACTTC  
CTGTCTCTATGAGTCTGTCTGTTCTGGGTAAGTGCAC 18502  
gi | 149361523 | ref | NC\_000074.5 | \_ ---ATGACTTATCT  
TTGTCCTTGTGTTTTTCCTTGTGATTTAAGCGGAG 15302

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGCAGGTGTATT  
TCCAATGCAAGGCCAGAAAAGAGGTTATGTTTAAA 25124  
gi | 114795057 | ref | NC\_006483.2 | N GGAGCAGGTGTATT

TCCAATGCAAGGCCAGAAAAGAGGTTATGTTTAAA 27307  
gi | 73957561 | ref | NW\_876316.1 | Cf CTAAAAAAGAAAAT  
GTTAATTTTATGTCACGTGAATTTTCATCTTAATTTT 15582  
gi | 194719394 | ref | NC\_007316.3 | N GTAAGTGGTGTGCAT  
TACAGTATTTGTCCTTTTGTAAATTGGTGTGTTTCAC 18552  
gi | 149361523 | ref | NC\_000074.5 | \_ G-TGCTTGC GTAAT  
TTCTTGGCATAGCACAGGAACTGTGGTCTCCAGGC 15351

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGAAACCCATGC  
TGAGATGTTTATGGGAGGAGCCAGCAAAGAGG---- 25170  
gi | 114795057 | ref | NC\_006483.2 | N GTGGAAACCCATGC  
TGAGATGTTTATGGGAGGAGCCAGCAAAGAGG---- 27353  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAAAGAATAAAGG  
AGAAGCACTACT-----CCCTACCCCGCAG---- 15621  
gi | 194719394 | ref | NC\_007316.3 | N TGAGCGTAACATCC  
TCAAGCTCCATT-----CCTGTTGTGGCAGGTGT 18595  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCGGGCAGGGTTC  
TCTG-----CATTGAGGAG---- 15380

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gi | 51473102 | ref | NT\_010498.15 | \_ --GGAGGAGGATAG  
AGGATGGGAGGCCAGTGGATGGGAGGCTATGGGTGT 25218  
gi | 114795057 | ref | NC\_006483.2 | N --GGACGAG-----  
-----GATGGGAGGCTATGGGTGT 27379  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGGTT-----  
-----TGACTGGAAGCGAGG-- 15642  
gi | 194719394 | ref | NC\_007316.3 | N CAGAAT-----  
-----TCCTCCCTTTTAAAGGT 18618  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAGCCGGGAA 15390

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGGG-AGTGGGG  
GTGGAGGGGGCTGTGACCGACACAGGTGGGACCCAG 25267  
gi | 114795057 | ref | NC\_006483.2 | N GGGGGGGAGTGGGG  
GTGGATGGGGCTGTGACCGACACAGGTGGGACCCAG 27429  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCAGGGTGCTCCA  
GAGG--GCGCCTGACCTCAATCAGGATGTGCCACTC 15690

gi | 194719394 | ref | NC\_007316.3 | N TAAATGATATTCCA  
TTGTTTGGGCTTGATCACATTTTG-TTTACCCACTG 18667  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCGGGAAATAAGG  
GAAGAAGCCAACGAAACATGGTTAGGGTAGAATCAC 15440

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGAGAGTCAGGAG  
GACGGTTTCTAAGTGGTGGACGGAGTTCCTGCCTGT 25317  
gi | 114795057 | ref | NC\_006483.2 | N GAGAGAGTCAGGAG  
GACAGTTTCTAAGTGGTGGAGGGAGTTCCTGCCTGT 27479  
gi | 73957561 | ref | NW\_876316.1 | Cf TAGTGG---CAGTG  
GGCACG---CATCCGAGTGTATGTTCCGGAGGGAGC 15734  
gi | 194719394 | ref | NC\_007316.3 | N ATCTGT---TGATG  
GACCCTTTAAAAAAAATTGAAATATATAGAGAAATT 18714  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTGGCTG-CAGAG  
GCCGCTGCACAGGCACTGGCCTCTGTAGGGAGGAGG 15489

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTTGTAATGGC  
TTTAAAAAAACAAAAAGGCTAGGCATGGTGGCTCAC 25367  
gi | 114795057 | ref | NC\_006483.2 | N AGTTTGTAATGGC  
TTTAAAAAAACAAAAAGGCTAGGCATGGTGGCTCAC 27529  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGCTGGCCACGTG  
TCAGCG-----TCCCTGGCAGAGGTCCTCCC 15774  
gi | 194719394 | ref | NC\_007316.3 | N ATTTAAGCCTAGCA  
TCAAAGGCAGAGAAGGCAATGGCACCAGTACTCCA 18764  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGGTGCCACCG--  
---TAAGGGACATCCTGTGCTGTGACTGCCACTCCC 15534

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTGTAATCTTAG  
-CACTGTAGGGGGCCGAGGCAGGTGGATCACTTGAG 25416  
gi | 114795057 | ref | NC\_006483.2 | N ACCTGTAATCCTAG  
-CATTGTAGGGGGCCAAGGCAGGTGGATGACTTGAG 27578  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CACATGGGGTGGGGGCCTCGG--GGCCACA- 15802  
gi | 194719394 | ref | NC\_007316.3 | N GTECTCTTGCTGG  
AAAATCCCATGGACGGAGGAGCCTGGTAGGCTGCAG 18814  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCCTG-----

-----CTCCTGTGCCTATACCTTCTGACTGCCTCCT 15571

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCAGGGGTTC AAG  
 ACCAGCCTGGGCAACATGGCAAACCTTGTCTCAAT 25466  
 gi | 114795057 | ref | NC\_006483.2 | N TCCAGGGGTTC AAG  
 ACCAGCCTGGGCAACATGGCAAACCTTGTCTCAAT 27628  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----CGCT  
 CAGCCCCAGATCCCAGGGCCCCGCTT-----CC 15834  
 gi | 194719394 | ref | NC\_007316.3 | N TCCATGGGGTCGCA  
 AAGAGTCAGACATGACTGAGCGATTTGACTTTTCACT 18864  
 gi | 149361523 | ref | NC\_000074.5 | \_ TGTGCACAGCTGTG  
 CAAG--CAGCTACCATGGTCACTGGCGTTCATGTTA 15619

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAAAATACCAAAA  
 AAAATAAAAAAATAAAAAATAAAAAGGCCTGGTGTG 25516  
 gi | 114795057 | ref | NC\_006483.2 | N TAAAAATACCAAAA  
 AAAAAAAAAAAAA-----AAAAAGGCCTGGTGTG 27670  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGAAACCAACAACC  
 TTGGGGCAAGAT-----AGCG 15864  
 gi | 194719394 | ref | NC\_007316.3 | N TTTCACTTTCATGC  
 ATTGGAGAAGGA-----AATG 18894  
 gi | 149361523 | ref | NC\_000074.5 | \_ TAGCACCTTCCATT  
 TTGCGTGTACGATG----- 15647

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGACACACACCTG  
 TAGTCCTAGCTTCTCAGGAGGCTGAGGTGGGAGAAT 25566  
 gi | 114795057 | ref | NC\_006483.2 | N ATGACATACACCTG  
 TAGTCCTAGCTTCTCAGGAGGCTGAGGTGGGAGAAT 27720  
 gi | 73957561 | ref | NW\_876316.1 | Cf --AGCCCTGACCAG  
 TGGTGTTCAGTCCACACCCGCCAG-----CAGC 15906  
 gi | 194719394 | ref | NC\_007316.3 | N GCAACCCACTCCAG  
 TG---TTCTTGCCTGGAGAATCCCAG-----GGAC 18935  
 gi | 149361523 | ref | NC\_000074.5 | \_ --CTGACATTCCTG  
 CATTAAGTGAGACTGTGGCCGCCCCCT-----CTCC 15690

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATTGCTTGAGC  
CTGGGAGGCGGAGGTTGCAGTGCACCAAGATCACAC 25616  
gi | 114795057 | ref | NC\_006483.2 | N CAAATTGCTTGAGC  
CTGGGAGGCGGAGGTTGCAGTGCACCAAGATCACGC 27770  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTGGAACCTGG--  
-AGGGAGCCTGCAGAAGTAG-----GTTAAGAAGGA 15948  
gi | 194719394 | ref | NC\_007316.3 | N GGGGGAGCCTGG--  
-TGGGCTGCCGTCTATGGGGT-CGCACAGAGTCGGA 18981  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGAGGCCAGT--  
----GGAGCGGTGTGGGAGACCTGTGTATTGGTCAG 15734

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTGCACTCCAGC  
CTGAGCAACAGAGCAAGACTCTGCCTCAAAAACGAA 25666  
gi | 114795057 | ref | NC\_006483.2 | N CACTGCACTCCAGC  
CTGAGCAACAGAGCAAGACTCTGCCTCAAAAACGAA 27820  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAGGCAGCCAGGA  
AGTAGGGACGGTG--AGTGTAGACAGCTCCGTCCTA 15996  
gi | 194719394 | ref | NC\_007316.3 | N CACTACTGAAGTGA  
CTTAGCAGCAGCAGCAGTAGCAGCAGCAGCATCAA 19031  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGACTG-AGTGT  
CTGAGTACAGGGAGGTGCTGGAGCATGGAGCTCAGC 15783

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gi | 51473102 | ref | NT\_010498.15 | \_ AACAAAATTCTTA  
TTTTATTGAGGTGAAATTCACAT---AACAAAATCA 25713  
gi | 114795057 | ref | NC\_006483.2 | N AACAAAATTCTTA  
TTTTATTGAGGTGAAATTCACAT---AACAAAATCA 27867  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCTCCACCGTTGC  
GCATGAGAGAAGTGAGCGCCTGAGCCTCCGATGTGT 16046  
gi | 194719394 | ref | NC\_007316.3 | N AGGAAATCAAAGAT  
TTTAAAAAAAATAGAACTCACAGGTTTCCTATCTGT 19081  
gi | 149361523 | ref | NC\_000074.5 | \_ AATACCATTGTTGC  
TTTGACCTAACACAAACTTCCACCCTCCAAGCTAC 15833

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCATCTCACAGTA  
AACATTGTAATGGGATCTAGTACACTCACAATGTCTG 25763

gi | 114795057 | ref | NC\_006483.2 | N ACCATCTCACAGTA  
AACATTGTAATGGGATCTAGTACACTCACAATGTCA 27917  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCCGGAAAG-----  
-----AAGGCGGGTCTGATGCCATGGAGCC----- 16081  
gi | 194719394 | ref | NC\_007316.3 | N ACCTTCAGATTAAA  
AAAAATTAATAAGTAAAAATTTAAAAATAAAA----- 19127  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCATGTGTT---  
-----CCTTAGTGCCTGGAGGACAGAGGCCAA-- 15871  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGACCACCACTT  
CTATTCAGTTCTGAAACATTTGAAAGAAACCTGTA 25813  
gi | 114795057 | ref | NC\_006483.2 | N TGTGACCACCACTT  
CTATTCAGTTCTGAAACATTTGAAAGAAACCTGTA 27967  
gi | 73957561 | ref | NW\_876316.1 | Cf ----CCGCACACAC  
CTGTGCTCGCTTGAGTCTACAAAAGCAGGATGAGGG 16127  
gi | 194719394 | ref | NC\_007316.3 | N ----CCACACAGAT  
TCAAGCATTTATGTATCTTCTACAGCCACTTGTAGA 19173  
gi | 149361523 | ref | NC\_000074.5 | \_ ----CCTGGGTCTC  
ACATGCAAAAAGTCAGTCTGACCAGGGTGGCTTCTTG 15917  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCATTAGCAGTTT  
CTCCCCATTCCCCCTTCCCAGTCCCAGTCTGCTTT 25863  
gi | 114795057 | ref | NC\_006483.2 | N CCCATTAGCAGTTT  
CTCCCCATTCCCCCTTGCCATTCCCAATCTGCTTT 28017  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----AGGCAGCATCATCCC----- 16142  
gi | 194719394 | ref | NC\_007316.3 | N AACTTCATTGAGAA  
TGTCAGGAAACATCTCCCCGG----- 19208  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCTGGTTTGGGGG  
GTTGGGGGGACTATTTCCCTG----- 15952  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCTCCTACGAAT  
TTGCCTGTCCCGGGCCTTTCCTATGAGTGG-ACTCA 25912  
gi | 114795057 | ref | NC\_006483.2 | N CTGCTCCTACGAAT  
TTGCCTGTCCCGGGCATTTCCTATGAGTGG-ACTCA 28066  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CATT



TTGCAGATGAGGGAATTGTCATCAGAGAGGTTGTCA 16182  
gi | 194719394 | ref | NC\_007316.3 | N -----CAAGACAAA  
GTCAGAGAGAGAGGCTGTGAAGTGTGGGGTCACCA 19253  
gi | 149361523 | ref | NC\_000074.5 | \_ ----CCTCTCCCAG  
TTCCGGGAGGCCACCTGCTGTTCTTAGCTTGTGACC 15998

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gi | 51473102 | ref | NT\_010498.15 | \_ CATAACCGTGTGGCC  
TTTTGTGTCTG---GCTTCTTCCGCTTAGTGTGATG 25959  
gi | 114795057 | ref | NC\_006483.2 | N CATAACCGTGTGGCC  
TTTTGTGTCTG---GCTTCTTTCTCTTAGTGTGATG 28113  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTGCCCAGGGTGA  
CACG----- 16200  
gi | 194719394 | ref | NC\_007316.3 | N CACCTCTTAAATCC  
CTCTGGGTCTTTAGGCTACTGATCTTCTATGGAATA 19303  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCATTTTATCA  
TAGAG----- 16017

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTCCAGGTTTCAT  
CTGTGTTGTAGCAAGTGTGTTTCCCAGGGCTATGGT 26009  
gi | 114795057 | ref | NC\_006483.2 | N TCTTCCAGGTTTCAT  
CTGTGTTGTAGCAAGTGTGTTTCCCAGGGCTGTGGT 28163  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
ATGCCCAAG---ATGACATGCTGGCG-AGCAG---- 16228  
gi | 194719394 | ref | NC\_007316.3 | N TTTACTGAATGCAC  
CTGCCCCATGCAAAGTGCAACTACAG-AGCTGGG-- 19350  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTCAA  
TGGCTCCATCAAGACAGTACCACACA----- 16048

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCGAGTACCAAA  
AATGTGGTGGCTTAAATTTAAATGTATTGTCTCACA 26059  
gi | 114795057 | ref | NC\_006483.2 | N CACCGAGTACCAAA  
AATGTGGTGGCTTAAATTTAAATGTATTGTCTCACA 28213  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGCTGGGCTGTGTCCTG 16245  
gi | 194719394 | ref | NC\_007316.3 | N ----TTGTTTTTAT  
TTTGCTTTTTTGTGTTTGGCTGCGCTGGGTCTTC 19396

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCTTTCAGTGTCTCTCA 16065

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCTAGAAGCCAG  
AAGTCAAAACTCAAGGAGTCAGGAGGGCTGTGCTCT 26109  
gi | 114795057 | ref | NC\_006483.2 | N GTTCTAGAAGCCAG  
AAGTCAAAACTCAAGGAGTCAGGAGGGCTTTGCTCT 28263  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTGGGGCTG----  
-----CGGTGAGGGTAAACTGAGGGC 16276  
gi | 194719394 | ref | NC\_007316.3 | N GTTGTTGCTCTCGG  
GC-TTTCTCTACTTGCGGTGAGTGGGGACT-CCTCT 19444  
gi | 149361523 | ref | NC\_000074.5 | \_ AATTCTTCACACCT  
AG-----TGTCATTGCAAGATATACACACAC 16105

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTGGAGGCTCCA  
GGGGAGGATCTGTTCCACGCTTCTCTTCAAGCTTCC 26159  
gi | 114795057 | ref | NC\_006483.2 | N CTCTGGAGGCTCCA  
GGGGAGGATCTGTTCCACACTTCTCTTCAAGCTTCC 28313  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGTGCCTGCGAGC  
ACG-----CATCCATTCGT----- 16304  
gi | 194719394 | ref | NC\_007316.3 | N TCATGGCGGTGCAC  
GAG-----CTTCTAATCGCGGTGGC 19478  
gi | 149361523 | ref | NC\_000074.5 | \_ ACACACACACACAC  
ACA-----CACACACAAGACTTA 16139

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCATGGCCAGCAA  
TCCCCAGCATTTCATTGACCGATGGACACGTCCTACTCC 26209  
gi | 114795057 | ref | NC\_006483.2 | N AGCATGGCCAGCAA  
TCCCCAGCGTTCATTGCGCGATGGACACGTCCTACTCC 28363  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CCGTTCCGGTGG  
AGCGGAG-----GGCATGTG---CC 16332  
gi | 194719394 | ref | NC\_007316.3 | N TTCTCTTGTCTGTGG  
AGCACAGGCTTAGCA-----GTCATGACGCACA 19520  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCTTTAAAAAAA  
ATCACTGTATTT-----TTTTTTTAAAATA 16178

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCTCTGCCTCCA  
TCATCACAGGGTTTTCTCCTGTGTCTCCACATGGAC 26259  
gi | 114795057 | ref | NC\_006483.2 | N AGCCTCTGCCTCCA  
TCATCACAGGGTTTTCTCCTGTGTCTCCACATGGAC 28413  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTCCACATTTCTG  
CCAGCGTCCTG----CTCCCTGATCCCGGGCTCTGG 16378  
gi | 194719394 | ref | NC\_007316.3 | N GGCTCAGTTGCCCC  
ACAGCACACGGGGTCTTCCCAGAGTAGAGGTCCAAC 19570  
gi | 149361523 | ref | NC\_000074.5 | \_ GGACTTTGCTATGT  
AACTCACACTGG-----CCTTGAATTCTTAGCAATC 16223

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCCTGTGTGCAT  
GTTTATCTCTGCAAAATTCTCCTTTTTTGCAAGAACA 26309  
gi | 114795057 | ref | NC\_006483.2 | N TTCCCTGTGTGCAT  
GTTTATCTCTGCAAAATTCTCCTTTTTTGCAAGAACA 28463  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCCG-----  
-----CCGCACTGGCGACAGGCAGAGGCTGAGAAG 16414  
gi | 194719394 | ref | NC\_007316.3 | N TCCCGT-----  
-----CCCCTGCATTGGCAAGTGGATGTTTAACCA 19606  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCTG-----  
-----CCTCAGCTTCCCAAGTGCTGAGAATGCA 16257

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGCTCATATTTGA  
CCTCATCTGACCTTGATCATTCTGTAAAGATGCC 26359  
gi | 114795057 | ref | NC\_006483.2 | N TCGCTCATATTTGA  
CCTCATCTGACCTTGATCATTCTGTAAAGACCCCC 28513  
gi | 73957561 | ref | NW\_876316.1 | Cf CCGGATCAGCCTG-  
-----ATGG----- 16431  
gi | 194719394 | ref | NC\_007316.3 | N CTGGACTACCAGGG  
GAGTCCCCAGCGTTGGGTGTTTTT--AAATCTTCAA 19654  
gi | 149361523 | ref | NC\_000074.5 | \_ CATATAAG-----  
----- 16265

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCAGATAAAGTCA

CATTCTGGTGTACCAGGTGTTAGGCTT--TCAAAGA 26407  
gi | 114795057 | ref | NC\_006483.2 | N ACTAGATAAAGTCA  
CATTCTGGTGTACCAGGTGTTAGGCTT--TCAAAGA 28561  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCGGCCTGGGAAG  
GCATCAG--GACACAG----TAATGCT--TCCACGC 16473  
gi | 194719394 | ref | NC\_007316.3 | N AACAACTGAGACA  
GATTATT--GTCCCTGGTTATAGGGCTGGTTCAGTGA 19702  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCAGTTTGTAGTAA  
ATTTTTTTTGCAGTAG----ATGTGTATCTCAGTTT 16311

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGTTTTGCAGAG  
GCCACAGTTTAACAACATTCACGTGCGTCAGTATTG 26457  
gi | 114795057 | ref | NC\_006483.2 | N ACGGTTTTGCAGAG  
GCCACAGTTTAACAATACCCACATGCGTCAGTATTG 28611  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGG-----  
--CGCAGGGCT-----TCTCACCTCG----- 16497  
gi | 194719394 | ref | NC\_007316.3 | N CCGAGGAGGATTTG  
AACCCAGGTCTGTGCAATTCCAACCTCCATG----- 19747  
gi | 149361523 | ref | NC\_000074.5 | \_ TAATATG-----  
--CACAAAGGAATTCCTGACTGTTTATCTAG----- 16347

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gi | 51473102 | ref | NT\_010498.15 | \_ CATTCTGTTTGTAG  
GCTGAGTTGATGCTCCACTGTCTGGATGGACCACAT 26507  
gi | 114795057 | ref | NC\_006483.2 | N CATTCTGTTTGTAG  
GCTGAGTTGATGCTCCACTGTCTGGATGGACCACAT 28661  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GCACTGCTGAG  
GCTTTG-TGCAG--TCATGCTCTG-CGCGCCCCATA 16540  
gi | 194719394 | ref | NC\_007316.3 | N ---CCCCTTCTGTT  
GCTCTG-TGCATCTTCCCGCTCTTGAGTTACCTAAA 19793  
gi | 149361523 | ref | NC\_000074.5 | \_ ----ATGTCAGAG  
GTGACAGGGCCCCTGTACTCTTTGTTTATTAAGCCT 16392

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGCTTCTCCATA  
ATCCGTGGATGGGCATCGGGCAGTGTCTGACTTTTG 26557  
gi | 114795057 | ref | NC\_006483.2 | N TTTGCTTCTCCATA  
ATCCGTGGATGGGCATCGGGCAGTGTCTGACTTTTG 28711

gi | 73957561 | ref | NW\_876316.1 | Cf TGTG---TAGGATG  
CTTGGCA----- 16558  
gi | 194719394 | ref | NC\_007316.3 | N TGTGGCTAAACAAC  
CCAAGTG----- 19814  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTGCTTTCTCTAG  
G----- 16407  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCTCGTGAAGT  
TGCTGCTGTGAGCAGAGTCCCTGTTTCCAGTACCCT 26607  
gi | 114795057 | ref | NC\_006483.2 | N GGTCTCGTGAAGT  
TGCTGCTGTGAGCAGAGTCCCTGTTTCCAGTACCCT 28761  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ACGTG  
CCCGGCCT----CTGCCACCAGCTGCCAGCACCCC 16595  
gi | 194719394 | ref | NC\_007316.3 | N -----ACATC  
ACCATCATTGTTATTCCAGCCATGTGCCAGAGGCCT 19855  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACCTT  
AGTTTCTGAAAGGAATCCTGCTGTCCCCTCATCACC 16448  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTTACAGAGCTG  
GGAGTGTGTAGGTGGCTTTTACTCACAGAGGGAAGT 26657  
gi | 114795057 | ref | NC\_006483.2 | N CGGTTACAGAGCTG  
GGAGTGTGTAGGTGGCTTTTACTCACAGAGGGAAGT 28811  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCCCC----CAG  
TAACAGCCAAACAGGGCTCCGAACATTGCG----- 16635  
gi | 194719394 | ref | NC\_007316.3 | N GGTCCCTGGGTCAG  
GTATGGACCTGCATTTCCCTAGGGGTTTATGGGAGGT 19905  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGATTTGGGACTT  
CTTGGGTCTTCCCTTTCCTTTTGTCCAATAG----- 16493  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGGAGGCTGGGTCC  
TCTCTCCTTTGGGCTCTGGACTCTGCCCTGCAGTC 26707  
gi | 114795057 | ref | NC\_006483.2 | N CGGAGGCTGGGTCC  
TCTCTCCTTTGGGCTCTGGACTCTGCCCTGCAGTC 28861  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AA  
AGTCCCCTGGGGCAAGGCTGCCCTGCTTGAGAAC 16673  
gi | 194719394 | ref | NC\_007316.3 | N C-----TGGACCA

TGTCACATCCTGTCTAGGCACACATATGTTTGATTC 19949  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCC  
ACTGCAGTTCTGTGATGCCTCTGCTGTGATGGGCCT 16532

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAAACACAGGGG  
AGTGAGGGAGGTCTCTGCATCCAACCCCTCTCCCC 26757  
gi | 114795057 | ref | NC\_006483.2 | N ACAAACACAGGGG  
AGTGAGGGAGGTCTCTGCATCCAACCCCTCTCCCC 28911  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCTGATTTAAAGC  
ACATAAATG-----TGCCCCCAGGACCCCG---- 16713  
gi | 194719394 | ref | NC\_007316.3 | N CAAAAAAAAGGC  
AGGATGAGGGTAGCTGGCCAGCATCACCCCTGTTTT 19999  
gi | 149361523 | ref | NC\_000074.5 | \_ TATTACTCAGAGAA  
AGAAACTGAGGCAGGGGTCAGTTTCTCACAAATATG 16582

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCAGTGTCACTGC  
AGCATGGCACCCCTGTCACCCCATGACTTCCTCAATC 26807  
gi | 114795057 | ref | NC\_006483.2 | N TCCAGTGTCACTGC  
AGCATGGCACCCCTGTCACCCCATGACCTCCTCAATC 28961  
gi | 73957561 | ref | NW\_876316.1 | Cf -CAGGAG-----  
-----GTCCGGCCTATTCCTG---AGGGA 16739  
gi | 194719394 | ref | NC\_007316.3 | N GCAGATG-----  
-----AGCAAACCTCTGATCAGTCAGGGA 20029  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGGAGG-----  
-----AACCACGATGATATCAGTCCCAGAA 16614

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCTAGCTCATTC  
CCCAGGGACATGTGGGTGGACAGCCCTGGGCCTTCA 26857  
gi | 114795057 | ref | NC\_006483.2 | N CACCTAGCTCATTC  
TCCAGGGACATGTGGGTGGACAGCCCTGGGCCTTCA 29011  
gi | 73957561 | ref | NW\_876316.1 | Cf CACAGGACTCCTCC  
A-----ACAGGCAGCGTTGGG---TCT 16772  
gi | 194719394 | ref | NC\_007316.3 | N GATTGTCATCTGCC  
CGAGGAGATGTGCTGGCAAGCGGAGCTGGAGCATCT 20079  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGACAGAGATTC  
CTGGGGTCTAAGTGAAATGAATGG---GGCCTCTGT 16661

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gi | 51473102 | ref | NT\_010498.15 | \_ GATGTCCAGAGCAC  
GTGACAAAGGTTGGGGGCACATGCTAGTCCTGCCCT 26907  
gi | 114795057 | ref | NC\_006483.2 | N GATGTCCAGAGCAC  
CTGAGAAAGGTTGGGGGCACGTGCTAGTCCTGCCCT 29061  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTGGGCC-----  
----TAAGAGTTAGCTGGGGG-----GCGGA 16802  
gi | 194719394 | ref | NC\_007316.3 | N CCTGGGCAGCACTG  
ATGGTGAGGGTAAGCAGAGCCT-----TGCGGC 20121  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTGGACAG-----  
-----ACGGGGAGGCAGAGAG-----AACGGG 16692

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAAGGCAGGGGAA  
TTGGTGCCTTTGATCTTTTTTTTTTTTTTT----- 26950  
gi | 114795057 | ref | NC\_006483.2 | N CAAAGGCAGGGGAA  
TTGGTGCCTTTGATCTTTTTTTTTTTTTTTTTTTTTTTT 29111  
gi | 73957561 | ref | NW\_876316.1 | Cf CATGAGGTGGGGTC  
TG-----CTGTAGCCCT----- 16828  
gi | 194719394 | ref | NC\_007316.3 | N TGAGAGCGGGTGTC  
TAG---TCATCCATCCT----- 20149  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAGAGCTGTTGAG  
CCTGTGTCTTCCA----- 16719

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gi | 51473102 | ref | NT\_010498.15 | \_ -----GAGACAGA  
GTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCA 26994  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTTGAGACAGA  
GTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCA 29161  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GTTG-  
----AAACTGTTGCTCGG----- 16847  
gi | 194719394 | ref | NC\_007316.3 | N -----GTGGG  
GCTAAGTACATGTGCACGG----- 20173  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGGG  
AGACCATATTTGTCCTTTG----- 16742

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gi | 51473102 | ref | NT\_010498.15 | \_ TGATCTTGGCTCAT  
TGCAACCTCCGCCTTCCAGGTTCAAGCAATTCTCCC 27044  
gi | 114795057 | ref | NC\_006483.2 | N TGATCTTGGCTCAT  
TGCAACCTCCGCCTTCCAG----- 29194  
gi | 73957561 | ref | NW\_876316.1 | Cf -GGACG-----CCT  
GG----- 16857  
gi | 194719394 | ref | NC\_007316.3 | N -GCACTGATGTCAT  
GGGCTCCAGCTCATGAGTG----- 20205  
gi | 149361523 | ref | NC\_000074.5 | \_ -----T  
AGGTTCCAG----- 16752

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gi | 51473102 | ref | NT\_010498.15 | \_ TGACTCTGGCTCAT  
TGCAACCTCCGCCTTCCAGGTTCAAGCAATTCTCCC 27094  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----GTTCAAGCAATTTTCCC 29211  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----G 16858  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TCCA 20209  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CC 16754

gi | 51473102 | ref | NT\_010498.15 | \_ TGACTCAGCCTCCA  
GAGTCGCTGAGATTACAGATGCCTGCCACCATGCCT 27144  
gi | 114795057 | ref | NC\_006483.2 | N TGACTCAGCCTCCC  
GAGTAGCTGAGATTACAGATGCCTGCCACCATGCCT 29261  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCTCAGCGGTTG  
-AGCGTCTG-----CCTTCTG----- 16887  
gi | 194719394 | ref | NC\_007316.3 | N TGGAGCAGCCTCTG  
-GGCACCAGGTGCTGGCCCCGCCTTCTGGAGGGGCT 20258  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAGCCTGCTGCTG  
GAGGAAGCTTCTCTGAGAAGTCTCTGTG----- 16796

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTAATTTTTGTA  
TTTTTACAAAATACCATGTTGGCCAGGCTGGTCTCG 27194  
gi | 114795057 | ref | NC\_006483.2 | N GGCTAATTTTTGTA



TTTTTACAAAATACCATGTTGGCCAGGCTGGTCTCG 29311  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GAGTTGTGAGCAGA  
GGGAGGCATTTAAGTGATAGTCACTTGCTGGTCATT 20308  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACTCCTGACTTTA  
GATGATCTGCCTGCCTCAGCTTC--CCAAAGTGCTG 27242  
gi | 114795057 | ref | NC\_006483.2 | N AACTCCTGACTTTA  
GATGATCTGCCTGCCTCGGCTTC--CCAAAGTGCTG 29359  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTCAG  
GGTGTG-----ATCCTGGGGTC--CCAGG----- 16914  
gi | 194719394 | ref | NC\_007316.3 | N ATGCATGTGACCGT  
GGTGTAGGCGCCATCAAGGGGACGTCCAGGGTGCTG 20358  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCTTGG  
GCTGTTG-----CCTCAGGGTTCCACATGG----- 16827

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATTATAGGTATG  
AGCCACTGTGTCTGGCCCTTTTCTTCTGGATTTTAA 27292  
gi | 114795057 | ref | NC\_006483.2 | N GGATTATAGGTATG  
AGCCACAGTGTCTGGCCCTTTTCTTCTGGATTTTAA 29409  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----ATTGAGTCTCGCATCGGGCTCCCTGCAATGG- 16945  
gi | 194719394 | ref | NC\_007316.3 | N -----  
----AGAGGGTAGAGCAGGTGGCTGTCTGGTCTGAG 20390  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----GAACAGCAGGCTGTTTGCTGCAGG----- 16851

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTGGTAAAATAT  
ACATAACATAAAAATTCACCATTTTAAACCATTTTAA 27342  
gi | 114795057 | ref | NC\_006483.2 | N TTGTGGTAAAATAT  
ACATAACATAAAAATTCACCATTTTAAACCATTTTAA 29459  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGCCTTCTTCTCCCTCTGCCTGTG- 16969

gi | 194719394 | ref | NC\_007316.3 | N ATGT-----  
---CAGGACAAGACAGTCCTTGACCTCTGAAGTGAG 20427  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAAACATCACTCTGGGGTCACAGAGGA 16878

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTATGGCTCTCT  
GGCATTAAAGTATATTCCCATTGTTATGCAACCATCA 27392  
gi | 114795057 | ref | NC\_006483.2 | N GGGTATGGCTCGCT  
GGCATTAAAGTATATTCCCATTGTTATGCAACCATCA 29509  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TCTCTGCCTCT  
-CTCTCTCTCTCTCTCT-CTCTCTCTCTGTCTCTCA 17014  
gi | 194719394 | ref | NC\_007316.3 | N ACTTCTTGCCCTCA  
GCAGTATAGACCTTTCTGTTCCAAGTCATTCTTGT 20477  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCATGGGGCAGGG  
AAGGTCAGGTAGTATGGGATTCTATTGTACCAAACC 16928

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAATATTTGCCTC  
CAAAACTCTCATCTTTCCCAAAGAGACTCTGTAGTC 27442  
gi | 114795057 | ref | NC\_006483.2 | N CCAATATTTGCCTC  
CAAAACTCTCATCTTTCCCAAAGAGACTCTGTAGTC 29559  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAATAAATGAAAT  
CTTTAAAAGCAATTAATTAATGAGG----- 17053  
gi | 194719394 | ref | NC\_007316.3 | N AAGGTA CTTGACCG  
CATACCTGGCCTCTACCCACTAGATGCCAG----- 20521  
gi | 149361523 | ref | NC\_000074.5 | \_ CACAGAGGTCAAAC  
CTCAGAGAAAATAAGGCTATGTTTG----- 16967

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTAAACACTAACT  
CCCCAGCCCGGTTACCTCTGCTCTCCTTTCTGTCTC 27492  
gi | 114795057 | ref | NC\_006483.2 | N ATTAAACACTAACT  
CCCCAGCCCGGTTACCTCTGCTCTCCTTTCTGTCTC 29609  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGCCCCAG  
TG---GCTCAGCGGTTTAGCGCCACCTTCAG----- 17090  
gi | 194719394 | ref | NC\_007316.3 | N ---TACCACCCCTG  
CTTCAGTTATGAGGACTAAACACATCTCCAAGCACT 20568  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGAAGA

CTGGGGAGGAGGGGTCAAGGGGAGCAGACAGG---- 17005

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGAGTTTGACTA  
TTTTAGGGACCTCCTGTA ACTGGAGTCCTATAGGAT 27542  
gi | 114795057 | ref | NC\_006483.2 | N TGTGAGTTTGACTA  
TTTTAGGGACCTCCTGTA ACTGGAGTCCTATAGGAT 29659  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCA  
GGG-----CGTGATCCTG----- 17107  
gi | 194719394 | ref | NC\_007316.3 | N AACAAAGTCCCCCA  
GGGGGGAAACTGCCCTTGGTTCGAGATCCCTTGATTT 20618  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GGT  
GGGGTGGGGGTGGGGTGGAACAGGACACAG----- 17038

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTCCTTTTCGGGT  
CTGGCTTATTTTACCAGGCATAACATCTTCAAGGTT 27592  
gi | 114795057 | ref | NC\_006483.2 | N TTGTCCTTTTCGGGT  
CTGGCTTATTTTACCAGGCATAACGTCTTCAAGGTT 29709  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--GAGACCTGAGATCAAGTTCCACATCTG----- 17134  
gi | 194719394 | ref | NC\_007316.3 | N TA----TGTTTGGT  
TTGGCAGCCGGGAAAATGTGCCATCTTCAGCAGGGG 20664  
gi | 149361523 | ref | NC\_000074.5 | \_ -----A  
ATGGGGACAGACATCTGAGGGAGTGTCAG----- 17068

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gi | 51473102 | ref | NT\_010498.15 | \_ CATCCATGTTGTAG  
CATGTGTGGGTTTTGGGCAGTCACATTGAAGGTAAT 27642  
gi | 114795057 | ref | NC\_006483.2 | N CATCCATGTTGTAG  
CATGTGTGGGTTCTGGGCAGTCACATTGAAGGTAAT 29759  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GCTT  
CCTGCATGGAGTCTG----- 17153  
gi | 194719394 | ref | NC\_007316.3 | N CACTGGAGTAGCAC  
ACTCCTGGGGGTCACGGGA----- 20697  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTA  
CCATAGCCAGGTCATG----- 17087

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGCTCTTATCCT  
GAGAGCACTGGAATCTCTGCAAGTGTTTTCAAGCAT 27692  
gi | 114795057 | ref | NC\_006483.2 | N TGGGCTCTTATCCT  
GAGAGCACTGGAATCTCTGCAAGTGTTTTCAAGCAT 29809  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTTCTCCC  
TCTGCCTG-----TCTCTGCC----- 17177  
gi | 194719394 | ref | NC\_007316.3 | N -----CTCCTCCA  
GTGGGCAGGGGATTTTTAGCTAGG----- 20729  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGACA  
TGGGTGTGTCTGATAGCAGCCAGG----- 17116

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGGCGTGTGTGTG  
TGTGTGTGTGAG-----ATGGGATTTATGTGTT 27734  
gi | 114795057 | ref | NC\_006483.2 | N CGGGCGTGTGTGTG  
TGTGTGTGTGTGTGTGTGTGATGGGATTTATGTGTT 29859  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCTCTC 17183  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TATACT 20735  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATCTAAG 17123

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGAGCCAGGTGCA  
GTGGCTCACGCCTGTAATCTCAGCACTTTTGGAGGC 27784  
gi | 114795057 | ref | NC\_006483.2 | N TCGAGCCAGGTGCA  
GTGGCTCACGCCTGTAATCTCAGCACTTTCGGAGGC 29909  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTCTCTCT-----  
----CTCATGAATAAATAAATAAAAATCTTAAAAG-- 17222  
gi | 194719394 | ref | NC\_007316.3 | N GCTGCCCT-----  
----CCCAGACCAGGAGGGAGGAACACAGGGAGGGT 20776  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCACCAAG-----  
----CCTGTGTGTGAGGTATGTGTATGTATTTGTGT 17165

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGGCAGGCAGAT  
CACCTGAGGTCAGAAATTTGAGACCAGCCTGGCCAA 27834

gi | 114795057 | ref | NC\_006483.2 | N TGAGGCAGGCAGAT  
-ACCTGAGGTCAGAAATTTGAGACCAGCCTGGCCAA 29958  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAATTAAT  
-----TAAATAATTAATATAAAAAAGAAAA 17255  
gi | 194719394 | ref | NC\_007316.3 | N GGGTGCAGGTGGG  
-----GGTCTGCTGCAGCCATTTTGGAGAC 20815  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGCACATGTATAT  
-----ATGTCTGTGTATGCCTTTGATTGTAT 17205

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGTGAAAACCC  
GTCTCTACTAAAAATACAAAAACAAATTAGTGAGGC 27884  
gi | 114795057 | ref | NC\_006483.2 | N CATGGTGAAACCCC  
GTCTCTACTAAAAATACAAAAACAAATTAGCGAGGC 30008  
gi | 73957561 | ref | NW\_876316.1 | Cf CCATGGGTTTTATC  
CTGACAGCAGTT-AAATCTATCCAATG-TTTCAGC 17303  
gi | 194719394 | ref | NC\_007316.3 | N AGTAGGGTTCTGTC  
CTGAGAGCAACTGGAATCTATCCAAATGTTTCCAAC 20865  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGAGTATTTGTAT  
ATATGTGTATTTGTGTGTGTATGTATGTATATATGT 17255

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGCGGTGCGTGC  
CTGTAGTCCCAGCTACTGGGGAGGGTGAGGCAGGAG 27934  
gi | 114795057 | ref | NC\_006483.2 | N GTGGTGGTGCGTGC  
CTGTAGTCCCAGCTACCGGGGAGGCTGAGGCAGGAG 30058  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGGT-GTATGTGT  
AG----- 17318  
gi | 194719394 | ref | NC\_007316.3 | N ATGGG-ATATGTGT  
GTGTT-----TGTGAGAGAGAGAAAGAGA 20902  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTCTGTCTATAT  
GTATG----- 17274

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCGCTTGAACCC  
GGGAGGAGGAGGTTGTAGTGAGCCGAGGTTCGCACCA 27984  
gi | 114795057 | ref | NC\_006483.2 | N ACCCACTTGAACCC  
GGGAGGAGGAGGTTGCAGTGAGCCGAGGTTCGCACCA 30108  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

--GGGGTGGGGGTG-----GGGCAGGGG-----A 17340  
gi | 194719394 | ref | NC\_007316.3 | N GAGACAGAAAGACA  
GAGAGGAGAAGGTG-----GAGGAGAGG-----G 20940  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
TATATGTGTGTGTG----- 17288

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCACTCCAGCCT  
GGGTGACAGAGTGAGGCTCTATCTCAAAAAAAAAAAAA 28034  
gi | 114795057 | ref | NC\_006483.2 | N CTGCACTCCAGCCT  
GGGTGACAGAGTGAGACTCTATCTCAGAAAAAAAAAAAA 30158  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGGACTTATGATT  
TTGGGGGTCATTCAGACACTCTATCAAAAGTGAGTT 17390  
gi | 194719394 | ref | NC\_007316.3 | N CTGGATTTATACAT  
TCAGAGTTGCTTGAGCTGCTACCTAAAAGTGAATT 20990  
gi | 149361523 | ref | NC\_000074.5 | \_ -TGTATGTATGTGT  
GTGAACACACATGATGTTTCAAGGTCACAGGATACT 17337

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAAAAAAAAAAAGG  
AAAAGTGAATTCGGTGTAGTGAGTCACAAATGGCAA 28084  
gi | 114795057 | ref | NC\_006483.2 | N AAAAAAAAAAAAAAGG-  
-----AATTCGGTGTAGTGAGTCAGAAATGGCAA 30200  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGTGTG-----  
-----ATCATGGCCACAAAGAAATGGCAA 17421  
gi | 194719394 | ref | NC\_007316.3 | N GGGTGTGG-----  
-----TTGGTTGTGGCCAGACAGAAATGGTAA 21025  
gi | 149361523 | ref | NC\_000074.5 | \_ GCATTTGG-----  
-----AAAGTGAGTGTGGCTTAGCCA 17366

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTGAGGGCAGCT  
GAGTGAGTGTGGGGGATGGGGGGAGTGCCAGCCTG 28134  
gi | 114795057 | ref | NC\_006483.2 | N GGCTGAGGGCAGCT  
GAGTGAGTGTGGGGGATGGGGGGAGTCCCAGCCTG 30250  
gi | 73957561 | ref | NW\_876316.1 | Cf GACCTGGAATGGCC  
AG-----CTGG-----ACAGGACCA 17450  
gi | 194719394 | ref | NC\_007316.3 | N GCTAGGGAACAGCC  
AG-----GCAGGAAGTTCCTGTAACCCAGGACTG 21069

gi | 149361523 | ref | NC\_000074.5 | \_ GAGGGAGAGGCACG  
GG-----TGTGCTCACACCAGGGCTG 17401  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCCACCTGTGGT  
GTGCGCAAGAATCAAGCACTTTATTTGGTACGACGG 28184  
gi | 114795057 | ref | NC\_006483.2 | N CCTCCACCTGTGGT  
GTGAGCAAGAATCAAGCACTTTATTTGGTACAACGG 30300  
gi | 73957561 | ref | NW\_876316.1 | Cf AAACCATGGGTGGT  
ATGAACAGGAACTGAGGACTTAATTTGGCGTGATGA 17500  
gi | 194719394 | ref | NC\_007316.3 | N CCTCCATCTGTGGT  
GTGAGCAAGAATTAAGCCCTCGATTTGGTACACTTG 21119  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTTCCCATGCGAC  
AGGAGCAAGTGTAAGGAGCTTGGATGGGCACTGCAG 17451  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGCAGATCTTGAG  
AATGG---GGGGAAAAGTCTTGTGCAATCCACATTT 28231  
gi | 114795057 | ref | NC\_006483.2 | N AAGGAGATCTTGAG  
AATGG---GGGGAAAG-TCTTGTGCAATCCACATTT 30346  
gi | 73957561 | ref | NW\_876316.1 | Cf AACCAGAGCTTAGG  
AACAGAAAACAAAACAAAAAAGCACAAACAGAAAAA 17550  
gi | 194719394 | ref | NC\_007316.3 | N AACCAGGTCTTGAG  
AGCAG---ACAAAACATCCTGTCTCGGGCTGTGATG 21166  
gi | 149361523 | ref | NC\_000074.5 | \_ GACTAG-----  
-----AGCCAACAGTCCAGTGGCACATAT 17481  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTTTG--AAGTA  
ACTCTACAAAGAATGCAATGTTGACTTAAGGAGGGC 28279  
gi | 114795057 | ref | NC\_006483.2 | N TTCTTTG--AAGTA  
ACTCTACAAATAATGCAATGTTGACTTAAGGAGGGC 30394  
gi | 73957561 | ref | NW\_876316.1 | Cf AACATTGTCTTACT  
TTGTGATGCATGTTTCTCTTAAATGCTGACTTAGAA 17600  
gi | 194719394 | ref | NC\_007316.3 | N TACATT---TCTCC  
AGGAGGTGGATCTCGCACAGTGAAGATGGTGAGGTC 21213  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCTCTG--TAGAG  
GGAATCTGCACCAAGCTCATTATTGGCATGGAGGCA 17529  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCCCAATGGATGGC  
TAAGCCTGCTTAAAGAT-CTGCGTAAT--CGCTGCT 28326  
gi | 114795057 | ref | NC\_006483.2 | N TCCCAATGGATGGC  
TAAGCCTGCTTAAAGAT-ATGCGTAAT--CGCTGCT 30441  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGCTCATGAAAAT  
TGGGGGCACCCGTTGAA-TGTGATCATGGCTGTGCT 17649  
gi | 194719394 | ref | NC\_007316.3 | N GACTTATGGAGAGA  
GTCGGGGGAGTGATACG-TGTAATAAT--CCTTGGT 21260  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCCGGGGACCACA  
GAGCCTGGCGAGGAGCTGTGTCCTTACCGCCAGGCT 17579

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCTCCTGGGCAC  
TGGGCATGAGTGAGAAGCAGCCGCATGAAACCGAGG 28376  
gi | 114795057 | ref | NC\_006483.2 | N GTCCTCCTGGGCAC  
TGGGCATGAGTGAGAAGCAGCCGCAGGAAACCGAGG 30491  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGTTCCTGGTTG-  
TGGCACAAG--GGGCA--ATGACAAGGAAGTGGATG 17694  
gi | 194719394 | ref | NC\_007316.3 | N TGCTTCCTGGTCGT  
TGGCACAGT--GAGAAGCAACCCCGAGGAAGTGGGTG 21308  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTGGTTTC  
TGATAACCAG--ACGCAGAATCCCAG--AGGTGAATG 17619

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGTAGCACAGCT  
TTTCTAAGCAAATAGGCATTTGGGAGGAGATGGTTT 28426  
gi | 114795057 | ref | NC\_006483.2 | N TGGCTAGCACAGCT  
TTTCTAAGCAAATAGGCATTTGGGAGGAGATGGTTT 30541  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGTTGGCAGAGCA  
TTTCTCAGCACCAAGGCGTTTGAGAGACCCTG---- 17740  
gi | 194719394 | ref | NC\_007316.3 | N TGGTCAGCAGCCCA  
TTTCTGAGCAAATGGGGCCTTTGGGACATGAG---- 21354  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGTTGCTGGTCCC  
TAT--AACAAATGGGCTGTCAGGTGCTAACTCTT- 17665

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGTTGGGGAGGG



CGGCTGTCAAGAAGGAAGAGTGGGATTTGCAATCTC 28476  
gi | 114795057 | ref | NC\_006483.2 | N GGGGTTGGGGAGAG  
CGGCTGGCAAGAAGGAAGAGTGGAAATTTGCAATCTC 30591  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TTGGGGATGGG  
TGGCTGGCACGAAGGACAAAGGGACTTTGCCATCTC 17787  
gi | 194719394 | ref | NC\_007316.3 | N ---GGGCAGGGAGC  
AGTTTGGCATGAAGTAAAAGGGGGACTTGCTGTCTC 21401  
gi | 149361523 | ref | NC\_000074.5 | \_ ---GCTTGGGGTGC  
TGCCTTGGAGAGAAAGGACGAGGAACTTG--GATTC 17710

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gi | 51473102 | ref | NT\_010498.15 | \_ TATTACAGCTAAAG  
GAGGAAG---TTACTCAATACCT-CTCCTGCTTCCT 28522  
gi | 114795057 | ref | NC\_006483.2 | N TATTACAGCTAAAG  
GAGGAAG---TTACTCAATACCT-CTCCTGCTTCCT 30637  
gi | 73957561 | ref | NW\_876316.1 | Cf TACTCTAGCTGAAG  
GAAGGG---GTTGGCCATTGCCTTCCTCTGCTTCCT 17834  
gi | 194719394 | ref | NC\_007316.3 | N TATTTCAGATGAAG  
GAAGAGGCTGTTAGGCAGAGCCT--CTCCCCTTCCT 21449  
gi | 149361523 | ref | NC\_000074.5 | \_ CACCTCAGCTGAAG  
GAAGATG-----CCACCACCT--CTTCCCTTCCT 17751

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTCCCAGTTTCC  
AGTAACCTGGTGGAAAAGGAAAAGATGATTATCACA 28572  
gi | 114795057 | ref | NC\_006483.2 | N CTTTCCCAGTTTCC  
AATAACCTGGTGGAAAAGGAAAAGATGATTATCACA 30687  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTCCCAGTGCCC  
AACAACCTGCTGGAAAAGGAAAAGATGATTATCATG 17884  
gi | 194719394 | ref | NC\_007316.3 | N CCTTCCCTGTG-CC  
AACTACCTGGTG-AAAAGGAAAAGATGATTATCTAG 21497  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTCCCAGTTCCC  
AGTGACGGCCTG-AGAAGGAAGAGATGATATCATGT 17800

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTGGG-TATCAG  
GATGCTAGGAATGGTTTTGCAAAAATACCTCACACT 28621  
gi | 114795057 | ref | NC\_006483.2 | N TCCTGGG-TATCAG  
GATGCTAGGAATGGTTTTGCAAAAATACCTCACACT 30736

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gi | 73957561 | ref | NW_876316.1 | Cf          TCCTGGGGGATCAG
AATACCAGGAATCACTTTGCAAAAATACCTAGCATT 17934
gi | 194719394 | ref | NC_007316.3 | N          TCCTGGG-TGTCAG
AATACTAGGAATAAGTTTGCAAAAATACTCACCATT 21546
gi | 149361523 | ref | NC_000074.5 | _          CCCCCGTG---TCAG
CATTCTGGGAAGAGCGCTGTAAACATCTTGATGTGC 17847
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gi | 51473102 | ref | NT_010498.15 | _          TTTCCGCTTCTGAG
GTCTCCTTTGTATTAGCAAAGCCTCCCGAAGCCTCC 28671
gi | 114795057 | ref | NC_006483.2 | N          TTCCTGTTTCTGAG
GTCTCCTTTGTATTAGCAAAGCCTCCCGAAGCCTCC 30786
gi | 73957561 | ref | NW_876316.1 | Cf          TTCCTGATTGAGC-
---TCTTCTGTGCTATCATGTCTTCCCATGGCCTTC 17980
gi | 194719394 | ref | NC_007316.3 | N          CTCCTATCTGAG--
-----GTTACCATGTCCTCCCGTGCCCTTC 21583
gi | 149361523 | ref | NC_000074.5 | _          CCTGGCGCTGAGG-
----TCTGTCTGTTGTGCGAGTGTCCCGGG-CCTCT 17891
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gi | 51473102 | ref | NT_010498.15 | _          AGGTGTTTCACGTG
GCTTCTTTCCAGG---CCCGCAGGTCTCAACA----- 28714
gi | 114795057 | ref | NC_006483.2 | N          AGGTGTTTCACGTG
GCTTCTTTCCAGG---CCCGCGGGTCTCAACA----- 30829
gi | 73957561 | ref | NW_876316.1 | Cf          GGGCTTTTCATATG
GCTGCTTCCCAGG---CCGCCAGATACCCAG----- 18023
gi | 194719394 | ref | NC_007316.3 | N          AGGTCTTTCACGTG
GCTTCTTCCCAGA---CCTGCTGGGCACCCAG----- 21626
gi | 149361523 | ref | NC_000074.5 | _          GGGCATTTGATGTG
CCTTGGGGTCTGGGCACAGATCTCAGCCCTGGAGAA 17941
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gi | 51473102 | ref | NT_010498.15 | _          -CAGAGTGCTGGGA
CTTCCAGAACTTGTTGTGTTTCCCCTCCCCTTTTC 28763
gi | 114795057 | ref | NC_006483.2 | N          -CAGAGTGCTGGGA
CTTCCAGAACTTGTTGTGTTTCCCCTCCCCTTTTC 30878
gi | 73957561 | ref | NW_876316.1 | Cf          -AACTCAGCTGGGT
TCCCCCCTTTCTTGGGTTATTGCA----- 18062
gi | 194719394 | ref | NC_007316.3 | N          -ACCTCAACTGGGT

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TTCCCCCTTTTCTTCAGTTCAGTTCAGTCGCTCAGT 21675  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTAACAGGTGGCC  
TCTACCCGTTTCCTGGAATTATTTAG----- 17981

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTG-----  
-GTTATTTAAAATGTCCCATAGAACCAGGCTGTGAT 28802  
gi | 114795057 | ref | NC\_006483.2 | N TTTG-----  
-GTTATTTAAAATGTCCCATAGAACCAGGCTGTGAT 30917  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AATGACACAGAACAGGCTGTGAT 18085  
gi | 194719394 | ref | NC\_007316.3 | N CGTGTCCGACTCTT  
TGCGACCCCATGAATCGCAGCATGCCAGGCCTCCCT 21725  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAAAGCTTGTAGAACTAGGGTGTGAT 18007

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCACCTATCATCA  
GTAGGAGG-CACTCTCTGCAATATGGTGCATACTTG 28851  
gi | 114795057 | ref | NC\_006483.2 | N ACCACCTATCATCA  
GCGGGAGG-CACTCTCTGCAATATGGTGCATACTTG 30966  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCACTTATCCTCA  
CCAGGG----- 18105  
gi | 194719394 | ref | NC\_007316.3 | N GTCCATCACCAACT  
CCTGGAGTTCACTCAAACCTCATGTGCATCGAGTCGG 21775  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCACATATTGCCA  
CAGGGGG----- 18028

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGAGAATCCTGG  
AAGTTCGAGGTTTCAGGATTCTACATATGTATATTGT 28901  
gi | 114795057 | ref | NC\_006483.2 | N ATGGAGAATCCTGG  
AAGTTCGAGGTTTCAGGATTCTAAATATGTATATTGT 31016  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GG  
CTTTCCCT-----ACAGTGTTG-----TACT 18128  
gi | 194719394 | ref | NC\_007316.3 | N TGATGCCATCCAGC  
CATCTCAT-----CCTCTGTCGTCCCCTTCTCC 21817  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CACT  
CTCTACAG-----TTTA 18044

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gi | 51473102 | ref | NT_010498.15 | _      TGCCCTACTCTGTC
CACTTACAAGTTTCAATTCTGTAAAATAAGTTTCGCT 28951
gi | 114795057 | ref | NC_006483.2 | N      TGCCCTACTCTGTC
CGCTTACAAGTTTCAATTCTGTAAAATAAGTTTGCT 31066
gi | 73957561 | ref | NW_876316.1 | Cf     TACTTGACCGAGAA
TCCCAGAAGTTCAAGATTGGGGATTCTAAATGTGCT 18178
gi | 194719394 | ref | NC_007316.3 | N      TCCTGCCCCAGTC
CCTCCCAGCATCAAGGTCTTTTCCAATGAGTCAACT 21867
gi | 149361523 | ref | NC_000074.5 | _      TGCTTAACCTGGAT
TCCCACCGTG---AGGTCATGTCAAATGT----- 18084

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gi | 51473102 | ref | NT_010498.15 | _      CAGCCTGGGCAACA
TAGGGAGACCCTGTCCCTACAAAATATTAATAAATT 29001
gi | 114795057 | ref | NC_006483.2 | N      CAGCCTGGGCAACG
TAGGGAGACCCTGTCCCTAGAAAATATAAAAAAATT 31116
gi | 73957561 | ref | NW_876316.1 | Cf     CG-----TTACT
G-----CCCTGCTCTG---GCACTTCCGTG-- 18207
gi | 194719394 | ref | NC_007316.3 | N      CT-----TCACA
TGAGGTGGCCAAAGTACTG---GAGTTTCAGCCTC 21906
gi | 149361523 | ref | NC_000074.5 | _      -----
-----CACCTAACCCTG----- 18097

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gi | 51473102 | ref | NT_010498.15 | _      AGCCAGGCACAATA
GCATGCACCTGTGGTCCTGCTATTCAGGAGGCTGAA 29051
gi | 114795057 | ref | NC_006483.2 | N      AGCCAGGCACAGTA
GCATGCACCTGTGGTCCTGCTATTCAGGAGGCTGAA 31166
gi | 73957561 | ref | NW_876316.1 | Cf     -----CATTC
CAGT---TCTGTTCAATAAATTTGCTTAAAAACAGA 18245
gi | 194719394 | ref | NC_007316.3 | N      AGCATCAGTCCTTC
CAATGAACACTCAGAACTAATCTCCTTTAGGGTGGA 21956
gi | 149361523 | ref | NC_000074.5 | _      -----
-----CTAAAGAGGTTGTTTCATGCAGCTGGTCAGA 18128

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGGAGGATCACC  
TGAGCCTGGGAGGTTGAGGCTGCAGTGAGCTATGAT 29101  
gi | 114795057 | ref | NC\_006483.2 | N GCAGGAGGATCACC  
TGAGCCTGGGAGGTTGAGGCTGCAGTGAGCTATGAT 31216  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAAGTGGGGCACC  
TGGGTGGCTCAGG---CAGTTAAGC---ATCTGCC 18288  
gi | 194719394 | ref | NC\_007316.3 | N CTGGTTGGATCTCC  
TTGCAGTCCAAGGGACTCACAAGAGT---CTTCTCC 22003  
gi | 149361523 | ref | NC\_000074.5 | \_ TCATTGAGACGGCA  
AAGTGCTCTGATGCACAGACATGAGG-ATCTGAGCA 18177

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCACCACTGCACT  
CCAGCCTGGGTGACAAAAAAAAAAAAAAAAAACTTG 29151  
gi | 114795057 | ref | NC\_006483.2 | N TGCACCACTGCACT  
CCAGCCTGGGTG--ACAAAAAAAAAAAAAAAAAACTTG 31264  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCAGCTCAGGTCC  
ATG-----ATCTCAGGGTCCTG---G 18320  
gi | 194719394 | ref | NC\_007316.3 | N AACACCACAGTTCA  
AAAGCATCAATTCTTCAGTGCTCAGCTTTCTTCATA 22053  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGTCCCAGGCC  
ACA-----CAGACATGAGTATGGTAGT 18213

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTAAAAATAGATG  
CATCAGTATTAGCCAACAACACTGGAACCCA 29201  
gi | 114795057 | ref | NC\_006483.2 | N CTTAAAAATAGATG  
CATCAGTATTAGCCAACAACACTGGAACCCA 31314  
gi | 73957561 | ref | NW\_876316.1 | Cf GATCGAGCCC--CA  
CGTCGG-----GATCCCTG----- 18346  
gi | 194719394 | ref | NC\_007316.3 | N GTCCAACCTCT--CA  
CATCCATACATGACCCTGGAAAAACCA--TAGCCT 22099  
gi | 149361523 | ref | NC\_000074.5 | \_ ACACATGTGGAATA  
CATCTGTAACCTAACCCGG----- 18246

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gi | 51473102 | ref | NT\_010498.15 | \_ GATATTCATCAACA  
GGAGAACAAATACAATGTGATCTACTCATAACAGTGG 29251  
gi | 114795057 | ref | NC\_006483.2 | N GATATTCATCAACA

GGAGAACAAATATATTGTGATCTACTCATAACAGTGG 31364  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCAGTGGGAGCCTGCTTCTCCCTCTG 18374  
gi | 194719394 | ref | NC\_007316.3 | N TGACTIONAGATGGACC  
TTTGTGGCAAAGTAACGTCTCTGCTTTTGAATATG 22149  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GCACCAGTGTGCAGAGCCAGGTG 18269

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gi | 51473102 | ref | NT\_010498.15 | \_ AATACTAAGCTGCT  
GTGAAAATTAGCGTACTGTTGCTACATGCATTCTCA 29301  
gi | 114795057 | ref | NC\_006483.2 | N AATACTAAGCTGCT  
GTGAAAATTAGCGTACTGTTGCTACATGCAATAT-- 31412  
gi | 73957561 | ref | NW\_876316.1 | Cf C-----  
---CCCTTTCCCTGCTTG----- 18390  
gi | 194719394 | ref | NC\_007316.3 | N CTATCTAGGTTGGT  
CATAACTTTCCTTCCAAGGA---GTAAGCATCTTTT 22196  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
----- 18270

gi | 51473102 | ref | NT\_010498.15 | \_ CTTGTATAAATCTC  
ACTAACAATGTTGAGTGAAAGAAATCAGACAAGAAA 29351  
gi | 114795057 | ref | NC\_006483.2 | N CTTGTATAAATCTC  
ACTAACAATGTTGAGTGAAAGAAATCAGACAAGAAA 31462  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGC  
TGTCTCTCTCT-----CAAATAAA 18412  
gi | 194719394 | ref | NC\_007316.3 | N AATTTTCATGGCTGC  
GATCACCGTCTGCAGTGATTTTGGAGCCCCAAAAAA 22246  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
AGTCTCAGGGTTCAG-----GGCCA 18291

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gi | 51473102 | ref | NT\_010498.15 | \_ GCATGTATGAGTGT  
ATACTGCATGGCACCATTTCCATAAAGTTCAAACCC 29401  
gi | 114795057 | ref | NC\_006483.2 | N GCATGTATGAGCGT  
ATACTGCATGGCACCATTTCCATAAAGTTCAAACCC 31512  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAAATCTTT----  
-----AAAACCTAGCAAAAAAAAAAA 18442

gi | 194719394 | ref | NC\_007316.3 | N TAAAGTCTTAGGTT  
ATTGCAAATGTCTCCCAAACAGGCCATGATACCAC 22296  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTAGTTTTG----  
-----CCAACAGGTGAATCCTT 18318

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCCAACCTAATC  
TATGAGGATTGAAACCATGACAGCAGTTACCCCTCA 29451  
gi | 114795057 | ref | NC\_006483.2 | N TGGCCAACCTAATC  
TATGAGGATTGAAACCATGACAGCAGTTACCCCTCA 31562

gi | 73957561 | ref | NW\_876316.1 | Cf TATGCATCAGTAG-  
-----TAGCCGACCACTAG----- 18469

gi | 194719394 | ref | NC\_007316.3 | N CAGTCACCATCGG-  
-----GAACCATTTCTCTGTGGTTCAGTGCCT 22335

gi | 149361523 | ref | NC\_000074.5 | \_ GGTTCAGTGAGAG-  
-----ACCCTGTCTCTTA----- 18344

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTAGGTAGGTTGG  
CCAAGGGAGCATCAGGGGACCAGTCATATCTGTTTC 29501

gi | 114795057 | ref | NC\_006483.2 | N GGTAGGTAGGTTGG  
CCAAGGGAGCATCAGGGGACCAGTCATATCTGTTTC 31612

gi | 73957561 | ref | NW\_876316.1 | Cf -----AAACAA  
CCCAAAGA---TCCAT----CAAGAGTAGAATGAAC 18504

gi | 194719394 | ref | NC\_007316.3 | N TCTTAACTGAGAAT  
CCCAGAAG---TTCAAGGTCCAGGGTTCTAAATCTG 22382

gi | 149361523 | ref | NC\_000074.5 | \_ -----AAAAAAA  
CCTGAACA-----CAATGATGAAAATCCC 18375

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAATTTGGGGGCT  
GGTTATAAGGGTTAGTTTGTGAGCTGTACACATATG 29551

gi | 114795057 | ref | NC\_006483.2 | N TTAATTTGGGGGCT  
GGTTATAAGGGTTAGTTTGTGAGCTGTACACATATG 31662

gi | 73957561 | ref | NW\_876316.1 | Cf AAATAAATTGGCAT  
AAACT-----CCTTCAGTGGAAT 18536

gi | 194719394 | ref | NC\_007316.3 | N TAAATTGTTGCCCT  
GCTCTGTCAGCTTTGTGATTTTCCATTCAGTAAAAT 22432

gi | 149361523 | ref | NC\_000074.5 | \_ ACATGTT-----

-----AACTACATATATG 18395

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gi | 51473102 | ref | NT\_010498.15 | \_ CACACTGTGTGTGTGT  
GTGTTTTATGCTTTAAAAAAAACACATGTGGCCGGG 29601

gi | 114795057 | ref | NC\_006483.2 | N CACACTTTGTGTGTGT  
GTGTTTTATGCTTTAAAAAAAACACATGTGGCTGGG 31712

gi | 73957561 | ref | NW\_876316.1 | Cf ACTGTG-----  
---CAGCCATGGAGATTAGCCAGCCAT----- 18566

gi | 194719394 | ref | NC\_007316.3 | N AAATTTGTTTGAAA  
ACAGATGCGTCAATAACAGCCAACAGTTGGAAACAA 22482

gi | 149361523 | ref | NC\_000074.5 | \_ CACATACT-----  
--ATACACATACATGTTGACCATATGTATG----- 18431

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gi | 51473102 | ref | NT\_010498.15 | \_ CGCAGTGGCTCCAC  
CTTTAATCCCAGCACTTTGGGAGGCCGAGGCAAGCG 29651

gi | 114795057 | ref | NC\_006483.2 | N CGCAGTGGCTCCAC  
CTATAATCCCAGCACTTTGGGAGGCCGAGGCAAGCG 31762

gi | 73957561 | ref | NW\_876316.1 | Cf --CCCCACGTGCAA  
GTCATGCATGAACCTCTGACACCACTGAGTGGAAGG 18614

gi | 194719394 | ref | NC\_007316.3 | N TCCATCAGCAGTAA  
AACAGAAAAATAAATTGTGCCATGCTTATTTGGTGG 22532

gi | 149361523 | ref | NC\_000074.5 | \_ TGCACAGAACACAT  
ACATAACACCACCCACATACCATACACACCCTAAAA 18481

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gi | 51473102 | ref | NT\_010498.15 | \_ GATCACCTGAGGTC  
AGGAGTTTGAGACCAACCTGGCCAACATGGTGAAAC 29701

gi | 114795057 | ref | NC\_006483.2 | N GATCACCTGAGGTC  
AGGAGTTTGAGACCAACCTGGCCAACATGGTGAAAC 31812

gi | 73957561 | ref | NW\_876316.1 | Cf AA-----GCAGGC  
ATGGGAGAGTAGG-----TATTGCATGTTACCACTT 18653

gi | 194719394 | ref | NC\_007316.3 | N AATACTGTGCAGCC  
ATGAAAAATTAGCGAACCATCACCACACACACCATC 22582

gi | 149361523 | ref | NC\_000074.5 | \_ TATAACAACCCGCC  
ATACATAT-----ACCATACACACATACAACAAC 18524

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCGTCTCTACTAA  
AAATACCAAAAAAATTTAGTGGGGTGTGGTGTGATGCG 29751  
gi | 114795057 | ref | NC\_006483.2 | N CTCGTCTCTACTAA  
AAATAGCAAAAAAATTTAGTGGGGTGTGGTGTGATGGA 31862  
gi | 73957561 | ref | NW\_876316.1 | Cf ATATAAGGTTCAAA  
CCCAGCCCAACTCACCTATGGTACTGAGATCATGA 18703  
gi | 194719394 | ref | NC\_007316.3 | N ATGCATGAATCTAA  
CTAATAACCTTGAGTCAAAGAACACAAACACAAAAG 22632  
gi | 149361523 | ref | NC\_000074.5 | \_ ATACATAG-TCATA  
CAATGCTACCACATACATACCATACACACACTAGAA 18573

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gi | 51473102 | ref | NT\_010498.15 | \_ TACCTGTAATCCCA  
GCTACTCGGGAGGCTGAGACAGAAG----- 29790  
gi | 114795057 | ref | NC\_006483.2 | N TACCTGTAATCCCA  
GCTACTCGGGAGGCTGAGACAGGAA----- 31901  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGGCATCACCCTT  
CTCCCCGTGGGTGGGTAGCACGAG----- 18741  
gi | 194719394 | ref | NC\_007316.3 | N CATATCTATTGCAT  
GTTACCATTTGCACAGAGTTCAAACCCAGCAAAAT 22682  
gi | 149361523 | ref | NC\_000074.5 | \_ TATAATAATGAAAA  
CATACCATACACACACCATACACAC----- 18612

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gi | 51473102 | ref | NT\_010498.15 | \_ -AATCTCTTGAACC  
CGGTAAGTGGAGGTTGTGGTGTGAGCTGAGATCATGAC 29839  
gi | 114795057 | ref | NC\_006483.2 | N -AATCTCTTGAACC  
CCGTAAGTGGAGGTTGTGGTGTGAGCTGAGATCATGCC 31950  
gi | 73957561 | ref | NW\_876316.1 | Cf -TTGCTTCTAGGGG  
CTG-----CTAATCTCTGTTTCTTGATTTGGAGGC 18784  
gi | 194719394 | ref | NC\_007316.3 | N ACATCTCCTGGGGG  
CTGTTTATGTAAATGTGTGTTTCTCGATTTGGAGGC 22732  
gi | 149361523 | ref | NC\_000074.5 | \_ -AAACAACAACACG  
CGT-----ACTCATAACACCACC 18642

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGCACTCCAGCC  
TGGGTGACAGAGTGAG---ACTCCATCTCAAAAAAA 29886

gi | 114795057 | ref | NC\_006483.2 | N ACTGCACTCCAGCC  
TGGGTGACAGAGTGAG---ACTCCATCTCAAAAAAA 31997  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCTATATGGGTC  
AGTTTGTGAGAATTTGAGCTGTACACTTAAGATATG 18834  
gi | 194719394 | ref | NC\_007316.3 | N TGGTTATATGGGTC  
AGTGTGTAAAAATCTGAACTATACTTCAGATCTG 22782  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCACACATACC  
AT-----ACACACACTAGAATATA 18675

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAACTAATAAAAA  
TAAAAAATAAATTTAAAAATTAATCAGTACAAAAGT 29936  
gi | 114795057 | ref | NC\_006483.2 | N TAAAATGATAAAAA  
TAAAAAATAAATTTAAAAATTAATGAGTACAAAAGT 32047  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCACCTTCTCTGT  
GTATGTTATTCTCTGAAAACGCAGCAGTACAAAATT 18884  
gi | 194719394 | ref | NC\_007316.3 | N CACCCTTTCCCTTT  
GTATGTTATATTTTAAAAAGACATATCCGTATAAGA 22832  
gi | 149361523 | ref | NC\_000074.5 | \_ ATAACATACCATCC  
GCATACTGCGCAT---ACATACAACACCACACGTAC 18722

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAATCCGCTAAAC  
AGCAACCCTGCTCTTTTC-----ACAGATTGAT 29978  
gi | 114795057 | ref | NC\_006483.2 | N TCAATCTGCTAAAC  
AGCAACCCTGCTCTTTTC-----ACAGATTGAT 32089  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAACTCGCTTAAC  
AGAAATCCTGCTTTTTTTT-----CACAGATTGGC 18927  
gi | 194719394 | ref | NC\_007316.3 | N CCAGTGCACCTAAG  
AGCAATCCTACTTCTTTTTTTTTCCTCACAGATTGAT 22882  
gi | 149361523 | ref | NC\_000074.5 | \_ TCATACAACACTAT  
CACACACATACCATACAC-----ACAGAAACAT 18764

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACAGAGTGAGCT  
GAAAGCCATCGAGAAAGAGAAGAAGGTGACAGCCCT 30028  
gi | 114795057 | ref | NC\_006483.2 | N GAACAGAGTGAGCT  
GAAAGCCATCGAGAAAGAGAAGAAGGTGACAGCCCT 32139  
gi | 73957561 | ref | NW\_876316.1 | Cf GGACAATGTGAATC

GAAAGCCATCGAAAAAGAGAAAACAGTTGTAGCTCT 18977  
gi | 194719394 | ref | NC\_007316.3 | N GGACAAAATGACTT  
GAAAGCTATCGAGAAAGAGAAGACAGTGGTGGCTCT 22932  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----ATAATAAC  
AACAGACAAAGGTTATTTCCAGACAGACGTGCCAGT 18809

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCCCCAAGGAAG  
CGTGCAAATGCCAGAAAGAGGATTTGGCCAGAGCGT 30078  
gi | 114795057 | ref | NC\_006483.2 | N GCCCCCCAAGGAAG  
CATGCAAATGCCAGAAAGAGGATTTGGCCAAAGCGT 32189  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCACCGAAGGAGG  
CCAGCAAATGCCACAGAGAGGATTTGGCCAAAGCGT 19027  
gi | 194719394 | ref | NC\_007316.3 | N GGAACCCAAGGAAG  
CAAGCAAATGCCACAGAGAGGACCTAGCCAAAGCAT 22982  
gi | 149361523 | ref | NC\_000074.5 | \_ AATAGCCAATGACT  
ATAAAGAAACCCCG-----CCTGCCCTAGCAG 18851

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGTGTAAGAATT  
GAATTTGCATCTGGAGCTAATTGTGATAAGGTTTTTA 30128  
gi | 114795057 | ref | NC\_006483.2 | N TTTGTGTAAGAATT  
GAATTTGCATCTGGAGCTAATTGTGATAAGGTTTTTA 32239  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTATGTAAGAATT  
GAATTTGCCTTTGAAG-CTGGTATGGGAAGGCTTTT 19076  
gi | 194719394 | ref | NC\_007316.3 | N TTTACGTAAGAACT  
GAGTTTGTCTCTGAGGCCTGGGGCTGTGGGGTTTTTC 23032  
gi | 149361523 | ref | NC\_000074.5 | \_ AATGGCTGGGAGCT  
GAATCTATCCGTGCTGAGGAGATCTGAGCACCTGTA 18901

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTTTAAAAG-AAA  
GCAACACAAAGCCCTGAACAGTGCTTTGAAATTCTG 30177  
gi | 114795057 | ref | NC\_006483.2 | N TGTTTAAAAG-AAA  
GCAACACAAAGCCCTGAACAGTGCTTTGAAATTCTG 32288  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCTTCAGAAGAAA  
GCAACACAA----- 19099  
gi | 194719394 | ref | NC\_007316.3 | N AGATTAAGAGGAAA  
GCGGCTCGAGGTCCTGAAAATGGCTTCACAGTCCTG 23082

gi | 149361523 | ref | NC\_000074.5 | \_ GAAAGAGCAGTCAT  
CCTGCACACTG----- 18926

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTTATTATCAATT  
-TTATCATCAAGGTTGGAAAATATTGTTGATGTTGA 30226

gi | 114795057 | ref | NC\_006483.2 | N TGTTATTATCAATT  
-TTATCATCAAGGTTGGAAAATATTGTTGATGTTGA 32337

gi | 73957561 | ref | NW\_876316.1 | Cf ----ATTATACATT  
TTTATCATCGTTGCTAGAAAATGCTACTGATGTTGA 19145

gi | 194719394 | ref | NC\_007316.3 | N AGCTATGACACATT  
GTTATCATCACTGTTAGAAAATACTCCTGCTGTTGA 23132

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TCACCAATGTGGAGAGAAAGCACG---GGCAG 18955

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGTTCAGATTCC  
ACAGGTAGAATATCAGTACTTGTCAGTAGAGCTCGT 30276

gi | 114795057 | ref | NC\_006483.2 | N ATGGTTCAGATTCC  
ACAGGTAGAATATCAGTGCTTGTCAGTAGAGCTCGT 32387

gi | 73957561 | ref | NW\_876316.1 | Cf ACTGTTCCGCTATC  
CCACATGAACTATCA--TCATCATGGCTGTCACTGG 19193

gi | 194719394 | ref | NC\_007316.3 | N ACGGTTCTGCTTCC  
CCACCAGGAAGGGCG--CCCACACTGATGGCCATGA 23180

gi | 149361523 | ref | NC\_000074.5 | \_ AAGATGCTGGGCAC  
ACGGCTG-----TCTCTGTAGAGCTCAC 18992

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTACCAGGCCCT  
TACCGGAAGACGGCGTCCTTTGAGACACTCTGTGTA 30326

gi | 114795057 | ref | NC\_006483.2 | N CTTACCATGCCCT  
TACCGGAAGATGGCATCCTTTGAGACGCTCTGTGTA 32437

gi | 73957561 | ref | NW\_876316.1 | Cf AACCA-----ACCC  
TCATGGGGCCCTTG--CCAGAGG-ATGGGCACCACC 19235

gi | 194719394 | ref | NC\_007316.3 | N GCCCTGGAAGGCCCT  
TCCTGGTGGCCACGGTCCTCCTA-GTGTTCTGTGCC 23229

gi | 149361523 | ref | NC\_000074.5 | \_ GTTGGAAAACTAC  
TTTGGGTGGTTGGAGAGGGAGATTGGGGACTGAAGC 19042

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gi | 51473102 | ref | NT_010498.15 | _          CGCTGCTTCTCTTC
AGCCTCACATTTCTTGGCAAAAACATAAAGG----- 30371
gi | 114795057 | ref | NC_006483.2 | N          CGCTGCTTCTCTTC
AGCCTCACATTTCTTGGCAAAAACATAAAGG----- 32482
gi | 73957561 | ref | NW_876316.1 | Cf          CG---AATCTCCAT
ATCCTTGTTTTTTCTTACTCAGAG----- 19269
gi | 194719394 | ref | NC_007316.3 | N          TGTC-TTTCTCTCT
TTTCTCTTCAGTTTTTAGTTAGAAGATAGTTACTTGA 23278
gi | 149361523 | ref | NC_000074.5 | _          TG-----CCTGT
CTCCTGATGT----- 19059
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gi | 51473102 | ref | NT_010498.15 | _          -----
--GATGGAAGATGAAGTTGAGACACAGAAAGTAG-- 30403
gi | 114795057 | ref | NC_006483.2 | N          -----
--GATGGAAGATGAAGTTGAGACACAGAAAGTAG-- 32514
gi | 73957561 | ref | NW_876316.1 | Cf          -----
----ACCCAGAGAACACGGTAACTCA----- 19291
gi | 194719394 | ref | NC_007316.3 | N          CAATGCTGTGTTGG
TTTCTGCCATATAACACCCTGAATCAGCTATAAGTA 23328
gi | 149361523 | ref | NC_000074.5 | _          -----
-----AGAAGCAGACGTGGGTTGG----- 19078

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gi | 51473102 | ref | NT_010498.15 | _          -----
-----CAC 30406
gi | 114795057 | ref | NC_006483.2 | N          -----
-----CAC 32517
gi | 73957561 | ref | NW_876316.1 | Cf          -----
-----C 19292
gi | 194719394 | ref | NC_007316.3 | N          TAAATATCTCCCCT
CCCTCTTGAGGAGAGACAGAGAGTGTCTCAGGGGAC 23378
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTCCAGTGTTAGA

GGTAGCACAGCCCAGCGTGGAGTCCAGCTGTTTCAC 30456  
gi | 114795057 | ref | NC\_006483.2 | N AGTCCAGTGTTAGA  
GGTAGCACAGCCCAGCGTGGAGTCCAGCTGTTTCAC 32567  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCACGGTTCCAA  
AGGAGCAAG-TGAGACCTGAGTCCAGGTGGTCTGAC 19341  
gi | 194719394 | ref | NC\_007316.3 | N CCCCAAGTTTCCAT  
AGCAGCTCAGTCAGAGTTGAATCCGGGTGTTTTGAC 23428  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CGGCTGTAT  
TGGATGAATACTCACTTTGCATATGTGTGCCCTGCT 19123

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGAAAGCCCAAAC  
TCTTGGTCATCCGGTATCCCACCG-TCGTCTTTTA 30505  
gi | 114795057 | ref | NC\_006483.2 | N ATCAAAGCCCAAAC  
TCTTTGTCATCCGGTATCCCACCG-TCGTCTTTTA 32616  
gi | 73957561 | ref | NW\_876316.1 | Cf ACGAAAGCTCCAAC  
TTTTAATCACCTCTGTTTACACACTTCCTCATTTA 19391  
gi | 194719394 | ref | NC\_007316.3 | N ATTCAAGCTTAAAC  
TCTTCACCACCTGCCATTCCCACCTCTCATGTTTTA 23478  
gi | 149361523 | ref | NC\_000074.5 | \_ TTACCAGAGCCCTC  
CTAGCAAGATGTCCTGTGCTCACCCGCCACGCTGTT 19173

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gi | 51473102 | ref | NT\_010498.15 | \_ TAATCCGTGGAGTT  
GCCAGGTACTAAAACCAAATTCTCCCAAGTTTCT-C 30554  
gi | 114795057 | ref | NC\_006483.2 | N TAATCCGTGGAGTT  
GCCAGGTACTAAAACCAAATTCTCCCAAGTTTCT-C 32665  
gi | 73957561 | ref | NW\_876316.1 | Cf TAATCTAGGGTGTT  
TGCAATTACCGAAACCAAATTCTTACATGTTTCT-C 19440  
gi | 194719394 | ref | NC\_007316.3 | N TAATTCATGGTGTT  
GCCAGTGACTGAAACCAGCTTCTCGCCAGTTTCTTC 23528  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCTCCACAGATTG  
ATGAACAGTGCGAGCTGAAAGCTATCGAG----- 19216

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGTGAGTTTGAAT  
TAATTCCTGGCCAGTGCAAGACAAACATTTGCATTG 30604  
gi | 114795057 | ref | NC\_006483.2 | N AAGTGAGTTTGAAT  
TAATTCCTGGCCAGTGCAAGACAAACATTTGCATTG 32715

gi | 73957561 | ref | NW\_876316.1 | Cf AAGTGGATTTGACT  
TCCTGGCCTTCCAGTGCAAGGCCATAA-----A 19482  
gi | 194719394 | ref | NC\_007316.3 | N TGGTGCATTTGGGT  
TCCTG----GCCAGGGCAAGACAAAAG-----C 23566  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGAGAAAAGACCGTCG----- 19232

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gi | 51473102 | ref | NT\_010498.15 | \_ CACACAAGTGTGTG  
TGTGTGCACACGTGCGTGCACGTGCATACTCAGAAC 30654  
gi | 114795057 | ref | NC\_006483.2 | N CACACAAGTGTGTG  
TGTGTGCACACGTGCGTGCACGTGCATACTCAGAAC 32765  
gi | 73957561 | ref | NW\_876316.1 | Cf CACACAC-----  
---ACACACACACACACACACACACACACACACA 19522  
gi | 194719394 | ref | NC\_007316.3 | N CAAACTG-----  
---AAGACCACTTCCG----- 23586  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGCTCTGCCG----- 19243

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTACATTTTGGG  
AAAGCAAATAAAAAGCCCCAGGAAAAGGGGCACATA 30704  
gi | 114795057 | ref | NC\_006483.2 | N CACTACATTTTGG  
AAAGCAAATAAAAAGCTCCCAGGAAAAGGGGCACATG 32815  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTGCCTTCC-  
-----CTCCATG----AAGCTCTTCT 19552  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTCCATG----AGGGTCCCCT 23603  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCCGG----GGAAGCTTG 19257

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gi | 51473102 | ref | NT\_010498.15 | \_ CTACAATTTTCAGGA  
AGTTGGAAGCTAGTGTCTTTTCTTGAGAATAACTCA 30754  
gi | 114795057 | ref | NC\_006483.2 | N CTACAATTTTCAGGA  
AGTTGGAAGCTAGTGTCTTTTCTTGAGAATAACTCA 32865  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGAAGCTAAAGAA  
CATTGCTTGCCT-TCTGTTTTTTCATTTACTAGAAGA 19601  
gi | 194719394 | ref | NC\_007316.3 | N GTGAGACTGAAGGA

GTTAGCTTGCTT-TATGGTTTCGGTTATCTT-TACT 23651  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAATGCAGCAGAG  
AGGAGCTGGCCA-GAGCCTTCCATGTAAGAATTTTCG 19306

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTCTGTTTCAATT  
CAAGTCCTGTGTATTAGTATTTGGAGAGGGGGAGGA 30804  
gi | 114795057 | ref | NC\_006483.2 | N AGTCTGTTTCAATT  
CAAGTCCTGTGTATTAGTATTTGGAGAGGGGGAGGA 32915  
gi | 73957561 | ref | NW\_876316.1 | Cf ACGCTGAGCAAACA  
TAGTG-----ATGTGTGTG----- 19629  
gi | 194719394 | ref | NC\_007316.3 | N TAGCCGAGCAAACA  
TGGGGTGTGTGTGTGTGTGTGTG----- 23688  
gi | 149361523 | ref | NC\_000074.5 | \_ TAACTGTATCTAT-  
----- 19319  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTATTTCTTCTCT  
GCCTGCATATTATCCCTAGCTAGAAAATGAGCTAGA 30854  
gi | 114795057 | ref | NC\_006483.2 | N AGTATTTCTTCTCT  
GCCTGAATATTATCGCTACCTAGAAAATGAGCTAGA 32965  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGTGTTTAC 19638  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TGTGTTGAC 23697  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCCTT 19324

gi | 51473102 | ref | NT\_010498.15 | \_ TTTTCTTTCACTAT  
TCAAAGAATCTAGAAATCAATTCTGTTCTCCCGT 30904  
gi | 114795057 | ref | NC\_006483.2 | N TTTTCTTTCACTAT  
TCAAAGAATCTAGAAATCAATTCTGTTCTCCCTGT 33015  
gi | 73957561 | ref | NW\_876316.1 | Cf TCATAATCCACCAC  
ACTTTGGGGAAGCAAATAAAAATCTACCAATAAAGG 19688  
gi | 194719394 | ref | NC\_007316.3 | N TCATAACCCACCAC  
ACTTTGGGAAAGCCAATAGAAGTCCACTAACGAAAG 23747  
gi | 149361523 | ref | NC\_000074.5 | \_ TTATCATTGTCCTT  
ACCAAACACCTTCCAAGAGCAGCTTACAGGAGGGG 19374



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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTCTACCAGCA  
 AGTACAGTTTTCTTGTTATTGGCTTTTTTAAAAACAA 30954  
 gi | 114795057 | ref | NC\_006483.2 | N TTCCTCTACCAGCA  
 AGTACAGTTTTCTTGTTATTGGCTTTTTTAAAAACAA 33065  
 gi | 73957561 | ref | NW\_876316.1 | Cf GGTCTATGCCACAA  
 TCTCAAGATGGTTGGGAAATTGGTGTTCATGCCAG 19738  
 gi | 194719394 | ref | NC\_007316.3 | N CTCACATAACCACAG  
 TTTCAGAGAAGCTGG-AGGTCACTGTTTCAGGCCAG 23796  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTATGCTGACTCAC  
 AGTTCCAGATAAAGTATAGACACAGAGACAGAGCGT 19424

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gi | 51473102 | ref | NT\_010498.15 | \_ GGACACTTTTGTTG  
 CGACCAGAACAACAAAGTTTCCTTCCATTATGACTG 31004  
 gi | 114795057 | ref | NC\_006483.2 | N GGACACTTTTGTTG  
 TGACCAGAACAACAAAGTTTCCTTCCATTATGACTG 33115  
 gi | 73957561 | ref | NW\_876316.1 | Cf ----CCTTTTCTCT  
 ----CTTTCTCTCTCTTTCCTTCCCTTCCCTT 19779  
 gi | 194719394 | ref | NC\_007316.3 | N ----CCTTTCCTTG  
 ----AGAATACTCAGAAG-CCCAACTGAATTCAAG 23836  
 gi | 149361523 | ref | NC\_000074.5 | \_ G---AGGCATCTGG  
 -----TCACACTGCATCTGCAGCCAGGAGTCCTT 19464

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCATAAATTAGC  
 TGTATTTAACGAATTTGTTTACAGAAAGAGCTTGAA 31054  
 gi | 114795057 | ref | NC\_006483.2 | N ACTCATAAATTAGC  
 TGTATTTAACGAATTTGTTTACAGAAAGAGCTTGAA 33165  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCTCCCTTCCCTTCC  
 T-----TTCTTAGAGAAGGTGTACAAA 19815  
 gi | 194719394 | ref | NC\_007316.3 | N TCCCCTTGTAGC  
 A-----TTTGAGAGGGGAAGGAAATA 23872  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCACCCACTGCTCC  
 T----- 19479

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAGTTGGGCACA  
ATATAATTGTTTTAGCTACTGTTTCTTTTTTATTTT 31104  
gi | 114795057 | ref | NC\_006483.2 | N TGGAGTTGGGCACA  
ATATAATTGTTTTAGCTACTG-TTCTTTTTTATTTT 33214  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGG-----  
----- 19819  
gi | 194719394 | ref | NC\_007316.3 | N TGTTTTCTTGCCA  
AGACATTT----- 23894  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAATTTTTGTGGGT  
ACATAGTAGGTGCATATTTATGGGTTCCAGAGATAC 31154  
gi | 114795057 | ref | NC\_006483.2 | N TAATTTTTATGGGC  
ACATAGTAGGTGTATACTTATGGGTTCCAGAGATAC 33264  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGGGAAGGA  
ACAGAGGGAGAG-----AGAGAATC 19848  
gi | 194719394 | ref | NC\_007316.3 | N TCCCCTACCTAGGA  
AAAAAGCGTGATTTTCTTGCTCTATTCCAAAGAATC 23944  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTGGC  
AATGACACAGAG----- 19496

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGATACAGGCAT  
ACGCT--ATAATAATCACATCAGGGCAAACGGGGTC 31202  
gi | 114795057 | ref | NC\_006483.2 | N TTTGATACAGGCAT  
ACACTGTATAATAATCACATCAGGGCAAACGGGGTC 33314  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAAGCAGGCTCTATG 19864  
gi | 194719394 | ref | NC\_007316.3 | N TAGAAATCAG-----  
-----TCCAGCCTTCCCATCACTTCA 23975  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCAACGCTG-- 19506

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCATTACCTCAAG  
CATTTATCCTTTGTGTTACAAGTCATCCACTTACAC 31252  
gi | 114795057 | ref | NC\_006483.2 | N TCCATTACCTCAAG

CATTTATCCTTTATGTTACAAGTCATCCACTTACAC 33364  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCC-----  
----- 19868  
gi | 194719394 | ref | NC\_007316.3 | N ACCATCTGGTAGAA  
CTTTTTTGCTTTGT-----TTC 24006  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

gi | 51473102 | ref | NT\_010498.15 | \_ TCTTTGAGTTATTT  
TAAAATGTACAATTAAATTATTTTTGACAACAGTCG 31302  
gi | 114795057 | ref | NC\_006483.2 | N TCTTTTAGTTATTT  
TAAAATGTACAATTAAATTATTTTTGACAACAGTCA 33414  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAGCACAG-----AGCCCAACAAA 19887  
gi | 194719394 | ref | NC\_007316.3 | N TGTAATTTTATTT  
ATTTTTGGCTGCACTGGGTCTTCATTGCAGCACACA 24056  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTAGGAAACTGCTC 19520

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGTCATGCCAG  
CAAATACTAGGTCTTATTTATTCTTTCTGACTATAT 31352  
gi | 114795057 | ref | NC\_006483.2 | N CCCTGTCGTGCCAG  
CAAATACTAGGTCTTATTTATTCTTTCTGACTATAT 33464  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCTTGATCTCAC  
CATCCTGAG-----ATCATGACCTGAG 19923  
gi | 194719394 | ref | NC\_007316.3 | N GGCTTAGCTGCCCCG  
CAGCGTGTGG----AATCTTAGCTTCCCAACCAAAG 24102  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCCTTGCTTCCTC  
CAGCCTCTTG-----TCATCGGGGCTCAAG 19559

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTGTACCCATA  
GCCCTCTCCACTTTCTCCCAACTACCCTTTCCAGGC 31402  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTGTAGCCATA  
GCCCTCTCCACTTTCTCCCAACTACCCTTACCAGGC 33514  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CTGAAACCAAG  
-----AGTCAGATGCTCAACCAACTG 19955

gi | 194719394 | ref | NC\_007316.3 | N ---ATCAAAGTACTAGT  
GTCCTCTGCATTGGTAGGCGGATTCTCAACCACTGG 24149  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGTAACCATCC  
TACTATCTCCATGAGTTCAGTTATTTTAATTTTCTAG 31452  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGTAACCATCC  
TACTATCTCCATGAGTTCAGTTATTTTAATTTTCTAG 33564  
gi | 73957561 | ref | NW\_876316.1 | Cf AAC-----CACC  
CAGGCGCCCATCATGCCAGTCTTTTCTTGAGAATA 19998  
gi | 194719394 | ref | NC\_007316.3 | N ACCGGGGAAGTCCC  
TGGTAGAGCTTTCTTATCCACTTTTAAAGACAGTG 24199  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTCT  
CCGCCACACCTGCCTCTCACTCTTTATCTTTTTTTGG 19599

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTCCACTAATCAG  
CGAGAACCTGCAAAGTTTGCCTTTCTGTGTCTGGAG 31502  
gi | 114795057 | ref | NC\_006483.2 | N CTTCCACTAATCAG  
TGAGAACCTGCAAAGTTTGCCTTTCTGTGTCTGGAG 33614  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTCAG-----  
-----AAGTCTGTTTAAATTCAAG----- 20023  
gi | 194719394 | ref | NC\_007316.3 | N AAGCTTTTGTGGCC  
ACCAGGACAACAAAGTTTCCCTTACATGGTTATTGA- 24248  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCGGAG-----  
----- 19606

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCACTATGTTATT  
TGACTTAATATAATGACCTCCAGTTCCATCCATGTT 31552  
gi | 114795057 | ref | NC\_006483.2 | N GTCACTATGTTATT  
TGACTTAATATAATGACCTCCAGTTCCATCCATGTT 33664  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCCTGCTTGTTAGTATTAAGGG 20045  
gi | 194719394 | ref | NC\_007316.3 | N -----CTCTT  
AAATTCACTATATTTAATGTCAGTTTGTATAAACAG 24289  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

-----ATGCCAACTACAGACATCAAATT 19629

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gi | 51473102 | ref | NT\_010498.15 | \_           GTTGCAAATG--AC  
 AGGATCTCATTCTTTTTTATGGGTGCATAGTACTCC 31600  
 gi | 114795057 | ref | NC\_006483.2 | N           GTTGCAAATG--AC  
 AGGATCTCATTCTTTTTTATGGGTGCATAGTACTCC 33712  
 gi | 73957561 | ref | NW\_876316.1 | Cf           AAGGAAATAG----  
 -----TCTTGCCTCACCTAAATGTCTTCCCTT 20082  
 gi | 194719394 | ref | NC\_007316.3 | N           CTTGAAATTGTATC  
 TGGCACAAGGCATGCATGATGGAATCATGTAGCTTT 24339  
 gi | 149361523 | ref | NC\_000074.5 | \_           CTCACGAGTG----  
 -----TCTGAGGGATGCAGAATTTGTGAGCA 19665

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gi | 51473102 | ref | NT\_010498.15 | \_           ATTGTGTATATGTA  
 CCACATTTTCTTTATTCATTTGTCTGTTG-ATGGAT 31649  
 gi | 114795057 | ref | NC\_006483.2 | N           ATTGTGTATATGTA  
 CCGCATTTTCTTTATTCATTTGTCTTTTG-ATGGAT 33761  
 gi | 73957561 | ref | NW\_876316.1 | Cf           GTCTAGCAAACATG  
 CTTGGTTTTCTTTATTGAAATCTAG-----AGAT 20125  
 gi | 194719394 | ref | NC\_007316.3 | N           TTTTGTTTCTAAGG  
 GCAGGCCTTTTTTCTTTGTTTCAAGGCAAATAACAC 24389  
 gi | 149361523 | ref | NC\_000074.5 | \_           GTGTAGGAGAGGTA  
 CCAACTCTGGCCTAGGAGTCCAACCTCTG----GGA 19711

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gi | 51473102 | ref | NT\_010498.15 | \_           ACTTAGGCTCCTTC  
 CAAACCTTGGCTATTGTGAATACTCCTGCGATAAAC 31699  
 gi | 114795057 | ref | NC\_006483.2 | N           ACTTAGGCTCCTTC  
 CAAACCTTGGCTATCGTGAATGCTCCTGCGATAAAC 33811  
 gi | 73957561 | ref | NW\_876316.1 | Cf           CCGTTCAACTTTTC  
 CTGTCACCTCTTTCACCAGGTACAG----- 20164  
 gi | 194719394 | ref | NC\_007316.3 | N           AACCTAAAATTAC  
 CATCTAACTACTTTTAAGTGTACAGTTCCAAAGTGT 24439  
 gi | 149361523 | ref | NC\_000074.5 | \_           CATCCGGATGGAGC  
 CAACATCATATCTTTAG----- 19742

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGGAGTGCAGAT  
ATCTCTTCAATATTCTGATTTCTTTCTTTTGGTTA 31749  
gi | 114795057 | ref | NC\_006483.2 | N ATGGGAGTGCAGAT  
ATGTCTTCAATATTCTGATTTCTTTCTTTTGGTTA 33861  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTTTCTTG  
TTGCC-----AACTTTTAAAAACAAGGACACCTT 20202  
gi | 194719394 | ref | NC\_007316.3 | N TAAGTACCTTCACG  
TTGTTCGTACAACCCATTTCACAGCTCTTTCCCTCT 24489  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTTATG  
TTACTTGGAACACCAGGCAGACTGGTGACACTCGTG 19784

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTATCTAGGAGTG  
GGACTGGGGATCATATAATAGTTGTATTTTTAGTTT 31799  
gi | 114795057 | ref | NC\_006483.2 | N TGTATCTAGGAGTG  
GGACTGGGGATCATATAATAGTTGTATTTTTAGTTT 33911  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCTGCAACCAGAA  
TAGCAAAGTTACCTTACATAATTATCAATTTAATG- 20251  
gi | 194719394 | ref | NC\_007316.3 | N TGCAAAGCTGAAAC  
TTCCGTGTTGGTGGTGAATAATTCCTGTGTGTGT 24539  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGCACACATGTG  
CACGCATGTTTGTGTGTATACGTGTGTGTGTGTTG- 19833

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGTTGTTTTTTT  
TTTTTGAGATGGAGTCTCACTCTGTACACCCAAGCTG 31849  
gi | 114795057 | ref | NC\_006483.2 | N TTTGGT----TTTT  
TTTTTGAGATGGAGTCTCACTCTGTACACCCAAGCTG 33957  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATAGTTT  
CTGTAAAGAGCTTGAAATTATATCTGGCACAATGT- 20293  
gi | 194719394 | ref | NC\_007316.3 | N GTATGTCTGTGTGT  
CTGTACCATACTTTCCTTATCCATTCACCCATTG-- 24587  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GT  
ATGTTGTGTGCATGCACATATGTATGAACTGCATGT 19871

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTGCGGTGGCGC  
GATCTCTGCTCACTGCAAGCTCCGCCTCCTGGGTTC 31899

gi | 114795057 | ref | NC\_006483.2 | N GAGTGCAGTGGCGC  
GATCTCTGCTCACTGCAAGCTCCGCCTCCTGGGTTC 34007  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGTATGATATAGT  
AAT-----TTAGCTG-TTGCTTCTAAGGAGGGG 20335  
gi | 194719394 | ref | NC\_007316.3 | N ATGGACACTCGGGT  
CACGTCCACCTTTGGCTG-TTGTGAATAATGCTGCT 24636  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGTACAGAAGTGT  
ATG-----TGCATGCATATATG----- 19902  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACGCCATTCTTCTG  
TCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCT 31949  
gi | 114795057 | ref | NC\_006483.2 | N ACGCCATTCTTCTG  
TCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCT 34057  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTTTTTATT  
CCTTTTTTAATTTTAAATTATGGTAAAACGTACAATG 20385  
gi | 194719394 | ref | NC\_007316.3 | N ACAAACATGGATAG  
ACAGATACCTCACTGAGACTGGTTTCCAATTCTCTT 24686  
gi | 149361523 | ref | NC\_000074.5 | \_ ----TATTACATGG  
GCAGATATGATCCTATGCATGGGTATTGGG----- 19942  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCCACCATGCCTGG  
CTAATTTTTTTTGTATTTTTTAGTAGAGACGGGGTTTC 31999  
gi | 114795057 | ref | NC\_006483.2 | N GCCACCATGCCCGG  
CTAATTTTTTTTGTATTTTTTAGTAGAGACGGGGTTTC 34107  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAAATTTGCC---  
--ATCTTCACCGTTGTTGAATGTATGATTCAGATTC 20430  
gi | 194719394 | ref | NC\_007316.3 | N GATACGTACCAG--  
-TATCAAGAAAGTAGTGGAACCAGTAGTGGAATTGC 24733  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----ATGTATGTAAGTGTACATGTATGGGGATTG 19973  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACCGTGTTAGCCAG  
GATGGTCTCGATCTCCTGACCTCATGATCTGCCTGC 32049  
gi | 114795057 | ref | NC\_006483.2 | N ACCGTGTTAGCCAG  
GATGGTCTCGATCTCCTGACCTCATGATCTGCCTGC 34157  
gi | 73957561 | ref | NW\_876316.1 | Cf TATTTTTAATTAGG

AAT-----CCCCATACTG----- 20457  
gi | 194719394 | ref | NC\_007316.3 | N CAGATTGTATGGTG  
GTT-----CTATTTTAAATTTT 24766  
gi | 149361523 | ref | NC\_000074.5 | \_ TACATACATGCATA  
GGTG----- 19991  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCAGCCTCCCAA  
GTGCTGGGATTACAGGCATGAGCCACCGCGCCAGC 32099  
gi | 114795057 | ref | NC\_006483.2 | N CTCAGCCTCCCAA  
GTGCTGGGATTACAGGCATGAGCCACCGCGCCAGC 34207  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCTGTA  
TCACAGCTGTACCATTTTAGGTCCCAAGGCCTATT 20500  
gi | 194719394 | ref | NC\_007316.3 | N GAGGTACTTCCACA  
TGGCAGCTGCACCATTTGACCGTCCAG-ACTCATC 24815  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCCAG  
TGTCTGCT--TCCCTTTTGGGGTAGACAGGCCATGG 20030  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTATTTT TAGTTTT  
TTGAGGAACCCTCCAAACTGTTCCACCAGTCATACTA 32149  
gi | 114795057 | ref | NC\_006483.2 | N GTATTTT TAGTTTT  
TTGAGGAACCCTCCAAACTGTTCCACCAGTCATACTA 34257  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTTT  
TAAAGAAGAAAATATAACTGTT--TCTACCTTTCTG 20538  
gi | 194719394 | ref | NC\_007316.3 | N -----TTCC  
TTAAGATGAAAATGTAAGTGTT--CCTGCATCTCCA 24853  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CACA  
CCAAGCTGGACTGGAGGGAGGG--AAGCCTAGCCA 20067  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATTTACATTCCTAC  
CAACAGTGTACAAGGGTTCCTTTTCTTCATATCCA 32199  
gi | 114795057 | ref | NC\_006483.2 | N ATTTACATTCCTCC  
CAACAGTGTACAAGGGTTCCTTTTCTTCATATCCA 34307  
gi | 73957561 | ref | NW\_876316.1 | Cf G-AATTCCTGCTAC  
AATCTAGCTTGTTG-----AAATATAAGGTC 20577  
gi | 194719394 | ref | NC\_007316.3 | N GGTGTCATGCTAT  
AATCGCAGACCCTG-----AAATGTAGACCC 24893



gi | 149361523 | ref | NC\_000074.5 | \_ GGTGTGGGTG----  
-----AGCGCAGGGCA 20088

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATTTGTTATTGC  
CTGACTTTTGGATAAAAGCCATTTTAACTGTGATGA 32249

gi | 114795057 | ref | NC\_006483.2 | N GGATTTGTTATTGC  
CTGACTTTTGGATAAAAGCCATTTTAACTGTGATGA 34357

gi | 73957561 | ref | NW\_876316.1 | Cf GAGGTTGTCTCTTC  
TGCTATAATTATAGGGCAAAAGTGCAGTCCATTGA 20627

gi | 194719394 | ref | NC\_007316.3 | N AAGGCTGTCTTCTC  
TGTAGTATCTGTAGGGCGGAAGTGC GGGTTTCATTGA 24943

gi | 149361523 | ref | NC\_000074.5 | \_ GGATTACAGTAAGC  
AGTGTGTGGGGGGAGGGGTAATGAACAACACCTGGG 20138

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gi | 51473102 | ref | NT\_010498.15 | \_ GATGATACCTCATT  
GTAGTTTTGATTTGCATTTCTCTGATCACAGATGGT 32299

gi | 114795057 | ref | NC\_006483.2 | N GATGATACCTCATT  
GTAGTTTTGATTTGCATTTCTGCTGATCAGTATGGT 34407

gi | 73957561 | ref | NW\_876316.1 | Cf GAAAGAACTGGACT  
ATGGGTTTTCTT--CTCTCTCTGTTCTTATTG-- 20673

gi | 194719394 | ref | NC\_007316.3 | N AAAAGAATGAGATT  
GTAGG-TCTCCTA--CTGTCTCTG--CCCATTG-- 24986

gi | 149361523 | ref | NC\_000074.5 | \_ AACAGCTTCGGAGA  
ACTGGCTCCACTT----- 20165

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGCACCTTTTCAT  
GTACCTGTTTGCCATTCATATGTCTTCTTTTGAGGA 32349

gi | 114795057 | ref | NC\_006483.2 | N GAGCACCTTTTCAT  
GTACCTGTTTGCCATTCATATATCTTCTTTTGAGAA 34457

gi | 73957561 | ref | NW\_876316.1 | Cf -----CTTGAG  
GTCTTTG--ACAAGTTCCTTCTCCTTTTGG----- 20708

gi | 194719394 | ref | NC\_007316.3 | N -----CTTGAG  
GTTTCTG--AGCTGGTCCCCTCTCCTCTGTG----- 25021

gi | 149361523 | ref | NC\_000074.5 | \_ -----ATTGAG  
GGATATG--GTATTATTTATGCCCGTGAAG----- 20199

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGTCTATCCAGAT  
CTTTGGCCCATTTTAAAAACAGATTATTAGGTTTTTC 32399  
gi | 114795057 | ref | NC\_006483.2 | N ATGTCTATCCAGAT  
CTTTGGCCCATTTTAAAAACAGATTATTAGGTTTTTC 34507  
gi | 73957561 | ref | NW\_876316.1 | Cf --GCCAGCCGAATT  
TTCTTGTCCATTTTGGGAAGTGGCTGGCTTT----- 20750  
gi | 194719394 | ref | NC\_007316.3 | N --GACAGCCCATTT  
TCCTTGATCATCGTGGGAAGCGGCTGGCTT----- 25062  
gi | 149361523 | ref | NC\_000074.5 | \_ -AGGTGGTTCGGGGT  
CTCTGGGGCCAGGTCTGTGTGGCTGTGTACCG---- 20244

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTATAGAGTTGT  
TTGAGCTCTTTATAACATTCTGGTTATTAATCCCGTG 32449  
gi | 114795057 | ref | NC\_006483.2 | N TCCTATAGAGTTGT  
TTGAGCTCCTTATAACATTCTGGTTATTAATCACGTG 34557  
gi | 73957561 | ref | NW\_876316.1 | Cf --CCAAAGTGGGAG  
TTCTGTGCAGTGGGCTCCCTGGTCTTTCAGGGCCCA 20798  
gi | 194719394 | ref | NC\_007316.3 | N --CTAGAGTGGGAA  
TCCTGTGACGTGGGCTCCTTGATCTTTACCTGCCCG 25110  
gi | 149361523 | ref | NC\_000074.5 | \_ ---CTGGCAGGGGT  
GTTTGAAGATGCTTCATCTACATTCTCAGGGGCTTG 20291

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGATGGGTAGTT  
TGCAAATATTTTCTTCCATTCTGTGGGTTGTCTCTT 32499  
gi | 114795057 | ref | NC\_006483.2 | N TCAGATGGGTAGTT  
TGCAAATATTTTCTTCCATTCTGTGGGTTGTCTCTT 34607  
gi | 73957561 | ref | NW\_876316.1 | Cf TCGGTGAGTCTGTG  
CTTAACCGTGTCTTCCAG---GTGGACTTACGAAA 20845  
gi | 194719394 | ref | NC\_007316.3 | N TC-----  
-----CTTCTCCCTCCAG---GTAGATTTACAGAA 25139  
gi | 149361523 | ref | NC\_000074.5 | \_ TAG-----  
-----GTGGTGGGGAGGGG 20308

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTTTGTTGATGA

TTTCCTTTGCTGTGCAGAAGCCTTTTAACTTGATGT 32549  
gi | 114795057 | ref | NC\_006483.2 | N CACTTTGTTGATGA  
TTTCCTTTGCTGTGCAGAAGCCTTTTAACTTGATGT 34657  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGGCTGTCCGAGT  
TCTCGGTGTTGCAGCGAAGGCAGG--TCCATGGCTG 20893  
gi | 194719394 | ref | NC\_007316.3 | N TGGGCTGTCAGAGT  
TCTCAGTGACGCAGCGCAGGCTGG--TCCATGGCTG 25187  
gi | 149361523 | ref | NC\_000074.5 | \_ AACCTTTTAAAGGTT  
AAACAAGGTAGTG----AAGCCAGGTA ACTGGCAGG 20354

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gi | 51473102 | ref | NT\_010498.15 | \_ GATTCCATTTATCC  
ATTTTTGCTTTGGTTGCCTGTGCTTGTAGTATATTA 32599  
gi | 114795057 | ref | NC\_006483.2 | N GATTCCATTTATCC  
ATTTTTGCTTTGGTTGCCTGTGCTTGTAGTATATTA 34707  
gi | 73957561 | ref | NW\_876316.1 | Cf GAATGAGTTTGTCTG  
CTGATAATACTG--AGCCTGT----GTGGAAGAAAT 20937  
gi | 194719394 | ref | NC\_007316.3 | N GAATGAGTTTGTGTTG  
CTGATAACACGG--AACCTGT----GTGGAAGAAAT 25231  
gi | 149361523 | ref | NC\_000074.5 | \_ GTAATAAATTCTTA  
CAAGAGTTGATG---GTCAGG----GAGCCGGGTTT 20397

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCAAGAAATCTTT  
GCCCAGTTCAATGTCCTGGAGAGTTTCCCCGATGTT 32649  
gi | 114795057 | ref | NC\_006483.2 | N CTCAAGAAATCTTT  
GCCCAGTTCAATGTCCTGGAGAGTTTCCCCGATGTT 34757  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCTTGTCCAGGTA  
G----GTGTCATTCCTTG---ACATTA ACTGGTGTA 20980  
gi | 194719394 | ref | NC\_007316.3 | N ATCTCGATCAGGTG  
GGATGATGGCCATCATTCTGTGCATTA ACCAGTGTA 25281  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGTGT CAGGTTG  
GGAGGAGGCAG-----ATGGCCAA 20430

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTTGATAGTTTC  
ATAGTCTGTGATCTTAGATTGAAGTCTTTAATCTTT 32699  
gi | 114795057 | ref | NC\_006483.2 | N CTTTTGATAGTTTC  
ATAGTCTGTGATCTTAGATTGAAGTATTTAATCTTT 34807

gi | 73957561 | ref | NW\_876316.1 | Cf AGCCAGAGAG----  
-----GGTGGGAATG-----ATCATT 21005  
gi | 194719394 | ref | NC\_007316.3 | N ACCCTGGGGG----  
-----TGAGGAAGGGAGCCACCGTT 25311  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCTGGCAG----  
-----CCT 20443  
 . : \* . . \*  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTTTTTTTTTTTT  
TTGAGACAGGGTCTCACTCTGTTGCCAGGCTGGAG 32749  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTTTTTTTTTTTT  
--GAGACAGGGTCTCACTCTGTCGCCAGGCTGGAG 34855  
gi | 73957561 | ref | NW\_876316.1 | Cf CATTCTTTAAATAT  
TGGTTGCGGGATGTCCTTGACCAACATGGTGGATG 21055  
gi | 194719394 | ref | NC\_007316.3 | N CATTGTGTA ACTGT  
GGATTGAGG-GTGTCCGTCGACAAGTCT-----CAG 25355  
gi | 149361523 | ref | NC\_000074.5 | \_ CATGTTTGAGATAT  
CCATTGTTGAAGTTCTCTCGACCCTTCCTCTG----- 20489  
 : \* \* : \* \*  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCGGGTGGCGCTAT  
CTCAGCTCACTGCAACCTCTGCCTCCTGGGTTCAAG 32799  
gi | 114795057 | ref | NC\_006483.2 | N TGCAGTGGCGCTAT  
CTCACCTCACTGCAACCTCTGCCTCCTGGGTTCAAG 34905  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTTGG-----  
-----ACCAACATGGTGGTGGTACAAAGATTAGG 21091  
gi | 194719394 | ref | NC\_007316.3 | N CACATAG-----  
-----AACAGCTA-----TACTACAAGGTCAAAG 25386  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TAACCCTAGGCCATTA 20505  
 . \* : . . \* : .

gi | 51473102 | ref | NT\_010498.15 | \_ CAATTCTCCTGCCT  
CAGCCTCCTGTAGTAGCTGGGATTACAGGCATGCAC 32849  
gi | 114795057 | ref | NC\_006483.2 | N CAATTCTCCTGCCT  
CAGCCTCCTGTAGTAGCTGGGATTACAGGCGTGCAC 34955  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGTTTCATGCTCA  
TTCAGGCTAGTTTTAGACAAGAGGGATGGCCATGAG 21141  
gi | 194719394 | ref | NC\_007316.3 | N AAGGCTTG-CCCCT



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gi | 51473102 | ref | NT\_010498.15 | \_ GAAATTTCACTCTC  
CTGCATATGGAGATTTTGTTCCTGGTACCATTTA 33049  
gi | 114795057 | ref | NC\_006483.2 | N GAAATTTCAATTCTC  
CTGCATATGGAGATTTTGTTCCTGGTACCATTTA 35155  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
----- 21290  
gi | 194719394 | ref | NC\_007316.3 | N GGTTTA-GTCGCTA  
AGTCATATCCAACCTTTGCGACCCCATGGACTGTAG 25615  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
----- 20654  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTAAAGAGATTGCC  
CTTTCCCCAGTGGATGTTCTTGACATCTTTGTTCGAA 33099  
gi | 114795057 | ref | NC\_006483.2 | N TTAAAGAGATTGCC  
CTTTCCCCAGTGGATGTTCTTGACATCTTTGTCAAA 35205  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N CCCACCAGGCT--C  
CTCTGTCCATGGGATTTTCCAGGCAAGAATACTGGA 25663  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACGAGTTCCTGT  
AGATGTATGGATTTATATCTGGGTTCTCTATTCTGT 33149  
gi | 114795057 | ref | NC\_006483.2 | N AACGAGTTCCTGT  
AGATGTATGGATTTATATCTGGGTTCTCTATTCTGT 35255  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GCAGGCTCCCATTT  
CCTCTTCCAGGGCATCTTCC-----CAACCCAGG 25706  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCACTGATCTCTG  
TGCTCTGTTTTTATGACAGTACCATGCTGTTTTGGTT 33199  
gi | 114795057 | ref | NC\_006483.2 | N TTCACTGATCTCTG  
TATCTGTTTTTATGACAGTACCATGCTGTTTTGGTT 35305  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GACCAAACCCAGGT  
CTCCTGCATTATAGGCAGATTCTT----- 25744  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTAAAGCTCTGCA  
GTATAATTTAAAGTCAGGTAATATGATTCCTCCAGT 33249  
gi | 114795057 | ref | NC\_006483.2 | N ACTAAAGCTCTGTA  
GTATAATTTAAAGTCAGGTAATATGATTCCTCCAGT 35355  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----GGTAAACAGAGAGGTTGAAATATGTCCCCCAG 21322  
gi | 194719394 | ref | NC\_007316.3 | N -TACCTACTGAGGA  
CAGTGCAATACAGAGAAGCTGAAACAT---TCCCAG 25790  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCAACAGTGATGAAGATGTATT----- 20676

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTGTTCTTTTTCC  
TTAAGATAGCTTTGGCTATTCTGGGTCTTTTTGTGGT 33299  
gi | 114795057 | ref | NC\_006483.2 | N GTTGTTCTTTTTCC  
TTAAGATAGCTTTGGCTATTCTGGGTCTTTTTGTGGT 35405  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGT-----  
-----GTAGGGTTGCTAGATTTAG--CAAATGACAA 21356  
gi | 194719394 | ref | NC\_007316.3 | N GTTGT-----  
-----GTAGGGCTGCCAGATTTAG--CCAATAAATT 25824  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTTTGGCAGCCCAATTGGG-----GAACGT 20701

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCATATAAATTTT  
TAAATTGTTTTTTCTATTTCTGTTAAGAATGTCATT 33349  
gi | 114795057 | ref | NC\_006483.2 | N TCCATATAAATTTT

TAAATTGTTTTTCTATTTCTGTTAAGAATGTCATT 35455  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAGAATGCCTTGT  
GAAATG-----TGAATTTTCAGATAAATAG---AGG 21397  
gi | 194719394 | ref | NC\_007316.3 | N TACAGATGTCTG-T  
TACATT-----TGAAATTCAGATAGATAAGCAAAG 25867  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGTGACATCCATT  
TGCCAG-----AGGGCATCGGATTTGGTG-----G 20740

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTATTTTAAATAGG  
GATTCGATTAAATCTATAGATTGCTTTGGGTAGTAT 33399  
gi | 114795057 | ref | NC\_006483.2 | N GTTATTTTAAATAGG  
GATTCATTAAATCTATAGATTGCTTTGGGTAGTAT 35505  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTTTTTAGTATAA  
GTGTG-----TCCCAAATGTCACATGGG----- 21434  
gi | 194719394 | ref | NC\_007316.3 | N GAGAGTTTTTTAGT  
GTATG-----TTCCAAATGTCGCATGGG----- 25904  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCTGTAACGCAGG  
GGGAG-----TGATATGATATGCAGAAG----- 20777

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gi | 51473102 | ref | NT\_010498.15 | \_ GGACATTTTAAACAA  
TATTGATTTTCCAACCCATGAACATGGAATATCTT 33449  
gi | 114795057 | ref | NC\_006483.2 | N GGACATTTTAAACAA  
TATTGATTTTCCAACCCATGAACATGGAATATCTT 35555  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ACAT  
AATT-----ATACCAAAAAAATT----- 21456  
gi | 194719394 | ref | NC\_007316.3 | N -----ACCT  
ACTTGATTTTAAATTTTAAAAGTT----- 25934  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGGG  
ATATGCTTTTAGCATCCTTTGAAGCT----- 20807

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCATTTTCTGTG  
TCTTCTTCAGTTTCTTGCATCAATGTTTTATAGTTT 33499  
gi | 114795057 | ref | NC\_006483.2 | N TCCATTTTCTGTG  
TCTTCTTCAGTTTCTTGCATCAATGTTTTATAGTTT 35605  
gi | 73957561 | ref | NW\_876316.1 | Cf -CCTTGTTTATCTG  
AAATTCATTAATACTG---GCCGTCTTACAGTCT 21501



gi | 194719394 | ref | NC\_007316.3 | N -CCTTGTTTCTCTG  
AAGTTCACATTTAACTG----AGTGTCCTGTAGTCT 25979  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GAGCAAGAG  
GAAGGTGGGGGAAATGGGTGTGAAGCCCTTGTGTGT 20852

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATTGTAGAGATC  
TTTTACTTCTTTAAGTTAATTCCTAGATATTTAATT 33549  
gi | 114795057 | ref | NC\_006483.2 | N TCATTGTAGAGATC  
TTTTACTTCTTTAAGTTAATTCCTAGATACTTAATT 35655  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCTGGCAGC-----  
-----TGGAGCCTAATGTCACATGGCAGTAAGT 21539  
gi | 194719394 | ref | NC\_007316.3 | N ACCTGGCAGC-----  
-----CAGGGTCCAGAGTCCTGCAGTGTTAAGT 26017  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGTG-----  
-----TGTGTGTGTGTGTGTGTGTGTG 20877

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCAGCTGTGGTAA  
ATGGGATTACTTAATTGATTTCTTTTGCAGATTGCT 33599  
gi | 114795057 | ref | NC\_006483.2 | N TGTGGCTGTGGTAA  
ATGGGATTACTTAATTGATTTCTTTTTCAGATTGCT 35705  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-CAAGCTAGGGA  
GTG---AAGCCAGGCAGCTGGCTCCAGAGCCCCCAC 21585  
gi | 194719394 | ref | NC\_007316.3 | N GTTGCTGCTGGGAA  
GTG---AAGCCAGGCAGCTGGCTCCAGAGCCCCTGG 26064  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTGTGTGTGAA  
TAG----AATCAGCCTGATTGTTTAGGAGAGACCTG 20923

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCTTAG-CATA  
TAGCAATGCTACTG-ATCTTTATCATTGAGTTTGT 33647  
gi | 114795057 | ref | NC\_006483.2 | N TTCTCTTAG-CATA  
TAGCAATGCTACTG-ATCTTTATGATTGAGTTTGT 35753  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTCTTCG-CCTC  
TGCACTTGGTACTGGCACCATGCGGAATGGATGGCA 21634  
gi | 194719394 | ref | NC\_007316.3 | N CCCTCTTAG-CCTT  
TGCCACTGGTGCTGAATACATGTTGTAT----- 26105  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCAATGAGGACAT



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gi | 51473102 | ref | NT_010498.15 | _          TCTGATTGCTCTAG
CTAGAACTTACAGTATTCTGTTGAATAGTAGTGGTA 33847
gi | 114795057 | ref | NC_006483.2 | N          TCTGATTGCTCTAG
CTAGAACTTACAGTATTCTGTTGAATAATAGTGGTA 35953
gi | 73957561 | ref | NW_876316.1 | Cf          TCAGAAAGCCCCAG
GTAACAGGCTGACT-ACCCAG---ATACCTGAAGTC 21792
gi | 194719394 | ref | NC_007316.3 | N          TCAGAAAGCTCCAG
TTAACAGGCAGAATTTCCCAG---ATACCTGAAGCC 26260
gi | 149361523 | ref | NC_000074.5 | _          CCGGCTCTCACCAG
GCACCTGTGACTTCGCTCTTTG-----GTCCTC 21119
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gi | 51473102 | ref | NT_010498.15 | _          AAAGTGGGTATCCT
ACGGGAAAAG----- 33871
gi | 114795057 | ref | NC_006483.2 | N          AAAGTGGGTATCCT
ACTGGAAAAGGTTTCAGTTTTTCCTCATTTCAGTATG 36003
gi | 73957561 | ref | NW_876316.1 | Cf          ATTCAGACTGCC-
----- 21805
gi | 194719394 | ref | NC_007316.3 | N          A---CGGTTACCT-
----- 26270
gi | 149361523 | ref | NC_000074.5 | _          TCTGGGTCTGACT-
----- 21132
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gi | 51473102 | ref | NT_010498.15 | _          -----
-----
gi | 114795057 | ref | NC_006483.2 | N          AACTAGCCCTGGG
TCTGTTATATATGGCTTTTATTACATTGAGATATGT 36053
gi | 73957561 | ref | NW_876316.1 | Cf          -----
-----
gi | 194719394 | ref | NC_007316.3 | N          -----
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gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          -----
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gi | 114795057 | ref | NC\_006483.2 | N TCCTTCTATACCTA  
GTTTTTTTAGGGTTTTTATCATGAAGGGATGTTGAA 36103  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TTTTGTCACATGTT  
TTTTCAGGATTAATTGAAATGATCATATGGTTTTTG 36153  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TCTTTCATTCTGTT  
GATGTGTCACATTAATTTGTGTATGGTGAACCATCC 36203  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TTGCACCCTTGGGA  
TAAATCCCATTTGGTTCATGATGAATTTTCATTTTAA 36253  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N TCGGTTATTGCATT  
TAATTTGCTTGTATTTTGCTGAGGATTTTGCATCA 36303

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N ATAGTCATCGGTGA  
TATTGGCCAGTAGTTTTCTTTTTTAAATGTGTCTTT 36353

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N GTCTGGTTTTGGTA  
TCAGGGTAATACTGGCCTCGTAGAATGAAAGTATTC 36403

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----

gi | 114795057 | ref | NC\_006483.2 | N CCTACTCATCTGTT  
TTTTGGAATAATTTAGTAGGATTGGTATCGCTTCTT 36453

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----

gi | 114795057 | ref | NC\_006483.2 | N CGAGTGTTTGGTAG  
AATTCAGCAGTGAAGCCACTGGGTCCTGGGCTTTTC 36503

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----

gi | 114795057 | ref | NC\_006483.2 | N TTAAGTGGGAAGACT  
TTTTATTATGGCTTCGATCTTATTACTTGTTATTGG 36553

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TCTATTCAGCTTTT  
GGATTTCTTCATGGTTCAATCTTGGTAGGTTCTGTG 36603  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TGTCTAGGAATTTA  
TCCATTTCTTCTATATTTTGCAATTTATTGGCATAT 36653  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGTTGCTCCTGGTA  
GCCACTAATGGTCCTCTGACTTTCTGTGATATAATT 36703  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N TGTGAAGTTTCCTT  
TTTCATTTCTGTTTGTATTTATTTGGTTCTTCTCTC 36753  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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-----  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTTTCTTAGCC  
TGGCTAAAGGTTTGTTCAGTTTGTATTATCTTTTAAA 36803  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----

-----  
gi | 114795057 | ref | NC\_006483.2 | N AAAAATACTCTTGT  
TTCTTAAGACAAGCCTATTTAAAAAAGTGTCTGATA 36853  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----

-----  
gi | 114795057 | ref | NC\_006483.2 | N TGTGGTAAATACAC  
AACATAAAATTTACCATCTTAACCATGTTATTTTTT 36903



gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N CCAAGACATGGTCT  
CACTCTGTTGCCAGGCTTGAGTCCGGTGCTGCAAT 36953

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N CAAGGCCAGTGCA  
GCCTCCACCTCCTGGGCTTAAGCAATCCTCCTGCCT 37003

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

-----  
gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N CAGTCTCCTGAGTA  
GCTGAGACTACAGGAGTCTGTCACCACAATGGGCTA 37053

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----

gi | 114795057 | ref | NC\_006483.2 | N ATTTTTTAAATTTT  
TTTGTAGAGCCAAGATCGTGCTATATTGCCCAGACT 37103

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N AGCCTTGAACCTCCT  
GGGTTCAAGCGATCTCCCCACCTCAACCTCCTAAAG 37153

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TTTTGGGATTACAG  
TTGTGAGTCACTGTGCCTGGCCTTAACCATTTTGAA 37203

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GTGTACATTGTAGT  
TGCATTAAGTACAGTCATACAGTCATACTGTTGTGC 37253  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AACCATCGCCATTC  
TCTACCTCCAGAATTCTTTTTTTTTTTTTTTTTTTTGG 37303  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGATGGAGTTTCAT  
TCTTGTTGCCAGGCTGGAGTGCAATGGCGCCATCT 37353  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CAGCTCACTGCAAC  
CTCCGCCTCCCAGCTTCAAGCTATTCTCCTGCCTCA 37403  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GCCTCCTGAGTGGC  
TGGGATTACAGGCACATGCCACCACGCCTGACTAGT 37453  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TCTNNNNNNNNNNNG  
TATCTGTTTTTAAGACAGTACAATGCATGTTTGGTT 37503  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ACTAAAGCTCTGTA

GTATAATTTAAAGTCAGGTAATTAGATTCTCCAGTG 37553  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TGTTCTTTTCCTTA  
AGAAAAGCTTTGGCTATTCGGGTCCTTTGTGGTTC 37603  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CATATAAATTTTTA  
ATTGTTTTTTCTATTTCTGTTAAGAATGTCATTGTT 37653  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ATTTTAATAGGGAT  
TCCATTAAATCTATAGATTGCTTTGGGTAGTATGGA 37703  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CATTTTAACAATAT  
TGATTTTCCAACCCATGAACATGGAATATCTTTCC 37753  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ATTTTTCTGTGTCT  
TCTTCAGTTTCTTGCATCAATGTTTTATAGTTTTCA 37803  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TTGTAGAGATCTTT  
TACTTCTTTAAGTTAATTCCTAGATACTTAATTTGT 37853  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GGCTGTGGTAAATG  
GGATTACTTAATTGATTTCTTTTTCAGATTGCTTTC 37903  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TCTTAGCATATAGC  
AATGCTACTGATCTTTATGATTTGAGTTTGTATCCT 37953  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CTAAC TTTACTGAT  
TTTGTTTATGAGTTCTAATAGCTTTAGGTGGAGTCT 38003  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TAGGTTTTTTCAGA  
TGTAAGATCATATCATCTACAAACAAGAATAATTTG 38053  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ACTTCTTCCTTTCC  
AATTTGGATGCCCTTTATTTTTTACTCTTGTCTGAT 38103  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TGCTCTAGCTAGAA  
CTTACAGTATTCTGTTGAATAATAGTGGTAAAAGTG 38153  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
----CTTTCAGTTTTTTCATCATTCAATATGACACTA 33903



gi | 114795057 | ref | NC\_006483.2 | N GGTACCCTATGGGA  
AAAGCTTTCAGGTTTTCCTCATTCAGTATGACACTA 38203  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CGGTTTCCCCTCCTGG-----CCTC 21825  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CAGTTTCCCCTCCCTGGCTTTTACACCC 26298  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GTGTGTTACACCTA----- 21146

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCTGGGTCTGTC  
ATATATGGCTTTTATTACATTGAGACATGTTTCCTTC 33953  
gi | 114795057 | ref | NC\_006483.2 | N GCCCTGGGTCTGTC  
ATATATGGCTTTTATTACATTGAGATATGTTTCCTTC 38253  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTC-----T  
GTCCCTGACACTTGTCTCTCTG-----GTCTG-T 21859  
gi | 194719394 | ref | NC\_007316.3 | N TCTC-----C  
ATTCTGACACCTCCCTCTCAGT--CAAGCTCAGGA 26338  
gi | 149361523 | ref | NC\_000074.5 | \_ -----C  
ATTCTATCTCCTTTTAGGTGGACCTGG----- 21175

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gi | 51473102 | ref | NT\_010498.15 | \_ TATACCTAGTTTTT  
TTAGGGTTTTTTATTATGAAGAGATGTTGAATTCTGT 34003  
gi | 114795057 | ref | NC\_006483.2 | N TATACCTAGTTTTT  
TTAGAGTTTTTTATCATGAAGGGATGTTGAATTTTGT 38303  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTTCCCTGG-----  
----- 21868  
gi | 194719394 | ref | NC\_007316.3 | N ATACCCAG-----  
----- 26347  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACGTTTTTTTCAGC  
ATTAATTGAAATGATCATATGGTTTTTTGTCTTTCAT 34053  
gi | 114795057 | ref | NC\_006483.2 | N CATGTTTTTTTCAGC  
ATTAATTGAAATGATCATATGGTTTTTTGTCTTTCAT 38353  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GCTTCAGCAGC

CTT-----CCTAGTGGCTCTGCGTTTAAAG 21904  
gi | 194719394 | ref | NC\_007316.3 | N ---GCTTCTGCTGC  
CTT-----CCCA-TGGCTCATGTTTAAAGGC 26382  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACAGCGGC  
CTG-----TCAGAATTTGCAGTGGCCC 21205

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGTTGATGTGTC  
ACATTAATTTGTGTATGGTGAACCATCCTTGCACCC 34103  
gi | 114795057 | ref | NC\_006483.2 | N TCTGTTGATGTGTC  
ACATTAATTTGTGTATGGTGAACCATCCTTGCACCC 38403  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTTCGTGATTGGTC  
GGTTGAG----- 21925  
gi | 194719394 | ref | NC\_007316.3 | N TTCCTTGATTGGTC  
AGATCAG----- 26403  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCGCAGGCTGGTC  
CATGGGTGG----- 21228

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGGGATAAATTCC  
TTTTGGTCATGATGAATTTTCATTTTAAATGTGTTAT 34153  
gi | 114795057 | ref | NC\_006483.2 | N TTGGGATAAATCCC  
ATTTGGTCATGATGAATTTTCATTTTAAATGCGTTAT 38453  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GGGCCAGTCAC  
AGTCCTCCTTGCAGCATCCTCAAGCTG---TGCTCT 21969  
gi | 194719394 | ref | NC\_007316.3 | N ---GGACCAATCAC  
AGCCCTCCTTGTAGCATCCTCACTCTCCT-TTCTCC 26449  
gi | 149361523 | ref | NC\_000074.5 | \_ AACGAGTTTGTACAC  
AGATAACGCTGAG-----CCCG 21259

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCATTCAATTTGC  
TTGTATTTTGTCTGAGGATTTTGCATCAATAGTCAT 34203  
gi | 114795057 | ref | NC\_006483.2 | N TGCATTCAATTTGC  
TTGTATTTTGTCTGAGGATTTTGCATCAATAGTCAT 38503  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGGGCCGCTCATC  
CACTCATTTGGTCAGGTCTCAGCACACCGGGAGGTGT 22019  
gi | 194719394 | ref | NC\_007316.3 | N TCTGGTCCCCACCC  
TGCTCATTTGGTTAGTTCTTAGTGCCCTAG-AGATGT 26498

gi | 149361523 | ref | NC\_000074.5 | \_ TGTGGAAGAAATAC  
CTGGATCAGGTAGGGGCAGG--ACATCCTTCTCTGT 21307

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTGATATTGGCC  
AGTAGTTTTCTTTTTTAAATGTGTCTTTGTCTGGTT 34253

gi | 114795057 | ref | NC\_006483.2 | N CGGTGATATTGGCC  
AGTAGTTTTCTTTTTTAAATGTGTCTTTGTCTGGTT 38553

gi | 73957561 | ref | NW\_876316.1 | Cf GACTCTTTGACGCA  
TTTGGCACCAAATTTGACT-----TC 22055

gi | 194719394 | ref | NC\_007316.3 | N CATTCAATTGACACA  
TTTTGGCACCAAGAGAGGCT-----TC 26534

gi | 149361523 | ref | NC\_000074.5 | \_ GGTCAGGGGCC  
CTGG----CCAGGAAGGGCG----- 21337

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGGTATCAGGGTA  
ATACTGGCCTCGTAGAATGAAAGTATTCCCTACTCA 34303

gi | 114795057 | ref | NC\_006483.2 | N TTGGTATCAGGGTA  
ATACTGGCCTCGTAGAATGAAAGTATTCCCTACTCA 38603

gi | 73957561 | ref | NW\_876316.1 | Cf TTGGTGCACGGGTG  
GCTCTTGCCAG-----CCCG 22084

gi | 194719394 | ref | NC\_007316.3 | N TAGGTATGCAGGTG  
ACTCTGGCCAA-----CCCA 26563

gi | 149361523 | ref | NC\_000074.5 | \_ --GGTCAAGTATTC  
ATTCTT-----TAAA 21359

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGTTTTTTGGAA  
TTATTTAGTAGGATTGGTATCGCTTCTTCGAGTGTT 34353

gi | 114795057 | ref | NC\_006483.2 | N TCTGTTTTTTGGAA  
TAATTTAGTTGGATTGGTATCGCTTCTTCGAGTGTT 38653

gi | 73957561 | ref | NW\_876316.1 | Cf AAAGCTTCCCGGAA  
TCCCAG-GATGGAAGGAAGCAGCAGTGGCTCCTGGC 22133

gi | 194719394 | ref | NC\_007316.3 | N GAAATTTCTGGAA  
TGCCAGTGTTGGGAAGAGACAGCAGAGGCTCCTGGA 26613

gi | 149361523 | ref | NC\_000074.5 | \_ TATTGATCCTGGGT  
GTCCTTGGACAGGTTGCATCTGGGGTGAGGGGTG-- 21407

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTAGAATTCAGC  
 AGTGAAGCCACTGGGTCCTGG--GCTTTTCCTAACC 34401  
 gi | 114795057 | ref | NC\_006483.2 | N TGGTAGAATTCAGC  
 AATGAAGCCACTGGGTCCTGG--GCTTTTCCTAACT 38701  
 gi | 73957561 | ref | NW\_876316.1 | Cf AGCTGGAGTTCAGG  
 GAAGCAG-----GCCACACAG--GCAGTGGGG-ACG 22175  
 gi | 194719394 | ref | NC\_007316.3 | N AGTTGAAGTTCAGG  
 GAAGGAGGC--TGACACATGG--GCTGTGGGGGACC 26659  
 gi | 149361523 | ref | NC\_000074.5 | \_ AATACATTTTAAGA  
 TAAACAGTTCTGTGCTCCTGGATGCTCTGAGACTCC 21457

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGACTTTTTAT  
 TATGGCTTTGATCTTATTACTTGTTATTGGTCTATT 34451  
 gi | 114795057 | ref | NC\_006483.2 | N GGAAGACTTTTTAT  
 TATGGCTTCGATCTTATTACTTGTTATTGGTCTATT 38751  
 gi | 73957561 | ref | NW\_876316.1 | Cf GCCTCCCTTCTGCC  
 ACTGG----- 22194  
 gi | 194719394 | ref | NC\_007316.3 | N TTCTCCCTTCTGAA  
 GCCCG----- 26678  
 gi | 149361523 | ref | NC\_000074.5 | \_ AGAAGGAACTCTAC  
 ATAGG----- 21476

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCTTTTGGATTT  
 CTCATGGTTCCATCTTGGTAGGTTCTGTGTGTCTA 34501  
 gi | 114795057 | ref | NC\_006483.2 | N CAGCTTTTGGATTT  
 CTCATGGTTCAATCTTGGTAGGTTCTGTGTGTCTA 38801  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----GCCTC 22199  
 gi | 194719394 | ref | NC\_007316.3 | N -----  
 -----GCCTT 26683  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAATTTATCCATT

TCTTCTATATTTTCCAATTTATTGGCATATAGTTGC 34551  
gi | 114795057 | ref | NC\_006483.2 | N AGAATTTATCCATT  
TCTTCTATATTTTCCAATTTATTGGCATATAGTTGC 38851  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGGGTGATCAGTT  
CCTGCCCTCGGTGCCCT---TCCACCAGGAGGCTC 22246  
gi | 194719394 | ref | NC\_007316.3 | N GG-----TCACT  
TCTGCCCCGGCTGCCCT---TCCACTAGGCCCTGC 26723  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGACT  
AAAGATCTAGGTGTCCAT---AACCCTTACTAGCAA 21514

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTGGTAGCCACT  
AATGGCCCTTTGACTTTCTGTGATATAATTTGTGAA 34601  
gi | 114795057 | ref | NC\_006483.2 | N TCCTGGTAGCCACT  
AATGGCCCTCTGACTTTCTGTGATATAATTTGTGAA 38901  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCA-TTTCCCA  
ACCGTCCTCCTTCCTGCCTTTGCCCTATTAAACTG 22295  
gi | 194719394 | ref | NC\_007316.3 | N TCACC-TAGCCTCT  
GCCG---GCTAACACCTCACACCAGGGCTGTCA- 26767  
gi | 149361523 | ref | NC\_000074.5 | \_ TCATGGGCACTAGG  
GACAATTGCCACACACCAGGCATCATAACCGATGTAA 21564

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTCCTTTTTTCAT  
TTCTGTTTGTATTTATTTGGTTCTTCTCTCTTTTTT 34651  
gi | 114795057 | ref | NC\_006483.2 | N GTTTCCTTTTTTCAT  
TTCTGTTTGTATTTATTTGGTTCTTCTCTCTTTTTT 38951  
gi | 73957561 | ref | NW\_876316.1 | Cf --CCACAGACGCCA  
GCCAGGGCCTTTGCAAAAAT---ATCTCTTACATTT 22340  
gi | 194719394 | ref | NC\_007316.3 | N ---TCCAGCCTCCA  
GCCAGGACCTTTCCAGGAATGAAATCTCTTCAGTTT 26814  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----TAAATAAG  
TACTGTCGATTTATTTTATTATCCCCCTAAAGCCA 21609

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTAGCCTGGCTA  
AAGGTTTGTTCAGTTTTGTTTACCTTTAAAAAAAAT 34701  
gi | 114795057 | ref | NC\_006483.2 | N TCTTAGCCTGGCTA  
AAGGTTTGTTCAGTTTTGTTTATCTTTTAAAAAAAAT 39001

gi | 73957561 | ref | NW\_876316.1 | Cf CCTAGAGCAGGGAA  
CCT-----TCAGTACCAG-- 22367  
gi | 194719394 | ref | NC\_007316.3 | N GTAAGAGCAGGAAA  
CATGCTTATTCATCTT-AACCTCATCAGTTCAAGGA 26863  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTGCGGTGGGGGA  
GTG----- 21626  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCTTGTTTCTTA  
AGACAGGCCTATTTAAAAAATGTCTGATATGTGGT 34751  
gi | 114795057 | ref | NC\_006483.2 | N ACTCTTGTTTCTTA  
AGACAGGCCTATTTTTAAAAAATGTCTGATATGTGGT 39051  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
GCACTGCGCAAAGAGCAG----- 22385  
gi | 194719394 | ref | NC\_007316.3 | N TCCATCTCAGGGTA  
TCCCTGTGGGATTGGAAGGCAGCTTCCGATGGCCGT 26913  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
TGACAGAGGAACAGGAAACCT----- 21647

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATACACAACATA  
AAATTTACCATCTTAACCTTGTATTTTTTTCCAAGA 34801  
gi | 114795057 | ref | NC\_006483.2 | N AAATACACAACATA  
AAATTTACCATCTTAACCATGTATTTTTTTCCAAGA 39101  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAGCCAGACCAAC-----TTCTGCT 22406  
gi | 194719394 | ref | NC\_007316.3 | N GTTTTCTAGCCCTC  
GACAAGCACAGGAAGTCCATG-----TGCCCTCA 26956  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTTCCCATG-----GCACACA 21663

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gi | 51473102 | ref | NT\_010498.15 | \_ CATGGTCTCATTCT  
GTTGCCCAGGCTCGAGTCCAGTGCTGCAATCAAGGG 34851  
gi | 114795057 | ref | NC\_006483.2 | N CATGGTCTCACTCT  
GTTGCCCAGGCTTGAGTCCAGTGCTGCAATCAAGGC 39151  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTG-----  
-----GGAGACAGACAGCTGCGTGTGTG-- 22433  
gi | 194719394 | ref | NC\_007316.3 | N CTTATTAATTCTTT

GTG-----TTCATTGAGCACTTGCTCCATGCCAG-- 26999  
gi | 149361523 | ref | NC\_000074.5 | \_ GATT-----  
-----TGCCAGAGGAAGCA--AAGAGAG-- 21688  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGTGCAGCCTCC  
ACCTCCTGGGCTTAAGCAATCGTCCTGCCTCAGCCT 34901  
gi | 114795057 | ref | NC\_006483.2 | N CCAGTGCAGCCTCC  
ACCTCCTGGGCTTAAGCAATCCTCCTGCCTCAGTCT 39201  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--AGCATGGTGGGGAGAAATGAGTCAGCACAGCTGC 22467  
gi | 194719394 | ref | NC\_007316.3 | N -----  
--ATGCTGTGGTTCTCCTGTCTGTCTCCTCCAGTGA 27033  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---ACATGGGGTATCCTGGCAAACCAGCATATCAGA 21721

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGAGTAGCTGAG  
ACTACAGGAGTCTGCCACCACAATGGGCTAATTTTT 34951  
gi | 114795057 | ref | NC\_006483.2 | N CCTGAGTAGCTGAG  
ACTACAGGAGTCTGCCACCACAATGGGCTAATTTTT 39251  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGG-----  
----AAATGGCCGTTCTGTT----- 22487  
gi | 194719394 | ref | NC\_007316.3 | N CAGGGATCTCACCA  
CTTAACAAGGCAGTCCTACTTCTCTGTCTCAAGATT 27083  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGCCAAGAAAGAA  
TTAAGAAAGAGTGTGCCTCAAG----- 21757

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATTTTTTTTGTA  
GAGCCAAGATCATGCTATATTGCCCAGACTAGCCTT 35001  
gi | 114795057 | ref | NC\_006483.2 | N TGAATTTTTTTTGTA  
GAGCCAAGATCGTGCTATATTGCCCAGACTAGCCTT 39301  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTGGGCTG  
CGTGGTCAGGGGAGCCGTTTGACTGA----TGCCCA 22527  
gi | 194719394 | ref | NC\_007316.3 | N CACCACTAGGAATT  
CTACCTTAGCATGGCCCCAAATCCCT----GCCCA 27129  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGG  
CTATAGAAGTGAAGGTTATTGTCAGG-----CTG 21789

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACTCCTGGGTTC  
AAGCAATCTCCCCACCTCAACCTCCTGAAGTTTTTG 35051  
gi | 114795057 | ref | NC\_006483.2 | N GAACTCCTGGGTTC  
AAGCGATCTCCCCACCTCAACCTCCTAAAGTTTTTG 39351  
gi | 73957561 | ref | NW\_876316.1 | Cf GAG-----G  
GGGTGATCTTGGAGCAGAGACCTG-----AATG 22559  
gi | 194719394 | ref | NC\_007316.3 | N GAGTCACGAAGCAG  
AGGTAGATTAGAGTCAGACTGCTGGGTTTAAATCCTA 27179  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGAGACGGCTCAG  
CCAGGAAAGTGGTTTTGCTATATG-----AGTA 21831

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gi | 51473102 | ref | NT\_010498.15 | \_ GATTACAGGTATGA  
GTCACTGTGCCTGGCCTTAACCATTTTGAAGTGTAC 35101  
gi | 114795057 | ref | NC\_006483.2 | N GATTACATGTGTGA  
GTCACTGTGCCTGGCCTTAACCATTTTGAAGTGTAC 39401  
gi | 73957561 | ref | NW\_876316.1 | Cf AAATGAAGAAAAGA  
GCCATTGAG-----GGTCTGGAGGAAGG 22596  
gi | 194719394 | ref | NC\_007316.3 | N CTTTCCAGCCTTGT  
GACTTTGAGTCTGCAACCAATCTGCCTTGAGCCTCA 27229  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAGGACAACCTGA  
GTTTGGCTTCTAGAATCTACTCAGTTTAAAGCTGAG 21881

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTGTAGTTGCATT  
AAGTATAGTCACACTGTTGCACAACCATCGCCATTC 35151  
gi | 114795057 | ref | NC\_006483.2 | N ATTGTAGTTGCATT  
AAGTACAGTCATACTGTTGTGCAACCATCGCCATTC 39451  
gi | 73957561 | ref | NW\_876316.1 | Cf ATG-----  
-----TGCAGGAGGGAGAAGTG 22616  
gi | 194719394 | ref | NC\_007316.3 | N ATTGTC-----  
-----CCCATCTAGGAAATGGGACTAGTA 27259  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTG-----  
-----GTGCTGTGCGGTTGAAAT 21903

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTATCTCCAGAAT  
TCTTTTTTTTTTTTCTT-----GAGATGGAGT 35191  
gi | 114795057 | ref | NC\_006483.2 | N TCTACCTCCAGAAT  
TCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGT 39501  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAAGGTCCTG---  
-----AGGCAG 22633  
gi | 194719394 | ref | NC\_007316.3 | N AGTCCCTCCTGTTC  
TGAATTTTACT-----TAAGAGGAAG 27294  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTAGTACCAG---  
-----GGAGG 21919

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTTCTTGTTGC  
CCAGGCTGGAGTGCAATGGCGCGATCTCAGCTCACT 35241  
gi | 114795057 | ref | NC\_006483.2 | N TTCATTCTTGTTGC  
CCAGGCTGGAGTGCAATGGCGCCATCTCAGCTCACT 39551  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGAGGCTG-----  
-----GACACATGTG--- 22652  
gi | 194719394 | ref | NC\_007316.3 | N CCGAGCCTGTATTA  
CATGATTAATAAAGGTTGCCCCAGCCCCAGTGTCT 27344  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGGACAGG----  
----- 21929

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAACCTCCGCCTC  
CCAGCTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA 35291  
gi | 114795057 | ref | NC\_006483.2 | N GCAACCTCCGCCTC  
CCAGCTTCAAGCTATTCTCCTGCCTCAGCCTCCTGA 39601  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGGATAACTG----- 22662  
gi | 194719394 | ref | NC\_007316.3 | N GCCAGCTAT----C  
CTTGGTTCGAGCATAACTGTTAAGAGCACAGGTTTT 27390  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TGGATCCAGCCAG----- 21942

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGCTGGGATTAC  
AGGCACATGCCACCACGCCCGGCTAATTCTTGTATT 35341  
gi | 114795057 | ref | NC\_006483.2 | N GTGGCTGGGATTAC

AGGCACATGCCACCACGCCTGACTAGTTCTTGTATT 39651  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGCTTCAGAAGGTGGCCTGGAGAATCCAG 22691  
gi | 194719394 | ref | NC\_007316.3 | N GGAGTTGCCTGATC  
T---AAATGAATCCTCGGCAGTTCAGTTTCTTTCAG 27437  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTAGCTTATTTAGCCAGTTCAGCCTA 21970

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTAGTAGAGACGG  
GCTTTTGCCATGTTGACAAGGCTGCTCTCGAACTCC 35391  
gi | 114795057 | ref | NC\_006483.2 | N TTTAGTAGAGACGG  
GCTTTTGCCATGTTGACAAGGCTGGTCTCGAACTCC 39701  
gi | 73957561 | ref | NW\_876316.1 | Cf ATACCTGGTGCG--  
---TGATGCATATT---CAACCCTGTTTGTACATCCC 22734  
gi | 194719394 | ref | NC\_007316.3 | N AAACCTGGGTTGGT  
CATTTATCATTAAG---CAGGACTACTTAACAGTACC 27485  
gi | 149361523 | ref | NC\_000074.5 | \_ GTAAAAG-----  
-----ATAACACACACGCGCACA 21995

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gi | 51473102 | ref | NT\_010498.15 | \_ CGACCTCAGGTGAT  
CTGCCTGCCTTGGCCTCCCAAAGCGCTGGGATTACA 35441  
gi | 114795057 | ref | NC\_006483.2 | N CGACCTCAGGTGAT  
CTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACA 39751  
gi | 73957561 | ref | NW\_876316.1 | Cf T-----  
----- 22735  
gi | 194719394 | ref | NC\_007316.3 | N TGTGTCATGGGGTT  
GTGAAAGTGAAAGTCACTCAGTCGGTT----- 27526  
gi | 149361523 | ref | NC\_000074.5 | \_ CG-----  
----- 21997

gi | 51473102 | ref | NT\_010498.15 | \_ AGCCTGAGCCACCA  
AGCCCTACCAGTTTATTATAAAGGCAAAGGATACCG 35491  
gi | 114795057 | ref | NC\_006483.2 | N GGCCTGAGCCACCA  
AGCCCTACCAGTTTATTATAAAGGCAAAGGATACCG 39801  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CACCTCA  
TTTCTCTCCAACCTGGATGGCAAGTCTGTG----- 22771

gi | 194719394 | ref | NC\_007316.3 | N ----- CCAACTCT  
TTGCGACCCCATGGTCTATACAGTCTGTG----- 27563  
gi | 149361523 | ref | NC\_000074.5 | \_ ----- AATACGC  
ATGCACACAGGGCAGGAGGGAGGGCAGGGG----- 22034

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGAAGAGACGCAT  
AGGGCAGGTAATGGGGGAAGGGGCGCAGGGCTTCCA 35541  
gi | 114795057 | ref | NC\_006483.2 | N ATGAAGAGATGCAT  
AGGGCAGGTAATGGGGGGAGGGGCGCAGAGCTTCCA 39851  
gi | 73957561 | ref | NW\_876316.1 | Cf ----- ATGGGCTC  
GGGGCTG----- AAATGAAATCC--TCTTGGC 22804  
gi | 194719394 | ref | NC\_007316.3 | N ----- GAATTCTC  
CAGGCCAGAATACTGGAGTGGGTAGCC--TCTCCCT 27605  
gi | 149361523 | ref | NC\_000074.5 | \_ ----- CGGGGGGG  
GGGGCAGGCAAAGACAGAGAGTGACACAGACACACC 22078

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCCAATGCTGCT  
ATGAACATGGTTGTTCAAACATCTCCCTGGATGCCA 35591  
gi | 114795057 | ref | NC\_006483.2 | N TGCCCAATGGTGCT  
ATGAACATGGTTGTTCAAACATCTCCCTGGATGCCA 39901  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTACTG-----  
----GACTGAGATGTTCTTCC----- CCT 22831  
gi | 194719394 | ref | NC\_007316.3 | N TCTCCAGGAGATCT  
TCCCAACCAAGGGATCGAACC----- CAG 27643  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGTGG-----T  
TCTGAACTTCAAGTTTACCCG-----CT 22109

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTCCAGGAATAT  
CCCCACGTTTCAGGTACGTGAAAACCTCACTGAATCCT 35641  
gi | 114795057 | ref | NC\_006483.2 | N CTCTCCAGGAATAT  
CCCCATGTTTCAGGTACGTGAAAACCTCACTGAATCCT 39951  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGTACTGCTAGGT  
TG---AATAGTGTGCCACAAACCCATGTTTACCTG 22878  
gi | 194719394 | ref | NC\_007316.3 | N GTCTCCACATTGC  
GGGCAGATTCTTTACCAGCTGAGCCACAAGTGTCAT 27693  
gi | 149361523 | ref | NC\_000074.5 | \_ CATCTTGGGTACAG

GAGCCCAAACCTCACCCAGCAGAAGGCTGTGATGCTG 22159

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCTTTGGGTTTTT  
AGGGAAGCTTCATGACATCAT-TCCTTCCCCCAGAT 35690  
gi | 114795057 | ref | NC\_006483.2 | N ATCTTTGGGTTTTT  
AGGGAAGCTTCATGACATCAT-TCCTTCCCCCAGAT 40000  
gi | 73957561 | ref | NW\_876316.1 | Cf GAACCTGAGAATAG  
CACCTTATTTG--GAAATAAGGTCTTTGCAGTTGTG 22926  
gi | 194719394 | ref | NC\_007316.3 | N GGGGTTGGGAGGAG  
CCTATAAAATGATGCAGTAAAGTGCTGAGCACAGGG 27743  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGTCATTCATACC  
CCTGCAGCCTG--TCCCTGGGTACCAGCCCATCTTA 22207

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gi | 51473102 | ref | NT\_010498.15 | \_ TATAGGGTGGGACC  
CTCTCATGGGAGGGTCTTAAGACCCACAGTCAGCAA 35740  
gi | 114795057 | ref | NC\_006483.2 | N TATAGGGTGGGACC  
CTCTCATGGGAGGGTCTTAAGACCCACAGTCAGCAA 40050  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTAGTTTAG----  
-----ATGAGGT---CGTACTGCATTGG----- 22956  
gi | 194719394 | ref | NC\_007316.3 | N CGTGGCTTGG----  
-----AAGAGGTGCTCGGAAAACGCTGG----- 27776  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTG-----  
-----ATGAGCTCCGTGCTGGCCTGG----- 22232

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGGGTTACATTA  
GCATCTCCAGTATTCTTTTCATCTTGTA AAAACTGAA 35790  
gi | 114795057 | ref | NC\_006483.2 | N AGCGGGTTATATAA  
GCATCTCCAGTATTCTTTTCATCTTGTA AAAACTGAA 40100  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTGG-----  
----- 22961  
gi | 194719394 | ref | NC\_007316.3 | N TTTGGGGGCGGTTA  
CTGTTTATTGTAATGAACGTCTCTGGTGACCAT--- 27823  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCTG-----  
----- 22237

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGTCTCCATTAA  
ACACTCACTCCCCATTCCCTCTCCCTCCAGCCTCTG 35840  
gi | 114795057 | ref | NC\_006483.2 | N TCTGTCTCCATTAA  
ACACTCACTCCCCATTCCCTCTCCCTCCAGCCTCTG 40150  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCTAAATCCAATGGCTGGTGTC-- 22984  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCTTCCCCACACAGTAAGGTTTCGG 27849  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCAATCTACATGCCAAATTCGTAG- 22262

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gi | 51473102 | ref | NT\_010498.15 | \_ ACACCCACCATTCT  
ACTTTCTGTCTCTATGAATTTGACTAGTCTATGTAA 35890  
gi | 114795057 | ref | NC\_006483.2 | N ACACCCACCATTCT  
ACTTTCTGTCTCTATGAATTTGACTAGTCTATGTAA 40200  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCTGATAAGAAGAG-----GGGA 23002  
gi | 194719394 | ref | NC\_007316.3 | N CAGACCGCTTTCTG  
CCTGTCCTGCTTTACATGT-----GGGC 27886  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-CTACCATTAGGGAAAGGG-----GAAT 22284

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCATATGTGGAAT  
CAACAGAATTTGTCTTTTTGTGACTGGTTTATTTCA 35940  
gi | 114795057 | ref | NC\_006483.2 | N TTCATATGTGGAAT  
CAACAGAATTTGTCTTTTTGTGACTGGTTTATTTTCG 40250  
gi | 73957561 | ref | NW\_876316.1 | Cf GACACATG-GAACA  
CCCATGGGAGG-----AGAGG----- 23031  
gi | 194719394 | ref | NC\_007316.3 | N TTAAAAGG-GGCC  
CATCAGAACTG-----GGAGGGTCTCA 27921  
gi | 149361523 | ref | NC\_000074.5 | \_ GACTACAGAGGCC  
GTTCTGGTCTAG----- 22310

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTAACTTCATCCT  
CAAGGTTCAACTTAAAGGTGTATCCATGTTGTAGCA 35990

gi | 114795057 | ref | NC\_006483.2 | N CTTAACTTCGTCCT  
CAAGGTTCAACTTAAACGTGTATCCATGTTGTAGCA 40300  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCCACGTG-----ACAACA 23045  
gi | 194719394 | ref | NC\_007316.3 | N TTATCTATAGCCAG  
GGCAGTACTACTGGCCCGTGGTGGGGTCTCCGCACT 27971  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAGTTTGTATTTTTTACCCAACC 22333

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gi | 51473102 | ref | NT\_010498.15 | \_ CGTGTCAGCATTTT  
CTTTCGTTCTCAGGCTAAATAGTATTTTCATTGTGTG 36040  
gi | 114795057 | ref | NC\_006483.2 | N CATGTCAGCATTTT  
CTTTTGTTCCTGAGGCTAAATAGTATTTTCATTGTGTG 40350  
gi | 73957561 | ref | NW\_876316.1 | Cf GAG----GCAGAGA  
CAGCAGGGGTGTGTCCAAG----- 23075  
gi | 194719394 | ref | NC\_007316.3 | N GGG----CCTGATA  
CCTGTGTGCGGTGTCTCATGGTACTCACCTATGTG 28017  
gi | 149361523 | ref | NC\_000074.5 | \_ CAG---TGCTAATC  
CCAGTG----- 22350

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gi | 51473102 | ref | NT\_010498.15 | \_ TG-TACACCATGTT  
TCATGCATTCATTCATCCCTTGAAAGATTGGTGGGT 36089  
gi | 114795057 | ref | NC\_006483.2 | N TG-TACAGCACGTT  
TCATGCATTCATTCATCCCTTGACAGATTGGTGGGT 40399  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAGGCAACACCGGGGAC 23093  
gi | 194719394 | ref | NC\_007316.3 | N AGATGGAGCAAGGC  
AGATGTTTGGCATGGTCTCCAGGAGGGGCGGAGGGA 28067  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCAAGCTGAGAT----- 22363

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTTTCCTCCTTTT  
TGCTTTTGTGAACAGTGCTACGAACATGGTTGTACA 36139  
gi | 114795057 | ref | NC\_006483.2 | N TGTTTCCTCCTTTT  
TGCTTTTGTGAACAGTGCTACGAACGTGCTTGTACA 40449  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----

-GCTGGT----- 23100  
gi | 194719394 | ref | NC\_007316.3 | N G-----  
-GCTGGTGATGTCTGTGCTGG-----TCTGGAG 28095  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACATCTCTTGGAG  
CCCCACTAGCAGTTCCTTTGGGTATATACCCCAAAG 36189  
gi | 114795057 | ref | NC\_006483.2 | N AACATCTCTTGGAG  
CCCCACTAGCAGTTCCTTTGGGTATATACCCCAAAG 40499  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
CGCCACCAGGAGCTGGAAGAGG--CAGG----- 23126  
gi | 194719394 | ref | NC\_007316.3 | N GGCTGCTTGGGTCC  
AGCCACCAGGGAGGGGGCGAGGTTCTGGGCTTGGGA 28145  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
CTCCAACATCTCAGGCTTCCAG----- 22385

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAATTGCTGGAT  
CTGGTAGCTCCCTTTTTTAATTTTTTGAGGAATCGCC 36239  
gi | 114795057 | ref | NC\_006483.2 | N TGGAATTGCTGGAT  
CTGGTAGCTCCCTTTTTTAATTTTTTGAGGAATCGCC 40549  
gi | 73957561 | ref | NW\_876316.1 | Cf -AAGGATTCTCCG-  
----CCGGAGCCT----CCGGAG--TCAGTATGGCC 23164  
gi | 194719394 | ref | NC\_007316.3 | N TTAGAGTTCAAGGT  
GAGGCCAGTGCCTGGTCCCAGCTGTTCAGAGTAGCC 28195  
gi | 149361523 | ref | NC\_000074.5 | \_ -GTAGTTGCTCTCC  
CTTCTCCTCCCC-----CCATTTCTCATTCCAGCC 22429

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gi | 51473102 | ref | NT\_010498.15 | \_ ACACAGTTTCCATA  
ACAGCTGCACCATTTTACATTCCCAAGACCTTTTTT 36289  
gi | 114795057 | ref | NC\_006483.2 | N ACACAGTTTCCATA  
ACAGCCGCACCATTTTACATTCCCAAGACCTTTTTT 40599  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAG-----  
----GAGCACCTTCATACGGTTCCGG----- 23190  
gi | 194719394 | ref | NC\_007316.3 | N CCAGC-----CAG  
GACTGAGGACCTCGGAGCTAACCCTG----- 28229

gi | 149361523 | ref | NC\_000074.5 | \_ CAGG-----  
----CCTTCCCTCTTCGCGTTTGTAG----- 22455

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTTTTTTTTTTTT  
AAGAAGAAAAGATGTGTTTCTGCATTTCTGGAAGTC 36339

gi | 114795057 | ref | NC\_006483.2 | N TTATTTTTTTT---T  
AAGAAGAAAAGATGTGTTTCTGCATTTCTGGAAGTC 40646

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCTCCGGAGCTGGGAGAG 23208

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AACCCGTGGCTGGAGGGG 28247

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACTCCAGGGCTGGCCTAG 22473

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gi | 51473102 | ref | NT\_010498.15 | \_ TATGCTGCATTTCC  
ATTTGTTGAAATTTAAGACCAGAGTCGTCTTTTCTG 36389

gi | 114795057 | ref | NC\_006483.2 | N TACGCTGCATTTCC  
ATTTGTTGAAATTTAAGACCAGAGTCATCTTTTCTG 40696

gi | 73957561 | ref | NW\_876316.1 | Cf AACCCG-----  
----CCTACATTGTTGG-----AAGCCCTCAGG 23238

gi | 194719394 | ref | NC\_007316.3 | N TCCCTTGTGCAGAC  
ACATGCCTGCACCCTTGGGGA-AGTTTCCCATCAAT 28296

gi | 149361523 | ref | NC\_000074.5 | \_ GCTGCAG-----  
-----CCACCCTCTGATTGG----TTCTATGTTTA 22506

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTAATTATAATG  
GTCACTGGCTTGTGCCTTTTCCTCCTCTCTCTGCCC 36439

gi | 114795057 | ref | NC\_006483.2 | N CTGTAATTATAATG  
GTCACTGGCTTGTGCCTTTTCCTCCTCTCTCTGCCC 40746

gi | 73957561 | ref | NW\_876316.1 | Cf CTGTGGTCGTTTAT  
GGCAGG-----CCCCCTTCCCGGAG-- 23272

gi | 194719394 | ref | NC\_007316.3 | N CTTTATTAGGGCTG  
GGCTAGGACACGGGGGTCATCACACTTTCAGAAAGC 28346

gi | 149361523 | ref | NC\_000074.5 | \_ AAGCTTTCTTGATT  
GGTTGG-----TCCAAGGACCAATCATA 22543

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gi | 51473102 | ref | NT\_010498.15 | \_ CATCTGCACGGGG-  
 ---TCTTTGAACAAGTCCCAGCACCTTGGTGGACAA 36485  
 gi | 114795057 | ref | NC\_006483.2 | N CATCTGCACGGGG-  
 ---TCTTTGAAGAAGTCCCAGCACCTTGGTGAACAA 40792  
 gi | 73957561 | ref | NW\_876316.1 | Cf ---CTCGCGTG---  
 TCCCCCCTGCTCCTG-----GAC 23298  
 gi | 194719394 | ref | NC\_007316.3 | N TGGCTTGCCTGGGG  
 GCCCAGTGCTCCAGTCTGAGACCCTTT-AGTGGGA 28395  
 gi | 149361523 | ref | NC\_000074.5 | \_ GTTCAGGAAGCGT-  
 ---CCTCTTCTAGTG-----GGTTTC 22574

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCTGTGTCCCTGG  
 CCCATCATGGAAGCCGCTGCCTTTCAGAGTGGGAGT 36535  
 gi | 114795057 | ref | NC\_006483.2 | N GCCCGTGTCCCTGG  
 CCCATCATGGAAGCTGCTGCCTTTCAGAGTGGGACT 40842  
 gi | 73957561 | ref | NW\_876316.1 | Cf ACCATCCTCCCTGG  
 ATTTCCGAGG-----AAAGG 23327  
 gi | 194719394 | ref | NC\_007316.3 | N GTCAACCCCAAAG  
 ACCTACTAGAGAGCTTCC-----CACAAAATC 28436  
 gi | 149361523 | ref | NC\_000074.5 | \_ ACCCAGATCACCAC  
 CACTGCGTTG----- 22598

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTACCCTGTTGC  
 CTCATTCCTTGCTGCGCCCATGAGTGAGCTTGTGCC 36585  
 gi | 114795057 | ref | NC\_006483.2 | N CTGTACCCTGTTGC  
 CTCATTCCTTGCTGCGCCCATGAGTGAGCTTGTGCC 40892  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTGTAGCCG-----  
 -----CCCTGCGGTGTGAG----- 23350  
 gi | 194719394 | ref | NC\_007316.3 | N CTGAAACCTGCATC  
 AGAGTTTCTGAGATGGACCTGTTGTGAATGG-AGCA 28485  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----ACTTGACGCTTTTG----- 22612

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gi | 51473102 | ref | NT\_010498.15 | \_ TGACCTCTCCTTCC

AGGTGGACTTACACACTGGGCTGTCGGAGTTCTCGG 36635  
gi | 114795057 | ref | NC\_006483.2 | N TGACGTCTCCTTCC  
AGGTGGACTTACACACTGGGCTGTCGGAGTTCTCGG 40942  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGCG---  
-----TGGCCCGGAGCA----- 23366  
gi | 194719394 | ref | NC\_007316.3 | N AACAGGATGCTGGC  
CCTGAGGGGCAGGTTTTGACCCAGAGCAG--CAAGG 28533  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GAACCAAACACTG----- 22624

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gi | 51473102 | ref | NT\_010498.15 | \_ TGACGCAGCGCCGG  
CTGGCCCATGGCTGGAATG--AGTTTGTGTTGCTGACA 36683  
gi | 114795057 | ref | NC\_006483.2 | N TGACGCAGCGCCGG  
CTGGCCCATGGCTGGAATG--AGTTTGTGTTGCTGACA 40990  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGGGC  
ACAGCCCCTCCCTGTGCG-----GGCTG--- 23395  
gi | 194719394 | ref | NC\_007316.3 | N AGACGTGACAAGGC  
AAGACCAAGAACTGGAAGGCAGGGCCAGGGCTGGTG 28583  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GGTTA  
TAGGCACTGGGGTGGATCTG----- 22649

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGCGAACCTGTG  
TGGAAGAAATACCTGGATCAGGTAGGACCAGAGGTG 36733  
gi | 114795057 | ref | NC\_006483.2 | N ACAGCGAACCTGTG  
TGGAAGAAATACCTGGATCAGGTAGGACCAGAGGTG 41040  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCGGGG  
-----ACCC-----CCAACCCCGGGTC 23420  
gi | 194719394 | ref | NC\_007316.3 | N TCTTGGTGACAGGG  
-----ACACCG---TCGAGATGACCCAGGATG 28622  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GCCAAACCCAGAAGAG 22665

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATTCTTTGCATT  
AACATGCATAAGCCAGCGAGGGTGGGGCAGCCATTC 36783  
gi | 114795057 | ref | NC\_006483.2 | N TCATTCTTTGCATT  
AACAAGCATAAGCCAGCGAGGGTGGGGCAGCCATTC 41090

gi | 73957561 | ref | NW\_876316.1 | Cf TCACTGTCAGG---  
-----GGCGGTCGG-- 23440  
gi | 194719394 | ref | NC\_007316.3 | N CCAGTGTTGGGTGG  
ACCGC-----AGTGGTGGGTCTTCAGGCGGAGGAGA 28667  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAATGTCCAG---  
-----GCAGTGGA-- 22684  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATCTTTCAATGTT  
GATGGAAGGCATCCTTGGACAGCTCCCGCCCCTTTC 36833  
gi | 114795057 | ref | NC\_006483.2 | N CATCTTTCAATGTT  
GATGGACGGCATCCTTGGACAGCTCCCGCCCCTTTC 41140  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CACCGAACTTG--GGACT----TCACT--- 23461  
gi | 194719394 | ref | NC\_007316.3 | N ACCATTGGGTGGTG  
ACAGTCCTCCCCTCCTG--GCCCTCAGGTCACTGCA 28715  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CGCTACTGG-AAATTAGAGCCTAAGGA 22710

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGCTGCCCCAGCC  
AGCCTGAGCATCAGTCATGAGCAAATCACCAACTCC 36883  
gi | 114795057 | ref | NC\_006483.2 | N GCGCTGCCCCAGCC  
AGCCTGAGCATCAATCATGAGCAAATCACCAACTCC 41190  
gi | 73957561 | ref | NW\_876316.1 | Cf -AGCCG-----AA  
ACCTTTTTTCTTAG-----ATTTTTTTCATT 23492  
gi | 194719394 | ref | NC\_007316.3 | N GGGCCGGCCTGGAA  
GCCAGGCTCTGGGTGCAGAGCTGACGCTGCTCCACT 28765  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGAGGCTCAGAGC  
AGCCAGGGCTTAG-----GCAGCTCTGCC 22748  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGCAACCGCGAT  
CAGGAAAAACAGTGATCACTTTCGTAGACAGTTGAG 36933  
gi | 114795057 | ref | NC\_006483.2 | N CAGGCAACCGCGAT  
CAGGAAAAACAGTGATCACTTTCGTAGACAGTTGAG 41240  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGAAAATTT---  
-----CAGAAACATGCATAG----- 23518  
gi | 194719394 | ref | NC\_007316.3 | N AGAGCAGGCCTGGT

CTCTGATGTCCATGAGCCTAGACAAG----- 28805  
gi | 149361523 | ref | NC\_000074.5 | \_ CCG-----  
-----TTGGCTTTTGCCTAG----- 22766

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGCCCCGGGCCC  
CACGCTATATGAGTAAGTGAATAAGTAAGCATGCGC 36983  
gi | 114795057 | ref | NC\_006483.2 | N CAGGCCCCGGGGCCC  
CACGCTATATGAGTAAGTGAATAAGTAAGCATGCAC 41290  
gi | 73957561 | ref | NW\_876316.1 | Cf --GTAAAGGGGCCC  
CCGAGTGGCTCGGTCAGTTAAG----- 23552  
gi | 194719394 | ref | NC\_007316.3 | N --ATCCCACTGCCC  
TGTTTTTCTTTTTTCAGTTCAAGA----- 28841  
gi | 149361523 | ref | NC\_000074.5 | \_ ---ATGCTCAGCCT  
GTCTTTTCTCTGGAG----- 22793

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gi | 51473102 | ref | NT\_010498.15 | \_ TTACTAATCCTCCT  
CCTAATCCCG-CCTTTGCACATGAGGAAGGAGAAGT 37032  
gi | 114795057 | ref | NC\_006483.2 | N TTACTAATCCTCCT  
CCTAATCCCG-CCTTTGCACATGAGGAAGGAGAAGG 41339  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CATCTGCCT  
TCGGCTCAGGTCCTGATCTCAGG-----GTCCTGGG 23592  
gi | 194719394 | ref | NC\_007316.3 | N -ATCCCCTGATCCT  
GCTGCTCCTGGCCTCTGCCTTGGTGAGCGTCCTCAC 28890  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCC  
TCTGCTTGCACACTGAAAGCTCCCTGCAACACTTCT 22832

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGAGGTTGAAAG  
ATTTCCCCAGAGTTGCCAGGTTTAGCAAATAACAAT 37082  
gi | 114795057 | ref | NC\_006483.2 | N GCAGAGGTTGAAAG  
ATTTCCCCAGAGTTGCCAGGTTTAGCAAATAACAAT 41389  
gi | 73957561 | ref | NW\_876316.1 | Cf ACGGAG-----  
-----CCCCTGCTCCGTG----- 23611  
gi | 194719394 | ref | NC\_007316.3 | N AAAGAAGTATGAGG  
ATGCCATCAGCATCGCCGTGGTGAGTGCACCCCATG 28940  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGAA-----  
-----ACCCCATAAACAAG----- 22852

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gi | 51473102 | ref | NT\_010498.15 | \_ ATAGGATGCCCTGT  
TAAATTTCAATTTTCAGGCTGGGCGTGGTGGCTCGTG 37132  
gi | 114795057 | ref | NC\_006483.2 | N ATAGGATGCCCTGT  
TAAATTTCAATTTTCAGGCTGGGCGTGGTGGCTCACG 41439  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-GGGAGCCTGCTTCTCCCTCT-----CCCTCT 23637  
gi | 194719394 | ref | NC\_007316.3 | N GGAG-----T  
TGGGGGACAGTGCCCCCCCAT-----CCCAGA 28972  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTCTCTCTCTCTCT----- 22867

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGTAATCCAAGC  
ACTTTGGGCGGCTGAAGCGGGTGGATCACTTGAGCC 37182  
gi | 114795057 | ref | NC\_006483.2 | N CCTGTAATCCAAGC  
ACTTTGGGCGGCTGAAGCGGGTGGATCACTTGAGCC 41489  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCCTCTACCCTGC  
TTGTG-----CTTGCTC-----TCTCTCTCAA 23674  
gi | 194719394 | ref | NC\_007316.3 | N CCTGGCTGCCGAGG  
TCCTG-----CTGAGTC-----TCAGTTTACCT 29009  
gi | 149361523 | ref | NC\_000074.5 | \_ -CTCTCTCTCTCTC  
TCTCT-----CTCTCTTTTC 22895

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGAGTTCAAGAC  
CAGCCCGGCCAACATGGCGAAACCCCGTCTCTTCTA 37232  
gi | 114795057 | ref | NC\_006483.2 | N CAGGAGTTCAAGAC  
CAGTCCGGCCAACATGGCAAACCCCGTCTCTTCTA 41539  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAATAAACAAAAT  
-----CTTTTACGAATATATTCATAAGT 23711  
gi | 194719394 | ref | NC\_007316.3 | N TTGTTATGCAAGGA  
GAAAAAAACTAGGCTGTAAGAAGAAGAAAAAAGT 29059  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGGGCTAAAGGCC  
G-----GCTCACCTATCTCTTTCTCTT 22932

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATATAAAAATT  
AGCCGGATGTGGTAGTGGATGCCTGTAATCCCAGCT 37282  
gi | 114795057 | ref | NC\_006483.2 | N AAAATATAAAAATT  
AGCCGGATGTGGTAGTGGATGCCTGTAATCCCAGCT 41589  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAAGAATAAATA  
ATATAATGACCCCCACATACCCAT---TATCTTTCT 23758  
gi | 194719394 | ref | NC\_007316.3 | N AGAAAACACAGCAT  
AAAGAAAGGACAAGAAGTGTCCATGTTCTTCTACCT 29109  
gi | 149361523 | ref | NC\_000074.5 | \_ ACGTTCAAGGACAC  
ACCTACCGAAAGTGGCTGGAGTCTATGGCCCTATGG 22982  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGAGGAGGCTGA  
GGTGGGAGGATTGTTGGAACCCAGGAGGTGGAGGCT 37332  
gi | 114795057 | ref | NC\_006483.2 | N ACTGAGGAGGCTGA  
GGTGGGAGGACTGTTGGAACCCAGGAGGTGGAGGCT 41639  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAACAATT-----  
-ATCAATCCATTTGACCCACTTTTATTCTCCTCACTTT 23802  
gi | 194719394 | ref | NC\_007316.3 | N CACGAAGAG-----  
-CTGACTCACTGGAAAAGACCCTGATTCTGGGAAAG 29153  
gi | 149361523 | ref | NC\_000074.5 | \_ GCATACAGA-----  
-----TTCTTTCTGTACACCCTGCATCCCTTTCTT 23021  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGTGAACCTGAGA  
TTGTGCCACTGTGCTCCAGCCTGGACAACAGAGTGA 37382  
gi | 114795057 | ref | NC\_006483.2 | N GCAGTGAACCGAGA  
TTGTGTCACTGTGCTCCAGCCTGGACAACAGAGTGA 41689  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTTTG--CAG---  
-----TAT 23814  
gi | 194719394 | ref | NC\_007316.3 | N ACTGAGGGCAGGAG  
GAGCAGGGGCAGCTGCTAGCCTGTGAGGCTGTTTGA 29203  
gi | 149361523 | ref | NC\_000074.5 | \_ ACATCC-----  
----- 23027  
\* :

gi | 51473102 | ref | NT\_010498.15 | \_ GACCTTGTCTCCAC  
AACAAACAACAAAACCAAAGTGAATTTTCAGATAGATA 37432  
gi | 114795057 | ref | NC\_006483.2 | N GACCTTGTCTCAAC

AACAACGACAAAAACAAAGTGAATTTGAGATAGATA 41739  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTCAAATTCTAGA  
TATTGAATCCTTT-----TGCCATCTA 23850  
gi | 194719394 | ref | NC\_007316.3 | N ATTCAAGTTAAATA  
AAATGAAGAATTCGATTTCTCGGGTGAAGTCAGCAA 29253  
gi | 149361523 | ref | NC\_000074.5 | \_ --ACTAAACTTTGA  
TGAGGCAGCCATG-----GGGGAACCC 23061

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gi | 51473102 | ref | NT\_010498.15 | \_ AACAAGAAGCAATT  
TCTAGTATAAGTGTGTCCCAATACAGTGGACGTGCT 37482  
gi | 114795057 | ref | NC\_006483.2 | N AACAAGAAGCAATT  
TCTAGTATAAGTGTGTCCCAATACAGTAGACGTGCT 41789  
gi | 73957561 | ref | NW\_876316.1 | Cf TACT-----TTG  
CTATGTATCATTAG-----AAGACATTTTCCT 23884  
gi | 194719394 | ref | NC\_007316.3 | N CACAG-----TTT  
GAAAGCATCAATTTGTCAGTGCTCAGCCTTCTTTCT 29297  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTT-----TAT  
GTCTTCTTCTGTGG-----CCAGTGGATTGGCT 23097

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gi | 51473102 | ref | NT\_010498.15 | \_ TATACTAAAAACAA  
AAAGTTCCTTGTTTTTCTGAAATTTAGATTTTACTG 37532  
gi | 114795057 | ref | NC\_006483.2 | N TATACTAAAAACAA  
AAAGTTCCTTGTCTATCTGAAATTCAGATTTTACTG 41839  
gi | 73957561 | ref | NW\_876316.1 | Cf -CTTTCTCTCTCTC  
TTT-----TTTTCTCAGATGTGACAATAATACTC 23926  
gi | 194719394 | ref | NC\_007316.3 | N GCTCCCCAACTCTC  
ACA-----TCCGTACATGATTACCGGAAAAACCA 29340  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTGAGTATCAGGA  
AGG-----GTATGAACGAGACCCACTCACAGCTT 23140

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGTCCTACTGTA  
ACCTGAGCCCAAAGTCACATAGCTGTGAGGAGCAGT 37582  
gi | 114795057 | ref | NC\_006483.2 | N GGTGTCCTACTGTA  
ACCTGAGCCCAAAGTCACATAGCTGTGAGGAGCAGT 41889  
gi | 73957561 | ref | NW\_876316.1 | Cf TTG-TCCCACC---  
---AATACCATTGTCACTTCATGGCCTGGTCCAGT 23968

gi | 194719394 | ref | NC\_007316.3 | N TAGCTGTTTCT---  
----GGTTCCAAAATGTTTTTCGTTGCCCTGAAAGGA 29383  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGTGTCTGG---  
-----TCCCCTTAAATGGCTTGCGACGATCTCTGGA 23182

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGAGCAGTGCAG  
CCAGGGAGCTGCACCCAGAGCCCCTTCCCTTGCTAG 37632  
gi | 114795057 | ref | NC\_006483.2 | N GCAGAGCAGTGCAG  
CCAGGGAGTTGCACCCAGAGCCCCTTCCCTTGCCAG 41939  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAAGGTCCACAGT  
CAGTT-----TTCCCCACAGGCCTCA--AAG 24006  
gi | 194719394 | ref | NC\_007316.3 | N ACCCTGTGCTCATT  
CAACAGTCATCCCCCACCACCAGCCCCTGGAAA 29433  
gi | 149361523 | ref | NC\_000074.5 | \_ ACATGGTGGGGTCT  
GGAGAGAAGTCGTCTGTATCCTATGACATTGCTCTT 23232

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCTGCCATCGGT  
GCTGGCGCGGTGCTGAATGAATGGCACACAATC--A 37680  
gi | 114795057 | ref | NC\_006483.2 | N CTGCTGCCATCGGT  
GCTGGCGCGGTGCTGAATGAATGACACATAATC--A 41987  
gi | 73957561 | ref | NW\_876316.1 | Cf ACGCCTTTTTTCAG-  
--TTGATTTGTTCAAAG-----CAGTGTC-TG 24043  
gi | 194719394 | ref | NC\_007316.3 | N GCACTGTCTGCTG-  
--TCTGTCTGTCCAGATTTGCCTGTCTGGGTCGTT 29480  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGAGCACACTG-  
-----CACCTTCTGGATGAATCGATTTGTGTA--- 23273

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gi | 51473102 | ref | NT\_010498.15 | \_ AATGCCTGGAAGCC  
ACTAAGAAGGGGAAAGAAAAACTGCAATTGACATG 37730  
gi | 114795057 | ref | NC\_006483.2 | N AATGCCTGGAAGCC  
ACTAAGAAGAGGAAATGAAAAACTGCAATTGACATG 42037  
gi | 73957561 | ref | NW\_876316.1 | Cf AATAAATCCTACCC  
CCTGAGAT-----CGAG--TCCCATG 24076  
gi | 194719394 | ref | NC\_007316.3 | N CTTATAAACAGAAC  
CCTGCGCTGTGTGACCTTTTACACGTGGCTCTTATA 29530  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTTGGAGGGAGGT



CTTGGGCT-----TTGTGGGG 23303  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTCCAAGTTCCAT  
TCTAGAAGTCGGCAGTCCCTGCCACCTTTGCAGGAC 37780  
gi | 114795057 | ref | NC\_006483.2 | N GCTCCAAGTTCCAT  
TCTAGAAGTCGGCAGTCCCCGCTACCTTCGCAGGAC 42087  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TCAGGCTCCCT  
GCATGGAGCCTGCTTCTCCCTCTGCCTGTGTCTCTG 24123  
gi | 194719394 | ref | NC\_007316.3 | N ---TGTGACCTTTT  
GGTTAATGACTTTCTTTCCGCTTCCTTCAATCTGTC 29577  
gi | 149361523 | ref | NC\_000074.5 | \_ ----ATCAGTCCCT  
TCTCCTTGTCGGTAGACCCCACCCCATGTGTCTCAG 23349  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTTCAGAAAGGC  
TCAGTGAACAGGCAGAATTTTCCAGGTGCCTGAGGG 37830  
gi | 114795057 | ref | NC\_006483.2 | N CAGTTCAGAAAGGC  
CCAGTGAACAGGCAGAATTTTCCAGGTGCCTGAGGG 42137  
gi | 73957561 | ref | NW\_876316.1 | Cf CACCTCTGTGTGTG  
-----TGTGTGTGTGTGTGTG-----TGTG-T 24160  
gi | 194719394 | ref | NC\_007316.3 | N AAGTGCTGTCTTTT  
GAAAAACAAAAGAGATTCCTTCCG-----TGCGGT 29622  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCAATTCCAGAG  
-----CTTGAAAGCATCCCCTG-----TGTGGT 23387  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATTTAGATGGCCT  
TAGATCCCCTTTTCCAGCCTTTTGCATGCTCTTGGC 37880  
gi | 114795057 | ref | NC\_006483.2 | N CATTTAGATGGCCT  
TAGATCCCCTTTTCCAGCCTTTTGCATGCTCTTGGC 42187  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGTCTCATG----  
--AATAAATAAATAAAATCTTTTTTTAAGATTTTTTTA 24204  
gi | 194719394 | ref | NC\_007316.3 | N GGAATTCAGGGTTG  
CTGTTCAAAGCCTGAGGCTAGATCCACATCTTCTG 29672  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGAT-----  
-----TCTCTCTGAAGGACCGGTT 23411  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCATCCCTGACAT  
CCCCTTCTTCATTCTCTGGCCCCCTGGGCTGCCCCAG 37930  
gi | 114795057 | ref | NC\_006483.2 | N CCCATCCCTGACAT  
CCCCTTTCATCATTCTCTGGCCCCCTGGGCTGTCCCAG 42237  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAATTCCTACCCT  
CACTTTGCACATTTCAAGTTTCAGATATGATCACAG 24254  
gi | 194719394 | ref | NC\_007316.3 | N ATGTGAAATCATGT  
TTATTAGCAGCTTTGTTGTTATTTGTTTCAGTCACTA 29722  
gi | 149361523 | ref | NC\_000074.5 | \_ TATCCCCATCCCTT  
CCCATTTCGTCCTCATCCCTCCTCCATGCAGCCAGG- 23460

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTCAACCGCCTT  
CCTATTGGCTCTGTGTTTACAGCTTCCTCCATTGGT 37980  
gi | 114795057 | ref | NC\_006483.2 | N GCTTCAGCTGCCTT  
CCTATTGGGTCTGTGTTTACAGCTTCCTCCATTGGT 42287  
gi | 73957561 | ref | NW\_876316.1 | Cf AAACAT-----  
-----TGTAGCTAAGAAGACAAAATG----- 24281  
gi | 194719394 | ref | NC\_007316.3 | N ATTTGTGCC---TG  
GCTCTTTGTGATCTGTGGACGGCAGC----- 29759  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGGGGAAGGAGAACTTCTGC----- 23481

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gi | 51473102 | ref | NT\_010498.15 | \_ CGATTCCGGAACCA  
ATCACAGTCCCCTGGGCAGCATCCTCTGTCTCCACT 38030  
gi | 114795057 | ref | NC\_006483.2 | N CGATTCCGGAACCA  
TTCACAGTCCCTCTGTGCAGCATCCTCTGTCTCCACT 42337  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCTTCAAGTTGCTCA 24296  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ACGCCAGGCTCCTCT 29774  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCCTTGAGGTCCC  
CTCCCTGATCAAGGCTCAGTTCTCAGTGTCTGGGA 38080

gi | 114795057 | ref | NC\_006483.2 | N CTCCTTGAGGTCCC  
GTCCCTGATCAAGGCTCAGTTCTCAGTGTTCTGGGA 42387  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCTT-----  
----- 24301  
gi | 194719394 | ref | NC\_007316.3 | N GTCCTT-----  
-----CACTGTCTCCTGGAATTTGCTC 29802  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATGTTATTCATCGA  
TGCGTTTTGGCAGCAAATAGGCTTCTGGGTATGTA 38130  
gi | 114795057 | ref | NC\_006483.2 | N ATGTTATTCATCGA  
TGCGTTTTGGCAGCAAATAGGCTTCTGGGTATGTA 42437  
gi | 73957561 | ref | NW\_876316.1 | Cf -GAGAATTCAAAT  
AGATGCTGTGGCTAACTCAGGGCTGCTGGTGAA--- 24347  
gi | 194719394 | ref | NC\_007316.3 | N AGATTCATGCCCAT  
TGAGTCAGTGATGCTACCTAACCATCTCATCCT--- 29849  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGGGCTG  
GGAGCCATCCCTGAAACCGCACAGCCAGTGT--- 23521

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGGTTCTGGCTA  
GCCCAGAAGCTTCCTAAAAGTGCAGGGCTGAGAAGA 38180  
gi | 114795057 | ref | NC\_006483.2 | N GGTGGTTCTGGCTA  
GCCCAGAAGCTTCCTAAAAGTGCAGGGCTGAGAAGA 42487  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTG  
ACCACAAAGTGTCTGTCCCTCATTTCAG--AGGAGA 24384  
gi | 194719394 | ref | NC\_007316.3 | N -----CTG  
TCAGCCCCTTCTCCTG-CCCTCAATCTTTTCCAACA 29887  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
--CTCCAGCCCACCAATACCAAATACTATCGCATCA 23555

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAGTGGAGGCTC  
CCGGAAGTTGGGGTTCAGGGAAGGAGGCCGAGACAT 38230  
gi | 114795057 | ref | NC\_006483.2 | N GGCAGTGGAGGCTC  
CCGGAAGTTGGGGTTCAGGGAAGGAGGCCGAGACAT 42537  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAAGCACAGCAAG

TCTGGGATGGG-----GAGTAAGGGG--CACTAAAT 24427  
gi | 194719394 | ref | NC\_007316.3 | N TCAGGGTCTTTTCC  
AATGAGCTGGCTCTTCGTGTCAGGTGGCCAGTTACT 29937  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCTG----GTTCC  
ACTGG-----CAGGGGCCACTTATT 23585

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCTGTGAGGGAG  
GAGCTCCCCTCTGCGGCTGGAGATCTCTTTGCTCTG 38280  
gi | 114795057 | ref | NC\_006483.2 | N GGGCTGTGAGGGAG  
GAGCTCCCCTCTGCGGCTGGAGATCTCTTTGCTCTG 42587  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCTGCATGCACAACACTGTTG----- 24449  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AAATGCTGGTGAGATACAAATG----- 29959  
gi | 149361523 | ref | NC\_000074.5 | \_ GGG-----  
-----CACTGGGCTGGCTACTCTCATG----- 23610

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGGCACCCCTT  
CCACTAGGACCCGCTCCCCACTTCCCCTGGTTATC 38330  
gi | 114795057 | ref | NC\_006483.2 | N CCCTGGCACCCCTT  
CCACTAGGACCCACTCCCCACTTCCCCTAGTTATC 42637  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCCTTCCTCGTTC  
CCCTCTGCTCTGTGCGAAACCCACCGTGAACATCTTC 38380  
gi | 114795057 | ref | NC\_006483.2 | N CTCCTTCCTCATTC  
CCCTCTGCCCTGTGCGAAACCCACCGTGAACCTCTTC 42687  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGC  
TTCTTT-TCATGAATCACACATCTGATCACATTTCT 24487  
gi | 194719394 | ref | NC\_007316.3 | N -----ATC  
GTATCTGTAGTGTATCATCCTGTG--TTACAAGCGT 29996

gi | 149361523 | ref | NC\_000074.5 | \_ -----CC  
ATGATTCCAAAGATCCAGAGGCAACTGGACATGGAG 23648

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTCTCACCAAGGA  
TCCTCCTCCAGCCTCCAGCCAGGGTGTTC CCCC AAAA 38430

gi | 114795057 | ref | NC\_006483.2 | N CTTCTCACCAAGGA  
TCCTCCTGCAGCCTCCAGCCAGGGTGTTC CCCC AAAA 42737

gi | 73957561 | ref | NW\_876316.1 | Cf CTTTTTGCCTTGGC  
TGCTAGGAAGCTCAAAGCCAAATG----- 24525

gi | 194719394 | ref | NC\_007316.3 | N ATCTATGCCAAAA  
CTCTAAGAAGATAATCCCCAAATGTGAACCTGTGGA 30046

gi | 149361523 | ref | NC\_000074.5 | \_ ACTCTTAATTCCAA  
CACTCAGAAGGACTGCTGTGAGTT----- 23686

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAAATCTCTTAAA  
TTTCTTGAGAGCAGAGGACCTGCTCATTCATCTTAT 38480

gi | 114795057 | ref | NC\_006483.2 | N TGAAATCTCTTAAA  
TTTCTTGAGAGCAGAGGACCTGCTCATTCATCTTAT 42787

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CACAGCTGCATTTTAAACCACT--- 24547

gi | 194719394 | ref | NC\_007316.3 | N GGCAGAATTGAGAG  
TGCTTTTCCGGCTCCTCTGTTTTTCTAAATCTCTGCA 30096

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGCATCAGCCTGTGCAAGAGAG 23709

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTTGTCGGTTCA  
GCAATGCATCTGTGGGAATCCTTGTAGGACTGGACG 38530

gi | 114795057 | ref | NC\_006483.2 | N AGCTTGTCGGTTCA  
GCAATGCATCTGTGGGAATCCTTGTAGGACTGGACG 42837

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----GAAACAG--GACTTGCATATTGATATGTTAA 24576

gi | 194719394 | ref | NC\_007316.3 | N CAGTGCTCTAGTTT  
GCAAGGAAAAAG--GAAATACATTTTGGAAAGACAGA 30144

gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
----AGATGCTG-ACCCAGAGATCTTAAAATAGCCA 23742

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gi | 51473102 | ref | NT_010498.15 | _          GGAGCTCCTGACGG
CTGGGTTTTTCCTGCCCTTGCGTATACGGGTTCTGTC 38580
gi | 114795057 | ref | NC_006483.2 | N          GGAGCTCCTGACGG
CTGGGTTTTTCCTGCCCTTGCGTATATGGGTTCTGTC 42887
gi | 73957561 | ref | NW_876316.1 | Cf          GTCTTACCTTG---
-----ATCCTGATCTTTG----- 24600
gi | 194719394 | ref | NC_007316.3 | N          GGCCTCCCCTGGGT
CA---CTTACCTGCTCATTGGCAATGGGTGTTAACG 30191
gi | 149361523 | ref | NC_000074.5 | _          GGCACGGCATGG--
-----ATGCCTGTGG----- 23764

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gi | 51473102 | ref | NT_010498.15 | _          TGCTCTCCCTTATT
AATTCCTTACATGTGTTGAGTTCCTCCTGCATGCCA 38630
gi | 114795057 | ref | NC_006483.2 | N          TGCTCTCCCTTATT
AATTCCTTACATGTGTTGAGTTCCTGCTGCATGCCA 42937
gi | 73957561 | ref | NW_876316.1 | Cf          -----G
TCTCCCGTCTCTCTTCTGTTTTTG----- 24625
gi | 194719394 | ref | NC_007316.3 | N          TGCGCTCCGT--TT
GCCCCCTAGGCTGTGCTGATCGTGGTCACCGTCGCC 30239
gi | 149361523 | ref | NC_000074.5 | _          -----
---CCCCAGGCACT--TGAACATG----- 23783

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gi | 51473102 | ref | NT_010498.15 | _          AGTGTTGTGATTCT
CCTATCTTTCCCCCAGTGACAGG-GAACTCATCACC 38679
gi | 114795057 | ref | NC_006483.2 | N          AGTGTTGTGATTCT
CCTGTCTTTCCCCCAGTGACAGG-GAACTCATCACC 42986
gi | 73957561 | ref | NW_876316.1 | Cf          ----TGTGTTTGTG
TTTATGTTTCCT----- 24647
gi | 194719394 | ref | NC_007316.3 | N          TTCATCCAGGTGTG
TATATGTGCCCTGAGTTCCTCGGGCGGGGTCACCCGG 30289
gi | 149361523 | ref | NC_000074.5 | _          -----AAAAGG
ACCAAGAATCCA----- 23801

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gi | 51473102 | ref | NT_010498.15 | _          TCACAAGGCAGCCC

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TGTTTCCTCTGTCTCAGGAGTCTCACCATTAGGAATT 38729  
gi | 114795057 | ref | NC\_006483.2 | N TCACAAGGCAGCCC  
TGTTTCCTCTGTCTCAGGAGTCTCACCATTAGGAATT 43036  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----T 24648  
gi | 194719394 | ref | NC\_007316.3 | N GCTGATGAGAGCTC  
TGTGGGGAGCCCCC---ACACCCCTGACCCCACT 30335  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTACCTTAGCACGG  
CGTAAGGCTCTGGACGGGATGGCAGGGAGGCACTAG 38779  
gi | 114795057 | ref | NC\_006483.2 | N CTACCTTAGCACGA  
CCTAAGGCTCTGGACGGGATGGCAGGGAGGCACTAG 43086  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAATCATCTGTAA  
CATGAACTACT-----ATGTAATAG----- 24682  
gi | 194719394 | ref | NC\_007316.3 | N TAAACACACTATTT  
CATGTGCTTCCGGCCAGGAGTACAG----- 30374  
gi | 149361523 | ref | NC\_000074.5 | \_ --AACTCATTCTTG  
ACTGTGTGGCAAGTCGAGGGGAGAG----- 23838

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTGGTGCTCTGAG  
GAGGTGGCATCTGGGCAGAGATCTGAGTGAAATGAG 38829  
gi | 114795057 | ref | NC\_006483.2 | N GCTGGTGCTCTGAG  
GAGGTGGCATCTGGGCAGAGATCTGAGTGAAATGAG 43136  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATCTGTG  
-----AAATG-AGGGAATAGATAACA 24708  
gi | 194719394 | ref | NC\_007316.3 | N -----ATCAGAG  
-----AAATCTCTGGAAGAGCTGAC 30401  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TGAGCTAAGGAGACTCTATC 23858

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGGAAAGCCATGT  
GAGGATGTGGATGGAGGGCGTCGCTGGAGGGCAGGG 38879  
gi | 114795057 | ref | NC\_006483.2 | N ACGGAAAGCCATGT  
GAGGATGTGGATGGAGGGCCTCGCTGGAGGGCAGGG 43186

gi | 73957561 | ref | NW\_876316.1 | Cf TAAAGCAATCAAGT  
AAAAATCCTTTTG--GGAAGTT-----TCTATGGGG 24751  
gi | 194719394 | ref | NC\_007316.3 | N AAAGCTGGTTCCCC  
CCGAATGCAACTG--GTAAGTCGGAGACCTCCGGCC 30449  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAAAAATGAAAGT  
GAAAGAGAAAATGGGGAGGGGGAGGGAAGGGGAGAG 23908  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCAGAGTCCCTGA  
GGGGACAGGAGCCTGGCAGCCTGGGAATCAAGGTGC 38929  
gi | 114795057 | ref | NC\_006483.2 | N TGCAGAGTCCCTGG  
GGGGACAGGAGCCTGGCAGCCTGGGAATCAAGGTGC 43236  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCGTTTTTCTCAG-  
-----GAAGGACAT-----CATAGGAG----- 24781  
gi | 194719394 | ref | NC\_007316.3 | N CACCTAACCCCAGG  
ACTTTGTGGTTCAT-----CAGAGGAGTCAG--TGG 30492  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGAAAGAGACAG-  
----- 23921  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGACCAGGTGCA  
TTATTATTATTGTTATATTCTGGGATAGGGTTTCTC 38979  
gi | 114795057 | ref | NC\_006483.2 | N CCAGACCTGGTGCA  
TTATTATTATTATTATATTCTGGGATAGAGTTTCTC 43286  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GCTGGCAAGTTTGG  
CAAACTTTAGCCAGATTTATGTCCTCTGTTGTGTG 30542  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTGTCCAAGCAG  
GAGTGCAGCGGCATAAACACGGCTGACTGCAGCCTC 39029  
gi | 114795057 | ref | NC\_006483.2 | N TGGTGTCCAAGCAG  
GAGTGCAGTGGCATAAACACGGCTGACTGCAGCCTC 43336  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CCCTCCAAGG-----CAGTTAC 24798  
gi | 194719394 | ref | NC\_007316.3 | N ATATGGGAGAAGTG



TGGCTCACCAGGGTTAGCAAACCTGACCTCTGCCCC 30592  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACTTCCCAGGCC  
CAGTGATCCTCCTGCCTTAGCCTTCTGAGTAGTTGG 39079  
gi | 114795057 | ref | NC\_006483.2 | N AACTTCCCTGGCCC  
AAGTGATCCTCCTGCCTTAGCCTTCTGAGTAGCTGG 43386  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGAG--CAGGTTG  
GTGT-----AATCGGGGCACATGG 24829  
gi | 194719394 | ref | NC\_007316.3 | N GCCAG--CGGATTG  
CTGTGCATTCTTAGGCATGCCATTCGGTCTCTCTGG 30640  
gi | 149361523 | ref | NC\_000074.5 | \_ -ACAGACAACATTC  
CTGTG-----CACTAGGAAGTAGAGG 23955

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gi | 51473102 | ref | NT\_010498.15 | \_ GACCACAGGTGCAC  
CTCACCATGCCCAGCTCATT TTTTTCATT TTTT TTTGTA 39129  
gi | 114795057 | ref | NC\_006483.2 | N GACCACAGGTGCAC  
CTCACCATGCCCAGCTAATT TTTTTCATT TTTT TTTGTA 43436  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GCCTCCA-----  
-----CTCTG 30652  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGATGGGATTTTG  
CTGTGTTTCCCAGGCTGGACTGAAACTCCTGGGCTC 39179  
gi | 114795057 | ref | NC\_006483.2 | N AAGATGGGATTTTG  
CTGTGTTTCCCAGGCTGGACTGAAACTCCTGGGCTC 43486  
gi | 73957561 | ref | NW\_876316.1 | Cf -TATTGGGGAGCTG  
GCCAGTGGCCATGCTGGAG-----CAGAGCTG 24870  
gi | 194719394 | ref | NC\_007316.3 | N TCACTGGGGTCTAA  
TCCGAGTGCCCAGCCTGGGGG-----CCATGGATG 30696  
gi | 149361523 | ref | NC\_000074.5 | \_ -CTGGGAGAAGTCG  
GAGGTGTTTCCAGATTGTGAG-----TCGGTG 23995

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCAGTCCTCCCA  
 TTTCTGCCTCCCAAAGGGCTGGGATTACAGTGTG-- 39227  
 gi | 114795057 | ref | NC\_006483.2 | N AAGCAGTCCTCCCA  
 TTTGTGCCTCCCAAAGGGCTGGGATTACAGTGTG-- 43534  
 gi | 73957561 | ref | NW\_876316.1 | Cf GCAG---CATGGAC  
 CTGGAGCCACCAGAGGGGCCAGG----- 24904  
 gi | 194719394 | ref | NC\_007316.3 | N ACAGGGCTTTGGGA  
 AGAGGGTGGCCACGAAACCTGTGATGAAGTGTGCA 30746  
 gi | 149361523 | ref | NC\_000074.5 | \_ GTGGAG-ACAGGCA  
 GGGGAAAAAACCAAGATTCCTGAGTTCCTTG----- 24038

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gi | 51473102 | ref | NT\_010498.15 | \_ --AGCCTCTGCACC  
 CAGCCCTTGTTG-ATATTGTA ACTCTCTTCCTTATC 39274  
 gi | 114795057 | ref | NC\_006483.2 | N --AGCCTCTGCGCC  
 CAGCCCTTGTTG-ATATTTTAACTCTCTTCCTTATC 43581  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----TC  
 CTGCCCTGGAG-----TGTCATGG----- 24925  
 gi | 194719394 | ref | NC\_007316.3 | N AAATTGTGTGCATT  
 TTCCTAGAAGGCATTTGACATTTTTCCTGAGGCTC 30796  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----TCCA  
 CACC ACTGGAG----- 24053

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGATCTTTGGTCT  
 GCCTTCTGAATCCGGTTTTATGTGTTTGCATTTCTT 39324  
 gi | 114795057 | ref | NC\_006483.2 | N CTGATCTTTGGTCT  
 GCCTTCTGAATCCGGTTTTATGTGTTTGCATTTCTT 43631  
 gi | 73957561 | ref | NW\_876316.1 | Cf ---AGACATGGCAG  
 GG-----TGAGACCAAGA ACTCCAG 24956  
 gi | 194719394 | ref | NC\_007316.3 | N AGAAGCTGAGGCGG  
 AGGGCTTTAATAATAAGCTGAGGCCTCAGA ACTCTG 30846  
 gi | 149361523 | ref | NC\_000074.5 | \_ ----CCTGTG----  
 -----CTGGGTCATGAAGACTC 24078

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCAATCCTCTGTA  
ACATGAGCTACCATGAGATGTCTCTGAAATGAAAGG 39374  
gi | 114795057 | ref | NC\_006483.2 | N TTCAATCCTCTGTA  
ACATGAGCTACCATGAGATGTCTCTGAAATGAAAGG 43681  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCGGGGCTG----  
----GGGCTGCTAT-----CTGGACAG--GC 24986  
gi | 194719394 | ref | NC\_007316.3 | N ATCGAAGCGGG---  
---TGGACAGCTCAGTGATGAACCCTGGCCATTTGC 30890  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTGTGTGTG----  
-----ACATCCAG-----GGTAGGTGAG 24106

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGATATATAAAA  
TAAAGTAAAAATCTTCTCAGGAAGTTTTGGGAACGG 39424  
gi | 114795057 | ref | NC\_006483.2 | N GCAGATATATAAAA  
TAAAGTAAAAATCTTCTCAGGAAGTTTTGGGAACGG 43731  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTGTTGGATGACA  
----- 25000  
gi | 194719394 | ref | NC\_007316.3 | N TCAGCTGCCCGCCA  
GCCT----CTTTCCTACCCGAACATTCCTGCTTTGC 30936  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCTGTGATCGCAG  
----- 24120

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTTTTAGAGAGG  
GACATCATTGGAGTCCCTAGAGGCTGTTACAGGAGC 39474  
gi | 114795057 | ref | NC\_006483.2 | N CTGTTTTAGAGAGG  
GACATCATTGGAGTCCCTAGAGGCTGTTACAGGAGC 43781  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CACATCCCACCCCAAGAAACTGCAGGGG-- 25031  
gi | 194719394 | ref | NC\_007316.3 | N CTTTTGTT-----  
-ATCACATCACCTCCCAAAGATGTTTAAAAAGGA 30979  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---GACTGTCACCTCCCAGCTGTCAAGTACAGATG- 24152

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCTGTTACTGAG  
TTTGGTGACTGGGATGTGCAGGATTTGGGGAGCTGG 39524  
gi | 114795057 | ref | NC\_006483.2 | N AGGTTGGTACTGAG

TTTGGTGACTGGGATGTGCAGGATTTGGGGAGCTAG 43831  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N AAGACAAGAATGTC  
TCCCCTTACCTCCTGGGCCTGTCTGCTTAGCTCAGT 31029  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGGTGAGAGAGG  
ATCCTTGGCCGTCCTGAGCCAGGACTGGCATCTTGC 39574  
gi | 114795057 | ref | NC\_006483.2 | N TGTGGTGAGAGAGG  
ATCCTTGGCCGTCCTGAGCCAGGACTGGCATCTTGC 43881  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGGG  
ATTTTCAG----- 25042  
gi | 194719394 | ref | NC\_007316.3 | N GCTGTGCAAAGGGA  
CTTTCTGGAAGATTC-----CATCATAC 31066  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AG  
CTGGTAG----- 24161

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gi | 51473102 | ref | NT\_010498.15 | \_ CGAAAGTCCCGGCC  
TGGAGCGTCATGGAGATGTGGAGAGGCGAGACCAAG 39624  
gi | 114795057 | ref | NC\_006483.2 | N CGAAAGTCCTGGCC  
TGGAGCGTCATGGAGATGTGGAGAGGCGAGACCAAG 43931  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GGGGA  
AGAG-----AACCATTG-GCTGGGGTGGTCTTC 25074  
gi | 194719394 | ref | NC\_007316.3 | N GCGCTGCCCGGGAC  
AGCGTCACTAATCACATATG-GCTGTTGAGGACTTC 31115  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GATC  
AAAGTGTCTTTGTGCCTCTGGTGTGGAAGAGGTGTT 24201

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTCAAAGGCAGG  
GCTGAGGCCGGTGTCTTCAGGGGGTCAGTACTGGGA 39674  
gi | 114795057 | ref | NC\_006483.2 | N AACTCAAAGGCAGG  
GCCGAGGCCGGTGTCTTCAGGGGGTCAGTACTGGGA 43981  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCCTAG-----  
-----TCCTGGGGTCACGTGGTTGG----- 25102

gi | 194719394 | ref | NC\_007316.3 | N ACCCAAGG-----  
-----GACTGAATTCTTCATTTTATTTAAGTTGAAC 31154  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCTAGGG-----  
---CCAACCTCGGGGCTGCTGCTTGAG----- 24232

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGGAGGGTCAA  
TTGGGTGGAGTTCCAGGCAGAGGAGGACCACTGCAT 39724  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGGAGGGTCAA  
TGGGGTGAAGTTCCAGGCAGAGGAGGACCACTGCGT 44031  
gi | 73957561 | ref | NW\_876316.1 | Cf --TGCCAGCCTGGA  
AGCCTGG-----CCCTGAG--GGAAGAGCTGTGTG- 25142  
gi | 194719394 | ref | NC\_007316.3 | N TCAAGCAGCCTCAC  
AGGCTAGTGGCTCACAGAT--GGCTCAGCTTAGAGG 31202  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTGCCTCAA  
CCCAGCAGGTCCTCCCACAGAGGCTAAACATGACAG 24277

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGGTGGTCTCCC  
CAGCCCTCGG-TCACCATGGTGTGTTGACCTGGAAGCC 39773  
gi | 114795057 | ref | NC\_006483.2 | N GGGGGTGGTCTCCC  
CAGCCCTCGG-TCACCATGGTGTGTTGACCTGGAAGCC 44080  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATGGGGACCAACTAGAAG-- 25160  
gi | 194719394 | ref | NC\_007316.3 | N GTTTGCAGGGGCCG  
CTGCCCTTGGTAAAGGAAATGGCAGAAGCAGAAG-- 31250  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTCCAGGGGTGATGGCGGGGCTC 24300

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCCCTGAACTGA  
GACCCCTGTCACACAACTTCTGCACAGTAAGAAAC 39823  
gi | 114795057 | ref | NC\_006483.2 | N TGGCCCTGAACTGA  
GACCCCTGTCACACAAGCTTCTGCACAGTAAGAAAC 44130  
gi | 73957561 | ref | NW\_876316.1 | Cf AGACCCACCCACAA  
CCCCGCTG----- 25182  
gi | 194719394 | ref | NC\_007316.3 | N TGAGAATGTTGCAG  
GCCCGCTGTTGTGTGTGTTTCAATTTAATTTTTTTAG 31300  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCCCTTCACGTG

TCACACCAAAA----- 24325  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCATTCTGGTCCCT  
GAGACTAAAGAACGTGCCCCACCCTGTTATTTTCCTC 39873  
gi | 114795057 | ref | NC\_006483.2 | N CCATTCTGGTCCCT  
GAGACTAACGAATGTGCCCCACCCTGTTATTTTCCTC 44180  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCTGTGTTCCTC 25196  
gi | 194719394 | ref | NC\_007316.3 | N TATATCAG-----  
-----CAATCCCCAACCAGTTATTCTCCT 31332  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CACACTGCCATGCTTCT 24342

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCAGTTTAAGAAC  
CCCCTG-----ATCCTG-----CTGC 39903  
gi | 114795057 | ref | NC\_006483.2 | N TTCAGTTTAAGAAC  
CCCCTG-----ATCCTG-----CTGC 44210  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCAGTTTAAGAAC  
CCCCTG-----ATCCTG-----CTGC 25226  
gi | 194719394 | ref | NC\_007316.3 | N TGTAACATGAAAC  
CACTTTGGAAAAGGCCAGGTCTTCTCCCTCACCT 31382  
gi | 149361523 | ref | NC\_000074.5 | \_ CACAGGCTGTGGGA  
CCCATG-----CACT 24366

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTGGGCTCTGCC  
CTGGTGAGTGTCCTCACCAAGGAGTATGAGGACGCC 39953  
gi | 114795057 | ref | NC\_006483.2 | N TGCTGGGCTCTGCC  
CTGGTGAGTGTCCTCACCAAGGAGTATGAGGACGCC 44260  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTGGCATCCGCC  
TTGGTGAGCGTCCTCACGAAGCAGTACGAGGACGCA 25276  
gi | 194719394 | ref | NC\_007316.3 | N TCCTGGCATCAGCT  
GAGGTTGTCTTAAGTCCTATGTCTTTCCCAAATACA 31432  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGCTATATCTCCT  
TTTGTGCTTTGGCCACTAGGAAGCTCAGAGGCAGCT 24416

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCAGCATCGCCAC  
GGTGAGTTCCTGACAGCGCTCGGCTCCCGGGCGGG 40003  
gi | 114795057 | ref | NC\_006483.2 | N GTCAGCATCGCCAC  
GGTGAGTTCCTGACAGCGCTCGGCTCCCGGGCGGG 44310  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCAGCATCGCCAT  
GGTGAG-TGTGTGTG-----TGTGGGGGGGGGCG 25318  
gi | 194719394 | ref | NC\_007316.3 | N CACTGCCACTCATA  
AGAAAG-TCACTGCAGATATCTTGTGATCCAAGGTA 31481  
gi | 149361523 | ref | NC\_000074.5 | \_ ATATATTTAAGCTC  
TCCCTGGTCTCCTTGG---CTCTGCCCTCTGATCGG 24463  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCCACAGGTCTG  
CTGAGTCTCTGCTTGTTATTGTATATAAAGAAAAA 40053  
gi | 114795057 | ref | NC\_006483.2 | N CAGCCACAGGTCTG  
CTGAGTCTCTGCTTGTTATTGTATATAAAGAAAAA 44360  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAAGCGGGCTCC  
CAGCC-----CCACTG-----CCAAGGGGCTTG 25355  
gi | 194719394 | ref | NC\_007316.3 | N CTTTGAAGGATCT  
CAACAGATAGTAACTCTCTTTTATCCCAAGAATAAG 31531  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGTGTGTTGTATCT  
CCTTT-----CCATCCTCTGCAACACAAGCCGTCA 24507  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGAGTTTGCTGTA  
GGGGGGAAAAAGGAGCATAACAGAAGAAAGAAAGGAA 40103  
gi | 114795057 | ref | NC\_006483.2 | N AAGAGTTTGCTGTA  
GGGGGGAGAAAGGAACATAACAGAAGAAAGAAAGGAA 44410  
gi | 73957561 | ref | NW\_876316.1 | Cf CGG-----AGT  
CTTTGCCCTTTTCAGCATGCAAGG---AAAACGAG 25393  
gi | 194719394 | ref | NC\_007316.3 | N CTGGGAGAAAGAAC  
CTTAACATATATTTGCATAACAGATGGCATAATTGAG 31581  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCGGTG----AAG  
GTTTACGACAGACAAAGCACTAATGGAAAGTTCTTTGG 24553  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAAATCCACATC  
CTTCTTTACCCTAATATCAAGGTGCCCTGGTTTATT 40153

gi | 114795057 | ref | NC\_006483.2 | N AGCAAATCCACATC  
CTTCTTTACGCTAATATCAAGGTGCCCTGGTTTATT 44460  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTGGCCTTGGGGG  
GTGGGGGGGGGTGGG--GGAGTACAGCAGAAAGAAA 25441  
gi | 194719394 | ref | NC\_007316.3 | N CATAGAGCTGGAGG  
ATAGAAAGATCTAGTGCGAGGTCCCTCCTCTCAAGG 31631  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAGATCTTTGGGA  
CTTCAATGCCTAAGTGACATGGGGTGACACATGTGG 24603

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGCCACTGCTTGC  
TTGCTGGACACACAGGTGCTTCTGGGTCTTTGCTAG 40203  
gi | 114795057 | ref | NC\_006483.2 | N CGGCCACTGCTTGC  
TTGCTGGACACACAGGTGCTTCTGGGTCTTTGCTAG 44510  
gi | 73957561 | ref | NW\_876316.1 | Cf GG---AAAGCAAAT  
CCTCATCCTTCTCTGCCGCCCATGGAGGTGTGCTGG 25488  
gi | 194719394 | ref | NC\_007316.3 | N AG---TCAGCAAGT  
GAAAAGTGTGTATGTGTGTGTGTGTGTGAGAG 31678  
gi | 149361523 | ref | NC\_000074.5 | \_ GG-----GCTAAG  
AGGAACATCTCTAGAGTCCCCAGATGTTATCACAGG 24647

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAGTGTTGCAGG  
GAATTCCT--TTCCCGTGACCCTGGGATGAGGGGAA 40251  
gi | 114795057 | ref | NC\_006483.2 | N AGCAGTGTTGCAGG  
GAATTCCT--TTCCCGTGACCCTGGGATGAGGGGAA 44558  
gi | 73957561 | ref | NW\_876316.1 | Cf T-----TCATTTTG  
CCATCACT--GTTGGTGGATACCTG--GGTGGCTTC 25529  
gi | 194719394 | ref | NC\_007316.3 | N AGAGAGATAACAAGG  
CAGAGAAT--AATGAGTAACAAGT--AGAGACCAA 31724  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCAAGGTAGTTGC  
GGTACACAGCGTTGGGGGTCTATTGTAGCAGGAGAA 24697

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGAGCCTGGGCTG  
TGCACATTTGCCTTCCGAAGAACAACACCTTTGATC 40301  
gi | 114795057 | ref | NC\_006483.2 | N TAGAGCCTGGGCTG  
TGCACATTTGCCTTCCGAAGAACAACATCTTTGATC 44608  
gi | 73957561 | ref | NW\_876316.1 | Cf TAGTTAGTTCTTTG



CTATTACAG-----TGAATTCCTTCTCTATGACCC 25573  
gi | 194719394 | ref | NC\_007316.3 | N AAGAGCATGCTGTG  
AAAGCATGAGAGGCATGAGTCAATTCTAGAAGATTC 31774  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGTGCTTGCAGAT  
GGTAGCCAGG-----ATGGGTATTCACCATGGATC 24741  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATTACCGAGAGGT  
AACCACTGAG-CACTCATTTTTTTTTTTT-ATTTAGAT 40349  
gi | 114795057 | ref | NC\_006483.2 | N CATTACCGAGAGGT  
AACCACTGAG-CACTCAATTTTTTTTTTTTATTTAGAT 44657  
gi | 73957561 | ref | NW\_876316.1 | Cf CT----GGGCTTGT  
ATTTGCTGCATCCCCTCTGTGCATGAGGAACAAGGA 25619  
gi | 194719394 | ref | NC\_007316.3 | N TTTTGGGGGGCAGT  
AAAAATGTCTGGGCTTAATAATGGGATGAACAAGGT 31824  
gi | 149361523 | ref | NC\_000074.5 | \_ CC----ACAGAAGT  
CCTTGATGGATGACGTGTGGCCAGGCGAGATAAAGA 24787  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAATTCACATAAT  
AAAATATTGACTATTTTCACAGTGAACAATTCAGTGA 40399  
gi | 114795057 | ref | NC\_006483.2 | N GAAATTCACATAAT  
AAAATATTGACTGTTTCACAGTGAACAATTCAGTGA 44707  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTAACCATTTGTA  
AGCCT-TTGTAAG-----CCATTACCCAGAGGAAAC 25663  
gi | 194719394 | ref | NC\_007316.3 | N GTCAGAAATCCAGA  
CGTGTGATGTATG-----ACGTAATCCTATAAGCAG 31869  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTCAAAGTCAGGG  
CCAGGTCTGGGTG-----AGGATAATGTCAG 24827  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATTGAGTACATTC  
ATGATATGGTGCCACCACCACCTCTGCCTAGTTCCA 40449  
gi | 114795057 | ref | NC\_006483.2 | N AATTGAGTACATTC  
ATGATATGGTGCCACCACCACCTCTGCCTAGTTCCA 44757  
gi | 73957561 | ref | NW\_876316.1 | Cf CATTGAGCACCTTT  
TTAAAAAGAGGTTTTTTT----TTATTTTAAAGTGAAA 25709  
gi | 194719394 | ref | NC\_007316.3 | N ACAGAAGCATCCAT  
GATTTATGGGGTTTTGATGAGCTGATCTTAAGTTTAA 31919

gi | 149361523 | ref | NC\_000074.5 | \_ GATTAGCCCACAAG  
TCTGTCAATGGTGGACTTAGCTACAGAGGGGGAATA 24877

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gi | 51473102 | ref | NT\_010498.15 | \_ AACATTTTTCATCA  
CCCAG-AAGGAAACCCTGTGCTCACCAGACAGTCAC 40498

gi | 114795057 | ref | NC\_006483.2 | N AACATTTTTCATCA  
CCCAGAAGGAAACCCTGTGCTCACCAGACAGTCAC 44807

gi | 73957561 | ref | NW\_876316.1 | Cf GTCACATGATTTAA  
AAATTTGGCCATTTAAAAG-----TGTACA 25748

gi | 194719394 | ref | NC\_007316.3 | N ATATCAAGTCTTGG  
CCTTTCAGGCGAATAGTATGCATTATT-GATGTCCC 31968

gi | 149361523 | ref | NC\_000074.5 | \_ ATGGATTGAGCAGT  
CCCCTGTGTCCGGAGGACTGGAAGCCTGGTCTCACG 24927

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTGTCCCCGCT  
-----CCTACCAGCCCTTGGCAACCACCAATCTTTT 40543

gi | 114795057 | ref | NC\_006483.2 | N TTCCTGTCCCCCT  
-----CCTACCAGCCCTTGGCAACCACCAATCTGTT 44852

gi | 73957561 | ref | NW\_876316.1 | Cf TTCCGGTGGCCTTT  
----GGCACATTCATAATGTTGTGCAACC----- 25787

gi | 194719394 | ref | NC\_007316.3 | N TGGGAGTTGCTTCT  
GAAAGACAATTTTATTTTCAAGAGCCGCAGAGGCAG 32018

gi | 149361523 | ref | NC\_000074.5 | \_ TGAAGGTCTGAGCT  
G----CCCAGGAGCTGCAGAGTGAACCT----- 24966

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTATCTCTGTGGG  
TTGAATGACCTATTCTGGATATGTCACTGAAATGGA 40593

gi | 114795057 | ref | NC\_006483.2 | N TCCATCTCTGTGGG  
TTGAATGACCTATTGTGGATATGTCACTGAAATGGA 44902

gi | 73957561 | ref | NW\_876316.1 | Cf ACCACCT-----C  
TAGCTAGTACCAAATACTTCCTTGCCCTTAAGAGGA 25831

gi | 194719394 | ref | NC\_007316.3 | N GCAACCTGGGAGAG  
TTGAAAGAGCAGTGAAGGGACACAGCCTGCCTCCCC 32068

gi | 149361523 | ref | NC\_000074.5 | \_ --CTCCTAGCTTTT  
GTGACACTGAGATTCTGTTGTTACCTTTCAGTTCA 25014

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCAGACGGATGAG  
TTCATGTCCTTTGCAGGGACATGGATGAAGCTGGAA 40643  
gi | 114795057 | ref | NC\_006483.2 | N TTCAGACGGATGAG  
TTCATGTCCTTTGCAGGGACGTGGATGAAGCTGGAA 44952  
gi | 73957561 | ref | NW\_876316.1 | Cf GACCCCTCCCT---  
--ACCCCCCACTA-----CCTTCGG--A 25863  
gi | 194719394 | ref | NC\_007316.3 | N GAGCCCCCGAG---  
--CCCATGTCAGGAGAGGCATCTGCCCTGCAG--A 32111  
gi | 149361523 | ref | NC\_000074.5 | \_ GGAACCCCTA---  
-----ATTCTGCTG-----CTGCTGGGC 25043

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCATCATTCTAAG  
CAAAC TATCACAAGGACAGAAA ACTAAACACTGCAT 40693  
gi | 114795057 | ref | NC\_006483.2 | N GCCATCATTCTAAG  
CAAAC TATCACAAGGACAGAAA ACTAAACACCGCAT 45002  
gi | 73957561 | ref | NW\_876316.1 | Cf CCGGTTCTTCTTTA  
CCGCCTCTTACG-----ACTAAATTCCTGATCT 25906  
gi | 194719394 | ref | NC\_007316.3 | N CCCTTCCTGCTTAC  
CTCCATCTTTTGTG----CATTCATTAAATATTTA 32156  
gi | 149361523 | ref | NC\_000074.5 | \_ TCATCCGTGGTGAG  
CGTCCTCACC AAG-----AATATGAGGATGCTG 25086

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gi | 51473102 | ref | NT\_010498.15 | \_ GATCTCACTCATAG  
GTGGGAGTTGAACAATGAGAACACATGGACACAGGG 40743  
gi | 114795057 | ref | NC\_006483.2 | N GATCTCACTCATAG  
GTGGGAGTTGAACAATGAGAACACATGGACACAGGG 45052  
gi | 73957561 | ref | NW\_876316.1 | Cf AAC AAGGTAAACTG  
-----AATACATAGACCTTCCAGTGATTCAATG 25948  
gi | 194719394 | ref | NC\_007316.3 | N TAAAGCACCCACTG  
-----TGTGCATGGCGATGTCCAGGTGAGAGA 32198  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAGCATCGCCCTG  
G-----TGAGTGACTGGCGCCTCCACTCCTGGA 25129

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGGAACATCACA

CACTCGGGCCTTTCATAGGGTCAGGGGGCTGGGGGA 40793  
gi | 114795057 | ref | NC\_006483.2 | N CGGGGAACATCACA  
CACCGGGCCTTTCATAGGGTCAGGGGGGGTGGGGGA 45102  
gi | 73957561 | ref | NW\_876316.1 | Cf AATGAATAACACG-  
-----AATCCTGATACG----- 25973  
gi | 194719394 | ref | NC\_007316.3 | N TAGGAAAGCCCTGG  
CCTTTGGACCTCTCACAC----- 32230  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGGATGCTCAGG  
ACTGGCCATGTCTGTTG----- 25160

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGATAGCATTAGG  
AGAAATACCTAATGTAAATGACGAGTTGATGGGTGC 40843  
gi | 114795057 | ref | NC\_006483.2 | N GGGATAGCATTAGG  
AGAAATACCTAATGTAAATGACGAGTTGATGGGTGC 45152  
gi | 73957561 | ref | NW\_876316.1 | Cf ----TACTCACATG  
AGAG-----GACTCTTTGGCTCC 26001  
gi | 194719394 | ref | NC\_007316.3 | N ----TCCTAACAGG  
CGAGGCAGATAATGAAGTGAAGGAATGAAATGATTT 32276  
gi | 149361523 | ref | NC\_000074.5 | \_ ---CAGCTGTCTTT  
CAAACACTTGATCATGATCATGGTTTGCATATGTA 25207

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAAACCAGCGTG  
GCATATGTATACCTATGTAACAAACCTGCACGTTGT 40893  
gi | 114795057 | ref | NC\_006483.2 | N AGCAAACCAGCGTG  
GCATATGTATACCTATGTAACAAACCTGCACGTTGT 45202  
gi | 73957561 | ref | NW\_876316.1 | Cf TG-----  
----ATTATGCGTCTCTGAATGTACGCGTGAGCCTC 26035  
gi | 194719394 | ref | NC\_007316.3 | N TGGAATGAGGCAGG  
TGCATTAAAGCCAAAAAGACTGAAAGCCAAAGCCAC 32326  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
--TATGCATGCATGTGGGAGCACACGTGTGCACCTG 25243

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gi | 51473102 | ref | NT\_010498.15 | \_ GCACATGTACCCTA  
GAACTTAAAG-TATAACAAG-AAAAAAAAAATGGATT 40941  
gi | 114795057 | ref | NC\_006483.2 | N GCACATGTACCCTA  
GAACTTAAAG-TATAACAAGAAAAAAAAAATGGATT 45251

gi|73957561|ref|NW\_876316.1|Cf ATCCTTTT-----  
--ACATAATGGTATGACGCAAACATATGATG--ATG 26075  
gi|194719394|ref|NC\_007316.3|N ACAAAAATGAAAGA  
GAACCTCATGGAGATGCAGTGACTGGTGGAGGTGTG 32376  
gi|149361523|ref|NC\_000074.5|\_ -----  
-----TACAGAGGCTACAGGACAACCTCATTTCAG 25274

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gi|51473102|ref|NT\_010498.15|\_ CAGACAATACATGA  
CCTTTTGTATCTGGCTTCTCCTGAGCACATTTTTTT 40991  
gi|114795057|ref|NC\_006483.2|N CAGACAATACATGA  
CCTTTTGTATCTGGCTTCTCCTGAGCACATTTTTTT 45301  
gi|73957561|ref|NW\_876316.1|Cf GAATAATAATAAGT  
NGACCTGATTTTGGTAATATTGGTTCTGATTTTGGC 26125  
gi|194719394|ref|NC\_007316.3|N GGAACAATCTTGAA  
TATCTGGCTGGCAGGTTACTCTGCTCTGACATTTAA 32426  
gi|149361523|ref|NC\_000074.5|\_ GCACCATTTTGGGT  
AGGCTGTTTGTCTTCTCCCCTCCCCGTGAGGTC 25324

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gi|51473102|ref|NT\_010498.15|\_ TT-----CTTTTTT  
TGAGACAGAGTCTTGCTGTGTCGTCAGGCTGGACA 41036  
gi|114795057|ref|NC\_006483.2|N TT-----CTTTTTT  
TGAGACAGAGTCTCGCTGTGTTGCCAGGCTGGACA 45346  
gi|73957561|ref|NW\_876316.1|Cf T-----TCCT  
CTGTACAGCGGATTCTGCTTATCATGGGCTTGACC 26166  
gi|194719394|ref|NC\_007316.3|N GGTGGAGCTGACCT  
TTAAGTTGAGGCCTGATAAATGGCAGGGGCCAGCCA 32476  
gi|149361523|ref|NC\_000074.5|\_ TG-----AGTGT  
TTGTGTTATATCATGCAGTTGGTACCT----- 25358

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gi|51473102|ref|NT\_010498.15|\_ GCAGTGCCGTGATC  
TCAGCTCAGTACAACCTCTGCTTCTCCTGCCTCAGC 41086  
gi|114795057|ref|NC\_006483.2|N GCAGTGCCATGATC  
TCAGCTCAGTACAACCTCTGCTTCTCCTGCCTCAGC 45396  
gi|73957561|ref|NW\_876316.1|Cf TG-----  
-----CGAATGGCGATTCCGATCCCCAG 26191  
gi|194719394|ref|NC\_007316.3|N TGGGA--AGAGTCG

AGAGAAGAGCAGACGTCTATCTGATAGGTGCTCTTG 32524  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTAGCTAATTTTCTCTCTGC 25379

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTCTGAGCAGCTG  
GGATTACAGGTGCCCGCCACCACTCCTGGTTAATTT 41136  
gi | 114795057 | ref | NC\_006483.2 | N CTCCTGAGCAGCTG  
GGATTACAGGTGCCCGCCACCACTCCTGGTTAATTT 45446  
gi | 73957561 | ref | NW\_876316.1 | Cf TATTTCCCCCTCTC  
CATCCCTCC-----CAACCCATCTCCCAGG-----TC 26232  
gi | 194719394 | ref | NC\_007316.3 | N GCTATAAACCCAG  
AAAATTCAG-----CTGCACAAACCACAAGGAAATG 32569  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCAACCAAATACT  
GAAAAGAAG-----CATCTCAGAAG----- 25413

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGCTAATTTTTAT  
ATTTTTAGTAGAGATGAGGTTTCCCTGTGTTGGCCA 41186  
gi | 114795057 | ref | NC\_006483.2 | N TTGCTAATTTTTAT  
ATTTTTAGTAGAGATGAGGTTTCCCTGTGTTGGCCA 45496  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGGCAACCCCCAC  
TATGCTCTCTGCCTCTATG-ACCCATGT----- 26273  
gi | 194719394 | ref | NC\_007316.3 | N GTGTTGTCTTATGG  
CAAGGGATCTGAGGTGAGGGGCCAGTGG----- 32611  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGTCATTTTGGCT  
TCAGCTTTAAGAGGGGACAGTCCAGGTG----- 25455

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTGATGTGACC  
TCTTGACCTCAGGTGATCCGCCTCCCTTGGTCTCCC 41236  
gi | 114795057 | ref | NC\_006483.2 | N GGCCGATGTTGACC  
TCTTGACCTCAGGTGATCCGCCTCCCTTGGTCTCCC 45546  
gi | 73957561 | ref | NW\_876316.1 | Cf AGATATTTTATATA  
A-ATGAAATCATG-----CAATATATGACCT 26312  
gi | 194719394 | ref | NC\_007316.3 | N GGCTAGTTAATTCA  
AGATGGGATCAAGG--ACCTGGTCCTTTTATTTCTT 32659  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTGTGTATGTG  
TATTTATATGTGTG-----TGTGTGTGTG 25493

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATAGCTGGGATT  
GTAGGCGTGAGCCACTGTGCCTGGCCTGAGCACCTT 41286  
gi | 114795057 | ref | NC\_006483.2 | N AAATAGCTGGGATT  
GTAGGCGTGAGCCACTGTGCCTGGCCTGAGCACCTT 45596  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCATATCTGGCTC  
CTACTG-----AATACCTT 26340  
gi | 194719394 | ref | NC\_007316.3 | N TACTCTGCCATCCT  
CAGCTTGCTGGCTTCGTTCTTAGTCTGGATTCCCTC 32709  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTGTATGGTTG  
ATATAT-----ATTCTATA 25521

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGATGGCTGTCAT  
TCCCCACTTCTTTCCGTTTGTTCAGCCGGTATTTT 41336  
gi | 114795057 | ref | NC\_006483.2 | N TTGATGGCTGTCAT  
TCCCCACTTCTTTCCGTTTGTTCAGCTGGTATTTT 45646  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGATGACTGTCAT  
-TCCTGCTTCCCTGTATTTGTCATGTGCTCTCTTAA 26389  
gi | 194719394 | ref | NC\_007316.3 | N ATGGCCCCAGGATG  
-GCTGCCACAGCTCTAGACATCACAACCAGACATGA 32758  
gi | 149361523 | ref | NC\_000074.5 | \_ ATAGATATAGTCAG  
-----TCTTAGGGTTTCTATTCCTGCACAATCATCA 25566

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATACAAACACA  
GACTCATTCACACGATGGAATTTCTACTTCCAAT 41386  
gi | 114795057 | ref | NC\_006483.2 | N AAAATACAAACACA  
GACTCATTCACATGATGGAATTTCTACTTCCAAT 45696  
gi | 73957561 | ref | NW\_876316.1 | Cf AATACAAAAGCAAC  
---TCCTTCCCTAAAGTGGCATTGCTCCTTTGTTG 26436  
gi | 194719394 | ref | NC\_007316.3 | N TAAAGATGAAAAG  
---TCCAACAGAAGAG-GCCATGTGTGTCTGTAAAG 32804  
gi | 149361523 | ref | NC\_000074.5 | \_ TGACCAAGGAGCAA  
G-----TTGGGGAGGAAAGGGTTTATTCAG-- 25605

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAAAGGCTGGAGT  
AGGCCGGGTGCGGTGGCTCATGCCTGTAATCCCAGC 41436  
gi | 114795057 | ref | NC\_006483.2 | N TAAAAGACTGGGGT  
AGGCCGGGTGCCGTGGCTCATGCCTGTAATCCCAGC 45746  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAAG-----  
-----GCGGAAGCTACATCCAAA-----C 26460  
gi | 194719394 | ref | NC\_007316.3 | N AATGAGAAAA----  
---CCTTTCTCTTGAGCCCCTGCCAAATGCCACTCC 32847  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTACACTTCCACATTGCTGTTTCATC 25631

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTTTGGGAGGCCT  
GGGGGGTGGATCACGAGGTCAGGAGATCGAGACCAT 41486  
gi | 114795057 | ref | NC\_006483.2 | N ACTTTGGGAGGCCT  
GCGGGGCGGATCACGAGGTCAGGAGATCGAGACCAT 45796  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCTTTTTTTTTTTT  
TTTTTTTTTATTTAT--GATAGTCACAGAGAGAG-AG 26507  
gi | 194719394 | ref | NC\_007316.3 | N TATCTCTTAGGCCA  
GTGTTGTAGACCAT--GCCTGTGTCTACATCAGTCA 32895  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCAAAGGAAGTCA  
GGACAGGAACTCAC---ACAGGGCAGGTACTTGGAG 25678

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGCCCACATGG  
TGAAAGCCCGTCTCTACAAAAAATACAAAAAAATT- 41535  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGCCAACATGG  
TGAAACCCCGTCTCTACAAAAAATACAAAAAAATG 45846  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGAGAGAGAGGC  
AGAGACACAGGCAGAGGGAGAAG--CAGGCTCCATG 26555  
gi | 194719394 | ref | NC\_007316.3 | N CGGGCAGGGGATGG  
GGTCACCCTGATCGTCTCAGCCTGTCAGGACCCACC 32945  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGGAGCTGATGC  
AGAGGCCATAGAGGGATGCTGCTTACTGGCTTGCTT 25728

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAGGGCATGGTG  
GCATGTGCCTGTGGTCCCAGCTACTTGGGAGGCCGA 41585  
gi | 114795057 | ref | NC\_006483.2 | N AGCAGGGCATGGTG



GCATGTGCCTGTGGTCCCAGCTACTTGAGAGGCCGA 45896  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTGGGAGC-CTG  
ATGTGGGATTCGATCCCGGGTCTCCAGG--ATCGC 26601  
gi | 194719394 | ref | NC\_007316.3 | N CCCGGAGCACTCTG  
CTGCGGGGAGAAAGGCAGG--TACCTGG--ATAAC 32990  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCCTGCCTTGCTC  
AGCCTG--CTTTCTTATAGAACTCAGG----- 25767

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAGGAGAATCGC  
TTGAAACCGGGAGGCGGAGGTTGCAGTGAGCCAAGA 41635  
gi | 114795057 | ref | NC\_006483.2 | N GGCAGGAGAATCGC  
TTCATACCGGGAGGCAGAGGTTGCATTGAGCCAGGA 45946  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----CCCTGGGC  
CAAAGGCAGGCGCCAAACCACTGCGCCACCCAGG-- 26644  
gi | 194719394 | ref | NC\_007316.3 | N TGCATTCTGTTAAC  
AAGGAAGAGGGGAGTGTCTGCTCCACCATTCAAG-- 33038  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATTAC  
CAGCCCAGGGATGGCATTACCCACCATGGGCTGG-- 25806

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACACCACTGCAC  
TCCAGCCTGGTGGCAGAGCAAGATTCCATTTTCAGAA 41685  
gi | 114795057 | ref | NC\_006483.2 | N TCACACCACTGCAC  
TCCAGCCTGGTGACAGAGCAAGATTCCATTTCAAAA 45996  
gi | 73957561 | ref | NW\_876316.1 | Cf -GATCCCACATCCA  
AACCTTCTGATGTGGAATG-CTGTTTACAATATGTT 26692  
gi | 194719394 | ref | NC\_007316.3 | N -ATCCACAAAGACC  
TTGAGACTGGAAAGAGCTGGGTGTATTCAAGGGGGT 33087  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCCCTCCCC  
TACTGATCACTAATTGAGAAAATGCCTTACAGCTGA 25851

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gi | 51473102 | ref | NT\_010498.15 | \_ G---AAAAAAGGCT  
GGGGTAAGTTCCACATCTGCTATGG-----AGAA 41725  
gi | 114795057 | ref | NC\_006483.2 | N AAAAAAAAAAAGCCT  
GGGGTAAGTTCCACATCTGCTATGG-----AGAA 46039  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGTGCAAAGG---  
-TGGTTTATAAGACAATATGTCTG----- 26726

gi | 194719394 | ref | NC\_007316.3 | N GCGTGGCAGGAGGT  
AGGGTGTCTGGGTCTAACTCCCAGGTTCTTGGAGAG 33137  
gi | 149361523 | ref | NC\_000074.5 | \_ ATCTCATCGAGGCA  
TCGATCTCAAGGGAGGCTCCTTTCT----- 25890

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTGTTCAGCA  
TGTTTCAGTGAAAATGGCAGTTTATAAAAGAATATGT 41775  
gi | 114795057 | ref | NC\_006483.2 | N GGGTGTTCAGCA  
TGTTTCAGTGAAAATGGCAGTTTATAAAAGAATATGT 46089  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TACTCTA  
GGATCCTGT-ATTTACATCTATGCGGAAAATCTAG 26768  
gi | 194719394 | ref | NC\_007316.3 | N GGTTCAGCAGGA  
GGAAGTTGTGATCTGATTTTGTGCTTTAAGAACTCT 33187  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTGTG  
ATAACCCAGCTTGTGTCAAGTTGATACACAAAACCA 25931

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGATTATAAGAT  
GCGGTGCCTTAAGTGTGTCTACGCAGAAAATCTAG 41825  
gi | 114795057 | ref | NC\_006483.2 | N CCATATTATAAGAT  
GCAGTGCCTTAAGTGTGTCTACGCAGAAAATCTAG 46139  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGGGTGCCTAAA  
ACGTGAACCTGTGGATG---CCAG---AATTTGGG 26811  
gi | 194719394 | ref | NC\_007316.3 | N CTGGCTGCTACAGG  
AAGGAGGCCAGGGAGGGGCACAGG-TCCCGCCGGG 33236  
gi | 149361523 | ref | NC\_000074.5 | \_ ACATATATACCCAC  
ATACATACACACATATGTATATATACATATATGG 25981

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGGTACTCTGAA  
ATGTGCACGTCTGGG---TGGTAAAAGATAGTGTC 41871  
gi | 114795057 | ref | NC\_006483.2 | N ATGGGTACTCTGAA  
ATGTGCACGTCTGGG---TAGTAAAAGATAGTGTC 46185  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGATTTTTCTGTT  
CTTTTTCAGGGGGT-----TGGGTGGGAGAGGG 26853  
gi | 194719394 | ref | NC\_007316.3 | N GGGCTTCTGCCATG  
TTGGGTAAGGAGCAGCATGTCTGGGTTCAGTGGG 33286  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTATATAAATTAT

ATATATATATATATA-----TATATATATATATA 26024

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gi | 51473102 | ref | NT\_010498.15 | \_ AATTTTTTTCCTGCT  
CTTTTGGCTAGTATATTTTCTAAATTTCTGTACTGT 41921

gi | 114795057 | ref | NC\_006483.2 | N AATTTTTTTCCTGCT  
CTTTTGGCTAGTATATTTTCTAAATTTCTGTACTGT 46235

gi | 73957561 | ref | NW\_876316.1 | Cf CTCATCTGTTTCAT  
AAATTTGTCTGTGCCTGTTTTGCAAGAAGAAAGGAA 26903

gi | 194719394 | ref | NC\_007316.3 | N AGCCTGT-ACACAG  
AAGCATGCCTATGTCT-AACAGCAAACAGCCATGAA 33334

gi | 149361523 | ref | NC\_000074.5 | \_ TTCTATATACAGTA  
TATATAGGCCTTGGATGACAGGTCTGCACCACCAGG 26074

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gi | 51473102 | ref | NT\_010498.15 | \_ GCACATGTTTTGCA  
AGAAGAAAGGAAATCAATCATTAAAGACAAGCCCCT 41971

gi | 114795057 | ref | NC\_006483.2 | N GCACATATTTTGCA  
AGAAGAAAGGAAATCAATCATTAAAGACAAGCCCCT 46285

gi | 73957561 | ref | NW\_876316.1 | Cf AT---TTATTTGGA  
AAGGTGAGGTGCTGTGCCCG-----CCTTC 26940

gi | 194719394 | ref | NC\_007316.3 | N GTGCGGTCCCAGGC  
CTGGGGGTGGGTGCTCCCTGGTTTCTCGGGCACTT 33384

gi | 149361523 | ref | NC\_000074.5 | \_ CT-----TAGAGTG  
CAGGGTGTGCTCAGAGCCCCTG-----AGCCC 26110

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCTGCCACGCCC  
TGTCCCCCTCCCCTGAGCCTCTG-GTACTGACAC 42020

gi | 114795057 | ref | NC\_006483.2 | N AGCCTGCCACGCCC  
TGTCCCCCTCCCCTGAGCCTCTG-GAAGTACTGACAC 46334

gi | 73957561 | ref | NW\_876316.1 | Cf CATGGGCTCATTCA  
C----CCACTCACTC--AACAGCTGGGTGCTGACAT 26984

gi | 194719394 | ref | NC\_007316.3 | N AAGGTGCTCCTCCT  
G----GCTTTAACAAGGTTCTGCTG-TCCCTGAGGT 33429

gi | 149361523 | ref | NC\_000074.5 | \_ CAGCAGTGAAGCCA  
G-----AACCCCACTGTAAGTAGGGCTCACATCCCC 26155

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCCTCCG--TTT  
GCTGTCTAGG---CAGTGCTTGTCGTGGTCACTG-- 42063  
gi | 114795057 | ref | NC\_006483.2 | N CCTCCTCCG--TTT  
GCTGTCTAGG---CAGTGCTCATCGTGGTCACTG-- 46377  
gi | 73957561 | ref | NW\_876316.1 | Cf CACCTTCCCCCTTT  
GCTCCCTAGG---CTGTCCTGATCGTGGTCACTG-- 27029  
gi | 194719394 | ref | NC\_007316.3 | N CAGAGCTGGGCTCT  
GCACACCAGAGCGCTGTGTTCTCCGAGGACAGAAGC 33479  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCTGGCACCCCT  
GTCTTCCAGG---CAGTTCTCATCGTGGTGACCG-- 26200

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gi | 51473102 | ref | NT\_010498.15 | \_ -TCGCCTTCATCCA  
GGTGAGTATT-----TCCTGAGGTCCCAGTCAG 42104  
gi | 114795057 | ref | NC\_006483.2 | N -TGGCCTTCATCCA  
GGTGAGTATT-----TCCTGAGGTCCCAGTCAG 46418  
gi | 73957561 | ref | NW\_876316.1 | Cf -TTGCCTTCATCCA  
GGTGTGTAAT---TATGTTTCTGAGGTCTTGGTCAG 27075  
gi | 194719394 | ref | NC\_007316.3 | N ACTGCCAGCTGCCA  
GCTTTGTTAAGGAACCACTTCTCTAGACCTGCAGAG 33529  
gi | 149361523 | ref | NC\_000074.5 | \_ -TTGGCTTCATCCA  
GGTGCGTACA-----TCCTGAGTCCCATCGGGG 26241

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTAAGCTGG---G  
CGGG-----ACAGGAGCTTCATGGAG----- 42136  
gi | 114795057 | ref | NC\_006483.2 | N GGTAAGCTGG---G  
CGGG-----ACAGGAGGTTTCATGGAG----- 46450  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTGACCTGG---G  
TGTG-----CTGGTGGCTCTGTGGG----- 27106  
gi | 194719394 | ref | NC\_007316.3 | N GCTTCTAGAGGCCG  
TGTGGCCCCGCCTTGTTTCCAAGCAGGGTGAACAGT 33579  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGAGTAACTGGGA  
CGTG-----GTGGGAATTTGTCGGG----- 26275

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gi | 51473102 | ref | NT\_010498.15 | \_ --TCCCCACCTTTA  
AACAGCACATCTGATGTGCTTCCTG----- 42173

gi | 114795057 | ref | NC\_006483.2 | N --TCCCCACCTTTA  
AACAGCACGTCTGATGTGCTTCCTG----- 46487  
gi | 73957561 | ref | NW\_876316.1 | Cf -GTTCCCAGTCTTG  
ATTATCGTGTTCGATGTCCTGCCTG----- 27144  
gi | 194719394 | ref | NC\_007316.3 | N AGTCACCTCACTTT  
TCAAATGAAGCCCAAGTTCTCCCAGGAGATAAGCTC 33629  
gi | 149361523 | ref | NC\_000074.5 | \_ -GTTCCCACCCTTG  
AACAGCACATTTGATGTGCTTCCTG----- 26313  
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gi | 51473102 | ref | NT\_010498.15 | \_ ---CCAGGAGTACA  
GGTCGGAGAAATCTCTGGAAGAGCTGACCAAGATG- 42219  
gi | 114795057 | ref | NC\_006483.2 | N ---CCAGGAGTACA  
GGTCGGAGAAATCTCTGGAAGAGCTGACCAAGCTG- 46533  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CCAGGAATACA  
GGTCGGAGAAATCCCTGGAAGAGCTGACCAAGCTG- 27190  
gi | 194719394 | ref | NC\_007316.3 | N TTTCCCAAGAGTCT  
TTTAGGACATGTGAATTTAAAAAATAATAAAACCAT 33679  
gi | 149361523 | ref | NC\_000074.5 | \_ ---CCAGGAATACA  
GGTCGGAGAAGTCTCTGGAAGAGCTCACCAAGCTG- 26359  
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gi | 51473102 | ref | NT\_010498.15 | \_ -GTTCCCTCCAGAAT  
GTA ACTGGTAAG-----TCAGAGCCTCCCTGGGA 42261  
gi | 114795057 | ref | NC\_006483.2 | N -GTTCCCTCCAGAAT  
GTA ACTGGTAAG-----TCAGGGCCTCCCTGGGA 46575  
gi | 73957561 | ref | NW\_876316.1 | Cf -GTTCCCTCCTGAAT  
GTA ACTGGTAAG-----TCAGAGATTCCCTGGAA 27232  
gi | 194719394 | ref | NC\_007316.3 | N TAAAGCACAAGCAT  
TTGTCCACATCGGAAAGAGAAAATGTATTTCTGTAA 33729  
gi | 149361523 | ref | NC\_000074.5 | \_ -GTACCCCCAGAGT  
GCA ACTGGTAAG-----TCAGGACCTCCACAAGC 26401  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTT----TGGTT  
CACTGGAGGAGCCAGGGAG---CTGGAG-AGTTTGG 42303  
gi | 114795057 | ref | NC\_006483.2 | N CTTTT----TGGTT  
CACTGGAGGAGCCAGGGAG---CTGGAG-AGTTTGG 46617  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTTT----TGGTT

CATCAGAGGAGCCCATGGG---TTGGTG-AGTTTGG 27274  
gi | 194719394 | ref | NC\_007316.3 | N CCTTTGCTCAAGTT  
TATCAAAGTGCCTAAAATT---GAGATGTCAACATG 33776  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGTG-----GTC  
CACAGAAGGAGCTGATGGGTCTGACAAGGAGTCAGG 26445

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATGTTTGCTGA  
AAGTTGTATCCTTGGTAGTGTCGGACAAG---AGAA 42350  
gi | 114795057 | ref | NC\_006483.2 | N CAAATGTTTGCTAA  
AAGTTGTATCCTTGGTAGTGTCAGACAGG---AGAA 46664  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAAAGTTTGCAA  
TATTTGTGTCTCTTGTAGCGTGATGGAGG---AGGA 27321  
gi | 194719394 | ref | NC\_007316.3 | N GATGCATTTGCTTT  
TTCCTGTTTAAAATGCAGCATAAGAGAAGGAAAGCT 33826  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAGGAATTCACAC  
AGGACGGGAACCTTGGAGGCAGAAGCCAGTG-CTTGG 26494

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACATCTC-----  
-----ACTGGGAGTTCTAAGGCCTGGTCTCCG--- 42386  
gi | 114795057 | ref | NC\_006483.2 | N CCACATCTC-----  
-----ACTGGGAGTTCTAAGGCCTGGTCTCCA--- 46700  
gi | 73957561 | ref | NW\_876316.1 | Cf CCATGTCTT-----  
-----TCCAGGGGTTGGGAGACCTGGCATCTG--- 27357  
gi | 194719394 | ref | NC\_007316.3 | N CCAGCACCTGCTAG  
CTCGAGACCTGGTACCTGGAGACATCGTGTCTCTCT 33876  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGTGCTG-----  
-----TCACCTTCATGGTGTGACATGGGGAGAG--- 26531

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
---CCTGCCAATAGGTCGCTGTGTGTCCTCGGG--- 42416  
gi | 114795057 | ref | NC\_006483.2 | N -----  
---CCTGCCAACAGGTCGCTGTGTGTCCTCGGG--- 46730  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CCCTGCCAACAGATTACTCTGTGTCGTTGGG--- 27388  
gi | 194719394 | ref | NC\_007316.3 | N CCATCGGAGACCGC  
GTCCCTGCTGACATCCGTCTCACAGAGGTGAGGGGC 33926

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----CAGTCTTGGTCTCACTGCAGGTGGGGAGA--- 26560

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gi | 51473102 | ref | NT\_010498.15 | \_ -----CATGTCA  
CTCAACCTCTCTGGGCCTCAG----- 42444  
gi | 114795057 | ref | NC\_006483.2 | N -----CATGTCA  
TTCAACCCCTCTGGGCCTCAG----- 46758  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CATGTCC  
TTCTACTTCTCTGGCTCAAG----- 27415  
gi | 194719394 | ref | NC\_007316.3 | N CCAGACCCCGGTCC  
AGGGGCCGTGCAGACACTTGGCTTCTCGGAGGCAGG 33976  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCTGGTA  
TCTGCCCTGGCAATGGCTTG----- 26587

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gi | 51473102 | ref | NT\_010498.15 | \_ --CTCCATCATCAG  
TGTCTAAATCAGGGTGCCTAGCCTGAG----GACC 42487  
gi | 114795057 | ref | NC\_006483.2 | N --CTCCATCATCAG  
TGTCTAAATCAGGGTGCCTAGCCTGAG----GACC 46801  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TCTCTCGTCAG  
AG-TCTAATCAGGGAGCCTGGGCTGGGGCTGTG--C 27459  
gi | 194719394 | ref | NC\_007316.3 | N CATTCTCTCCTTCT  
TG-CACACACATATACACAGACATAGGCATGTGTGC 34025  
gi | 149361523 | ref | NC\_000074.5 | \_ --CTGTGTGACCAT  
AG--ACAGGAGGCTCCACCTTTCTGGGCATCTGCTC 26633

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGGTAGCAGGAG  
TGA-----CTCTGGGAAGAGGGTAGCCC 42524  
gi | 114795057 | ref | NC\_006483.2 | N ACAGGTAGCAGGAG  
TGA-----CTCTGGGAAGAGAGTAGCCC 46838  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAGATGGTGGGAA  
TGG-----CTTTGGGAAGAAGGCGGTCC 27496  
gi | 194719394 | ref | NC\_007316.3 | N ACACAAGCAGAAAG  
TTAGCAAGCAAGCTAATTTTAAGCACAAAGCTCCTC 34075  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCATCGAGGACT  
AACTTG-----TCTTGGCAGGGGGTGAGGG 26672

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAAAGCCTGTGAA  
ATAATGTGCAGAACTGTGTGCATTTTTTCTAGGGAG 42574  
gi | 114795057 | ref | NC\_006483.2 | N ACAAAGCCTGTGAA  
ATAGTGTGCAGAACTGTGTGTGTTTTTCTAGGGAG 46888  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAAACCCATGGT  
AGGTTGTGCAATGCTGTGCCATTTTTTCTATGGAG 27546  
gi | 194719394 | ref | NC\_007316.3 | N CGATGGCATTTCAT  
AAATTATGTATTCTCATGTAAGTATAAGCTAACACG 34125  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGAGCCTGAAAA  
ATAAAGCAGAAACCTGAG----TTTTGCCTGAAGAG 26718

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGGTCTGGAGGTT  
TATTTGAATTCTCAATGAATGGTCTCAGGAGAGTGA 42624  
gi | 114795057 | ref | NC\_006483.2 | N AGGGTTTGGAGGTT  
TATTTGAATTCTCAATGAATGGACTCGG-AGAGTGA 46937  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GGCATTCAGAGGTTGCA 27563  
gi | 194719394 | ref | NC\_007316.3 | N TTT-----TGGTT  
ATATGATTTTCTAGCTTGTAGCCTACTGCAGTAGAG 34169  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAAGCCCAGAGTGCCA 26734

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gi | 51473102 | ref | NT\_010498.15 | \_ GATCCAGGTCTTTA  
ACAAGCAGAGCCATCAGAACATTGGCTGCAGCATAG 42674  
gi | 114795057 | ref | NC\_006483.2 | N GATCCAGGTCTTTA  
ACAAGCGGAGCCATCAGAACATTGGCTGCAGCATAG 46987  
gi | 73957561 | ref | NW\_876316.1 | Cf TTAGATTCTCCAAG  
AGGGGATGAG-----AGGATGTGGG--- 27598  
gi | 194719394 | ref | NC\_007316.3 | N AGGAATTTTATAGC  
TGAGGAATGGGTTTATAGCTGAGGAATGAGGGATAA 34219  
gi | 149361523 | ref | NC\_000074.5 | \_ AGATAAAGTTAACC  
TGGG----- 26752

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTATAGGAAGAGT



GAACTTGAGTAACTACT--CAGCAGCTGCAACAGCC 42722  
gi | 114795057 | ref | NC\_006483.2 | N GATATAGAGAGAGT  
GAACTTGAGTAACTACT--CAGCAGCTGCAACAGCC 47035  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTAGAAC  
AGGCCAAGG---CTCCAGGCCACTGGGCTG-CTGGG 27637  
gi | 194719394 | ref | NC\_007316.3 | N GTTGCTTCTAGAAA  
CAACCATACTGATGGCAGACAGAAGCACTGTCAGAC 34269  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCAG  
TAACAGGCCCGGCTGCAGAGCAGAGCGCTGTGTGGC 26792

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTTCCTGCCCAC  
AGTTTTCCATTGGTTACTGCACGGCTCTTACCAAAG 42772  
gi | 114795057 | ref | NC\_006483.2 | N TCTTTCCTGCCCAG  
AGTTTTCCATTGGTTACTGCACGGCTCTTACCAAAG 47085  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAGATGA-CACAA  
GGATGACCTCCAGCCAGGTGCCCGCCGCTGCCA 27686  
gi | 194719394 | ref | NC\_007316.3 | N TGCTTAAT-CTCAA  
GGATAACA ACTAGTCTAGCCGTAGAAAGTAGCACAA 34318  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTGGCATGGGTAT  
ATGTGAAGGGCGGTCCCAGGCACTGTTGTATTGTTG 26842

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGTTTAAACAAGGA  
AAGAGACAAGACTAAAATGTCTGCCAGTACCACATG 42822  
gi | 114795057 | ref | NC\_006483.2 | N ACGTTTAAACAAGGA  
AAGAGAAAAGATTAAAATGTCTGCCAGTACCACATG 47135  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTCT-----  
-----TTCCTGCCCCG 27702  
gi | 194719394 | ref | NC\_007316.3 | N GCCTTTGTTAAGAG  
TGCAGTTTGGGACATCGGGTGTGGGGCTCCATCCCC 34368  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAAGAG-----  
-----ACACCATG 26857

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCTTTCTG---C  
TTAGCGTAGCCCTGTGTGATAGA ACTTGCAGGAAAT 42869  
gi | 114795057 | ref | NC\_006483.2 | N GCCGTTTCTG---C  
TTAGCGTAGCCCTGTGTGATAGA ACTTGCAGGAAGT 47182

gi | 73957561 | ref | NW\_876316.1 | Cf GACATTT-----CC  
ACGGTGCCTCCTGTTATCACACAGCCCTCACCAAAG 27747  
gi | 194719394 | ref | NC\_007316.3 | N AACCTTTGCGGGTC  
TCAGGGTGTACACACCTCACAGAACATTCCTGAGG 34418  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCAAGGCAG---C  
TTATAAAGGAGGAGATTGTTGGGGCTCACCGTTTCA 26904

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCTATTAATATC  
ATCTGCCCTGTCCAATATGGCATCTGACAATTCTTT 42919  
gi | 114795057 | ref | NC\_006483.2 | N GTTCTATTAATATC  
ATCTGCCCTGTCCAATATGGCATCTGACAATTCTTT 47232  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGTTTAAGGAGG-  
-----AGGAAGGAAAGACAAAACCTCAGT 27784  
gi | 194719394 | ref | NC\_007316.3 | N CTGTCTGAAGATGAT  
CCTGAATCCTCAAGAAAAGGAAGAAAAAAG 34468  
gi | 149361523 | ref | NC\_000074.5 | \_ TAAGCGGGGTTTCAT  
-----AATCGTCGTGGCAGGCAGGTAGGC 26942

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTGTTGTTTTTT  
AAGATAGAGTCTTGCTCTGTGCGCCAGGCTGGAGTG 42969  
gi | 114795057 | ref | NC\_006483.2 | N TTTTGTTGTTTTTT  
AAGATAGAGTCTTGCTCTGTGCGCCAGGCTGGAGTG 47282  
gi | 73957561 | ref | NW\_876316.1 | Cf GTTGTGTGATAGAA  
CTTTCTGG----- 27806  
gi | 194719394 | ref | NC\_007316.3 | N AAAAGGTGAAGTCA  
GGTTCAGAGAGATCCGTT-----GATGG 34505  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGGCACCAGAGTA  
GTACCTGAG----- 26965

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTGGCACAATCT  
CAGTTCGCTGCAACCTCCGCCTCCTGGGTTCAAGCA 43019  
gi | 114795057 | ref | NC\_006483.2 | N CAGTGGCACAATCT  
CAGTTCAGTCAACCTCCGCCTCCTGGGTTCAAGCA 47332  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AATGTTCT  
GTAATCCATGCTAATACAGCACCCT----- 27840  
gi | 194719394 | ref | NC\_007316.3 | N GAGTAACCTATTTT

ATGATCCCTGCCAAGAAGGTTTAAGG----- 34545  
gi | 149361523 | ref | NC\_000074.5 | \_ ----AGCTTACATT  
TGAGACACTGAGAAGACAACCACGAG----- 27001

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCTCCTGCCTCA  
GCCTCCCAAATAGCTGGGACTACAGGCATGCACCAC 43069  
gi | 114795057 | ref | NC\_006483.2 | N ATTCTCCTGCCTCA  
GCCTCCCAAATAGCTGGGATTACAGGCATGCACCAC 47382  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AC  
TCACACAGGACCACTGAGGAATTGGGTGTGGCTGGG 27878  
gi | 194719394 | ref | NC\_007316.3 | N -----AT  
TGTTCAAAGCTTTTATAGTGATAAAGGATTAAGCCCCG 34583  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGGGTGGAGAGGGAGAAGGGGAGAGGAAGAA 27032

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gi | 51473102 | ref | NT\_010498.15 | \_ TACACCTGGCTAAT  
TTTTATATTTTATAGTAGAGGTGGGGTTTCGCCACGT 43119  
gi | 114795057 | ref | NC\_006483.2 | N TACACCTGGCTAAT  
TTTTATATTTTATAGTAGAGGTGGGGTTTCACCATCT 47432  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTACTGGGG-----  
-----AAGTGAGCTCTTCATG-----TTCTTAGCA 27913  
gi | 194719394 | ref | NC\_007316.3 | N GTTATCAGCCTGAT  
TTATTTATTTAAGGAGGACGTG-----TTCTCTGGG 34628  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGAAGAGGG-----  
-----GGAGGGGGAG-----AGGG 27056

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCTAGGCTCGTC  
TCGACCTCCTGACCTCAGATGATCTGCCTGCCTCAG 43169  
gi | 114795057 | ref | NC\_006483.2 | N TGGCTAGGCTAGTC  
TCGACCTCCTGACCTCAGATGATCTGCCTGCCTCAG 47482  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAATAGCCG-----  
-----GTGGGGGCTTGTGGGGGCTG----- 27943  
gi | 194719394 | ref | NC\_007316.3 | N TCAATAGCAGGCTG  
TTGGAAGGGTGGCCTGGAGAGAGGTGGGG----- 34671  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAATGCATG-----  
-----CGTGTGCGTACAAGAGTTGG----- 27086

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCCTAAAGTAGT  
 GGGATTACAGGTGTGAGCCACCGTGCCCGGCGACA 43219  
 gi | 114795057 | ref | NC\_006483.2 | N CCTCCTAAAGTGCT  
 GGGATTACAGGTGTGAGCCACCGTGCTCGGCGGACA 47532  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCCC  
 GGGACAGCCG-----AGGCTTAGAGCCG----- 27971  
 gi | 194719394 | ref | NC\_007316.3 | N -----AGTGGACG  
 GAGACAAAAG-----AGACTGGGAGCCAA-CCTCCG 34709  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----ATGGTGTGGG----- 27096

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTAAATTCTTAA  
 TGTTATTTAATTTTAAATTTTATTTAAATATGCACA 43269  
 gi | 114795057 | ref | NC\_006483.2 | N AACTAAATTCTTAA  
 TGTTATTGAATTTTAAATTTTCATTTAAATATGCATA 47582  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----CTGCTGGGGCCGCCGCCCTGGGGA 27996  
 gi | 194719394 | ref | NC\_007316.3 | N GGGTGTCTCTGGG  
 TCAATAGCAAGCTGTTGGAAGGGTGGCCTGGAGAGA 34759  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----CTTTTGGAAACACCCAGCCACACA 27122

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGACCTAGTGGCT  
 ACCATATTGGGCAGCTCAGCTTAGAACATCTGCGGG 43319  
 gi | 114795057 | ref | NC\_006483.2 | N TGGACCTAGTGGCT  
 ACCATATTGGGCAGCTCAGCTTAGAACATCTGCGGG 47632  
 gi | 73957561 | ref | NW\_876316.1 | Cf G-----GAGATGAC  
 ACACACACAGGAGAAAGTGT-----TTGGGGCCT 28034  
 gi | 194719394 | ref | NC\_007316.3 | N GGTAGGGAGTGGAG  
 GGAGACAAAAGAGACTGGGAGCCAACCTCCGGGACC 34809  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCTCCAACAGA  
 CCACACCTCCTCCAAAAGACCACACCTCCTAATCT 27172

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCCTTCTAGGAA  
CAGCTGCCATTGGTGGAGGAAGCTGACAGGCCAGG 43369  
gi | 114795057 | ref | NC\_006483.2 | N GGCCCTTCTAGGAA  
CAGCGGCCATTGGTGGAGGAAGCTGACAGGCCAGG 47682  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCTTTTTCTCCAC  
ATAATTTCTAGTATA-----CCAGT 28068  
gi | 194719394 | ref | NC\_007316.3 | N TCGTTTTACAGCAC  
CCTGAGCCTGGCTTTGAAGGTGAGGCGGGGGCCAGA 34859  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCCCAAACACATC  
CAGAAACTGG----- 27196  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGGAAAACAGCTT  
TTTCCTTTTTCTTTTCTTT-----CTTTCCTTTCT 43413  
gi | 114795057 | ref | NC\_006483.2 | N AGGGAAAACGGCTT  
TTTCCTTTTTCTTTTCTTTTCTTTTCTTTTCTTTCTTTCTT 47732  
gi | 73957561 | ref | NW\_876316.1 | Cf AAT--CCACATGCT  
TTTCCT----CTTTGTAGAAA----TGGTCTGATTT 28108  
gi | 194719394 | ref | NC\_007316.3 | N GGG--CACCCGGGC  
TTTCAGCTCCTCTGCCCCTG----TTTTTCAGATCC 34903  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GACCAAGC  
ATTCAATCATATGAAGCTATG----GGGTCCGTTCT 27236  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCTTTTTCTTTCT  
TTTCTTTTCTTTCCTTTCTCTTCTTTTCTTTTTCCTTTC 43463  
gi | 114795057 | ref | NC\_006483.2 | N TGTCTTTTTCTTCT  
TTTCTTTTCTTTCCTTTCTTTTCTTTTCTTTTTCCTTTC 47782  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGAAAAGG--TCT  
AAGTCTGCACCCCTTCCCTTGACTAGCTCTGCTGAG 28156  
gi | 194719394 | ref | NC\_007316.3 | N CCAGGCAGGGCACA  
GCAAGTGTACCCACACCAGGGTGAATTCCTCTCCG 34953  
gi | 149361523 | ref | NC\_000074.5 | \_ CATTCGAACTCCCA  
CAGGGTGTCTCTTTCTGATTAGATAAGCAGCTCTG 27286  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTTTCTTTCTT  
TTTCTTTTTGTTGTTGTTGTTGTTGAGACAGGGTCT 43513  
gi | 114795057 | ref | NC\_006483.2 | N TTTCTTTCTTTCTT

T-----TTGTTGTTGTTGTTGTTGAGACAGGGTCT 47826  
gi | 73957561 | ref | NW\_876316.1 | Cf GTTGCT-----  
-----TCG 28165  
gi | 194719394 | ref | NC\_007316.3 | N TCTGCTTCTCCCTA  
C-----ACGAGCATCCAGCCTCCGAGTCC 34991  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTCTGTTGCCTA  
GGCTAGAGTGCAGTGGCAGGATCTCGGCTCACTGCA 43563  
gi | 114795057 | ref | NC\_006483.2 | N GGCTCTGTTGCCTA  
GGCTAGAGTGCAGTGGCAGGATCTTGGCTCACTGCA 47876  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCCATGTG----  
-----TCTTTCCCAAG--TAAGCACG 28194  
gi | 194719394 | ref | NC\_007316.3 | N AGGGCATGTGGTTC  
C-CAGTAGAGGAGCCACTATCCAGTGGCCAAGCCCC 35040  
gi | 149361523 | ref | NC\_000074.5 | \_ --GGCAGGTG----  
-----GCGGCCTCTTGCCAACCCACA 27315  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTGTGCCTGCCT  
CCAGGGCTCAAGTGATCCTCCTGCCTTACTTTCCCA 43613  
gi | 114795057 | ref | NC\_006483.2 | N ACCTGTGCCTGCCT  
CCAGGGCTCAAGTGATCCTGCTGCCTTAGTTTCCCA 47926  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTTGCTCAAAAG-  
-----TAACTGAAAGTATCTCACGATCCGA 28232  
gi | 194719394 | ref | NC\_007316.3 | N ACCTGCAGAGAAAG  
CTGGGGAAACCAGTCTGACACTGTCCATGCCTCCCT 35090  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGTGTTAGAAAG  
-----GAAAATAACAAAGGCAACAA 27349  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTAGCTGGGAATA  
CAGGTGCATGCCATGCCACCACACCTGACTACTTTT 43663  
gi | 114795057 | ref | NC\_006483.2 | N AGTAGCTGGGAATA  
CAGGTGCATGCCATGCCACCACACCTGACTACTTTT 47976  
gi | 73957561 | ref | NW\_876316.1 | Cf GGG-----  
----GCTTCATAAAGGTTTAAACG--TATAGTAACT 28265

gi | 194719394 | ref | NC\_007316.3 | N AGGGATGGGCTCTG  
CCCTGCAACGTGGAGGAGTCCCCAGGTATAGGGGCG 35140  
gi | 149361523 | ref | NC\_000074.5 | \_ GAA-----  
----CACTATCTGTCCTTCACGGCCCTTCAACCTCA 27384

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTATCAGCTGCT  
ACAAAAGTTACTGCATTTTTTG-CATTTTTATTTTT 43712  
gi | 114795057 | ref | NC\_006483.2 | N TTGTATCAGCTGCT  
ACAAAAGTTACTGCATTTTTTG-CATTTTTATTTTT 48025  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGTTTTCTGAACG  
ATGATGTTTGGGGAAATGCCT-AACATATATTTGG 28314  
gi | 194719394 | ref | NC\_007316.3 | N GGCTGTCCACATAC  
TGGGCAGCTGATAGACAGGACG-CATGTATACTATG 35189  
gi | 149361523 | ref | NC\_000074.5 | \_ CGCAGCACACATCC  
GTAGAAACTTCTGGAAGTACTGTCTAACCTGCTCTG 27434

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAACCTGATTGTG  
TATGTGTGTGTATGTATGTGTGTACGTGTGTGCACG 43762  
gi | 114795057 | ref | NC\_006483.2 | N TAAACCTGATTGTG  
TGTGTGTATG-----TGTGTGTACGCATGTGCACA 48069  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATATAAATG  
GCACAGTG-----GTGCCCCATGGCTG-C 28346  
gi | 194719394 | ref | NC\_007316.3 | N GACGCTACAGGGAG  
GCAGAGCGGTGAAGTGATTAGTGCCCTGGGGCTGGC 35239  
gi | 149361523 | ref | NC\_000074.5 | \_ TACAGCGTGGTGTG  
GCTAGCCATG-----TTTTCTAAGAACTCCA 27474

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gi | 51473102 | ref | NT\_010498.15 | \_ TATGTGTGTGTGTG  
AGCATGTCTGCACGTGTGTGTGCGTGTGTGTCTGTA 43812  
gi | 114795057 | ref | NC\_006483.2 | N TATGTGTGTG--CA  
AGCGTGTCTGCGCGTGTGTGCGTGTGTGTGTCTG-- 48115  
gi | 73957561 | ref | NW\_876316.1 | Cf AGATAGAAAG----  
-----ATCTGGTGGGATGAGTCCCG----- 28376  
gi | 194719394 | ref | NC\_007316.3 | N CATTAGCCAAGTCC  
TATCCTTCAGAAGCTGTGTGACCTTGAGCAAGTAGC 35289  
gi | 149361523 | ref | NC\_000074.5 | \_ AATGTGGCTG----

-----ACTAAGGAGGTGGGGTCCT----- 27503  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCGTGTGTCTGCG  
TCGTGTGTGCATGTGTGTGTGCGTGTGTGTATATG 43862  
gi | 114795057 | ref | NC\_006483.2 | N -----  
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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TT-----  
----- 35291  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGTCTGTGTGTGTC  
TGTGCATGTGTCTGTGTATGTGTGTGCGTGTGTGTA 43912  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----TGTGTGTC 48123  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCTCTC 28382  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AACCTCTC 35299  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CATTTTC 27510

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCATGTGTGTGTC  
TGTGTCTCCGTGTGTGTGTCTGTGCATGTGTATGTG 43962  
gi | 114795057 | ref | NC\_006483.2 | N TGTATGTGTGTGTC  
TGTG-----TGCATGTGTATGTGCATGTGTATGCG 48167  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGGAGCCAGCGAG  
CGGGG---TGTGTGTGTGTGTGTGTGTGTGTAGAAAT 28429  
gi | 194719394 | ref | NC\_007316.3 | N TGTGCCTCAGCTTC  
CTCAT---CTGTCAGAGGGGTTAATGTTTCATTCCCA 35346  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCTTTGATTTG  
ATTTG-----ATTGAAGTGAGCATGTCAGCGAG 27552

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCATGTGTGTATA  
TGTGTCTGTGTGTGTCTGTGTGTGCATGTGTCTGTG 44012  
gi | 114795057 | ref | NC\_006483.2 | N TCGAGTGTGTATA  
TGTGTCTGTGTGTGTCTGTGTGTGCATGTATCTGTG 48217  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAAGG-----CA  
GAGAATAACGAGTAACAGAGACAAAAAGAGGATGAT 28473  
gi | 194719394 | ref | NC\_007316.3 | N ACTTGAGGGGTTCT  
GATGATGCCGAATTGAGCTAAGACCATCAGCCTGCT 35396  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGAGATGCTTAGA  
GAGGAGTCTGGATGCATTAGGGGCCAACTACATTTT 27602  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGTATGCGTGTG  
TGTGTGTGTGTGTGTGTATGTGTGTGTGTGGAGATG 44062  
gi | 114795057 | ref | NC\_006483.2 | N TGT-----GTGTA  
TGTGCGTGTGTGTGTGTATGTGTGTGTGTGGAGATG 48261  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGG-----AAGCG  
CAAGAGAAGGGGAGTCAATTCTAGAAGGTTCCACCGG 28518  
gi | 194719394 | ref | NC\_007316.3 | N TGTG-----CAGCG  
CCCCGAGGTGGGGACAGAGTCCCGAACATCAGCCAT 35441  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTA-----AAACA  
TGTACTTATTTGTGTGTATTTGT----- 27634  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTTTCACTATGT  
TGCTCAGTCTGGGAAAACAGCTCATTCTAAGCTTAA 44112  
gi | 114795057 | ref | NC\_006483.2 | N GGGTTTCACTATGT  
TGCTCAGTCTGGGAAAACAGCTCATTCTAAGCTTAA 48311  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----  
-----TCACGAAAATGTCTGGGCTTAGTAAGTA 28549  
gi | 194719394 | ref | NC\_007316.3 | N TGGTTTAACTGTTT  
ATCATTACCAAGCTTGACAACAGTTCCTTGAAAGAA 35491  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATCAATGTAGCATGCTGTGGTATGTGTAAG 27664  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTTAGCATAGCA  
GTGGTCCATAAG-CTCGTTCTCCTAGTAG--AAAAT 44159

gi | 114795057 | ref | NC\_006483.2 | N CTTTTAGCATAGCA  
GTGGTCCATAAG-CTCGTTCTGCTAGTAG--AAAAT 48358  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----ACG  
AACAAG-----CCT 28562  
gi | 194719394 | ref | NC\_007316.3 | N TTTTTTAAACCCCA  
AATAACTCCCCTCCTACTTCAACTGGTTTTCTTCCT 35541  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
-----TCAG 27669

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAATGATTTCAAA  
AAAGGCCAAAGTCTTCTCCCCACCCCTGCTAACATT 44209  
gi | 114795057 | ref | NC\_006483.2 | N GAAATGATTTCACA  
AAAGGCCAAAGTCTTCTCCCCACCCCTGCTAACATT 48408  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCAGAAATCCAGA  
TGTGTGATGGGTG--ATGTCATCATCTGAACAAACA 28610  
gi | 194719394 | ref | NC\_007316.3 | N GCCCTGCTTCTATC  
AGATTAAATGGTATCTGGTTCGTTGCCAGCACAAAGGA 35591  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGACA ACTTGGGG  
GGAGCCAATTCTTTCCTGCCATGGGCTTCTAGGGGT 27719

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTTGAGGTCCTGT  
CAGGCTGATCTGTCTTTCCCGAACATACTG-GCTG 44258  
gi | 114795057 | ref | NC\_006483.2 | N GGTTGAGGTCCTGT  
CAGGCTGATCT----TTCCCGAACATACTG-GCTG 48453  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAATGGAAG----  
-----TGATTTATGTGACT 28634  
gi | 194719394 | ref | NC\_007316.3 | N CTTTTTCAAGGCTA  
CCGCCC GCAACTCTGCAGATTTTCTCTCTGGTC 35641  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAACTCAGGTAG-  
-----TCAGGGTTGAGCCT 27746

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCAAAGTGATAGA  
AGGTATCCTGTGATCAGCCGGGCGCGGTGGCTCACA 44308  
gi | 114795057 | ref | NC\_006483.2 | N CTCAAAGTGATAGA  
AGGTATCCTTTGATCAGCCGGGCGTGGTGGCTCACA 48503  
gi | 73957561 | ref | NW\_876316.1 | Cf GATGATCTGATCTT

AAGTTTAAATATCAAATCTTGGCCT---TTCAGGT 28680  
gi | 194719394 | ref | NC\_007316.3 | N CTTTTGCAGATCAG  
TAGCTTTGTTTACTCATAGTAGAGT---TTTTTTT 35687  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTGAGCCGTCTTC  
CAGCTCTGGGGCCAGCTTTTAAAGGGCACCATGTAGA 27796

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGTAATCCCAGC  
ACTTTGGGAGGCCGAGGTAGGCAGCTCACCTGAGGT 44358  
gi | 114795057 | ref | NC\_006483.2 | N CCTGTAATCCCAGC  
ACTTTGGGAGGCCGAGGTAGACAGCTCACCTGAGGT 48553  
gi | 73957561 | ref | NW\_876316.1 | Cf G-AATAGTATGCAT  
TATTA--ACGTGCCCGGAAGTCATTTCTAAA----- 28722  
gi | 194719394 | ref | NC\_007316.3 | N TTAATAATTTTATT  
TATTTGGCTGTGCTGGGTCTTCCTTGCTGCG----- 35732  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTAACTTACAAGC  
TACCTCCCAGAACTGAAGGGGCTCAGGAAAG----- 27841

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGAGTTCAAGAC  
CAGCCTGGCCAACATGGTGAAACTCTGTCTCTACTA 44408  
gi | 114795057 | ref | NC\_006483.2 | N CAGGAGTTCAAGAC  
CAGCCTGGCCAACATGGTGAAACTCTGTCTCTACTA 48603  
gi | 73957561 | ref | NW\_876316.1 | Cf -AGATG-----  
-----ATATTATG 28735  
gi | 194719394 | ref | NC\_007316.3 | N -TGTGGGCTTTCTC  
TGGTTGTGGCGAGCAGGGATTGCTCTCCAGTTTCGG 35781  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCTATCCTT 27851

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATTAAAAAAA  
ATTAGCTG-GGCATGGTGGTGGGTGTCTGTAATCCC 44457  
gi | 114795057 | ref | NC\_006483.2 | N AAAATTAAAAAAA  
ATTAGTTG-GGCATGGTGGTGGGTGCCTGTAATCCC 48652  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCAAG-----  
CACAGCAGTGGCA-----GGCAGGTTGGTA 28766  
gi | 194719394 | ref | NC\_007316.3 | N TGCAAAGGGCTTCT  
CATTGCAGCGGCTTCTCTTGTGCGGAAGCTCTCTT 35831

gi | 149361523 | ref | NC\_000074.5 | \_ CGCCCACCCACGAA  
CCTGGCTGAGGGCCTTGG-----GGACATGTGGCT 27895

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTACTTGGGAGG  
CTGAGGCAGGAGAATTGCCTGAACCCAGAGATGGAG 44507

gi | 114795057 | ref | NC\_006483.2 | N AGCTACTTAGGAGG  
CTAAGGCAGGAGAATTGCCTGAACCCAGAGGTGGAG 48702

gi | 73957561 | ref | NW\_876316.1 | Cf GAACTCAAAGGGCA  
CTG-----AAGATAGGCAG-CCCCTG----- 28800

gi | 194719394 | ref | NC\_007316.3 | N GAGCTCTAGAGCGT  
CCGGAATTCAGGAATTGCCG-CACGTGGGCTCAGGA 35880

gi | 149361523 | ref | NC\_000074.5 | \_ GGGTCCCTTGGTAC  
CTGTGCTGATCATAATGAGG----- 27929

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTGCAGTGAGCCA  
AGAGTGCTCCATTGTACTCCAGCCTGTGCGATAAGA 44557

gi | 114795057 | ref | NC\_006483.2 | N GTTGC AATGAGCCG  
AGATTGCTCCATTGTACTCCAGCCTGTGCGATAAGA 48752

gi | 73957561 | ref | NW\_876316.1 | Cf -TCTCGG-----  
-----CATCTGAGGCCTGTTGTACAAGCCAG---- 28832

gi | 194719394 | ref | NC\_007316.3 | N GTTGCAG-----  
-----CTCCCGGGCTCGAGAGCACAGGCTCAGTAG 35917

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCAGAGATTCCATGTGGCCTG----- 27951

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gi | 51473102 | ref | NT\_010498.15 | \_ GCGAAACTCTGTCT  
CAAAAAAAAAAAAAAAAAAAGTATCTCATGGTCTGGGG 44607

gi | 114795057 | ref | NC\_006483.2 | N GCGAAACTCTGTCC  
CAAAAAAAAAAAAAAAAAAG----TATCTCATGGTCTGGGG 48798

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--AAGAAACCCCTG-----CCACGCAGGCCCT--- 28858

gi | 194719394 | ref | NC\_007316.3 | N TTGCGGCTCAGGGG  
CTTCGTTGCTCCGAGGCATCAAAGCAGCCCCCTGCA 35967

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---AGATGTTAGGAG-----ACTCAGACACTCAG- 27977

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gi | 51473102 | ref | NT\_010498.15 | \_ TG--TCTGGGAACA  
 ACTCAGCCCACCCTCTGAGTCTCCAAGACCCATTTC 44655  
 gi | 114795057 | ref | NC\_006483.2 | N TG--TCTGGGAACA  
 ACTCAGCCCACCCTCTGAGTCTCCAAGACCCACTTC 48846  
 gi | 73957561 | ref | NW\_876316.1 | Cf ----CCTGGGTTC  
 CCCAT-----CCTCTG- 28879  
 gi | 194719394 | ref | NC\_007316.3 | N TTGTCCAAGGGTCA  
 ACCGTGTGTAACAATCAGATCGGCGCTAGCCACTGT 36017  
 gi | 149361523 | ref | NC\_000074.5 | \_ ----CTCGGCTCG  
 ----- 27986

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gi | 51473102 | ref | NT\_010498.15 | \_ CAACATTTGGCAAA  
 CATACGGCAACTCCGTATTTTCTG-AAGGATAATTT 44704  
 gi | 114795057 | ref | NC\_006483.2 | N CAACATTTGGCAAA  
 CATATGGCAACTCCGTGTTTTCTG-AAGGATAATTT 48895  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCTC  
 AGTACATCTTAATTGAGCATCT----- 28906  
 gi | 194719394 | ref | NC\_007316.3 | N GTAAAAACCGCCTT  
 GCTTCATCTGCAGTGACCTTAAGAGGACAGTGCTCT 36067  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----GAGCCTG  
 CCTAGAGGTTCTCAGGAACACT----- 28015

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGGGAGAGCTTT  
 AGTATATATCCCAGGCACATGTTGTGCAACTGAGCC 44754  
 gi | 114795057 | ref | NC\_006483.2 | N TCAGGGAGAGCTTT  
 AGTATATATCCCAGGCACATGTTGTGCACTGAGCC 48945  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----ACTGTGTG  
 -----CCAGGAGGAATGGTGCCAGGGTTACA 28940  
 gi | 194719394 | ref | NC\_007316.3 | N CCTTTTACAGTGAG  
 GACACAGAAGCCTGGAGGGCTGAGCCCACACAGTCA 36117  
 gi | 149361523 | ref | NC\_000074.5 | \_ ----CACAGCATG  
 ATTTGGGGCTTTAGGTGGGAAGAAAGCCCCATAGAT 28060

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGGGCTAGGGTA

GAAAGCCGTAGTGAGATACGGTCCCGCGTCTCAAAG 44804  
gi | 114795057 | ref | NC\_006483.2 | N ATGGGGCTGGGGTA  
GAAAGCCCTAGTGAGATACGGTCCCGCGTCTCAAAG 48995  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGATGAACAAGAA  
GGGAAGGCCTTGGCCCTCGG-----AGCGCTCAC 28983  
gi | 194719394 | ref | NC\_007316.3 | N GTGGGGCAGAGGGG  
ACTTGAACCTGGGCCATCTGGCTCCGGAGCCCAGAC 36167  
gi | 149361523 | ref | NC\_000074.5 | \_ CATGGGTCTGGCTG  
GTCTCCCAAAGTGCCAGCAGTTATGGGATGTGTGTA 28110  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTCAGCATTCAAG  
GGGCGTGTGTGTATAATAACAAGGCGGAGAATGACGA 44854  
gi | 114795057 | ref | NC\_006483.2 | N AGTCAGCATTCAAG  
GGGTGTGTGTGTATAATAACAAGGCGGAGAATGACGA 49045  
gi | 73957561 | ref | NW\_876316.1 | Cf G--CTTGTACCAGG  
GGAGGCAGATAACAAAGTGAAGGGGCAAGAGGACTG 29031  
gi | 194719394 | ref | NC\_007316.3 | N T--CCAGGCCCTGT  
GTCGATGCAAACAATCGCTAATAAGAACGGAGCACG 36215  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAGACAGACACAG  
AGAGACAGATGCAAGACAGAGGAAGAGGGGCATAGT 28160  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGACCAAATAGGG  
ACAAGAAGAGGATGATACAGAATTGACCCACATCAC 44904  
gi | 114795057 | ref | NC\_006483.2 | N AGGACCAAATAGGG  
ACAAGAAGAGGATGATACAGAACTGACCCACATCAC 49095  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGACTCTGGCAGG  
TGCAG--GACAGCCAAACAGCACCCCCCCCCCCCCAC 29079  
gi | 194719394 | ref | NC\_007316.3 | N TGGGCCAAACCGAG  
GACTGTAGCCCGGAGACAGGCTCGCCATAGCCCAG 36265  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGATGGAGAGGG  
AGATATAGACCCATAAGCAGGATGAACATTCCAGAA 28210  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGGGTGAGTCAA  
TTGTAGAAGGGCCGCGGGAGCAGTAGAAATGTCTGG 44954  
gi | 114795057 | ref | NC\_006483.2 | N AGAGGGTGAGTCAA  
TTGTAGAAGGGCCGCGAG-----TAGAAATGTCTGG 49139

gi | 73957561 | ref | NW\_876316.1 | Cf ACACACACACACAA  
AGCCACAGGAAAACCAC-----CCAGAGATGTAT 29122  
gi | 194719394 | ref | NC\_007316.3 | N ACAGACTGCTCCTG  
AGAAGCACGGTTTTTCAG-----CGCTGTTTGTAC 36308  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTGCAAGGGACAA  
TGGAGTCTGGGTTCACTG----- 28242  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTCGCTGGTCGGA  
TGAACAGTGCTGTCAGAAATCCAGACATGTGACATC 45004  
gi | 114795057 | ref | NC\_006483.2 | N GCTCTCTGGTCGGA  
TGAACAGTGCTGTCAGAAATCCAGACACGTGACATC 49189  
gi | 73957561 | ref | NW\_876316.1 | Cf CAG-----CAGTT  
GCTGGAGGAGTGGGACCAGCTCTGAATAGCTGGTGA 29166  
gi | 194719394 | ref | NC\_007316.3 | N CCTGTCACAACAAA  
GAAAAAGAAATTCCATCAGACATGGCAGGGGTACAT 36358  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCTGG  
AGAAGGAGGCTGTTGGAAACCCAGACAAATGACATT 28283  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATTAAGTGGAGCAAA  
CGGAAGCATAAATGATTTATGTGATTTGATGATCCG 45054  
gi | 114795057 | ref | NC\_006483.2 | N ATTAAGTGGAGCAAA  
CGGAAGCATAAATGATTTATGTGATTTGACGATCCC 49239  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCAGCTG---CCC  
TGATCTGACATTTGAG-----GAGGAGCTG 29202  
gi | 194719394 | ref | NC\_007316.3 | N TCCTTCAAGGTCAC  
CAAAAGGACAGATTAG-----GACATACGC 36397  
gi | 149361523 | ref | NC\_000074.5 | \_ ATCAGCTAAACACC  
CAGAAATGAGTGATCTGCG-----ATGATGACTGG 28327  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATCTTAAGCTTAAA  
TATCGAGTCTTGGCCTTTCAGGTGAATAGCGTGCAT 45104  
gi | 114795057 | ref | NC\_006483.2 | N ATCTTAAGCTTAAA  
TATCAAGTCTTGGCCTTTCAGGTGAATAGCGTGCAT 49289  
gi | 73957561 | ref | NW\_876316.1 | Cf GTATTTTCAGTTGAG  
ACCTGAGGAATAGAAG--GAGCCAGGCATGG-GAAG 29249  
gi | 194719394 | ref | NC\_007316.3 | N AGTGAGAGGCATGA

CCTTGACATCTGGGAAGAGAGCCTTATCTCG-GAAG 36446  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTTTAAGCTTAAA  
TACCAAGTCTCGACCT--TTCCATAGTTGGGTACAT 28375

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gi | 51473102 | ref | NT\_010498.15 | \_ TATTGATGTCTCCC  
GGGAGGTCACCTTCTAAAAGACGGTTTTATGTACAAA 45154  
gi | 114795057 | ref | NC\_006483.2 | N TATTGATGTCTCCC  
AGGAGGTCACCTTCTAAAAGACGGTTTTGTGTACAAA 49339  
gi | 73957561 | ref | NW\_876316.1 | Cf AACTGAGGGAGCAG  
CAGG-----TGAATATCTGATGGGTGCTCTTG 29290  
gi | 194719394 | ref | NC\_007316.3 | N GAGTCCTGGCTTAG  
AGGCGTTCACCCCTATCTTCGGGGTGAGCGCTCTTT 36496  
gi | 149361523 | ref | NC\_000074.5 | \_ TACCGACAGCCCCG  
GGG-----CCAATTCAGAGACAGTTTCCCTTT 28417

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAGCGGTGTCGG  
GCAGCCCAGTAGAGTTGAAAGAGCGCTGAAGAGGTG 45204  
gi | 114795057 | ref | NC\_006483.2 | N AGCAGCGGTGTCAG  
GCAGCCCCGTAGAGTTAAAAGAGCGCTGAAGAGGTG 49389  
gi | 73957561 | ref | NW\_876316.1 | Cf G-CTCCAGGGACAG  
CTCAGCCACACAAAACAGAGAAATTGTGTTGTCTCA 29339  
gi | 194719394 | ref | NC\_007316.3 | N G-CTTCTGGGTAAT  
GTGTCCTTTTCTTTGATGATGAAAGCAGGTGTCCCG 36545  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAAGCAGGGCCAA  
GGACCTGATGAGGTGCTCAGCAATGACATCATCCTG 28467

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCCCACCCTTTG  
AGTCTCTGAGACCCATTTCCAACCTCAGGGGAAACCC 45254  
gi | 114795057 | ref | NC\_006483.2 | N AAGCCCACCCTCTG  
AGTCTCTGAGACCCATTTCCAAGTCAGGGGAAACCC 49439  
gi | 73957561 | ref | NW\_876316.1 | Cf TG-----GCAA  
GGGATTTGAGGTGGGAGGGACAGTGTGGTTGGTTAG 29381  
gi | 194719394 | ref | NC\_007316.3 | N TGTACGGTACACAC  
AGGCTGTGCTGCTGATCATAAAATCCACGCCAAGTC 36595  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGGAGGAATGGG  
GGGGGGCCTGTGGGCCTCCAAGGGCTCGGGGTCTT 28517



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gi | 51473102 | ref | NT_010498.15 | _      TGCTGTGCGGGACC
CCCTCCCTGTGTTACTCCATCCCTGGTGCAGGCATC 45304
gi | 114795057 | ref | NC_006483.2 | N      TGCCGTGCGGGACC
CCCTCCCTGTGTTACTCCATCCCTGGTGCAGGCATC 49489
gi | 73957561 | ref | NW_876316.1 | Cf      GTTGAGAAGATGCT
GAGGACCTGGTCCTTTCATTTCTTCACTTTGCCATC 29431
gi | 194719394 | ref | NC_007316.3 | N      ATAAACACCAGACT
GGCTTCCCAGCCTCCACCACCTCTTTCCCGACAGC 36645
gi | 149361523 | ref | NC_000074.5 | _      CTCATGATAGAGAC
AGGGAGGTGAGCCAAGAGACAGGATAACTGGGAAGC 28567

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gi | 51473102 | ref | NT_010498.15 | _      AAATATTTATTGAG
CACCTACTGTATGCCTGGAGAAAGGGCACTGAGGTT 45354
gi | 114795057 | ref | NC_006483.2 | N      AAATATTTATTGAG
CACCTACTGTATGCCTGGAGAAAGGGCACTGAGGTT 49539
gi | 73957561 | ref | NW_876316.1 | Cf      CT-----
-----TGGCTTGTTGGTTCTGTCATC 29454
gi | 194719394 | ref | NC_007316.3 | N      CAGCTCTCCGG---
----ACTTTCTTCTGGCTCTCTGGCTCTCCCTCC 36687
gi | 149361523 | ref | NC_000074.5 | _      AG-----
-----CAGAGGCTCACCCCTT 28585

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gi | 51473102 | ref | NT_010498.15 | _      ATACAAGTGGAAGA
AATGGGGAGGCCTCGGCCTTTGGGGACCTCACATTC 45404
gi | 114795057 | ref | NC_006483.2 | N      ATACAAGTGGAAGA
AATGGGGAGGCCTCGGCCTTTGGGGACCTCACATTC 49589
gi | 73957561 | ref | NW_876316.1 | Cf      TGGCTGGATCC---
CCTCGAG-CTCCTAAGATACCG--GCCACAG--CTC 29496
gi | 194719394 | ref | NC_007316.3 | N      AGGTTTCCTCAGTG
TATCGAGTGTCTAGAGCTGCTG--AACAAAGTATTA 36735
gi | 149361523 | ref | NC_000074.5 | _      CCCAAAGCCCAAAC
CAAGAAAACCCACAGGGGTGTG----- 28621

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gi | 51473102 | ref | NT\_010498.15 | \_ CTACCAAGGGAGTA  
CATAATAAGCCAGTGAAG-----AACAAAGATGA 45446  
gi | 114795057 | ref | NC\_006483.2 | N CTACCAAGGGAGTA  
CATAATAAGCCAGTGAAG-----AACAAAGATGA 49631  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGGCATCAGAGC-  
----CAACAAATG-----AAGAAG 29524  
gi | 194719394 | ref | NC\_007316.3 | N CATACTTAGGGGCG  
TAAACAACACAAGTGTATTATCTTGCAGTCTGGAGG 36785  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCAGGGGGA  
GATGGGAAGCAAG-----GACAGC 28649

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTTGGAATTGTCC  
AGGTACACAAAAGCCAAAAAATACTGGAGGCCACCA 45496  
gi | 114795057 | ref | NC\_006483.2 | N CCTTGGAATTGTCC  
AGGTACACAAAAGCCAAAAAATACCAGAGGCCACCA 49681  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACACGCACGCGC  
ATCTACGATTTATGTGACTGATG-----ATCTGATC 29569  
gi | 194719394 | ref | NC\_007316.3 | N TCAGACTCAAATC  
AGTTTCACTGGGTGGAAATCAAGGCGTTGGCAGGAC 36835  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTGAGTATCACCA  
GGTGGCCCTGACAGGACACTGAAG-----GCAGGG 28693

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gi | 51473102 | ref | NT\_010498.15 | \_ AAACAAATAAAAAA  
CCCCACTGAGATGTAATAGTGACTGGTAGAAGGGTG 45546  
gi | 114795057 | ref | NC\_006483.2 | N AAACAAATAAAAAA  
CCCCACTGAGATGTAATAGTGACTGGTGAATTGTG 49731  
gi | 73957561 | ref | NW\_876316.1 | Cf TTAAGTTTAAGTAT  
CAAATCTTGGCCTTTCAAGTGAATAGTATGCATTAT 29619  
gi | 194719394 | ref | NC\_007316.3 | N TGTATTCCCCATTC  
CCAAGCTTCAGGGGAAAATTGGTTCCCTTGCATTTT 36885  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGACACTGAAGGA  
CGAGCCTGTGGGGCAGCAGGAGTGAGCCTGGTGTCC 28743

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGACAACCCTAAA  
TAGCTGTCGATCAGGCTGACATTTAGAGAGGAGGTG 45596  
gi | 114795057 | ref | NC\_006483.2 | N AGGACAACCCTAAA

TAGCTGTCGATCAGGCTGACATTTAGAGAGGAGGTG 49781  
gi | 73957561 | ref | NW\_876316.1 | Cf TAACGTGCCCGG--  
-----AAGTCATTTCTAAAAGGTGATTTTATGTT 29660  
gi | 194719394 | ref | NC\_007316.3 | N TTAGCTTCCAGGGT  
CGCCACATTTCTTGCCCTCGTACCCCTGAATCACTC 36935  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGGCCACAAAGAA  
TGGAAAACCTGATTTGCGCAGGGCACAAGGAAATGAT 28793

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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTTAAGCTGAG  
-GCCTGAGGAAGAGGAGCCTGCCATGGGAGGAGCTG 45645  
gi | 114795057 | ref | NC\_006483.2 | N ACATTTAAGTTGAG  
-GCCTGAGGAAGAGGAGCCTGCCATGGGAGGAGCTG 49830  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAGCACAGCGGTG  
-GCAGGCAGGT-TGGTAGAACTCAAAGAATGAG--G 29706  
gi | 194719394 | ref | NC\_007316.3 | N CAACCACTGCTTCT  
-GTCTTTGTAT-TTCCTTCTCTCAGACACCGCTCTG 36983  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTCATAGCAAGG  
GATCAGAGTGAGGGTGGATTGACATGGTGCTATGGG 28843

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGGAGCAACAGGT  
ATATCTCTGGCAGGTGCTCTTGGCTACAAGGAACAG 45695  
gi | 114795057 | ref | NC\_006483.2 | N AGGGAGCAACAGGT  
ATATCTCTGGCAGGTGCTCTTGGCTACAAGGAACAG 49880  
gi | 73957561 | ref | NW\_876316.1 | Cf AAACCTCTCTCTCG  
AGCCCGCAGCAAATGTCCACTCGTGTCTCAAAACCT 29756  
gi | 194719394 | ref | NC\_007316.3 | N ATTCCCCTCTCATA  
AGGACCCTTTTTTAAAATCAGTTGATCTCTTTTTTCT 37033  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTGGGCTTGCCGC  
CTTGCTCTGACTGCCTTCCCTAGAGACG----- 28885

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGTCCAGTTGCA  
CAAACGCCAAGAAAAGTATATTGTCTCATAGCCAGG 45745  
gi | 114795057 | ref | NC\_006483.2 | N AAAGTCCAATTGCA  
CAAATGCCAAGAAAAGTATATTGTCTCATAGCCAGG 49930  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTGTTCTGGAACA  
TGCCTG--TGCCTAAGCCAGTCATGGGAGAGGGCGG 29804

gi | 194719394 | ref | NC\_007316.3 | N TTTTTTAATTAATT  
TATTTGGCTGCCCCAGGTCTTAGTTGTGGCATGAGG 37083  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAAGATGGCTGCCAGAGCTCTGGC 28910

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gi | 51473102 | ref | NT\_010498.15 | \_ GATCTGAGGTGGGA  
GCCGTGGGGTTAGTTAATTCAGGAGAGCACCCAGGG 45795  
gi | 114795057 | ref | NC\_006483.2 | N GATCTGAGGTGGGA  
GCCGTGGGGTTAGTTAATTCAGGAGAGCACCCAGGG 49980  
gi | 73957561 | ref | NW\_876316.1 | Cf GATCACCTGACGG  
TCTCACTG-----AGTCAGGACCCACTCCCTAG 29846  
gi | 194719394 | ref | NC\_007316.3 | N AATCTTTTAGCTGT  
GCCATGTGG-----GATCTAGTTCACTAACCAGGG 37127  
gi | 149361523 | ref | NC\_000074.5 | \_ CATCACAG-----  
-----TCACAAACACTGA 28931

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gi | 51473102 | ref | NT\_010498.15 | \_ CGTGGTTCTTTCAC  
CTCCTTACCCTGCCACCTTGTGCCCACTGGGGTTGC 45845  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGCCCTTTCAC  
CTCCTTACCCTGCCACCTTGAGCCCATTTGGGGTTGC 50030  
gi | 73957561 | ref | NW\_876316.1 | Cf AACAGACAG-----  
--CTGTGGAGG-----GGGAGGGGTG----GAT 29877  
gi | 194719394 | ref | NC\_007316.3 | N ATCGGCCCTGGGGC  
CCCTGCATTGG-----GATCGTGGAGTCCTGAC 37169  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAG-----  
-----A 28936

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTGGTTCTTGGCT  
GGCTCTCCTCATGATCCCAGATGGCTGCCACAGCTC 45895  
gi | 114795057 | ref | NC\_006483.2 | N ATTGGTTCTTGGCT  
GGCTCTCCTCATGGTCCCAGATGGCTGCCACAGCTC 50080  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCTGAACAAGAGT  
G--AGTTCTGTAAACAAAGAAGAGGG----- 29915  
gi | 194719394 | ref | NC\_007316.3 | N CTCTGGACCAGCAG  
GGAAGTCCCTGTAATGACATTTAGGGGCCCC--A 37216  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGTGTACAGGGGA



gi | 51473102 | ref | NT\_010498.15 | \_ TACCTAAGCCAATC  
AAGGGCAGGGGTCTTAGCCAGGCATGACCCACTCCC 46095  
gi | 114795057 | ref | NC\_006483.2 | N TACCTAAGCCAATC  
AAGGGCAGGGGTCTTAGCCAGGCATGACCCACTCCC 50280  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCAAG-----  
-----GGGGCCTTAGCAGAGCCTTT----- 30066  
gi | 194719394 | ref | NC\_007316.3 | N TTCAACCCCCCACC  
CT---CAAAGCCCTCCTCTAAGCCTCTCCTCCTTCC 37408  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGGCCTAAGCTAAATCAAGTCTCCTGCC 29115

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGAGCACGTGGCT  
GTGGGGAGAGGGTGGATACCTCAACAAGATCAAATT 46145  
gi | 114795057 | ref | NC\_006483.2 | N CAGAGCACGTGGCT  
GTGGGGAGAGGGTGGATACCTCAACAAGATCAAATT 50330  
gi | 73957561 | ref | NW\_876316.1 | Cf -----G  
GGATTGAATCCAAGGTCCTCGAAAGTCATTAGAAG- 30102  
gi | 194719394 | ref | NC\_007316.3 | N CTGCTTGCCTG-AG  
GGCACCCCTCCCAAATCCCTGTCAGTCAGTCAACAG 37457  
gi | 149361523 | ref | NC\_000074.5 | \_ AGG-----AG  
GAAGGGGGTTCTTAGGCCATCTGTCAAGGTCTACA- 29155

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gi | 51473102 | ref | NT\_010498.15 | \_ CCATTAACAAGGAA  
GAGGGGAATTTCTGCTCCTGCATTTGAGGTCTGCAA 46195  
gi | 114795057 | ref | NC\_006483.2 | N CCATTAACAAGGAA  
GAGGGGAATTTCTGCTCCTGCATTTGAGGTCTGCAA 50380  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTTGGAG  
CAGGAGGGAGCTGGGATCTGATTCTTG---CATTT- 30141  
gi | 194719394 | ref | NC\_007316.3 | N ATATTTCTGGGTA  
CTGCTGCGTGCCAGGACCTGTGCTATG---CTGAGG 37504  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAGACC  
CAAGACCATGAAAGGGGGTGTGTTTAA----- 29188

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCCCTGAGGCCA  
GAAGGAGCCTGTGCGTTTAAGGGGGCTGGATGGAAT 46245

gi | 114795057 | ref | NC\_006483.2 | N AGCCCCTGAGACCA  
GAAGGAGCCTGTGTGTTTAAGGGGCTGGATGGAAT 50430  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TAAGAGCT  
TTCTG-GCCACTGTGTAGGTGA-----CAAA 30174  
gi | 194719394 | ref | NC\_007316.3 | N AGGCAGTGAGAACA  
GACGAGACCTCTGCTTTTATAG-----CCTG 37544  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCCT  
GAGTGGAACCAGGAATGGTAGG-----AGGTA 29220

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGATGGGAGCTGC  
AGGAGGCTGGCTGGCCGTGGAGGAGATCTTTGAGTT 46295  
gi | 114795057 | ref | NC\_006483.2 | N GAGATGGGAGCTGC  
AGGAGGCTGGCCGGTCGCGGAGGAGATCTTTGAGTT 50480  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGAAGGGGGCCAG  
AGGTG-----GGGCAGGAGTACAG----- 30207  
gi | 194719394 | ref | NC\_007316.3 | N GAGTGATAGGCGAC  
ATCCA-----CCACAGGGAAGCTTGTGGGA 37583  
gi | 149361523 | ref | NC\_000074.5 | \_ GACCAGATGGCAGA  
TTTTTG-----TGGGGGTTGCCT----- 29252

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTACCAGGGTCA  
TGGGAAAGCCATCGGAGGGTTTGGAGCAGGAGGGGG 46345  
gi | 114795057 | ref | NC\_006483.2 | N TGGTACCAGGGTCA  
TGGGAAAGACATCGGAGGGTTTGGAGCAGGAGGGGG 50530  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGGGGCT  
GCAG--CATCCAAGGGGCGGGGGACGTGTG----- 30243  
gi | 194719394 | ref | NC\_007316.3 | N AAAGCCCAGGGGAT  
TCTGGACTTCCCAAACAGGACAGACTTGACTGGCCC 37633  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCAAGGCC  
ATGAGAAGCCACTGGAGGGTTCGGGACAGG----- 29290

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGGGATCTGGTTT  
GGGGTTCTAAGAG--CGCTCCAGCTGCCATATGCAG 46393  
gi | 114795057 | ref | NC\_006483.2 | N TTGGGATCTGGTTT  
GGGGTTCTAAGAG--CGCTCCAGCTGCCATATGCAG 50578  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GTAGGCCAGCA

GG-----TGGAGCCTGTGCATG--GAACCG-CATG 30281  
gi|194719394|ref|NC\_007316.3|N ACTGCAGTCACAGA  
GGGCTTCCTGGAAGCAGTGCCTTTTGAGCCGTTCTG 37683  
gi|149361523|ref|NC\_000074.5|\_ -----  
-----AAGGAGCTTGTCTAGTTCTCCCTAGCTG 29319

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gi|51473102|ref|NT\_010498.15|\_ GATGGGTTGAAGGG  
GCCAGGTCGGAGGTCAGAGTCAGCTGGGACGGGCAA 46443  
gi|114795057|ref|NC\_006483.2|N GATGGGTTGAAGGG  
GCCAGGTCGGAGGTCGGAGTCAGCTGGGAAGGGCAA 50628  
gi|73957561|ref|NW\_876316.1|Cf CATTGTTCTGGCA  
CTGCTGTGAGGAGGGCTCCTGGCCACTGGGAAGGA 30331  
gi|194719394|ref|NC\_007316.3|N GAATGGACGTGGAT  
CAGCTGTTCTAGGCAGAGGAGACCCAAGCTGGGTGC 37733  
gi|149361523|ref|NC\_000074.5|\_ CTGAGCTAGGG---  
-----AACTAGAGGAGAGGACATCTGCAGTAGAAGC 29361

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gi|51473102|ref|NT\_010498.15|\_ GCGGCGGTGGTGTG  
GGGGATTCCATTTGGAGCCTGTACGGAAGCATATCC 46493  
gi|114795057|ref|NC\_006483.2|N GGGGCGGTGGTGTG  
GGGGATTCCATTTGGAGCCTGCACGGAAGCACATCC 50678  
gi|73957561|ref|NW\_876316.1|Cf AGGTCCCAGGCTTC  
TCCGGCACTTACAATGCTCCCTACC-CCACCCACCC 30380  
gi|194719394|ref|NC\_007316.3|N TCAGCCCTGACTTG  
GAAGCCAGATGCACTGCACCTTTCAGCTGCCCGAAG 37783  
gi|149361523|ref|NC\_000074.5|\_ TTGTGTCCAGACAG  
-----TTATAGGTGACCAGGCACTGAGGAGGGACA 29405

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gi|51473102|ref|NT\_010498.15|\_ GTAGTCTGAGGGCA  
GCTGGTCATGGCCCTGCGGGAATGGAGGTCCTGGGC 46543  
gi|114795057|ref|NC\_006483.2|N GTAGTCTGAGGGCA  
GCTGGTCATGGCCCTGCGGGAATGGAGGTCCTGGGC 50728  
gi|73957561|ref|NW\_876316.1|Cf CCCATCAGCTCTGA  
TGAGGCTCT-TCCATGCTGAGGGCTGGAGATG--GC 30427  
gi|194719394|ref|NC\_007316.3|N CGCATCTTCACACA  
GGAGGGCCG-TTCCTGCCAT---CTGGAACCT--AC 37827



gi | 149361523 | ref | NC\_000074.5 | \_ GGCTTCCTAGGCAC  
TGAAGCTGTCCCCTTGATGG-----CATCCTTCCC 29449

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTCCCAGCTGT  
GATAAGGCTCTGCCATCCCTGACTTCCTGAGACAGA 46593

gi | 114795057 | ref | NC\_006483.2 | N TTCCTCCCAGCTGT  
GATAAGGCTCTGCCATCCCTGACTTCCTGAGACAGA 50778

gi | 73957561 | ref | NW\_876316.1 | Cf TCTCCATTACCAG-  
-----AGTGGTGTCTTCTCTGAGG-ACAGAAGTGCT 30470

gi | 194719394 | ref | NC\_007316.3 | N TTCCCACCAGCAGG  
ACTTAGCTGTTCTCATTCTGAGG-CCTCAGCCCCA 37876

gi | 149361523 | ref | NC\_000074.5 | \_ TCCCGGCCTCCAAG  
GCAG-GGCAGTATGTTCTCTCAGTGTCAAAGTGG-- 29496

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGCACCCTGAG  
TGCTGTGTGCTCTGAGGACAAAACCTCTGCCGGCTGC 46643

gi | 114795057 | ref | NC\_006483.2 | N CCCTGCACCCTGAG  
TGCTGTGTGCTCTGAGGACAAAACCTCTGCCGGCTGC 50828

gi | 73957561 | ref | NW\_876316.1 | Cf GCTAG-----  
-----CTCCTGGTTCCATTAAGGAAGCTTTAGA 30503

gi | 194719394 | ref | NC\_007316.3 | N ACCCGTCCCCTCCC  
CACCGGCCTCCCTGATCCCTCTCCTGAGGCGTCACC 37926

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----GTTTTCCCAGGTGCCATTTGGAGGCCACTGAC 29528

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTTGGAGGCTTTA  
GAACTGCTGACCTTGCCCCAGGAG--CCTCCCTGG 46691

gi | 114795057 | ref | NC\_006483.2 | N ATTTGGAGGCTTTA  
GAACTGCTGACCTTGACCCCAGGAG--CCTCCCTGG 50876

gi | 73957561 | ref | NW\_876316.1 | Cf G-----CTGCTGAC  
TTGCCCTACGGAAGCTTCCAGAGG-----CCAT 30541

gi | 194719394 | ref | NC\_007316.3 | N T-----CCCCT-CC  
CTCCCCCACCCTGGATTCTGCTGTTTCATTCCAGT 37970

gi | 149361523 | ref | NC\_000074.5 | \_ TAG--ATGGCTTCC  
TTCCGCCTACTGAACCTTCCAGAGG-----CAGTA 29570

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCATGTGGCCCAC  
GTGGTT-----TCCAGGCAGGGTAAACAGCAA 46732  
gi | 114795057 | ref | NC\_006483.2 | N GGCATGTGGCCCAC  
CTGGTT-----TCCAGGCAGGGTAAACAGCAA 50917  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGCTCTGCCTTG  
TT-----TCCAGGCAGGGTAAACAGTGG 30578  
gi | 194719394 | ref | NC\_007316.3 | N GTCAC TTTGCTTTC  
CTGTTTATTGCTCAGTTCAGTTCAGTCGCTCAGTCG 38020  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCTCGTTTCTCAG  
G-----AGACCCAGGGTCTTTCAG 29603

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCCTCATCTTTC  
AGA-----TGTGGCCCAGGGATGCCCAGAAA 46772  
gi | 114795057 | ref | NC\_006483.2 | N TGGCCTCATCTTTC  
AGA-----TGTGGCCCAGGGATGCCCAGAAA 50957  
gi | 73957561 | ref | NW\_876316.1 | Cf TAGCCCCATTTTTTT  
CAG-----ATGAGGTCCCGGGTCCCCCAGAAG 30619  
gi | 194719394 | ref | NC\_007316.3 | N TGTCCGACTCTTTG  
CGACCCCATGGACTGCAGCCACCAGGCCTCCGTGTC 38070  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGCTGTCTTAGTC  
AGG-----GTTTCTATTCCT 29632

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACATACTTTCTC  
TAAAGTCTTATAGGATATG-----TTAATTTCAAAA 46817  
gi | 114795057 | ref | NC\_006483.2 | N CCACATACTTTCTC  
TAAAGTCTTATAGGATATG-----TTAATTTCAAAA 51002  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACACACTTTTCC  
AAAAGTCTTCTAGGGTATG-----AGAATTTAAAA 30663  
gi | 194719394 | ref | NC\_007316.3 | N CATCGCCA ACTCCC  
AGAGTACACTCAA ACTCATGTCCATTGAGTCAGTGA 38120  
gi | 149361523 | ref | NC\_000074.5 | \_ ACACAAACATGACC  
AAGAAGCAAGTTGGGGAGG----AAAGGGTTTATTC 29678

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gi | 51473102 | ref | NT\_010498.15 | \_ TAATAACACCCCAA



gi | 73957561 | ref | NW\_876316.1 | Cf TGCAG-----  
CATAAGAGAAGGAAAG----- 30821  
gi | 194719394 | ref | NC\_007316.3 | N TTCAGGACTGATTT  
CCTTCAGGATGGACTGGTTGGATCTCCTTGCAGTCC 38318  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCAG-----  
-CTTGCTTTCTTATAG----- 29827  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----CTCCAG  
CACCTGCTTGCTCGAGAACTGGTTCCTGGTGATGTC 47014  
gi | 114795057 | ref | NC\_006483.2 | N -----CTCCAG  
CACCTGCTTGCTCGAGAACTGGTTCCTGGTGATGTC 51199  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTCCAG  
CACCTGCTTGACGAGACCTGGTTCCTGGAGACATT 30863  
gi | 194719394 | ref | NC\_007316.3 | N AAGGGACTCTCAAG  
AATCTTCTCCAACACCATAGTTCAAAGCATCAATT 38368  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AACCCA  
AGACTGCCAGCCCAG-GGATGGCACCACCACAATG 29868

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gi | 51473102 | ref | NT\_010498.15 | \_ GSTATCTCTCTCG--  
----ATCGGAGACCGGATCCCTGCAGACATCCGACT 47058  
gi | 114795057 | ref | NC\_006483.2 | N GSTATCTCTCTCG--  
----ATCGGAGACCGGATCCCTGCAGACATCCGACT 51243  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGTCCCTCTCTCG--  
----ATTGGAGACCGCATCCCTGCAGACATACGTCT 30907  
gi | 194719394 | ref | NC\_007316.3 | N CTTCAGCACTCAGC  
TTTCTTTATAGTCCAAATCTCA-CATCCATACATGA 38417  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCCCTCCCTGCTT  
G--ATCACTAATTGAGAAAATGCCTTACAGCTAGAT 29916

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTGAGGTGAGTG  
GTTCCAAACCCTTGTCAATGGGGTATTTGATGGAGC 47108  
gi | 114795057 | ref | NC\_006483.2 | N CACTGAGGTGAGTG  
GTTCCAAACCCTTGTCAATGGGGTATTTGATGGAGC 51293  
gi | 73957561 | ref | NW\_876316.1 | Cf CACCGAGGTGAGAG  
GTCCTGAAGCCTGGTCTGTG----- 30941  
gi | 194719394 | ref | NC\_007316.3 | N CTACTGGAAAAACC

ATAGCCTTGACTAGACAGAC----- 38451  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCATGGAGGCATT  
TCTTCAAGGGAGGCTCCTTT----- 29950  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTCAAGGAGCAG  
ACACTTAGCTAATTGTAGGCATGTATAGTCTCTCTC 47158  
gi | 114795057 | ref | NC\_006483.2 | N TGGTCAAGGAGCAG  
ACACTTAGCTAATTGTAGGCATGTATAGTCTCTCTC 51343  
gi | 73957561 | ref | NW\_876316.1 | Cf ----CGATGTGCAG  
ACACTTAGCTTATTGGAGGCAAGCATTCTCTTGC 30987  
gi | 194719394 | ref | NC\_007316.3 | N ----TTTTGTTGGC  
AAAGGTCCTTCACAAAGGCAGGGAGTTTGTCTGTC 38497  
gi | 149361523 | ref | NC\_000074.5 | \_ ----CTTTGTGATA  
ACTCTAG-----CTCATGTCAAGTTGACACAGAGAA 29991

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gi | 51473102 | ref | NT\_010498.15 | \_ ATACACACATGCTC  
AAACATACATGCACATGCATACACACAAGACAGGAA 47208  
gi | 114795057 | ref | NC\_006483.2 | N ATACACACGTGCTC  
AAACATACATGCACATGCATGCACACAAGACAGGAA 51393  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTCTCTCTTGCAC  
TCTCTCTCTCTCTTGGCTCACATACACACACACACAC 31037  
gi | 194719394 | ref | NC\_007316.3 | N TTGGTCACTACTGG  
ATTCCCAGGGCCCAGAAAGGCCTGGCCTTTGGCA 38547  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAGCCAGTACAGT  
AGCCATGCCTTCTCAAAGCATTCTTGGAGATCAAGACT 30041

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTAGCAGACAAGC  
GTGTTCTACGCATAGAGCCCCTCAAACCATATTTCA 47258  
gi | 114795057 | ref | NC\_006483.2 | N ATTAGCAGACAAGC  
GTGTTCTACGCATAGAGCCCCTCAAACCATATTTCA 51443  
gi | 73957561 | ref | NW\_876316.1 | Cf ATACACACACACAC  
AG-GTGTGCTCATAATGCACATACACAAGACATGA 31086  
gi | 194719394 | ref | NC\_007316.3 | N GGAGACAGATGGAC  
AG-ATAGCCACCTCCATTCAGCATATCCAAACCCA 38596  
gi | 149361523 | ref | NC\_000074.5 | \_ TTACAAAGTAGGGC  
TGTAAGTCTGGAGAGTCTGCCTGCAATAAAAATGC 30091

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAATTGTCATCCT  
CACTTTAAGCCTGACAACCTTTGGCTATACGATTTT 47308  
gi | 114795057 | ref | NC\_006483.2 | N TAAATTGTCATCCT  
CACTTTAAGCCTAACAACCTTTGGCTATATGATTTT 51493  
gi | 73957561 | ref | NW\_876316.1 | Cf AATTAG--CAACCA  
AGCTAATTTTATCACAAGG--CCCCT-----CAAAT 31127  
gi | 194719394 | ref | NC\_007316.3 | N CACCCA--CCTCCC  
TGCCTGCATCCTCACCCCT--TCCCAGTCCCCTAAC 38642  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAGTGATCTTTTC  
ATCTAGTTGTCAGAGGGTG-----AAATGG 30130

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGTTTAAAGCAG  
GCTGCAATAACAAATTAACCAAGGTGGGCTTGGGG 47358  
gi | 114795057 | ref | NC\_006483.2 | N CCAGTTTAAAGCAG  
GCTGCAATAACAAATTAACCAAGGTGGGCTTGGGG 51543  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTATTTTCATAAAT  
TGTTTATTTCCCA----TTTTTCAGTAAAAGCCT---- 31169  
gi | 194719394 | ref | NC\_007316.3 | N GCCCATTGTTCCTG  
TTTTTCTGGCCAGCTGTCTTCAAGGGAGGCAT---- 38688  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGTCACCATGCTG  
TCCCCTTTTCCATGCAGCCTGAGAGACGGCAA---- 30176

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gi | 51473102 | ref | NT\_010498.15 | \_ AATGATGTGAGAGT  
TGCCTCTCAAACAGACACACAAGTGTTAGAAAGAA 47408  
gi | 114795057 | ref | NC\_006483.2 | N AATGATGTGAGAGT  
TGCCTCTCAAACAGACACACAAGTGTTAGAAG--- 51590  
gi | 73957561 | ref | NW\_876316.1 | Cf --AACAAAGTTTGG  
CTACGTGAGTTTCTGGTTTACAG----- 31204  
gi | 194719394 | ref | NC\_007316.3 | N --CTTTGTCTCATC  
TCTCTCTCCTTTCTCTTTTAAAGA----- 38725  
gi | 149361523 | ref | NC\_000074.5 | \_ --ACTCCGGCACAT  
GCTCGCACGAGACCTGGTTCCAGG----- 30212

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGATATTAGAGGC  
GGGTGGATCACTTAAGGTCAGGAGTTCAAGACCACC 47458  
gi | 114795057 | ref | NC\_006483.2 | N -TGATATTAGAGGC  
GGGTGGATCACTTAAGGTCAGGAGTTCAAGACCAGC 51639  
gi | 73957561 | ref | NW\_876316.1 | Cf -CGACTACAGTAGC  
AAATTGTTGGAG-----GTGTTGGAAATTGGG 31244  
gi | 194719394 | ref | NC\_007316.3 | N -AAAAAACAGACTC  
TATTTCTTAAAGTCTTTTCTTTTGTGACCATGCC 38774  
gi | 149361523 | ref | NC\_000074.5 | \_ -AGACATTG-----  
-----TGTCCTTGTCCATG-- 30234  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGCCAACATGGT  
GAAACTCTCTACTAAAAATACAATAATTAGCTAGGC 47508  
gi | 114795057 | ref | NC\_006483.2 | N CTGGCCAACATGGT  
GAAACTCTCTACTAAAAATACAATAATTAGCTAGGC 51689  
gi | 73957561 | ref | NW\_876316.1 | Cf GCG--GGGG----G  
GACTCTGGGTTTCACATCCTTGCCCTGCATCTCCCA 31288  
gi | 194719394 | ref | NC\_007316.3 | N ATG--CAGCTTATG  
GGATCTTAGTTCCCCGACCATCACCATGACCCATCC 38822  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GG  
AGATCGGATCCCTGCTGACATCCGACTCACCGAGGT 30272  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATGGTGGCATGTGC  
CTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAA 47558  
gi | 114795057 | ref | NC\_006483.2 | N ATGGTGGCATGCGC  
CTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAG 51739  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGTGACTTTGGA  
AAGGA---TCAGCT-----ATTCTGGG 31321  
gi | 194719394 | ref | NC\_007316.3 | N CTGTTGATACTGAC  
CTTGA---TCAGCTGG-CTGAAGTCTGTTTTCTTAC 38868  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGCTTGCTTGACA  
CTGTAG--CCTGCA-----TACAGT 30304  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATCACTTGAACCC  
GGGAGGCGGAGGTTGCAGTGAGCCGAGACCACGCCA 47608  
gi | 114795057 | ref | NC\_006483.2 | N AATCACTTGAACCC

GGGAGGCGGAGGTTGCAGTGAGCCGAGACCACGCCA 51789  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTGATTTCTCA  
TCTATGAAAGGGGCCACCATTCATCTTACCTTGAGG 31371  
gi | 194719394 | ref | NC\_007316.3 | N ATTTTAATGTATCA  
CCAATTAATAGGGTGCAGATGACACCACCCTTATGG 38918  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTTTGTCTGACG  
AGCAGGCAGTGCGGGCATAAGACCCACATCTACCA 30354

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCACTCTAGCCT  
GGGCAACAGAGCGAGAAGCACACGCTTTTAGAGTAG 47658  
gi | 114795057 | ref | NC\_006483.2 | N CTGCACTCTAGCCT  
GGGCGACAGAGCGAGAAGCACACGCTTTTAGAGTAG 51839  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGTAAG--ACCTG  
GAGCTGCTCAGCCCAGTGCTTAGTGTGACATGAGTG 31419  
gi | 194719394 | ref | NC\_007316.3 | N CAGAAAGTGAAGAA  
GAACTGAAGAGCATCTTGATGAAAGTGAAAGAGGAG 38968  
gi | 149361523 | ref | NC\_000074.5 | \_ TTACCAAGCAGCTT  
ACTCTTCTAAGAACAGAGCTTCTCCCGGCTGTGTGG 30404

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGGTTTGGGGAC  
ATTGGCTGTGGGGCAAGCTTCGTGGGTCTCTGGGTG 47708  
gi | 114795057 | ref | NC\_006483.2 | N TGAGGTTTGGGGAC  
ATTGGCTGTGGGGCAAGCTTCGTGGGTCTCTGGGTG 51889  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----TCACCGC  
ATATCAGCAGTG---GCTTCAGAAGCTCCT--TCC 31457  
gi | 194719394 | ref | NC\_007316.3 | N AGTGAAAAAGTTGG  
CTTAAACTCAG---CATTCAGAAAATAAGATCA 39014  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCCATTCAGAT  
TGTTACCCATGG---TCAACAATGGTCCAAAATAT 30450

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACAGCTTCACAG  
AGCCATGCCTGAGGCACTCTGCTGAGATTATCCTGG 47758  
gi | 114795057 | ref | NC\_006483.2 | N TCACAGCTTCACAG  
AGCCATGCCTGAGGCACTCTGCTGAGATTATCCTGG 51939  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGCTTCTTCAACA  
GTCCCTG-----AAACAGTTTTTAAGGCCCTGG 31499



gi | 194719394 | ref | NC\_007316.3 | N TGGCATCTGGTCCC  
ATCGCTTTAT--GGCAAATAGATGGGGAAACAGTGA 39062  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGTAATCGTCTTC  
TCTCTTG-----AGAGAGAGTGACACAGA 30488

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCCCAAGAGGTT  
ACATCAAGTTCACCATGATTTGTTGATGGGAGTAAT 47808  
gi | 114795057 | ref | NC\_006483.2 | N GTTCCCAAGAGGTT  
ACATCAAGTTCACCATGATTTGTTGATGGGAGTAAT 51989  
gi | 73957561 | ref | NW\_876316.1 | Cf GTAACCTGCATTTCC  
ACGATTTTTTCTCCTG----- 31529  
gi | 194719394 | ref | NC\_007316.3 | N GAGACTTCATTTTT  
TGGGG--CTCCAACAT----- 39090  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGACAGAAGAGAC  
AGACAGAGACAAAGAG-----A 30519

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gi | 51473102 | ref | NT\_010498.15 | \_ CTATTTCAAGAATC  
TTTCCAAGAATGTGTAAGGACTGTTCAAAGCTTTGC 47858  
gi | 114795057 | ref | NC\_006483.2 | N CTATTTCAAGAATC  
CTTCAAG-AATGTGTAAGGACCGTTCAAAGCTTTGC 52038  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCTGCTTAGGTTA  
AATTCAGTTGT-----ACCTGCTATTGACACCAC 31572  
gi | 194719394 | ref | NC\_007316.3 | N CACTGCAGATGGTG  
ACTGCAGCCATGA-AATTAAGACACTTACTCCTT 39139  
gi | 149361523 | ref | NC\_000074.5 | \_ CCATTTATTATAAT  
CTTTTAGTTGAGTATCCTCTAGGGAGCTGGGAACAT 30569

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGATGAAGAATTA  
GACACAGATTATCTGCCTGATTTATTTACTGATGGG 47908  
gi | 114795057 | ref | NC\_006483.2 | N ATGATGAAGAATTA  
GACACAGATTATCTGCCTGATTTATTTACTGATGGG 52088  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAATG-----CT  
TTCTTCCGTCTCCCCCTT--GGTATTTTGCAAT--- 31611  
gi | 194719394 | ref | NC\_007316.3 | N GGAAGGGAAGTTAT  
GACCAACCTAGACAGCAT--ATTAAGAGCAGAGAC 39187  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----

GCCCCATGGCTGAGGGGGGATGGGAGCAGCCAGCAC 30606

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGCATTCTCAGGA  
 ACTGTAGGATCAAGGACCCGCTATTAAGAGGGCAGC 47958  
 gi | 114795057 | ref | NC\_006483.2 | N ATGCATTCTCAGGA  
 ACTGTAGGATCAAGGATCCGCTATTAAGAGGGCAGC 52138  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----TCC  
 ACTGAACAATCAA----TAGCTTT-----GTTGA 31639  
 gi | 194719394 | ref | NC\_007316.3 | N ATGACTTTGCCAAC  
 AAAGGTCCATCTAGTCAAAGCTAT-----GGTTT 39230  
 gi | 149361523 | ref | NC\_000074.5 | \_ AAGCCTAACATGGA  
 ATTTTGGAAATTTTGTGTATTTTATG-----TGCAAG 30651

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCAGGGAAGCGGA  
 TGGAGAAGAGCACAAAGGGTTGGAAGCTACCCCCTG 48008  
 gi | 114795057 | ref | NC\_006483.2 | N ATCAGGGAAGCGGA  
 TGGAGAAGAGCACAAAGGGTTGGAAGCTACCCCCTG 52188  
 gi | 73957561 | ref | NW\_876316.1 | Cf TTCACAGTGGGTTA  
 TTTG--TGTCAGCTATTAAATTCTG--AGATCCAGG 31685  
 gi | 194719394 | ref | NC\_007316.3 | N TTCCAGTAGTCATG  
 TATGGATGTGAGAGTTGGACTATAA--AGAAAGCTG 39278  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTCATGTGTGTGTG  
 TATGTGTGTGCGCGTACACATGTGT--ATGTGCATG 30699

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gi | 51473102 | ref | NT\_010498.15 | \_ GGACCTGGGTTTAC  
 AACATTCCTAGCCTGTCTGTGAAATAGGAGGCAGGG 48058  
 gi | 114795057 | ref | NC\_006483.2 | N GGACCTGGGTTTAC  
 AACATTCCTAGCCTGTCTGTGAAATAGGAGGCAGGG 52238  
 gi | 73957561 | ref | NW\_876316.1 | Cf AGAGCT-----  
 -----TTATGTGGAGTTG----- 31704  
 gi | 194719394 | ref | NC\_007316.3 | N AGTACTGAAGAATT  
 GATGCTTTTGG---AACTGTGGTGCTGGAG-AAGAC 39323  
 gi | 149361523 | ref | NC\_000074.5 | \_ TGAGCATG-----  
 -----GAAGCTGCTG----- 30717

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCAGGGCTTATGT  
GTGGCCACTCGGACATTGATCCTCTCTGCCGTGACC 48108  
gi | 114795057 | ref | NC\_006483.2 | N GCCAGGGCTTATGT  
GTGGCCACTCGGACACTGAGCCTCTCTGCCGTGACC 52288  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAAGTCACT  
TAGG-TCCAGG-----AAACAATAGGTTTCGTGAAA 31742  
gi | 194719394 | ref | NC\_007316.3 | N TCTTGAAAGTCCCT  
TGGATTGCAAGGAGATCCAACCAGTCAATCCTGAAG 39373  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AACCACC  
TTGGCTGTTATTTCTCAGACACTGTGTTTCCTTTTGC 30760

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCAGATTTCCAGG  
CAGGGCAGGGATAAGGGTGGGAGATGTTTCAGTTACC 48158  
gi | 114795057 | ref | NC\_006483.2 | N TTCAGATTTCCAGG  
CAGGGCAGGGATAAGGGTGGGAGATGTTTCAGTTACC 52338  
gi | 73957561 | ref | NW\_876316.1 | Cf ----GTTCTCT---  
-----AAGTTAG----- 31756  
gi | 194719394 | ref | NC\_007316.3 | N ----GAAATCAGCC  
CTGAATATTCATTGGAGGGACTGATGCTGA----- 39413  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGTGAGGGAGGG  
TTCGCCCTCGGGCTCAGGCTGGTGCCCTCTGTAGCA 48208  
gi | 114795057 | ref | NC\_006483.2 | N AAAGTGAGGGAGGG  
TTCGCCCTCGGGCTCAGGCTGGTGCCCTCTGTAGCA 52388  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--TAACCCAAATACTAGGCTTTTTTGCATGTGTGAG- 31789  
gi | 194719394 | ref | NC\_007316.3 | N -----  
--AGCTCAAACCTCCAATACTTGGGCCATCTGATACG 39447  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAGAGCTTGCCAAGTAGCCTCAACTGCCT 30790

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGATACAGATCC  
TCTGTGG-CCCCGCCTCTCCCCGTGTTTCAGCTCCA 48257

gi | 114795057 | ref | NC\_006483.2 | N CCAGAAATAGATCC  
TCTGTGG-CCCCCGCCCCTCCCCGTGTTTCAGCTCCA 52437  
gi | 73957561 | ref | NW\_876316.1 | Cf -GGTCACAAAACAT  
TCTCTCTTCCCATAGTTAAGACAAAGGCCAAGGCCT 31838  
gi | 194719394 | ref | NC\_007316.3 | N AAGAACTGACTCAT  
TTGAAAAGACCCTGATGCTGGGAAAGATTGAAGGCA 39497  
gi | 149361523 | ref | NC\_000074.5 | \_ GAACAGTTAGTCCC  
ACAGACCTGCCTGTCTGTCTCCCTAGCTCTGGGATT 30840

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGTCAGCGTCTG  
ACCCCAAGTCTGGGGTGCATGGATCCGGTCAGAGGA 48307  
gi | 114795057 | ref | NC\_006483.2 | N GCAGTCACCATCTG  
ACCCCAAGTCTGGGATGCATGGATCCGGTCAGAGGA 52487  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGGTGGGAGG---  
CTGACCTGGACTAGCCAGTAGAGCGGGGTCACTGCT 31885  
gi | 194719394 | ref | NC\_007316.3 | N GGAGGAGAAGGGGA  
CAACAGAGGATGAGATGGTTGGGTGACATCACTGAC 39547  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCATTGCACACTG  
CTGCCATGGCAGCAACTGCCTGCCGCCACCACTCCC 30890

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGGCTGTCTGTGG  
CCAATCCCCGCCTACAAGGAGGACTGGGGAAGCTGG 48357  
gi | 114795057 | ref | NC\_006483.2 | N ACTGCTGTCTGTGG  
CCAATCCCCGCCTGCAAGGAGGACTGGGGAAGCTGG 52537  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTTCCTTCTCT--  
CCCCTTCTGACATGAAAAGGGTGTGATGGGATC 31933  
gi | 194719394 | ref | NC\_007316.3 | N TAAATGGACATG--  
AGTTTGAGTAAACTCCGGGAGTTTATGGTTGGTGAT 39595  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTCCTCCTCCT-  
CCTCCCCCTTCTTCTTCTCCTCCTCCTCCTTCTTCT 30939

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTCACATTTTCCA  
CGTTTTCTTCTCCCAGAGAAGGGGGGTCCTAACAGG 48407  
gi | 114795057 | ref | NC\_006483.2 | N TCTCAGGTTTTTCCA  
CGTTTTCTTCTCCTGAGAAGGGGGGTCCTAACGGG 52587  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTCAGGGCTCCAA

GTAATGCT-TTGTCTCTGAGGTGGGAGACTGGCG-- 31980  
gi | 194719394 | ref | NC\_007316.3 | N GGACAGGGAAGCCT  
GGCATGCTGCAGTCCATGGGGTAGCAAAGAGTCAGA 39645  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCTCTTTTTCCT  
CCTCCCCTTTTTCCTCCT----- 30970  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGATGCTCCAGATG  
CCAG-GCAGCTTGTGAGAAGGACACAGGTCCGCCAC 48456  
gi | 114795057 | ref | NC\_006483.2 | N --ATGCTCCAGATG  
CCAG-GCAGCTCGTGAGAAGGACACAGGTCCACCAC 52634  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GGGTGTGAGGAGACAG 31996  
gi | 194719394 | ref | NC\_007316.3 | N CACAACCTGAACAAC  
TGAACCTGAACCTAATTAGTAGGGGTTCTTTCTGTGAA 39695  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTCCCTTCTTCCT 30984

gi | 51473102 | ref | NT\_010498.15 | \_ AAGGGCTGGTGCAG  
AGGCAGAGAGAGGCCGTATGAGAGGTGGCCAATGAC 48506  
gi | 114795057 | ref | NC\_006483.2 | N AGGGGCTGGTGCAG  
AGGCAGAGAGAGGCCGTATGAGAGGTGGCCAGTGAC 52684  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAGACACTTGTCT  
G-----CACATGAGCAGGAAG-TGAC 32030  
gi | 194719394 | ref | NC\_007316.3 | N AGATCCTCATGTTT  
GGGCAACCACTGCTGTCCTCCAGCTGGAAAGTGCC 39745  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTTCCTCTG----  
-----CCTCTTCTCCTTCCTTCCTC 31014  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGGGTTGGGCAT  
TAGCCTGGGCTTGAGCCCTGGGACCATCATTCAAAG 48556  
gi | 114795057 | ref | NC\_006483.2 | N CTGGGGCTGGGCAT  
TAGCCTGGGCTTGAGCCCTGGGGCCATCATTCAAAG 52734  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGATTG-----  
CCTTCAGGCCAG-----CCACCTCTGGGTG 32063  
gi | 194719394 | ref | NC\_007316.3 | N CCCATCTTATCAAT  
CCAACAGGCCACA---GAGGGTCCTCCTCTGAG-G 39791

gi | 149361523 | ref | NC\_000074.5 | \_ CCCCTCCTCCCCTC  
CCGCCTCCTCTCCT-----CCTCTTCCCCCTC 31055

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGTGAACCTTG  
AGCAAGTTAGTTAACCTCTCTGTGCCTCAGTTTTCT 48606

gi | 114795057 | ref | NC\_006483.2 | N CTTGTG-ACCTTG  
AGCAATTTAGTTAACCTCTCTGTGCCTCAGTTTTCT 52783

gi | 73957561 | ref | NW\_876316.1 | Cf GTCACTTGTATTGT  
GTGGCTTCTGTGCTTTG--ACTATTTTCAG-CCACT 32110

gi | 194719394 | ref | NC\_007316.3 | N CTCTGTGTTTCATGG  
GGCTCATCCTGCCATAGGAGGAAGCTGCAGTGACCC 39841

gi | 149361523 | ref | NC\_000074.5 | \_ CCCCTCCTTCTCTT  
CTTCCTTCTTCCCCCTCCCTCCTCCTCTTCTCCTT 31105

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gi | 51473102 | ref | NT\_010498.15 | \_ CATCTGCAAAATGG  
GGGGT----- 48625

gi | 114795057 | ref | NC\_006483.2 | N CATCTGCAAAATGG  
GGGGTGATGCCCATAGGGTACTGTGAGGAATCCACC 52833

gi | 73957561 | ref | NW\_876316.1 | Cf CA-----  
----- 32112

gi | 194719394 | ref | NC\_007316.3 | N CA-----  
----- 39843

gi | 149361523 | ref | NC\_000074.5 | \_ CCT-----  
----- 31108

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N ANNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 52883

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 53083

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NNTTCAGTTCTTCTGAAGGGGTCTACGATGTCGTGC 53133

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N AGCAGTCTGGAAGA  
CCCAGTCACCACAGGGTGGGCAAGCAGAGAGCGTAT 53183

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N GAGAGTGCCAGTGA  
CTGGGCTGGCATAGCCTGGGCTGAGCCTGGGCCATC 53233



gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N ATCAAACCTGTGAC  
CTGAGCAATTTAGTAACCTCTCTGTCTCAGTTTCTC 53283

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gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-GGTGATGCCCATAGGGTACTTGGGAGGATTACAGA 48660

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gi | 114795057 | ref | NC\_006483.2 | N ATCTGCAAAATGGG  
GGGTGATGCCCATAGGGTACTTGTGAGGATTACAGA 53333

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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCCCT-----CAGCTGACATGGTGC 32133

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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CACCATGTGGATCAAGATTAAACTCTGC 39871

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCCCCCTC 31116

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTCAGAGATGCC  
AAAAGTGCTCAGAACGGTGCCTGGCACAGGTGAGTG 48710

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gi | 114795057 | ref | NC\_006483.2 | N TCTTCAGAGATGCC  
AAAAGTGTTTCAGAACGGTGCCTGGCACAGGTGAGTG 53383

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gi | 73957561 | ref | NW\_876316.1 | Cf CTGGGAGGTCACCA  
GCCACTCCACTCCCTTGTGCCCACTCCAAAGCCTT 32183

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gi | 194719394 | ref | NC\_007316.3 | N CCTCTGACTGTTCA

CAGTCTAGCCTGCCCATCGCCCCGCCCCAGACCCTA 39921  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCTCCTCTTCA  
TCATTGTCTTCTCTCTTTTCTTCCCACATGGGTCTG 31166

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGGCAGGTGTGG  
GGGCTGCCGTACTGCAGTGTGTGTTGGAAGTCAGAG 48760  
gi | 114795057 | ref | NC\_006483.2 | N AGAGGCAAGTGTGG  
GGCCTGCCGTACCGCAGTGTGTGTTGGGAGTCAGAG 53433  
gi | 73957561 | ref | NW\_876316.1 | Cf CTG-----  
---CTGCAGATCTGAT----CTGACG-AGAACATCG 32214  
gi | 194719394 | ref | NC\_007316.3 | N TGAG-----  
AGAATGGATGCCTGTG----CTAAGAGAATGCAGCA 39957  
gi | 149361523 | ref | NC\_000074.5 | \_ GGACT-----  
-----CAGATCAGGT----CTTTGTGCTAGCAAGG 31197

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gi | 51473102 | ref | NT\_010498.15 | \_ AACCCCAGGCCCCA  
TAGCTCCTAGGGCGTGACTCGGGGAAGGAATTCAC- 48809  
gi | 114795057 | ref | NC\_006483.2 | N AACCCCAGGCCCCG  
TAGCTCCTAGGGTGTGACTCGGGGAAGGAATTCAC- 53482  
gi | 73957561 | ref | NW\_876316.1 | Cf GACTGTCATAATTA  
CAGCTCCTGG--ATTCAGTCAATGGAGGGGTTCCCT 32262  
gi | 194719394 | ref | NC\_007316.3 | N GAATCCATCTCTGA  
CATGACCTAGGCTGTGGGGCCTGGGGCAAGTTTCCG 40007  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAGCATTTTACCA  
ACTAAATTATCTCCTCACTCAGGGTATGTGATTTA- 31246

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gi | 51473102 | ref | NT\_010498.15 | \_ ---CTCTCTGAGCT  
TCGATCTCCTCATCTCTAAAAGGGGCTGATGTTGGT 48856  
gi | 114795057 | ref | NC\_006483.2 | N ---CTCTCTGAGCT  
TCGATCTCCTCATCTCTAAAAGGGGCTGATGTTGGT 53529  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCCACTGTTGACT  
TACTGTTTTTATTATG-----GGGTTACCTAACCA 32306  
gi | 194719394 | ref | NC\_007316.3 | N AAGCTCTCAGAGCC  
TCAGTTTTCTCATCTGTAGAGTGGGGATCAGAGCAG 40057  
gi | 149361523 | ref | NC\_000074.5 | \_ ---CAGAGCAGATT  
GCAATGGCAAATCATCCAGGGCAGGACTGGGGCAG 31293

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCATTTTCACAGG  
GTTATT-GTGAAGATGAAACAAGCTATGACCCATGC 48905  
gi | 114795057 | ref | NC\_006483.2 | N TTCCATTTTCACAGG  
GTTATT-GTGAAGATGAAACAAGCTGTGACCCATGC 53578  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAACAAACATAAA  
ATTAG--GTACAAATTCCATGTGATTCAAACCTTTAT 32354  
gi | 194719394 | ref | NC\_007316.3 | N CATCTTTTCCATGG  
CATAGTCATGAATGTTTCATGAGAAAAATACACTCA 40107  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTATGGGCTGCTT  
CATAGTAGAGAGGGAAACTGAGGCAGAGAACCATCA 31343

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGCTTAG-----  
---CACATGCCTTTTGTGGGGTAAACAGTCACCAGA 48947  
gi | 114795057 | ref | NC\_006483.2 | N TGTGCTTAG-----  
---CACATGCCTCTTGTGGGGTGAACAGTCACCAGA 53620  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAACTGT-----  
-----AAACCTCAGCCAGATTTTCCAAGTAAGTAC 32392  
gi | 194719394 | ref | NC\_007316.3 | N GCAACTGTGTGTTA  
GCATACTATCAACGATAGTAATTATTCTCTTAGTTT 40157  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTGCAGCAG----  
-----AGGTCTGGCTTGGTGACCCTGGTGGAGC 31381

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gi | 51473102 | ref | NT\_010498.15 | \_ TACTTGTGATTGCT  
TTTATTTTTTTATCATTATCGTTCTATAACAACGGTTC 48997  
gi | 114795057 | ref | NC\_006483.2 | N TACTTGTGATTGCT  
TTTATTTTTTTATCATTATCGTTCTATAACAACGGTTC 53670  
gi | 73957561 | ref | NW\_876316.1 | Cf AACTTACCCCAATT  
ATCATCATGTTCCATTAGA-----C 32426  
gi | 194719394 | ref | NC\_007316.3 | N CTCTTGCACTCTAA  
TTTAGCATCATCCATTAGCACTGAATCACCCCTCC 40207  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTTCCCTCACA  
CCTTGAAGGTTTCAG-----A 31410

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTG-AAACAACCTT  
TTTAGACCCCAGGTAACCTTCTTACTGCTTCAGCTG 49046  
gi | 114795057 | ref | NC\_006483.2 | N TTTG-AAACAACCTT  
TTTAGACCCCAGATAACTTCTTACTGCTTCAGCTG 53719  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTGTTTTCTGGAA  
ACTAAATCCCTGCCTGCCAGGGAGATGTG-GTGCTG 32475  
gi | 194719394 | ref | NC\_007316.3 | N ATTTGTTTCAAGAA  
TTTGATTTCCAAAGTTCTTG--AAAAAAG-AACCTG 40254  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTACCATCTAGTA  
GAAGCATACTGTGTGAGATG-----ATGCTG 31450  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTTCTCTCTGCC  
CTGCTTATGTTAAATTAACCTGTGGCTGGGCACAGT 49096  
gi | 114795057 | ref | NC\_006483.2 | N GCTTTCTCTCTGCC  
CTGCTTGTGTTAAATTAACCTGTGGCTGGGCACAGT 53769  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTTCTGTTGCCTG  
TGGTCTGTGATGTTGGCAGCCAGTGGTG----- 32517  
gi | 194719394 | ref | NC\_007316.3 | N ACTTAAAAGTCTTG  
TTGACTCGGCCAGTTGAAAAACTGGGTGGGCAGGTT 40304  
gi | 149361523 | ref | NC\_000074.5 | \_ TATTGTGGAGAAAG  
AACTGGGTGGCAGTCACTTGAGTGACAG----- 31492  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTCATACTGTC  
ATCCCAATACTTTGGGCAGCCAAGGCGAGTGGATTG 49146  
gi | 114795057 | ref | NC\_006483.2 | N GGCTCCTACCTGTA  
ATCCCAACACTTTGGGCAGCCAAGGCGAGTGGATTG 53819  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTAGGTG--  
-----ACCTTCCCTTCCCATT----- 32541  
gi | 194719394 | ref | NC\_007316.3 | N ATATTCTAATTGGT  
CTTTCTTTAAACAGCAAAAACCAAAC----- 40344  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTCTCCAAGTACAGTG-----A 31511  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGAGCCCAGGAG  
TTCAAGACCAGCCTGGGCAACATAGTGACACTCCAT 49196  
gi | 114795057 | ref | NC\_006483.2 | N CTTGAGCCCAGGAG

TTCAAGACCAGCCTGGGCAACACGGTGACACCCCAT 53869  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCCTTCATCGTG  
TTAGGAGCTCCTCCAGGT----- 32573  
gi | 194719394 | ref | NC\_007316.3 | N TTAAAATAAGCAAA  
TTATGTGAGCCTCAGTGTGTTTGAAGGGGTTAGTGT 40394  
gi | 149361523 | ref | NC\_000074.5 | \_ GTACTGCTTGGGCT  
TTTAGTGAGATGAATGG----- 31542  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTACAAAACTA  
TTGTACCTGTGTATTGATACCACGAAGGTTATTTTA 49246  
gi | 114795057 | ref | NC\_006483.2 | N CTGTACAAAACTA  
TTGTACCTGTGTATTGACACCACGAAGGTTATTTTA 53919  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGTCCTTTGACTTTCCCTTGA 32594  
gi | 194719394 | ref | NC\_007316.3 | N TGGGACAAGAGGAG  
ATGTAGTGACCTTCTAGCCCAGTGTCTCCCAACT 40444  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAAGTGACTGAGAGTTCC 31560

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCTACTGGCTGT  
GAACACTCTATGGATTTTCCTGGTGGTATTCTGCAA 49296  
gi | 114795057 | ref | NC\_006483.2 | N AGGCTACTGGCTGT  
GAACACTCTATGGGTTTTCCTGGTGGTATTCTGCAA 53969  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTCCTGGAG----  
-ATAAAAAACAAACACACATGATCAG----- 32629  
gi | 194719394 | ref | NC\_007316.3 | N TGGCCCACAGGGTG  
GTCCACACACTGCAGCCCCATGTGG----- 40484  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGGTTGCAG----  
-AGCTCTTCTGCTGCAAGTG----- 31590  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCATTAAACAAT  
CAATAGCTTTGCCTATTCAGTGGAAAATGCTTATCA 49346  
gi | 114795057 | ref | NC\_006483.2 | N TTCCATTAAACAGT  
CAATAGCTTTGCCTATTCAGTGGAAAATGCTTATCA 54019  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCATGGTTGTTTG  
ACTGTGGTTAATAGAGTAAGAGAAATATGTAGGCTT 32679

gi | 194719394 | ref | NC\_007316.3 | N AGAGTGTCAGCACC  
CCTTTGCATAGTAAAGCCCCTGGGAAGTCCTGCAGT 40534  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCTGGGGAGGTAA  
AGGAGGCGGAGCCACAAGAGAGGCTACACTTGAGCC 31640

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTATTAAGCTCTG  
AGATCCAGGAGTACTTCAAGTGTACATTTTAAAACC 49396  
gi | 114795057 | ref | NC\_006483.2 | N GCTATTAAGCTCTG  
AGACCCAGGAGTACTTCAAATGTACATTTTAAAACC 54069  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CAATGG-----  
-GCCAGGGATTTTCTCCTCTCTTGCATAATGAG--- 32717  
gi | 194719394 | ref | NC\_007316.3 | N ---AAAGAGGACCA  
TGCACTGGGTTTACCCCATATTCCTCAAACCTGGTT 40581  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-ATTTCTAACTC  
AACACCTAAAATGCCAAGTATGTAAGTAACCTG--- 31686

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTTTGGTCTAGCA  
GGTTCAGCAGGAAGCAGCAAGTTCAAGAAAGCTCTT 49446  
gi | 114795057 | ref | NC\_006483.2 | N ATTTCGGTCTAGCA  
GGTTCAGCAGGAAGCAGCAAGTTCAAGAAAGCTCTT 54119  
gi | 73957561 | ref | NW\_876316.1 | Cf -----A  
CACTGGAGATGGAGCTTCCAGAACCAATATG----- 32749  
gi | 194719394 | ref | NC\_007316.3 | N TTCACCATGGAACC  
CACTTTCACAGAGCAGCAATTAACCTTCTGTGAAG 40631  
gi | 149361523 | ref | NC\_000074.5 | \_ -----G  
AGCTCTCTGCTTACCCGCTTCGTGCCTCAGTTTCTT 31723

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGTAATAGACCT  
TTTTGCACAGTATATGGGGGTCCCAGAACATTATTT 49496  
gi | 114795057 | ref | NC\_006483.2 | N AAAGTAGTAGACCT  
TTTTGCACAGTATATGGGGGTCCCAGAACATTATTT 54169  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GTGCCTCCATC  
ACGGAACAAAGGACCAGGGCTTCTTCCAG-----T 32790  
gi | 194719394 | ref | NC\_007316.3 | N GAGGGTTCCCAAG  
ACACAAGTGGGAAAATGATGTTCTAACTCGTGACTC 40681  
gi | 149361523 | ref | NC\_000074.5 | \_ TAAATGCAACACAG

CAGGTGATGACAGCCTGGG---TCAGCAGGATTAAG 31770

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCCTTTCCTGGAG  
 TTAAAACAGAGGAAGCCCTCAGTCAGAGGCTGAGCT 49546  
 gi | 114795057 | ref | NC\_006483.2 | N TCCCTTTGCCGGAG  
 TTAAAACAGAGGAAGCCCTCAGTCAGAGGCTGAGCT 54219  
 gi | 73957561 | ref | NW\_876316.1 | Cf CCCCTACTCTGACC  
 TCCTGAGGGTGTGACCATCCTTTTAATGCTTGTAAC 32840  
 gi | 194719394 | ref | NC\_007316.3 | N ATCCATCTTATACC  
 TGAAAAACTAAAGCTCCCCAAATCACAAATATGTG 40731  
 gi | 149361523 | ref | NC\_000074.5 | \_ TAGCTTCTAGGATC  
 CAGAACCAAGGAAACACTGGCTGGCTTGGTCTGTGC 31820

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTACAGCCAGCAA  
 GCCTGGGTCTCACTTTCTCCCTACCATGTCTAAAA 49596  
 gi | 114795057 | ref | NC\_006483.2 | N GGTACAGCCAGCAA  
 GCCTGGGTCTCACTTTCTCCCAACCATGTCTAAAA 54269  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATGGCTTCTG----  
 --GAGCCACTTTACAAAGGCCAG-----GTAGGG 32879  
 gi | 194719394 | ref | NC\_007316.3 | N GATGTGATTT----  
 --TTGTTAACCTAAGAAGTCTCTAATTGTCGTGGGT 40775  
 gi | 149361523 | ref | NC\_000074.5 | \_ GAGGAGCGGGAGAG  
 CCTTGCGCTTTAAGTTCTGGCCCAGTGTCTCACTGC 31870

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAAAAGGGAATTG  
 GGTCGGAGGTGATGGG---ACTCCAAGTGACGCTTC 49643  
 gi | 114795057 | ref | NC\_006483.2 | N GAAAAAGGGAATTG  
 GGTCGGAGGTGATGGG---ACTCCAAGTGACACTTG 54316  
 gi | 73957561 | ref | NW\_876316.1 | Cf AGAAAGAAGATGCC  
 AGAAGGATGAAGAGGG---TCTTACAGCTCAG--CC 32924  
 gi | 194719394 | ref | NC\_007316.3 | N CCACTAGGGAAGCA  
 GAATGGAAGCACAGGGGGCTTTGGACCTGCAGTCA 40825  
 gi | 149361523 | ref | NC\_000074.5 | \_ ATAGCAGACGTTTG  
 TCCAGACTGCGCAGAG----AACTGAGAACCAGATA 31916

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCTTGGAGGTGGG  
GGCACC GGGTGGGCATGAGCCCTGTGTGTGGGAGAT 49693  
gi | 114795057 | ref | NC\_006483.2 | N GTCTTGGAGGTGGG  
GGCACC GGGTGGGCATGAGCCCTGTGTGTGGGAGAT 54366  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCTTCACAGAACT  
T---ACCCGAG-ACTGTCAGTGATTTTACTTA--- 32967  
gi | 194719394 | ref | NC\_007316.3 | N GCCTTCACATAGTC  
TGGTACAAGTG-TAAAGACTAGAATTA AAAACAGAA 40874  
gi | 149361523 | ref | NC\_000074.5 | \_ ATCCACCACCTGTA  
ATAGCCCCGACATTGGCTGGTGATGGAAGCTTATGT 31966

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGAGGTGAGCCCG  
CGATTGTGCCTCTGTCTTCAGGCTCGGCCTGCCGCC 49743  
gi | 114795057 | ref | NC\_006483.2 | N AGGAGGTGAGCCCG  
CGATTGTGCCTCTGTCTTCAGGCTCGGCCTGCCGCC 54416  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGTC  
CAGTTGT-CCAGAGGGTAGAGGCACTG---TGAGCT 33003  
gi | 194719394 | ref | NC\_007316.3 | N AAGAGCGACTTCCC  
CGGCAGT-CCAGCGG-TTAAGACTCTGCCTTCCAAT 40922  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----CCC  
TGAGTGGACCTCAGGCTTCTAGGTCAG-----T 31999

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTTGGTGGCTAT  
G----GGTTCTGTTC CCGACTCTATTTTCGCCCC 49789  
gi | 114795057 | ref | NC\_006483.2 | N TCCTTGGTGGCTAT  
G----GGTTCTGTG CCGAGTCTGTTTTTGCCCC 54462  
gi | 73957561 | ref | NW\_876316.1 | Cf GTAAGGGAAGCTGG  
GAAGTAGTATTTGGTGGGGGGCACATGGTTACCCCC 33053  
gi | 194719394 | ref | NC\_007316.3 | N GCAGGGAATGCAGG  
--TTCAGTCCCTGGACAGAG-AACAAAGATCCCACA 40969  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAAG-----  
----CATCACCTGACTGCTGCGACTGGCTCACGCA 32036

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACCCCTCCTTG-  
-CCCCTTACCTGAGATTGTGCCCTGGGAGCCTGGGA 49837



gi | 114795057 | ref | NC\_006483.2 | N TCACCCCTCCTTG-  
-CCCCTTACCTGAGATTGTGCCCTGGTAGCCTGGGA 54510  
gi | 73957561 | ref | NW\_876316.1 | Cf AACT-----  
-CCAATACCATTCACAGTGG-GGGTTCTTTTAGGA 33091  
gi | 194719394 | ref | NC\_007316.3 | N TGCTGCCGGGTATG  
GCCAAAGACTAAAAAACAGAGCAAACACCCAGGA 41019  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCT-----  
--CGTATTCATTTCCGTAACACCTGTACATATCGGT 32074

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCACCAGAAGCC  
CCTCCTGCCACCTGCTGAACCCACACACAACCACC 49887  
gi | 114795057 | ref | NC\_006483.2 | N GGTCACCAGAAGCC  
CCTCCTGCCACCTGCTGAACCCACACACAACCAGC 54560  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGGGGGCATGGA  
CATT-----TACAGGCAAGGGGTAGCCCTTGTCATC 33137  
gi | 194719394 | ref | NC\_007316.3 | N CAAATTAACCTGCA  
GCTTAGCTCCACTTGCTGCCAGTTTGCTCCGTCTTC 41069  
gi | 149361523 | ref | NC\_000074.5 | \_ AATGCAAAGATGTC  
ACCCTGTGCCCTG--AACATCTCCCCATTGGCATT 32122

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCACTCCTTCTTG  
GTCCGGAGGTGCCACCTGATCTTCTACCTGCCTTTA 49937  
gi | 114795057 | ref | NC\_006483.2 | N TTCACTCCTTCTTG  
GTCCGGAGGTGCCACCTGATCTTCTACCTGCCTTTA 54610  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTGGGGACTGGGC  
TCCCATGGCAGTGTG-----CATTTTGGTAATAGAT 33182  
gi | 194719394 | ref | NC\_007316.3 | N TTGCTGTCCGGCGC  
TCCCATCCATGTGTACTCCCCACTGAGAGCCTTAC 41119  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGCAGCTCCCTGG  
GACAATCAATAGCTTTGTTTATTCGTAGCAGAAAAC 32172

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTGTCATATG-  
----AAGACAACGAATATTTTTTCAGTATAACAGGTC 49982  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTGTCATATG-  
----TAGACAACGAATATTTTTTCAGTATATCAGGTC 54655  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTTACTGAATTT-

----TTTATATTTGAATGTG-----TAC 33214  
gi | 194719394 | ref | NC\_007316.3 | N TGTGCCTCACTTGG  
CCTGTATTTCTTGGACTGTAGGCTTCCCCTCCTGAT 41169  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTTATCAGCAAT-  
----TAAGCTCCAAGATTTGGGAG-----TGGCC 32210

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gi | 51473102 | ref | NT\_010498.15 | \_ TATGCTAACCACCG  
TATGAAAATTGTTTCATTTGTTCTCCCAACACCCTT 50032  
gi | 114795057 | ref | NC\_006483.2 | N TATGCTAACCACCG  
TATGAAAATTGCTTCATTTCTTCTCCCAACACCCTT 54705  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAACTCACCAGCC  
TCTATTTGAATCATACTGATCT--CACTGTTCTCTT 33262  
gi | 194719394 | ref | NC\_007316.3 | N GGAACTGGCCTGTC  
TTCTAATGTCTAATATCGTTTTGCACATTTCCCCAT 41219  
gi | 149361523 | ref | NC\_000074.5 | \_ GACCCTGACCAATG  
AGTTCCGGGAACAGAAGGTTTCAG--AAACCTCAGGA 32258

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGAGACCAGCACT  
GTTATTTTTTCTCTGCGTTATTTTACTACACGGACA 50082  
gi | 114795057 | ref | NC\_006483.2 | N AAGAGACCAGCACT  
GTTATTTTTTCTCTGCGTTATTTTACTACACGGACA 54755  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGAGTTCATAGAA  
G--ATGGCTTTTCTAATTTGGTCTACTGTGCTTAAA 33310  
gi | 194719394 | ref | NC\_007316.3 | N GTGGGTCTTCTCT  
G--CTCCAGACTTGTTCATGGCTCCTCATTCTTTACA 41267  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGGCCCACAATA  
GCCCGCGCACAGCTGCATGGTGCCACGAAGCCTTAC 32308

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCAGCCCGCAGA  
GGTTGCGTGGCCCTGCGCAGTCACACGGCAGTGGGC 50132  
gi | 114795057 | ref | NC\_006483.2 | N CAGCAGCCCGGAGA  
GGTTGCGTGGCCCTGCGCAGTCACACGGCAGTGGGC 54805  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCAAAGTCCTTA  
GG-----GGCAGACTCAAGTT----- 33340  
gi | 194719394 | ref | NC\_007316.3 | N AGGTTACATCCCAA  
TCTC--TTAACCGATGCCAGACACAACACTAGGT---- 41311

gi | 149361523 | ref | NC\_000074.5 | \_ CGTCTGTACCCGGG  
TG-----GGGACAAAGG----- 32334

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGGAGGGGGACA  
TGACCCCGGGCCTCTAGCTCCGCAGCCCATGTCCTT 50182

gi | 114795057 | ref | NC\_006483.2 | N AGTGGAGGGGGATA  
CGACCCCGGGCCTCTGGCTCCGCAGCCCATGTCCTT 54855

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAC 33343

gi | 194719394 | ref | NC\_007316.3 | N -----  
--TCCAGCCACACCTCCCACACGTCCTCTGCCCCAG 41345

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAG 32337

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCCCAGGACGTT  
CTCTCTCTCCCTGTGAGCAGCTGTTTCAGACTCTTCC 50232

gi | 114795057 | ref | NC\_006483.2 | N ACCCCCAGGACGTT  
CTCTCTCTCCCTGTGAGCAGCTGTTTCAGACTCTTCC 54905

gi | 73957561 | ref | NW\_876316.1 | Cf TCAGCCTGGACCCC  
TTCTATG-----TT 33366

gi | 194719394 | ref | NC\_007316.3 | N TCACGCTGGTCCCC  
ACACGCGTCCCCATGTAGACCAAACCTTCTGTCTCT 41395

gi | 149361523 | ref | NC\_000074.5 | \_ GAGTTCTTGACTAT  
TCTTTCCTTGCCGTGGAG-----TCTA 32373

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCACTGCCTCTC  
CCCCTGAGTTTCCTCCATGTATCCGTTGCCCATGGC 50282

gi | 114795057 | ref | NC\_006483.2 | N TGGCACTGCCTCTC  
CCCCTGAGTTACCTCCATGTATCCGTTGCCCATGGC 54955

gi | 73957561 | ref | NW\_876316.1 | Cf CTGCACAGTATCTG  
GCACAGTTCTGGCTACAGGAGACT-----CACCTC 33410

gi | 194719394 | ref | NC\_007316.3 | N CTGCTCGTGCCCTC  
TCGTGGTGATGGCTTCCCTGGTGG-----CTCAGC 41439

gi | 149361523 | ref | NC\_000074.5 | \_ AAGTGAGGACAATC  
GAACCGAGTTGTCAGAACTCCAAG-----TAAGC 32416

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTGTGGCAGATG  
ACCGCTTACTTAGGGGCTTAAAACAAGGTGAAGATA 50332  
gi | 114795057 | ref | NC\_006483.2 | N TGCTGTGGCAGATG  
ACCACTTACTTAGGGGCTTAAAACAAGGTGAAGGTA 55005  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGAGTGGTACCTA  
CTGGGTCTGTG-----TCAGTGTTCAGTTT 33448  
gi | 194719394 | ref | NC\_007316.3 | N TGGTAAAGAATCCA  
TCTGCAATGCGGGAGACCTGGGTTCAATCCCTGGGT 41489  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTAGAAAGAGGTC  
CCAGTGAGCACCAGGGGCAGGACTGTAGCCGAGTGA 32466

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTCTGACCTTCT  
GGAGGTCAAAATTGAAATCGTTTTTCACTGGGTGGAA 50382  
gi | 114795057 | ref | NC\_006483.2 | N TGGTCTGACCTTCC  
GGAGGTCAAAATTGAAATCGTTTTTCACTGGGTGGAA 55055  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCAAGATGATTCA  
AGAGTG-----TAGTTTCTGGAACCAG-----AGC 33487  
gi | 194719394 | ref | NC\_007316.3 | N TGGGAAGATCTCCT  
GGAGAAGGGAAAGGCTACCCACTCCAGTATTCTGGC 41539  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGAAGTACCCAG  
GTGGCATGGGAAAGGAGGGAAACATTTGTGGGCCCT 32516

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCAACAGTGCTAA  
CAGGGTCCAGGCGCGGTGGCT--CACTCCTGTAATC 50430  
gi | 114795057 | ref | NC\_006483.2 | N ATCAAGAGTGCTAT  
CAGGGTCCAGGCGCAGTGGCT--CACTCCTGTAATC 55103  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTGGTTCCCATGT  
CTGCTCTGCAATGAAGTAACTGTATAACCT-TGAAC 33536  
gi | 194719394 | ref | NC\_007316.3 | N CTGGAGAATACAGT  
CCACGCGGTTCGCAAAGAGTCAGACACAACCTGAGCGA 41589  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCTCCAGCACAGT  
CACCTTGGTTCACGCTGGGGCTGTATGGGCTATGTCC 32566

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGCACTTTGGGA

GGCTGAGGTGGGTGGATCACCTGAGGTCAGGAGTTG 50480  
gi | 114795057 | ref | NC\_006483.2 | N CCAGCACTTTGGGA  
GGCTGAGGTGGGTGGATCACCTGAGGTCAGGAGTTG 55153  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGTTACTTGAGCA  
AGTT-----ATTAAATCTCT----- 33566  
gi | 194719394 | ref | NC\_007316.3 | N CTTTCACTTTCTCA  
TGTTGATGGAGTTGAGGCCCG----- 41625  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAGCTCTCTCTTG  
GACTCTCCCATGTCTCTCCCA----- 32602  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGACCAGCCTGGC  
CAACATGGCAAACCCTGTCTCTACTAAAAATAAAA 50530  
gi | 114795057 | ref | NC\_006483.2 | N GAGACCAGCCTGGC  
CAACATGGCAAATCCTGTCTCTACTAAAAATAAAA 55203  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGTGC  
CTCAGTTTCCCATATG-----TAAAATGGAG 33599  
gi | 194719394 | ref | NC\_007316.3 | N --TGAGAGCAGGGC  
CAACTCTTCCCCCTCCAGCAAACCCTGCACTGGCT 41673  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCCAAC  
CCCTGCCTCATCCCTG-----AGATTGAGT 32634  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAATTAGCCAGGCG  
TGGTGGCGTGCACCTGTAGTCCCAGCTACTCAGGAG 50580  
gi | 114795057 | ref | NC\_006483.2 | N AAATTAGCCAGGGG  
TGGTGGCGTGCACCTGGAGTCCCAGCTACTCAGGAG 55253  
gi | 73957561 | ref | NW\_876316.1 | Cf AAACCA-ATAG---  
-----CATCTTTCCTG---GAGAATGTGGAG 33632  
gi | 194719394 | ref | NC\_007316.3 | N TCAGCA-CCTGGGA  
TAGTGCCACCTCTGTCCACGCCTGAGAACCTGTCC 41722  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCTCACTG---  
-----CAACTCCTTACTCCTCCTCATTGGAC 32672  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGAGGCAGGAGA  
ATTGCTTGAACCTGGGAGGTGGGG-TTTTAGTGAGC 50629  
gi | 114795057 | ref | NC\_006483.2 | N ACTGAGGCAGGAGA  
ATGGCTTGAACCTGGGAGGTGGGGTTTLAGTGAGC 55303

gi | 73957561 | ref | NW\_876316.1 | Cf ATTAAG-----AGA  
TAAGCCTTGTG----- 33652  
gi | 194719394 | ref | NC\_007316.3 | N CCAGAG-----AGG  
ATGGCCCGGTCC----- 41743  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTCTG-----TGG  
GAGGCC----- 32687  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGAGATTGCACCAC  
TGCACTGTAGCCTGGGTGACAGAGTGAGACCCCATC 50679  
gi | 114795057 | ref | NC\_006483.2 | N CGAGATTGCACCAC  
TGCACTGTAGCCTGGGTGACAGAGTGAGACTCCATC 55353  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAG  
TGCTTGGC--ACAGAGCGTAG-----CCCATC 33680  
gi | 194719394 | ref | NC\_007316.3 | N -----CAC  
TGCTTGGCGTGCTGGGCTTCT-----TCTGTC 41773  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CC  
TGGGAAGAGACCAGTGTTTGT----- 32710  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAGTGCTACTGGGGCCATG 50729  
gi | 114795057 | ref | NC\_006483.2 | N TTTAAAAAAAAAAAA  
AAAAAG-----GTGCTATCGGGGCCATG 55390  
gi | 73957561 | ref | NW\_876316.1 | Cf CTAGGAG-----  
----- 33687  
gi | 194719394 | ref | NC\_007316.3 | N CTTTCAGT-----  
----- 41781  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCCTGCAGAGGCT  
CCAGGGGAGAAGCTGTTTCCTGGCCTTTCCAGCTT 50779  
gi | 114795057 | ref | NC\_006483.2 | N CTCCTCCAGAGGCT  
CTAGGGGAGAAGCCACTTCCTGGCCTTTCCAGCTT 55440  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TT  
CTGGAATGGGAG-----TACCTCCCTCCTC 33715  
gi | 194719394 | ref | NC\_007316.3 | N CTGTGGCTGGGCTG

CTGGGGGAAGAGGGGTCTTTATTTACCTCCCCCAT 41831  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CT  
ATGATCGTAG-----ACTGCAAACCTGCACT 32737

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gi | 51473102 | ref | NT\_010498.15 | \_ CTAGAAGCCGCCTG  
CATTCCCTTGGCTCATGGCTCCATGTTCCCGCACCAC 50829  
gi | 114795057 | ref | NC\_006483.2 | N CTAGAAGCCGCCTG  
CATTCCCTTGGCTCATGGCTCCGTGTTCCCGCACCAC 55490  
gi | 73957561 | ref | NW\_876316.1 | Cf CTT-----TCT  
TGGTACGTG-----CG 33732  
gi | 194719394 | ref | NC\_007316.3 | N CTC-----TTC  
CATTGCTTTGATCAAA-CTCATTATCACCAAGTCCA 41872  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTTCTGTTACAT  
CTCCCTGACATCAGACACATCTCCAACCCTCCGTCC 50879  
gi | 114795057 | ref | NC\_006483.2 | N TGCTTCTGTTACAT  
CTCCCTGATGTCAGACACGTCTCCAACCCTCCTTCC 55540  
gi | 73957561 | ref | NW\_876316.1 | Cf TCGGTGTG-----  
-----CATGTG-----TGT 33749  
gi | 194719394 | ref | NC\_007316.3 | N CCCACCAG-----  
-----CAATTCTCCAACCTTGCTTCT 41901  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----C 32738

gi | 51473102 | ref | NT\_010498.15 | \_ T-CCCCTCCCTTAT  
GAGGACCCTCGTGATCTCACGGGGCCCACCCCGGTC 50928  
gi | 114795057 | ref | NC\_006483.2 | N TCCCCCTCCCTTAT  
AAGGACGCTTGTGATCTCACTGGGCCCACCCCGGTC 55590  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGCACACATGTGT  
GCTGTGTCCATGTGTGGTTTCTGGTGTTAACGTAAC 33799  
gi | 194719394 | ref | NC\_007316.3 | N TTTCCCTCCTGAAA  
GACCTGCCTGATTCTCTTACCAGTGTGTTGCTGATCC 41951  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGGCCACCAGAGC  
CATGTGTGCGGTGGTGTAGCCCT-CCGAGCTTGGCC 32787

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGCAGACCATATT  
CTCCCCACGCCAAGGTCCTTCAGTTAGTCACGTCTG 50978  
gi | 114795057 | ref | NC\_006483.2 | N ACCCAGACCATATT  
CTCCCCATGTCAAGGTCCTTCAGTTAGTCACGTCTG 55640  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCAGG--CTGTTA  
CTG----- 33814  
gi | 194719394 | ref | NC\_007316.3 | N CTCAAGGCCTGTTT  
CATGTCCT----AGACCCTCCAAGAACTCTGCAG 41996  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCAAGTGATGTGA  
CTG-----CCA 32807

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gi | 51473102 | ref | NT\_010498.15 | \_ CATAGTCTCTGTCA  
CCACATCAGAGAACACATTCCCAAGTTGAGGATTAG 51028  
gi | 114795057 | ref | NC\_006483.2 | N CAAAGTCTCTGTCA  
CCACATCAGAGAACACATTCCCAAGTTGAGGATTAG 55690  
gi | 73957561 | ref | NW\_876316.1 | Cf AATAACCTGGCTCA  
GTGATGCT-----CGAAGCACATG----- 33847  
gi | 194719394 | ref | NC\_007316.3 | N CTCATCCTCCCCCA  
CCACCACT-----CCACACTCCTGTTTCCTGAACC 42040  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTTGGCTTTGTCT  
GCGCACTCTGTGATGTCCGCTCAAATTG----- 32849

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gi | 51473102 | ref | NT\_010498.15 | \_ GATGCGGACATCAT  
GGGAAAGCTGGGGGCAGGGGGACGTTACTCAGCAGG 51078  
gi | 114795057 | ref | NC\_006483.2 | N GATGCGGACATCAT  
GGGAAAGCTGGGGGCAGGGGGACGTTATTTCAGCAGG 55740  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GATTGAAT  
GGG----- 33858  
gi | 194719394 | ref | NC\_007316.3 | N TTCTGAGGCAGAAT  
AGATCCGATTAGGGTGTTCAGGTTGTTCTAACTATG- 42089  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAACTGCAC  
AGAG----- 32862

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACACTGCAGCCC  
TTTTCCAGGTCTCCTCCCTCCTCCCTTCC---CTTG 51125  
gi | 114795057 | ref | NC\_006483.2 | N CCACCCTGTGGCCC  
TTTTCCAGGTCTCCTCCCTCCTCCCTTCCCTGCCTTG 55790  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGTCTC  
TGAGGTGGG----- 33873  
gi | 194719394 | ref | NC\_007316.3 | N --CCTCTCAAACCTC  
AGGCAATGG----- 42110  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACAC  
TTGTTAGAG----- 32875

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCCCCCGACCCC  
ACTCCCCATCCACATCGCTCATTCAACAAGTG 51175  
gi | 114795057 | ref | NC\_006483.2 | N GGGCCCCCACCCC  
ACTCCCCATCCACATCGCTCATTCAACAAGTG 55840  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CAGGAT----- 33879  
gi | 194719394 | ref | NC\_007316.3 | N -----  
---CAGGATTCTTTCACTGCTGACTTGCCATCTT 42143  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCCTGAGCACCT  
ACTACGTATGAGGCCCTGGGCTGGGTACCGAGGACA 51225  
gi | 114795057 | ref | NC\_006483.2 | N TTTCCTGAGCACCT  
ACTACGTATGAGGCCCTGGGCTGGGTACCGAGGACA 55890  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATGGTGTGT  
CCAGAGAAAGGCACAGGTGCTTTG----- 33912  
gi | 194719394 | ref | NC\_007316.3 | N ATTACAGTGTAACCT  
TCAATGGAACAAACATAAAGTTAG----- 42181  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CGTATAC  
CCAGCGTTAACACGTACAG----- 32901

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGTGCAGGAAGCA  
GACCTGGTCCCTGTGCTCGTGAGTTTATAGCCCAGA 51275  
gi | 114795057 | ref | NC\_006483.2 | N CCGTGCAGGAAGCA

GACCTGGTCCCCGTGCTCATGAGTTTATAGCCCAGA 55940  
gi | 73957561 | ref | NW\_876316.1 | Cf -----A  
GAGGTATATTCTTTTTTAAAAAATATTTT-----A 33943  
gi | 194719394 | ref | NC\_007316.3 | N -----A  
TACAAAATCTATGTGCTTCAAATTAAATA-----A 42212  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTATGTTTCTACTTAAGG----- 32919

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGACAGACTGACT  
TAAATCTACTCGTGACAAGTACTGTTCCAGGACTGC 51325  
gi | 114795057 | ref | NC\_006483.2 | N GTGACAGACTGACC  
TAAATCTACTCGTGACAAGTACTGTTCCAGGACTGC 55990  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTATTTATTTATT  
TATTTATTTATTTATTCATGAGAGACACAG---AGA 33990  
gi | 194719394 | ref | NC\_007316.3 | N GTTACAAC TTATTC  
TAATTATTATCATGTCCAATTAGACCACAT---TTA 42259  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGCCTATCT  
CTATAAGGCTATAGGGCTGTGCAGCCTCCTG----- 32959

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAGGGACCCATGA  
GTGGAAGTACTGGGAATCCTGGATTTC CCAAATGGG 51375  
gi | 114795057 | ref | NC\_006483.2 | N TAAGGGACCCATGA  
GTGGAAGTACTGGGAATCCTGGATTTC CCAAATGGG 56040  
gi | 73957561 | ref | NW\_876316.1 | Cf G-AGAGGCAGAGAC  
ACAG-----GC 34009  
gi | 194719394 | ref | NC\_007316.3 | N CTAGAAACAGAATC  
TCTGTTTGCCATGGTTACTG---TTGTT CAGTTGC 42305  
gi | 149361523 | ref | NC\_000074.5 | \_ --AGAGATGGCTTG  
CAGG----- 32975

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGACTTGCCTGG  
CCTGGTGC ACTCAGGGAGGGCTTCCTGGAGATAGCA 51425  
gi | 114795057 | ref | NC\_006483.2 | N AGAGACTTGCCTGG  
CCTGGTGCAGTCAGGGAGGGCTTCCTGGAGATAGCA 56090  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGGG-----  
-----AGAAGCA 34022

gi | 194719394 | ref | NC\_007316.3 | N TAAGTCGTGTCTGA  
CTCTTTGCAGTCCCA-----CGGACGCA 42342  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GTA 32978

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTTTGGCGCAAA  
ACAGCCGTTTTAGGCAAAGGAGGCCCAAGCTACTTG 51475  
gi | 114795057 | ref | NC\_006483.2 | N GCTTTTGGCACAAA  
ACAGCCGTTTTAGGCAAAGGAGGCCCAAGCTACTTG 56140  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCTCCCTGCAAGG  
AGCCCGATGTGGGACTTG---ATCCCAAGACCCAG 34069  
gi | 194719394 | ref | NC\_007316.3 | N GCATGCCAGGTAGG  
GTGACAATATACAGCCTTGACATACTCCTTCCCAA 42392  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTTTGAACCTGAG  
CTGTCCTTCTTGCCCCACTCTTGTCAGCTGTCTTT 33028

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCATGCTGACCA  
AAAAGCCTGATAAGTTTTTCGCTTTCAACTGCCATGG 51525  
gi | 114795057 | ref | NC\_006483.2 | N TCTCATGCTGACCA  
AAAAGCCTGATAAGTTTTTCGCTTTCAACTGCCATGG 56190  
gi | 73957561 | ref | NW\_876316.1 | Cf GATCAC---GACCT  
GAGCCAAAGGCAGATGCTTAACCACTGAGTCACTGA 34116  
gi | 194719394 | ref | NC\_007316.3 | N TTTTGA---ACCAT  
GGAGGTGTGGTAGTTTCT--GCTGCCTGGGACCTAT 42437  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGTGTCCCTTCTG  
TCTGCCAGGCACCAGCAGCTACTGTAACAGCCCCAG 33078

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCACCTAAAACC  
CTCCCCCAGCACATGTGACTTAACCTATCTCATCCC 51575  
gi | 114795057 | ref | NC\_006483.2 | N GGGCACCTAAAACC  
CTCCCCCAGCACATGTGACTTAACCTGTCTCATCCC 56240  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----T  
GTCCCCGAAAGGTATATTCTAAATTAACCATTTGCTA 34155  
gi | 194719394 | ref | NC\_007316.3 | N GG-----G  
GTCAACATCTGGTG-GTTCTGGATGACTCACTTTCC 42475  
gi | 149361523 | ref | NC\_000074.5 | \_ GG-----

-TCCAAGTATAGGCAAGGCATGCTCCTCCCTCCTCC 33115

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGTCTCTGCTC  
 CCTGTCCCTCCTCCCAGGCCTTCCCCAGCCACCTC 51625  
 gi | 114795057 | ref | NC\_006483.2 | N GGAGGTCTCTGCTC  
 CCTGTCCCTCCTCCCAGGCCTTCCCCAGCCGCCTC 56290  
 gi | 73957561 | ref | NW\_876316.1 | Cf G--AGTTTTTTCTA  
 ACGTTATATGTTA-----CAT 34183  
 gi | 194719394 | ref | NC\_007316.3 | N G--CATTTCTTCTT  
 TCATTGTGGGTTAGGAG---CTGCCCGTGAGCTCAT 42520  
 gi | 149361523 | ref | NC\_000074.5 | \_ T-----TCCTCCC  
 TCCCCCCCCCTG-----CTCCCCT 33143

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCAGGGGCCTC  
 CCTCCCTGCTCTGTACACCCTGGTGTGGATCCAGT 51675  
 gi | 114795057 | ref | NC\_006483.2 | N TTCTCAGGGGCCTC  
 CCTCCCTGCTGTGTACACCCTGGTGTGGATCCAGT 56340  
 gi | 73957561 | ref | NW\_876316.1 | Cf TAAAATTTTAACTA  
 ACGTTAAAGA-----AGGTATGAG 34216  
 gi | 194719394 | ref | NC\_007316.3 | N ATGACTTTGCTCCG  
 ATGTCCTGGAGATAAAACATGAAGATCAGTTAGTAG 42570  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCCTCCCAGCTCTT  
 GAGACCAGGAG-----CTTCC 33173

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTGTTTATCGTC  
 ATTTCCCCACCTCCTCCATGGAGTATCATCTTCCT 51725  
 gi | 114795057 | ref | NC\_006483.2 | N GCTTGTTTATCGTC  
 AG-TCCCCCACTCCTCCATGGAGTATCATCTTCCT 56389  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATGTTTTT-----  
 -----CAAGAG 34230  
 gi | 194719394 | ref | NC\_007316.3 | N TTGTGTTTGTGGTG  
 GTAGGTTGAGGTAGGTACATGGG-----CTTGAA 42613  
 gi | 149361523 | ref | NC\_000074.5 | \_ CAGTG-----  
 -----ACGGGAG 33185

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGGCAGAAATTGT  
ACCCCATTCACTGCGGTATTCCCAGTGCCAGAGGA 51775  
gi | 114795057 | ref | NC\_006483.2 | N GAGGCAGAGATTGT  
ACCCCATTCACTGCGGTATTCCCAGTGCCAGAGGG 56439  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCCACACATT--  
-----TAAAGCTTGTTCAATT---- 34258  
gi | 194719394 | ref | NC\_007316.3 | N GAGGCAGGGGTT--  
-----TATTCCCATTTCACGTGATG 42645  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGCCAG-----  
-----TCCCCTGCATTTCTTG 33208  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCTCTGGCCTATC  
GGAGGATATGGATGGTCAGGTTTCCCATCAGTCCAA 51825  
gi | 114795057 | ref | NC\_006483.2 | N GTCCCTGGCCTATC  
GGAGGATATGGATGGGCAGGTTTCCCATCTGTCCAA 56489  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCAG-----A 34264  
gi | 194719394 | ref | NC\_007316.3 | N ----AGAGCCTGGA  
AGTGGAGCCAACGGGGTGGCTTCCCCATGGAAGAAA 42691  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----T 33209

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCACACTCACTC  
CCCACCCCATGTGCCTCCTCTCTTCCAAACGCCTTC 51875  
gi | 114795057 | ref | NC\_006483.2 | N AGCCACACTCACTC  
CCCACCCCATGTGCCTCGTCTCTTACAAACGCGTCC 56539  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCCATG---TTCT  
CATACTTGCT---CCTTGATTCTGATG-----TGC 34302  
gi | 194719394 | ref | NC\_007316.3 | N GGCCCTGGGTTTCT  
CCAGCCCTCC---TCTCTGCCCTCTTGGGCTGTGGC 42738  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCTCCTTCTAACC  
CTTAACCCT---CTCTCATCACCTT-----TCC 33249

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTCCTTCCTCCT  
TCTCTTCGTAGTTTTCTTCCCGGGGTGGGGGTCATC 51925

gi | 114795057 | ref | NC\_006483.2 | N ACCTCCTTCCTCCT  
TCTATTGGTAGTTGACTTACCGGGGTGGGGGTCATC 56589  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTTGTTAT----  
-CTGTTGGCAAATGGCATTAAAGG-----TGCCAG- 34340  
gi | 194719394 | ref | NC\_007316.3 | N ATCCTGTTAG----  
-TACCTGTAAAATGGCTTGTGGAGCTCC-AGCCATG 42782  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCCTAAGGG----  
-----TCTTAGGGGACCCAGGGCCTCGTGCATG- 33287  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGATCTCTCCCT  
TTCTTTCTTTTTTTTTTTTTTTTTTTTAAAGGACTTCATT 51975  
gi | 114795057 | ref | NC\_006483.2 | N CTTTATATCACCCCT  
ANNN 56639  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATACCA  
TCCTGTGCTTTT-TCTGGTTATGT----- 34369  
gi | 194719394 | ref | NC\_007316.3 | N AGCACAATGACCCA  
AGCAGAGAGAGAGAAAGGTGAAGG----- 42820  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCCA  
CACCAAGCGCTGAGCAGT----- 33309  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTAGAAATGTTT  
TAGATTTGTGGGAAAATTCAGCTCAGGGTTCCCATC 52025  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NNNNNNNNNNNN----- 56663  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TACCCCTCACCCGG  
GATCCCTCCTGTTTTTAATGCCTTAGCTTACTTGG 52075  
gi | 114795057 | ref | NC\_006483.2 | N -----  
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gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTACATCGGTCACA  
ACTAAGGAACCCATATTGATGCCTTCTTGTTACCTT 52125

gi | 114795057 | ref | NC\_006483.2 | N -----

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gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTCTGTGACACT  
TTCAGATCCCCATAGATTTCCCTAATGTCCTTTTTTC 52175

gi | 114795057 | ref | NC\_006483.2 | N -----

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gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTCCAGGATCCT  
ACCTGACATTTAGTGGTCATGTCTCCTGAGGTTCTT 52225

gi | 114795057 | ref | NC\_006483.2 | N -----

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gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTTGGCTGTGACAG  
TTTCTGATGTTTCCTTGT TTTTGACCTTGACCTTGAC 52275

gi | 114795057 | ref | NC\_006483.2 | N -----  
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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTTTCGGTTTTGT  
TTTTGTTTTGAGCAGAGTCTCTCTCTGTCACCCAGG 52325

gi | 114795057 | ref | NC\_006483.2 | N --NNNNNGTTTTGT  
TTTTGTTTTGAGCAGAGTCTCTCTCTGTCACCCAGG 56711

gi | 73957561 | ref | NW\_876316.1 | Cf -----GTTTTTGT  
GGGGTTTTTTTATTATGGCAAATTTAAAAAAC----- 34409

gi | 194719394 | ref | NC\_007316.3 | N -----GGGCCAGG  
AGGAGCTGTCAGCTCAGCCGCCTTCAGAGATCTTCA 42864

gi | 149361523 | ref | NC\_000074.5 | \_ -----ACAACGT  
GGAGTGACATCTCTAGCCCTCGATTTCGATTTTAGT 33353

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGAGTGCAGTGG  
GGCAATCTCGGCTCACTGCAACCTCCGCCTCCTGGG 52375

gi | 114795057 | ref | NC\_006483.2 | N CTGGAGTGCAGTGG  
GGCAATCTTGCTCACTGCAACCTCCGCTTCCTGGG 56761

gi | 73957561 | ref | NW\_876316.1 | Cf CAAAAAACTTT---  
-----TGTTACATT-----CTAAGTTG----- 34437

gi | 194719394 | ref | NC\_007316.3 | N CAAAGACCCTTGTC  
CAGAGGGTGGAGACACT-----GTGAGCTGCCAGGG 42909

gi | 149361523 | ref | NC\_000074.5 | \_ TTGAG-----  
-----ACAGGTTTCACT-----AAGTCATCCAGGC 33383

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCAAGAGATTCTC  
 CTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCG 52425  
 gi | 114795057 | ref | NC\_006483.2 | N TTCAAGAGATTCTC  
 CTGCCTCAGCCTCCTGAGTGGCTGGGATTAGAGGCG 56811  
 gi | 73957561 | ref | NW\_876316.1 | Cf -TGATTTGGATTAC  
 TT-----CTTATTGGCAG-----A 34464  
 gi | 194719394 | ref | NC\_007316.3 | N AAGCTGGGAAACAG  
 GG-----CTAAGGGGGTGGGATGGGG---G 42945  
 gi | 149361523 | ref | NC\_000074.5 | \_ TAGCTTTGAACTTT  
 TG----- 33399  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGCCCCCATAACC  
 CGGCTAATTCTTGTATTTTTTAGTAGAGACAGGGTTT 52475  
 gi | 114795057 | ref | NC\_006483.2 | N CTTGCCCCCATGCC  
 CGGCTAATTTTTTGTATTTTTTAATAGAGACAGGGTTT 56861  
 gi | 73957561 | ref | NW\_876316.1 | Cf AAATCCTCATGAAA  
 ACAGCTATAACTTTATGGCAG-GGGTTGATGAGGGA 34513  
 gi | 194719394 | ref | NC\_007316.3 | N CCATCATCAGGCC  
 AGTGCCACGGGGTTCTGTTAGGAAGGTTGAAGGGTTA 42995  
 gi | 149361523 | ref | NC\_000074.5 | \_ --GTCCTCTTGCCT  
 CAGCCACCTAAGTTCTGGATG--GCATACAGG---- 33441  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACTGTGTTGGCCA  
 GGCTGGTCTCGAACTCCTGACTTCAAGTGATCTGCC 52525  
 gi | 114795057 | ref | NC\_006483.2 | N CACTGTGTTGGCCA  
 GGCTGGTCTCGAACTCCTGACTTCAAGTGATCTGCC 56911  
 gi | 73957561 | ref | NW\_876316.1 | Cf AGCACAGTTTACTT  
 TCCAA-----ACCAGACATCATAG-----A 34547  
 gi | 194719394 | ref | NC\_007316.3 | N GACGGATATTACTT  
 GGCAAGTGGT-GGCTCCTGTCATCCTTG-----C 43037  
 gi | 149361523 | ref | NC\_000074.5 | \_ CACTACCAAGGCC  
 AGCTG-----ACCTAGGCTTCTATG----- 33475  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCTCGGCCTCCC

AAAGTGCTGGGATTACAGGTGTTAGCCACCATGCC 52575  
gi | 114795057 | ref | NC\_006483.2 | N TGCCTCGGCCTCCC  
AAAGTGCTGGGATTACAGGTGTTAGCCACCATGCC 56961  
gi | 73957561 | ref | NW\_876316.1 | Cf CATT-----C  
TGGAAG----- 34559  
gi | 194719394 | ref | NC\_007316.3 | N GGACTGGGGTTCCC  
TGGAAGTGTGCACATTTTATAGATTGGTATTGAAT 43087  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCGTCCTTGACA  
GTTTTGAGGAGCCCAGCCAGGTATTTTCCAGAATG 52625  
gi | 114795057 | ref | NC\_006483.2 | N GGCCATCCTTGACA  
GTTTTGAGGAGCCCAGCCAGGTATTTTCCAGAACG 57011  
gi | 73957561 | ref | NW\_876316.1 | Cf ----ACACCAG---  
-TTTAGGAAAAGCAAGCACATCTG----- 34589  
gi | 194719394 | ref | NC\_007316.3 | N GGTAAAACTTGGGA  
GTATAGAGAACTCACAGACTTCTGTTTGAAA----- 43132  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---TGCAGGGCTCTGTGCTGGGTG----- 33496

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTTTGAGCCTCC  
TTCAAAGACTTTCCTCAGCATCGCTCAGTGACTTCT 52675  
gi | 114795057 | ref | NC\_006483.2 | N TTCTTCGAGCCTCC  
TTCAAAGACTTTCCTCAGCATTGCTCAGTGACTTCT 57061  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGCCCGAA  
GTAGCTG-----GGTACCAGCAG----- 34615  
gi | 194719394 | ref | NC\_007316.3 | N -----AAGCCGAT  
CTAACTGTTCTTTTGGGAGTTTGCAGGAAGATAACT 43177  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGAAGAAT  
ATAGCAG-----AGAACAGACATG----- 33523

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gi | 51473102 | ref | NT\_010498.15 | \_ TATGCTTCATTGTC  
CAGAGCTGGAGCCGCGGGAGCCACAGGGAGGTGGGA 52725  
gi | 114795057 | ref | NC\_006483.2 | N TATGCTTCATTGTC  
CAGAGCTGGAGCCGCGGGAGCCACAGGGAGGCGGGA 57111

gi | 73957561 | ref | NW\_876316.1 | Cf --ATCCAGCTGCTC  
TCCAGAGGCCTCTCCTGGGCCACACCTCTGTTTCG-- 34661  
gi | 194719394 | ref | NC\_007316.3 | N TCTTTTGTAGTTGCTC  
TTTTTTTGTCTTCAGTGAGAAGTCCCTTAGGGGTAGA 43227  
gi | 149361523 | ref | NC\_000074.5 | \_ ---GCCTGGTCTCC  
TGGGTTTACAGCCCAGAGG----- 33553  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATGTGACTGCGCAG  
CCGGAGGCCTCGCCTCCCTGACGCTGTGGGGTCCAC 52775  
gi | 114795057 | ref | NC\_006483.2 | N ATGTGGCTGTGCAG  
CAGGAGGCCTCGCCTCCCTGACACCGTGGGGTCCAC 57161  
gi | 73957561 | ref | NW\_876316.1 | Cf --ACACCATCAATG  
CCAAATCAATC-----ATTTTATCAGT 34696  
gi | 194719394 | ref | NC\_007316.3 | N GTATACCCTAGATA  
CCTTGCACATC-----CTTGGTGGTACC 43264  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AACAG  
GCTTAAGCCTG-----TCCTTGGGGGTAGT 33583  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGAAGGAAGTGG  
GGAGACGGGCATTACCTGGGTGACAGGCGGCCACTG 52825  
gi | 114795057 | ref | NC\_006483.2 | N TGG-AAGGAAGGGG  
GGAGACGGGCATTACCTGGGTGACAGGCGGCCACTG 57210  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCAAG-----  
-----ATGACAGTGATTTCTCAAAGCCTAAA 34729  
gi | 194719394 | ref | NC\_007316.3 | N TGGCATGGTT----  
-----CTGGCCATGGAAGACTCACCTCCTGAG 43301  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTTTCAG-----  
-----TGGCTGTTGGGAGAGTCCGGTTGAA 33615  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCGTTCTTGGGGAC  
TGAGATGCTATGGCAGTGCACATATTTTAAAAGAT 52875  
gi | 114795057 | ref | NC\_006483.2 | N TCGTTCTTGGGGAC  
TGAGATCCTATGGCAGTGCACATATTTTAAAAGAT 57260  
gi | 73957561 | ref | NW\_876316.1 | Cf GATTGTG-----  
----TTCA--AATTTAAACACAGATGCAAGCTTT 34764  
gi | 194719394 | ref | NC\_007316.3 | N TGATACC-----

-----TGCTGGGCCTGTGGTCACTTCTGCAAGACCT 43339  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----  
-----GCTTGGGACCCAAG----- 33631

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gi | 51473102 | ref | NT\_010498.15 | \_ GACTACTAAATTTA  
AATAGTTTTAAATTATAGAGAAGTCGCAGGTCCCTG 52925  
gi | 114795057 | ref | NC\_006483.2 | N GACTACTAAATTTA  
AATAGTTTTAAATTATAGAGAAGTCGCAGGTCCCTG 57310  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTTTA-----ATGCACCCACAAAAAATGT 34788  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TGATAGTTAAGAATGCAGTCTCTGAAGCCAC 43370  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AACCCAGCCCCTGCCTGCTG 33651

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGAGAATCATTG  
ATCTAGCTGTGGTTCTCTGGTGGTTTGTGGAAGATG 52975  
gi | 114795057 | ref | NC\_006483.2 | N TTTGAGAATCATTG  
ATCTAGCTGTGGTTCTCTGGTGGTTTGTGGAAGATG 57360  
gi | 73957561 | ref | NW\_876316.1 | Cf CTG--AGGTTCCTA  
AATTCTCTATGATACTCAGGGACTAAAAAAAAGAA 34836  
gi | 194719394 | ref | NC\_007316.3 | N CGTGTTGGTTCAAA  
CCTCTGCTCTGCCGCTAATGAGCTGATTAGAGCAGA 43420  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGAAGGTAAATG  
GGCAGTAAGTAACTGTTATGAACAGGAAAGGCCCAA 33701

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTCTCTCTAGCT  
TG-GTGTTACATGCTTACATGACCAGGTCCCTAGGG 53024  
gi | 114795057 | ref | NC\_006483.2 | N GCTTTTCTCTAGCT  
TG-GTGTTACATGCTTACATGACCAGGTCCCTAGGG 57409  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAAAAAGAG---  
-----AGAGAAAAGAAACTCAGG 34865  
gi | 194719394 | ref | NC\_007316.3 | N TTTCTTAATCAGCC  
CATGCCTCAGTTTCCCAAATGGAAAGTGGATAAGG 43470  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTAGAAGCCAG--  
-----GCCTGG 33719

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gi | 51473102 | ref | NT\_010498.15 | \_ ATAGGCCACCCAG  
 CCCCCTTTATGAACTCAGAGGTGTCTG-GCACGGT 53073  
 gi | 114795057 | ref | NC\_006483.2 | N ATAGGCCACCCAG  
 CCCCCTCTATGAACTCAGAGGTGTCTG-GCACGGT 57458  
 gi | 73957561 | ref | NW\_876316.1 | Cf GACTTCTCAG----  
 -----TTTGTGATTTTAATATCAAGG 34896  
 gi | 194719394 | ref | NC\_007316.3 | N GAGTTCCTCGTGG  
 TCCAGTGGCTAAGACTCTGTGCTCCCAATGCAGGGT 43520  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTCCACCCAGAG--  
 -----ACACTGCTGTCTCCTCCAG- 33751

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGGCCCTGGGAG  
 CCTCACCTCGGGAGTGAGATGTGTTAAGTCTGGGGT 53123  
 gi | 114795057 | ref | NC\_006483.2 | N TCTGGCCCTGGGAG  
 CCTCACCTCGGGAGTGAGATGTGTTAAGTCTGAGGT 57508  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATGGTCCCA-----  
 -----AGGAATCTGCTTTTCTTCTGCCTAAG-- 34931  
 gi | 194719394 | ref | NC\_007316.3 | N TCAATCCCTGGTC-  
 -----AGGGAAGTAGATGCCACATGCCACAGAT 43561  
 gi | 149361523 | ref | NC\_000074.5 | \_ --GGGCCCTAG---  
 -----GTGCTGCTGGGACTGTTTTCCATCGG-- 33786

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAGTTGCGGTTTT  
 GCAAGATGGTTAAGAGTATCGTTTTCTGGAACCAGAG 53173  
 gi | 114795057 | ref | NC\_006483.2 | N CAAGTTGCGGTTTT  
 GCAAGATGGTTAAGAGTATCATTTCTGGAACCAGAG 57558  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----ACCGCCAACACAGT 34945  
 gi | 194719394 | ref | NC\_007316.3 | N AGAAGTTC----AC  
 GTGCTGTGGCTAAAAGGTCCTCCCCACCACAAAGAA 43607  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----CCCTTCCCATCCTGAAG 33803

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTCGGTTCAAATC  
TCTGTTTTGCCACTAAGTAG-CTACGGAACTTGAA 53222  
gi | 114795057 | ref | NC\_006483.2 | N CTTTCGGTTCAAATC  
TCTGTTTTGCCACTAAGTAG-CTATGGAACTTGAA 57607  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTAG--GAGTTTG  
TTCAGGAAAAAACTTCATTGGATCCTGACTCTG--- 34990  
gi | 194719394 | ref | NC\_007316.3 | N GATCG--AAAATCC  
CCCATGCGGCAACTAAGCCGGGTGCGGCCTAATTAA 43655  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTCGGCTCAGGTC  
TGTCTTTCTGCCCTGCCTCTTCCTCCTCCTGGG--- 33850  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATTACTTAATT  
CTTCCATGCTTCAGTTTCCCATATGCAAAATGGGG 53272  
gi | 114795057 | ref | NC\_006483.2 | N CAAATTACTTAATT  
CTTCCATGCTACAGTTTCCCATATGCAAAATGGGG 57657  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GGAACA 34997  
gi | 194719394 | ref | NC\_007316.3 | N TTAATAATTAATT  
AAATATT-----TTTTTTAATATTATAAAGTGGAT 43699  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGCATTTCT 33859

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGATAGTAGAGTC  
TTCCATTGGGGGTGGTGAGTCTGAGGGCTAAGCCT 53322  
gi | 114795057 | ref | NC\_006483.2 | N AAGATAGTAGAGTC  
TTCCATTGGGGGTGGTGAGTCTGAGGGCTAAGCCT 57707  
gi | 73957561 | ref | NW\_876316.1 | Cf AACAAAAGATTGCG  
GAAGAGGGGAGGTC-GGTGGGGAGATGAGACAACTT 35046  
gi | 194719394 | ref | NC\_007316.3 | N AAAATAATAGTGTC  
TTTCATGGAGGGTG-TGAGGATTAAGCAATAAGCCT 43748  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCTGCCCTGTGTC  
CTCACTGGG-----CCTGTTCCACGT 33894

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGGGGAGCTGCG  
CACAGGGCCTGGTGTGTAGTCAGTGTCTGCAAATG 53372  
gi | 114795057 | ref | NC\_006483.2 | N TGTGGGGAGCTGCG







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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58107  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58157  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58207  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58257  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58307  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58357  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58407  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58457  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58507  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 58557  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGAAATTTCCCG 58607

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gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
----TAAAGAGTGGGCTGCG----- 53547

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gi | 114795057 | ref | NC\_006483.2 | N TCCCAAAGAAGAA  
GTCCTGGGGGGTGGGTACCGGAGGGCCGCGGGGTC 58657

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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTGAGTATAG----- 35198

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gi | 194719394 | ref | NC\_007316.3 | N -----  
----GGGAGTTAGGGGAAAG----- 43962

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GAGCG----- 34048

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gi | 51473102 | ref | NT\_010498.15 | \_ ---TATGTGGGGAC  
TCACACAGGTG-----TTTTGAAAGGTAT 53582

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gi | 114795057 | ref | NC\_006483.2 | N CTGTAAATAGATCC  
TCCTGCCAGAGGAGATTTGGTCCGTTTGTGTGGGTA 58707

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gi | 73957561 | ref | NW\_876316.1 | Cf --GTAACCTAAGCA  
-----AAAATCCT 35219

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gi | 194719394 | ref | NC\_007316.3 | N --ATAGGATGATCC  
-----GAAAGGGAT 43983

gi | 149361523 | ref | NC\_000074.5 | \_ --GTTGAGCC----  
-----ATGTTTT 34063  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATCCTAAAATAG--  
----- 53594  
gi | 114795057 | ref | NC\_006483.2 | N TTGCTAATTGAGGA  
GACCGGTCGTTTGGGGGATGGTGGACCACCGATGAC 58757  
gi | 73957561 | ref | NW\_876316.1 | Cf CTACAACCCAAC--  
-----TCCA 35235  
gi | 194719394 | ref | NC\_007316.3 | N ATTCTAATTTAA--  
-----CCAT 43999  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGCTGATTCTG--  
----- 34075  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----CCAT-----  
----- 53598  
gi | 114795057 | ref | NC\_006483.2 | N AGCCTCCAAGGAAG  
ATGGCGCTTTGTGGACTCCACAGGTTTAAGGTATTC 58807  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----  
----- 35237  
gi | 194719394 | ref | NC\_007316.3 | N TG-----  
----- 44001  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----CACCTT  
CATTTTTTTTTTTAGATTGTATCAAAATTTTCGAACAA 53640  
gi | 114795057 | ref | NC\_006483.2 | N TAAATAGCCTCACT  
CCATTTTTTTTTTAGATTGTATCAAAATTTTCGAACAA 58857  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TCCCA  
G-----CAGAG 35248  
gi | 194719394 | ref | NC\_007316.3 | N -----CCTAA  
GTTTTTTTTTAAAAAGTTTTTATTAAAATTGAAAAGGG 44042  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACACT  
G-----CAAAGA 34087  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATTAAAGCAAAGAT  
 ATGAGACTTTTATGTTTTTAAGAGAGG-CCGCTCAT 53689  
 gi | 114795057 | ref | NC\_006483.2 | N CATTAAAGCGAAGAT  
 ATGAGACTTTTACGTTTTTAAGAGAGG-CCGCTCAT 58906  
 gi | 73957561 | ref | NW\_876316.1 | Cf GGATATTTTCTGCT  
 TAGAGATG--CATGCCAGCTGTATAGATGCCCATTTG 35296  
 gi | 194719394 | ref | NC\_007316.3 | N TGT TAAAACAGGAT  
 TTGAGATTGCTATGTTTTCTGAAAGGGGTCCCATAT 44092  
 gi | 149361523 | ref | NC\_000074.5 | \_ GCATTAAACAGGGC  
 GTGAGACTTGCTGTCTTCCTGGAGAAGCCCAGAGT 34137

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAAGCTTTTCTG  
 ATCCTGGA-GGCCTCAGAGGCCGTCG-----TT 53730  
 gi | 114795057 | ref | NC\_006483.2 | N TCAAAGCTTTTCTG  
 ATCCTGGG-GGCCTCAGAGGCCGTCG-----TT 58947  
 gi | 73957561 | ref | NW\_876316.1 | Cf GTCAGGATT----C  
 ATTCTTG--GCAATCAGGGGCACG----- 35328  
 gi | 194719394 | ref | NC\_007316.3 | N GCAAAGCTTTTCTG  
 ATTCTGGAGTCACCAGAGGCCGTTGTTGTGATACTT 44142  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCCAAGCTTTTCTG  
 AGTCTGG----- 34158

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGACACTCATTCT  
 GTAG---GTTCACTGTGTTCTTGAGTTCATGTCCAT 53777  
 gi | 114795057 | ref | NC\_006483.2 | N GTGACACTCATTCT  
 GTAG---GTTCACTGTGTTCTTGAGTTCATGTCCAT 58994  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATCTCATATACACA  
 GGAGGCTTTTCCCAGTTG--AGAAGTTTTAGAGGGT 35376  
 gi | 194719394 | ref | NC\_007316.3 | N GTTTCCTGATTTC  
 GCGCGCTCTTGTGTTGCTGTCTGTTGACCAGTGACGT 44192  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----TTTTCC  
 AAGGCTCCTTCCCTGCCTG-----ACATCTGT 34191

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGGTG-CTGGTA

CCATTTTGTGCTTTTAAACACCAATTCTCGGGGTGAC 53826  
gi | 114795057 | ref | NC\_006483.2 | N GAAGGTG-CTGGTA  
CCATTTTGTGCTTTTAAACACCAATTGTCGGGGTGAC 59043  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGGGTGGTCTGTT  
CTGTGCT---TTTAAAATCTATTCTCAGAGTGAAAA 35423  
gi | 194719394 | ref | NC\_007316.3 | N TAAGGTGTCAGACA  
CTATCCTGGGCTTTGAACCAGCTCACAGG---TTGG 44239  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAAGCTTTTGGTA  
CTGTTCCAATCCCCATGGCCTCTGTAGGGCAAGAGG 34241  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGAG-ATTCCAC  
AGCCTTTTCCCCTTGCTCTCCT--AGGTCACGGACC 53873  
gi | 114795057 | ref | NC\_006483.2 | N AGGGAG-ATTCCAC  
AGCCTTTTCCCCTTGCTCTCCT--AGGTCACGGACC 59090  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGGAG-AATCCAT  
TGTCTTTTCCCCTTGCTACTCT--AGGTCACAGACC 35470  
gi | 194719394 | ref | NC\_007316.3 | N GGGGCT-GGTGCTA  
CACCTTCTCTTTTGCTCCCCCCCAGGTCACAGACC 44288  
gi | 149361523 | ref | NC\_000074.5 | \_ GGATCTGAGAGCCT  
CACCTTTGCCCCCTACCCACCC--AGGTCACAGATC 34289  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTGGTGGATGAA  
TCCAGTTTCACCGGGGAAGCCGAGCCATGTAGTAAA 53923  
gi | 114795057 | ref | NC\_006483.2 | N TCTTGGTGGATGAA  
TCCAGCTTCACCGGGGAAGCCGAGCCATGTAGTAAA 59140  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTGGTAGACGAG  
TCCAGTTTCACAGGAGAAGCCGAGCCATGTAGTAAG 35520  
gi | 194719394 | ref | NC\_007316.3 | N TCCTGGTGGACGAG  
TCCAGTTTCACGGGAGAAGCCGAGCCAAGCAGTAAG 44338  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTGGTGGATGAA  
TCCAGCTTCACAGGCGAAGTGGAGCCATGCGGCAAA 34339  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGACAGCCCCTT  
GACAGGCGGTGGGGACCTCACCACCCTCAGCAACAT 53973  
gi | 114795057 | ref | NC\_006483.2 | N ACAGACAGCCCCTT  
GACAGGCGGTGGGGACCTCACCACCCTCAGCAACAT 59190

gi | 73957561 | ref | NW\_876316.1 | Cf ACGGACAGCCCGCT  
GACGGGCGGAGGGGACCTCACCCTCTGAGCAACAT 35570  
gi | 194719394 | ref | NC\_007316.3 | N ACAGATACCCCACT  
GACAGGCGAGGGTGACCTCACGACCCTGAGCAACAT 44388  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAGACAGCCCACT  
GGCTGACGGTGGGGATCTCAGCACCCCTGAGCAACGT 34389  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGTCTTCATGGGGA  
CCCTGGTGCAGTATGGGAGGGGCCAGGTAAGCCCTG 54023  
gi | 114795057 | ref | NC\_006483.2 | N CGTCTTCATGGGGA  
CCCTGGTGCAGTATGGGAGGGGCCAGGTAAGCCCTG 59240  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTCTTCATGGGGA  
CCCTGGTGCAGTATGGGAAGGGGCAGGTAAGCCC-- 35618  
gi | 194719394 | ref | NC\_007316.3 | N CGTCTTCATGGGGA  
CCCTGGTGCAGTGCGGGAAGGGGCCAGGTGAGCCC-- 44436  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTCTTCATGGGGA  
CGCTGGTGCAGTGCGGGAAGGGTCAGGTAACAG-- 34437  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGACACCGAGGCCT  
TGGGCTCCCGTAACCCACAGGCTCCCAGCCCTTAGA 54073  
gi | 114795057 | ref | NC\_006483.2 | N GGACACCGAGGCCT  
TGGGCTCCCGTAACCCACAGGCTCCCAGCCCTTAGA 59290  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGGGACA  
CTGGCCACCCTCAACAGCAGGCTTCCAGCTTCAG-- 35660  
gi | 194719394 | ref | NC\_007316.3 | N -----CGGG-GCC  
TTGGCGTCCCTCACCTGTGGGCCTTCAGCCTCAG-- 44477  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGCCC  
CAGGGTCCTGCCAGTTATAG--CCCCAGGCCCTG-- 34474  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCATACTTCTCT  
CTCTCCTGGACACAGGGGGTTCGTGATTGGAACAGGG 54123  
gi | 114795057 | ref | NC\_006483.2 | N TTTCATACTTCTCT  
CTCTCCTGGACACAGGGGGTTCGTGATTGGAACAGGG 59340  
gi | 73957561 | ref | NW\_876316.1 | Cf -ATCTCACACTTCT  
CTCTCCTGAACACAGGGAGTTCGTGATTGGAACAGGG 35709  
gi | 194719394 | ref | NC\_007316.3 | N -ACCTCACACCCCT



CTCTCCTGGACGCAGGGCGTCGTGATCGGAACAGGA 44526  
gi | 149361523 | ref | NC\_000074.5 | \_ --CCTTACCGCCCT  
TTCTCCTCCACACAGGGAGTTGTGATCGGAACCGGG 34522

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAAGCTCTCAGTT  
CGGAGAAGTGTTTAAGATGATGCAGGCTGAAGAGGT 54173  
gi | 114795057 | ref | NC\_006483.2 | N GAAAGCTCTCAGTT  
CGGAGAAGTGTTTAAGATGATGCAGGCTGAAGAGGT 59390  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAAGTCCCAGTT  
CGGAGAAGTGTTTAAGATGATGCAGGCTGAAGAGGT 35759  
gi | 194719394 | ref | NC\_007316.3 | N GAAAAGTCCCAGTT  
TGGAGAGGTGTTCAAGATGATGCAGGCTGAAGAGGT 44576  
gi | 149361523 | ref | NC\_000074.5 | \_ GAACAGTCTCAGTT  
TGGAGAAGTTTTCAAGATGATGCGGGCAGAAGAGGT 34572

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGGGGCAGG----  
----- 54183  
gi | 114795057 | ref | NC\_006483.2 | N AAGGGGCAGG----  
----- 59400  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGGGCCAG-----  
----- 35768  
gi | 194719394 | ref | NC\_007316.3 | N AAGGGACTGGGGGC  
TTTGGGTTTCTTTCTTTTCTTTTAGATTATTTGTTTATT 44626  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGGCTGCG----  
----- 34582

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N CATGGCTGCACTGG  
GTGTTTCATTGCTGTGTGTAGGCTTTCTCTAGTTGCG 44676  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GCGAGCAGCAGCTA  
CTCGTTGTGGTGCTCAGGCTTCTCATTGCGGTTGGT 44726  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GTTGTGGAGCACGG  
GCTCTAGGGCCCCCGTTGCCTCGCTGCATGTGGGAT 44776  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N CCTCCTGGATCAGG  
GATCGAACCCGTGTCCCCCATATTGGCAGGCGGACT 44826  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----AGGGGGCTTCGGGACTTTTGTAAGCTGGAGT 54214  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----AGGGGGCTTCGGGACTTTTGTAAGCTGGAGT 59431  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGGGGACTTTGGTTTTCTTGTGAGCTGGGGT 35799  
gi | 194719394 | ref | NC\_007316.3 | N CTCAACCATTTGGAC  
CAGCAGGGAAGCCCTGGGTTTTCTTGTAAGGTGGGGT 44876  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGCCTGTGGGAG----GGTCGGGGGGGC 34606

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGAGATTATTATA  
GGCAAA-TAATACCAGCCTTGCCTACTCCTTAGGAA 54263  
gi | 114795057 | ref | NC\_006483.2 | N TTGAGATTATTATA  
GGCAAA-TAATACCAGCCCTGCCTACTCCTTAGGAA 59480  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGAGATGACTTTT  
GGCTAC-TGATAACCAGCCGTGCCCACTCCTTAGCAA 35848  
gi | 194719394 | ref | NC\_007316.3 | N TTGAGATGATTCTC  
AGCTGG-TGACACCTGCCCCACCTACTCCTTAGGAA 44925  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCAGAGCTGCAGG  
GGCTGTGAGGCTTCGGGGCTGCAGGGGGGTCTTCGG 34656

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGTGGCATGTGG  
TTCATATGAGT-----ATACTTTTTTAAACAT 54303  
gi | 114795057 | ref | NC\_006483.2 | N TGAGTGGCATGTGG  
TTAATATGAGT-----ATACTTTTTTAAACAT 59520  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAGGGTGTGGGG  
TTAATACGAGTTACGCTTTGCATGCTTTTAAAATTT 35898  
gi | 194719394 | ref | NC\_007316.3 | N CAAGGATGATATGG  
TTAATGTGAGT-----ACACTTTTTAAAACACT 44965  
gi | 149361523 | ref | NC\_000074.5 | \_ GGAGGCAGAAGAGG  
AGGGCAGCAGG-----GCAGAGGGTGGCCAG 34696

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAATTTTTTTTTTTT  
T-----AATAGAGACAGGGTTTTCGCCATGTTGCCCA 54348  
gi | 114795057 | ref | NC\_006483.2 | N TTAATTTTTTTTTTTT

TTTTTAAATAGAGACAGGGTTTCGCCATGTTGCCCA 59570  
gi | 73957561 | ref | NW\_876316.1 | Cf TATTTTTATGGAAT  
GGCGTTTATTAGGATTTGGGGGGTCAAGATATAACT 35948  
gi | 194719394 | ref | NC\_007316.3 | N TTTTACTTTGAAAT  
G---CTCATTAGGATTTTTG---TCAAGATATGACT 45009  
gi | 149361523 | ref | NC\_000074.5 | \_ CCACAGCTTCCACC  
AGACTTGTTCTAAGTCGGAGTCAGCCCTGCTCCCCT 34746

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTGGTCTCAAAC  
TCCTGAGCTCAAGCAATCTGTCTGCCTCAGCCTCCC 54398  
gi | 114795057 | ref | NC\_006483.2 | N GGCTGGTCTCAAAC  
TCCTGAGCTCAAGCAATCTGTCTGCCTCAGCCTCCC 59620  
gi | 73957561 | ref | NW\_876316.1 | Cf TACAAGCAGTAATA  
TGCACAGGCTTT---AGGGGGAGGGGTCAGTGAGTT 35995  
gi | 194719394 | ref | NC\_007316.3 | N TACGG---TGATA  
TGCACAGATCTG---AAATGTAGCAGTCTGTGGATT 45052  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAGAAAGTTGGAG  
GACACGGGATTT-----GGGATCATACTTT 34785

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGTGCCAGGATT  
ACAGGCATAAGCCACCACACCTGGCCTCTTTTCAA 54448  
gi | 114795057 | ref | NC\_006483.2 | N AAAGTGCCAGGATT  
ACAGGCATAAGCCACCACACCTGGCCTCTTTTAAA 59670  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTATAGATGCACA  
CCCCTGTGTAATCATCAATCCACTCAAGAAATTTAA 36045  
gi | 194719394 | ref | NC\_007316.3 | N TCTATATATG--TG  
TCCCTGTATAATCATCACTCAGCTTAAGATATAAAA 45100  
gi | 149361523 | ref | NC\_000074.5 | \_ TTGGGGTTTTTTTTT  
TTTTTTTTTGGTTTTTTCTTTTTTTTTTTTTTTCTTTTT 34835

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gi | 51473102 | ref | NT\_010498.15 | \_ CACGTAAGACATTT  
GTTAGCATTTTGATAAAGATACAG-CTTTCAGACAG 54497  
gi | 114795057 | ref | NC\_006483.2 | N CACGTAAGACATTT  
GTTAGCATTTTGATAAAGATACAG-CTTTCAGACAG 59719  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAGCCCAACAG--  
----- 36057

gi | 194719394 | ref | NC\_007316.3 | N AAATCCAAGCAGGG  
TCTTCCCTGGCGGTCCAGTGGTTGGGATTCTGTGCT 45150  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTGCGAGACAG--  
----- 34847  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAATACGCACAGGT  
CTTCAGTGCAAAAGTCAATGAATGTTGACATATGTG 54547  
gi | 114795057 | ref | NC\_006483.2 | N TAATACGCACAGAT  
CTTCAGTGCAAAAGTCAACGAATGTTGACATATGTG 59769

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N TCTACTGCAGAGGG  
CACGAGT---TCCATCCCTGGTCAGGGA ACTAAGAT 45197  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TACCCCTGTGTAAT  
CATCACTGAAGCTGTAGGATGGCAAGGTGAAGACAT 54597  
gi | 114795057 | ref | NC\_006483.2 | N TACCCCTGTGTAAT  
CATCACTGAAGCTGTAGGATGGCAAGGTGAAGACAT 59819  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TCCACAAGC-----  
--TCACAGTG CAGCCAAAAAAAAAAAAAAAAAGAGAGAGA 45240  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGAACAAAGGCA  
GGCAGAAGCTAGGATCTTGTCCA ACTAACCATTGT 54647  
gi | 114795057 | ref | NC\_006483.2 | N TTTGAACAAAGGCA  
GGCAGAAGCTAGGATCTTGTCCAGCTAACCATTGT 59869  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAGCTGAG  
GGGCACTACCGGGGTCTCCTCTAACACACCCACTG- 36100  
gi | 194719394 | ref | NC\_007316.3 | N GAATAGAAGCAGGA  
GGGCACTCCAGATCTCATCTAACAACTCATTGT 45290  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GGTTTCTC

TGTATAACCCTGGCTGTCCTGGAACCTCACTTTGTAG 34891

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTCACCCCTTTCAG  
 ACACCTAAAACCTCCTTTGCAGAAAAGCATGGACAGG 54697  
 gi | 114795057 | ref | NC\_006483.2 | N GCTCACCCCTTTCAG  
 ACACCTAAAACCTCCTTTGCAGAAAAGCATGGACAGG 59919  
 gi | 73957561 | ref | NW\_876316.1 | Cf --TTATCCTTTCAG  
 ACGCCTAAAACCCCGCTACAAAAAAGCATGGACAAG 36148  
 gi | 194719394 | ref | NC\_007316.3 | N TCTCATCCTTTTGTAG  
 ACACCTAAAACCTCCTCTACAGAAAAGCATGGACAAG 45340  
 gi | 149361523 | ref | NC\_000074.5 | \_ ACCAGGCTGTCCTC  
 GAACTCAGAAATCCGCCTGCCTCTGCCTCCCGAGTG 34941

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gi | 51473102 | ref | NT\_010498.15 | \_ CTAGGAAAGCAACT  
 GACACTCTTCTCCTTTGGCATAATCGGTGAGTGAAG 54747  
 gi | 114795057 | ref | NC\_006483.2 | N CTAGGAAAGCAACT  
 GACACTCTTCTCCTTTGGCATAATCGGTGAGTGAAG 59969  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTGGGGAAGCAGCT  
 GACACTTTTCTCATTGGCATAATCGGTGAGTGAAG 36198  
 gi | 194719394 | ref | NC\_007316.3 | N CTGGGGAAGCAACT  
 GACACTCTTCTCATTGGCATAATCGGTGGGTGAAG 45390  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTGGGATTAAGGT  
 GTGTGCCACCACGCCCGGCCTATACTTTTTGTTTTT 34991

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTTTCCATACTG  
 GGTTTGTCTG-----CAGAT 54777  
 gi | 114795057 | ref | NC\_006483.2 | N CAGTTTCCATACTG  
 GGTTTGTCTG-----CAGGT 59999  
 gi | 73957561 | ref | NW\_876316.1 | Cf CG---TCTGTACTC  
 AGTCCAG-----GGTAC 36221  
 gi | 194719394 | ref | NC\_007316.3 | N CAGTTTCTGCATGG  
 GGTCCTGGCAGGGGTGGAAGAGGGGGTGGGGGGTGT 45440  
 gi | 149361523 | ref | NC\_000074.5 | \_ TAATTTTAAAACCTT  
 AGCATGT-----GTGCT 35017

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGGGAGCCATC  
ATAGGGGGGTTGCCATGGCCGTTTCTCAAATATCTT 54827  
gi | 114795057 | ref | NC\_006483.2 | N GGAGGGGAGCCATC  
ATAGGGGGGTCACCATGGCCGTTTCTCAAATATCTT 60049  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGGGAAGCCAT-  
CTGAGCAG----CCGCGGCTTTTTCTCAGAAATCCT 36266  
gi | 194719394 | ref | NC\_007316.3 | N GGAAGGGAGCCATC  
CTGTGCAC----CCATAGCTGTCTCTCAAATACCTT 45486  
gi | 149361523 | ref | NC\_000074.5 | \_ GACGAGACGCCAAT  
CTTGGTGACTCTCATGCGGGAGACTCCCGAAGGTTA 35067

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTACTCAGCTGCA  
TAAGGCTTGGGGATTGGGATCAGAGGCTCTCCACAA 54877  
gi | 114795057 | ref | NC\_006483.2 | N GCTACTCAGCTGCA  
TAAGGCTTGGGGATTGGGATCAGAGGCTCTCCAAA 60099  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGCTGACTTGGG  
TGAGGACCGAGGTTTGGGATTGGCG--ACTCTGATA 36314  
gi | 194719394 | ref | NC\_007316.3 | N ACTACTCACCTGGG  
TGAGGACTGGGGTTTGGGATCAGAGGTTCTTGGTCA 45536  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTCAGAATTCCA  
TGTGTGCCTTG-----ACACCCCCACCCCTGCA 35110

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAACAAGAGCTTT  
CTGTATAGTTGGACCAGGCTGGCTGCTGTAACAAGC 54927  
gi | 114795057 | ref | NC\_006483.2 | N GCAACAAGAGCTTT  
CTGTATAGTTGGACCAGGCTGGCTGCTGTAACAAGC 60149  
gi | 73957561 | ref | NW\_876316.1 | Cf GTACCAAGAGGTTT  
CTGTCTTAGCC---CAGGCTGACTGTT--AGCAAGC 36359  
gi | 194719394 | ref | NC\_007316.3 | N GCAGCAAGAGGTTT  
CTGTATCAATCGGACAAGCTAGCAGCAGTAACAGGT 45586  
gi | 149361523 | ref | NC\_000074.5 | \_ AAAAAATAAAATAA  
AAATAAAAACCTTACCATGTTTATCAAATATATGGGC 35160

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCACTACATTTT  
CTTGGCTTAACAGAGTAAACGCTTGTTTCCTTGCTCA 54977

gi | 114795057 | ref | NC\_006483.2 | N AGCCACTACATTTT  
CTTGGCTTAACATAGTAAACGCTTGTTCTTTGCTCA 60199  
gi | 73957561 | ref | NW\_876316.1 | Cf AGC-CCTGCATTGT  
GATGGCTTCACCTGGGCAAGGTGTA CTCTTGCTCT 36408  
gi | 194719394 | ref | NC\_007316.3 | N AGCTCCTACATTTT  
AATGGCTTAACATGATCATAACTTATTTCTTGCTTA 45636  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGTACCCAAGGT  
CACTGATGGTCCCTCCACCCCTCCCTCTCCCCCTCA 35210

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCGCAGTCCAAA  
GTCCGTGGG-TGTATTCCTGGTCCAGTGGCTCTCCT 55026  
gi | 114795057 | ref | NC\_006483.2 | N CACCGCAGTCCAAA  
GTCCGTGGG-TGTATTCCTGGTCCAGTGGCTGTCCT 60248  
gi | 73957561 | ref | NW\_876316.1 | Cf CAACCCAG-----  
-TCCATGGGGCACGTTCTGATGGAGTGGCTTTCCA 36451  
gi | 194719394 | ref | NC\_007316.3 | N CACTGCAG-----  
-TCCGTGGG-CACATTCCTGGTCAAATGGCTTTCCC 45678  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCTGCAG-----  
--ACACCTAAAACGCCGCTGCAGAAGAGCATGGACA 35252

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATAGCTCGCCTA  
CAAACAGTGA CTTG--GGCCCAGGCCCTGTTACAT 55074  
gi | 114795057 | ref | NC\_006483.2 | N GGATAGCTCGCCTA  
CACACAGTGA CTTG--GGCCCAGGCCCTGTTATAT 60296  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGCAGGTCACCTC  
CAGGGAAAGG-----GTCTCAGGCCCTACCACAG 36495  
gi | 194719394 | ref | NC\_007316.3 | N AGGTAGCTCACTTC  
TGAACACTGA CTTG CAGTCCCAGGCTCCTGCTGTAT 45728  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCTGGG-----  
-----CAAGCAGCTAACAATC 35275

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTGCTCTATCTT  
CCTCTGGGTCCTTGAG-----GCCATGTTTCTGT 55118  
gi | 114795057 | ref | NC\_006483.2 | N TGCTGCTCTATCTT  
CCTCTGGGTCCTTGAG-----GCCATGTTTCTGT 60340  
gi | 73957561 | ref | NW\_876316.1 | Cf TATTGTCCT-CCCT



CTTCCGGGTCCTCAGAG--GTGGGCCATAAATTCTGT 36542  
gi | 194719394 | ref | NC\_007316.3 | N TGTTGTTCTGCCTT  
CCTCCAGTTCCTGGGAGGAGTGGGCCATAAATTCTGT 45778  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTTCCTTTGGCAT  
CATCGG-----TAAGTG-----AAGTCGGT 35309  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGCCAGCAGATG  
GTGAAAGAGGAAACATGGAGGCTTGTGGAGG----- 55163  
gi | 114795057 | ref | NC\_006483.2 | N TCAGCCAACAGATG  
GTGAAAGAGGAAACATGGAGGCTTGTGGAGG----- 60385  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAGCCAGCAAGTG  
GGGAAAGCCG-GCAACAGAGGCTTGTGTGGG----- 36586  
gi | 194719394 | ref | NC\_007316.3 | N TAAACCAGCAGATG  
GGGAAAGAAAGAACATAGAGACTTGTGGGGAGTGGG 45828  
gi | 149361523 | ref | NC\_000074.5 | \_ TCT-----TGATG  
GGTTCTGCAGACCCATCAGGGCCACGTGGGTG---- 35349  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-ACATTTTTTAAGGCATAGACCAGGAAGTGAATCAT 55198  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-ACATTTTTTAAGGCATAGACGAGGAAGTGAATCAT 60420  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
AAATGTTGAAGGCTTGGGCCCAAGGTGGGGTCAT 36622  
gi | 194719394 | ref | NC\_007316.3 | N GGTGGGAGGGGGAG  
CATTTTTTTAAAGGCAGGGACCAGGAAGTGAAGTCAT 45878  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAACTTCAGGGACTCCGTGTTGG----- 35372  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAATTTG-ACCATC  
TTTTATTGGCCAGAATGGAGTCACATGGCCTACATA 55247  
gi | 114795057 | ref | NC\_006483.2 | N CAATTTG-ACCATC  
TTTTATTGGCCAGAATGGAGTCACATGGCCACATA 60469  
gi | 73957561 | ref | NW\_876316.1 | Cf CACCTTG-CCCGTT  
CTCGATTGGCCAGAATGGAGTCACATGGCCTAGCTG 36671  
gi | 194719394 | ref | NC\_007316.3 | N CACTTTTGCCCAT  
CTTGATTGGCCAGAATGAAGTCACATGGCCTACCTA 45928

gi | 149361523 | ref | NC\_000074.5 | \_ -----GTACCATA  
CATTACTGGGTGTCTGGGGGTTTCCACTGCTGTGAA 35416

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGCAAAGGAGAC  
TGGGAAATGTAGTTTATCTGTGCACCCAAACATATT 55297

gi | 114795057 | ref | NC\_006483.2 | N ACTGCAAAGGAGAC  
TGGGAAATGTAGTTTAACTGTGCACTCAACCATATT 60519

gi | 73957561 | ref | NW\_876316.1 | Cf GCTGCAGAAGAACC  
TGGGAGCTGTAGTTTAGCGGGGCACCCCGCAGGAGC 36721

gi | 194719394 | ref | NC\_007316.3 | N ACTGCAAAGCAGAC  
TGGGAAATGTAGTCTGGTGGTGCACCGG-CAGGT-T 45976

gi | 149361523 | ref | NC\_000074.5 | \_ GAGACACTG-TGAC  
GAAAGGCAACTCTTACAATGGATAACATTTAATTGG 35465

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTATGCTTCTAAG  
CAGGCTGTTTCTGGACTGGGACTTTCCTGACCTTTGG 55347

gi | 114795057 | ref | NC\_006483.2 | N TCTATGCTTCTAAG  
CAGCGTGTGCCTGGACTGGGACTTTCCTGACCTTTGG 60569

gi | 73957561 | ref | NW\_876316.1 | Cf TCTATGCTACTGAG  
CAGGCCGTGCCT-----CTTGGCCTTTGG 36759

gi | 194719394 | ref | NC\_007316.3 | N TCTATGCTGTGCCT  
GGGCTTGTTCCT-----CCTGACCTTTGG 46014

gi | 149361523 | ref | NC\_000074.5 | \_ TGTTGGCTTATGGT  
TGAGATGTTTCA-----TCAATTAT 35499

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gi | 51473102 | ref | NT\_010498.15 | \_ TAACACAACAAACA  
GCATTGACATGATGCTGCGGTTCTGAATCTAGATCT 55397

gi | 114795057 | ref | NC\_006483.2 | N TAACACAACAAACA  
GCATTGACATGATGCTGCGGTCCTGAATCTAGATCT 60619

gi | 73957561 | ref | NW\_876316.1 | Cf CAACACACCAGACA  
GGATCAACATGATGCTGAGGACCTAAAAGTAGGTCT 36809

gi | 194719394 | ref | NC\_007316.3 | N CAGCATAACAAACA  
GTATCCCATGGTGTGCTGCAGCCCAAATTCAGGTCT 46064

gi | 149361523 | ref | NC\_000074.5 | \_ CATCAAGGCAGAAA  
GCATGGCAGTGGCCAAGCAGACATAGTGCAGG---- 35545

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gi | 51473102 | ref | NT_010498.15 | _          TAAGGCTTGACATC
CCCATAGTGCTGCCCCAGTCCCTTCTGGGGCTTCTT 55447
gi | 114795057 | ref | NC_006483.2 | N          TAAGGCTTGACATC
CTCATAGTGGTGCCCCGGTCCCTTCACTGGCTTCTT 60669
gi | 73957561 | ref | NW_876316.1 | Cf          TAG-CCTGAATGTC
CCCATGGGGCTTCCCTGGTGCCTTACCGTCTCCTT 36858
gi | 194719394 | ref | NC_007316.3 | N          TATTCCTGAAT---
-----TATACCCTGGTTCCTGCACCTGCCCTT 46103
gi | 149361523 | ref | NC_000074.5 | _          -----
-----AGGAGCTGAGAGTGCTACAT 35565

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gi | 51473102 | ref | NT_010498.15 | _          CCTGTTCTTTCCAT
ATCTGGCCTTACTTCTGTGTCCTTTATTCCAGCCTT 55497
gi | 114795057 | ref | NC_006483.2 | N          CCTGCTCTTTCCAT
ATCTGGCCTTACTTCTGTGTCCTTTATTCCAGCCGT 60719
gi | 73957561 | ref | NW_876316.1 | Cf          CCTGCTATCTCCAG
CTCTGGCTTTGATTCTGTGTTCTTCATTCTCAGCTT 36908
gi | 194719394 | ref | NC_007316.3 | N          CCTGCTGCCTCCAG
CTCTGGCTTTGAGTCTGTGTCCTTCGTTCTCAGCTT 46153
gi | 149361523 | ref | NC_000074.5 | _          CTTGATTGGAAGGC
AGCCAGGGGAATACTGGCTCCCATGTGACTTGGAGG 35615

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gi | 51473102 | ref | NT_010498.15 | _          -----T
AGGATC---AACCCATGCCTGGCCCCTAATAGATTC 55531
gi | 114795057 | ref | NC_006483.2 | N          GCCTGGCCCCTAAT
AGATTCTCAGGCCCGTGCCTGGCTCCTAATAGATTC 60769
gi | 73957561 | ref | NW_876316.1 | Cf          -----TA
AGGATC---CACTGGCTCCTGGCCCATAGCAGATCC 36943
gi | 194719394 | ref | NC_007316.3 | N          -----CC
AGGGTC---AACCAGTGCCTGGGCCATTATAGATTC 46188
gi | 149361523 | ref | NC_000074.5 | _          -----
AGGGTC-----TCTAAGCCCACCCCCACAGTGACAC 35646

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGTAAATATTTG

TTGAGTAAAACATTTAATCAAGGAATAAACCAACAA 55581  
gi | 114795057 | ref | NC\_006483.2 | N TCAGTAAATATTTG  
TTGAGTAAAACATTTAATCAAGGAATAAACCAACAA 60819  
gi | 73957561 | ref | NW\_876316.1 | Cf TTAATCAGCACTTG  
TTGAGTGATGTGTT-AATAAAGGAACCAACCAAGGA 36992  
gi | 194719394 | ref | NC\_007316.3 | N TCAATAAATGTTGG  
TTTAGTG-----AATAAAGGAACAAAGCAGCCA 46230  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTTCCTCCCC---  
-----AACACCACCTAATAGTAT 35675  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCCACTGCCTATAG  
CACATCTAGTGATGAGGG-GGGTGCTGGTGAGTGTA 55630  
gi | 114795057 | ref | NC\_006483.2 | N GCCACTGCCTACAG  
CACATCCAGTGATGAGGG-AGGTGCTGGTGAGTGTA 60868  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCACTGCTCATAG  
CACAGGGAGTGATGAAAGGAAGAACCAGTGAGGCTC 37042  
gi | 194719394 | ref | NC\_007316.3 | N ACCACTGCCCATAG  
CACAAGCAGTGATGAGAG-GAGCTCTAGTGAGTCTG 46279  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCACTCCCTGGAT  
CAACCATATTCAAACCACCATACTTGAAATTGGG 35725  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCCAAAACACTGCGAA  
G-CCAGAGAACAGTCTTGAGAGAAACAGCTTATGTA 55679  
gi | 114795057 | ref | NC\_006483.2 | N GCCAAAACACTGCGGA  
G-CCAGAGAACAGTCTTGAGAGAAACAGCTTATGTA 60917  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTAAAACACTTGTAG  
AGCCAGAGAAAGTTCATGGGAGAAACAGG---TGTC 37089  
gi | 194719394 | ref | NC\_007316.3 | N GCTAAAACACTGCAGA  
G--TGGAGAAAGTTCCTTGAGAGAAAGAGGCGGCTGTC 46327  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCTCCTCTTTGGG  
TTCTTAGTCTCACTAATAAAAGAATTTATTTATTTA 35775  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCCATGTTTCTT  
AAGTTAAATTAGAACTTAAATTG-ACATGTCCACAG 55728  
gi | 114795057 | ref | NC\_006483.2 | N AGCCCATGTTTCTT  
AAGTTAAATTAGAACTTAAATTG-ACATGTCCACAG 60966

gi | 73957561 | ref | NW\_876316.1 | Cf CCTCGTAG-----  
-----AAGCACTTTTGTGTTGTCTCTGGCCAC 37124  
gi | 194719394 | ref | NC\_007316.3 | N CCTCCTAG-----  
-----CAGCAGTTTTGTCGTGCTTCTGGTCAT 46362  
gi | 149361523 | ref | NC\_000074.5 | \_ T-----  
-----TTATTTATTAAAGATTTATTTAT 35799

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAGACCCATGATA  
TCATTCAGACATTTTTTTTTG--AGGGGGCAGGAATG 55776  
gi | 114795057 | ref | NC\_006483.2 | N CAAGACCCATGATA  
TCATTCAGACATTTTTTTTTTTTTTTTGGGTGGGGAATG 61016  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAGGTGCATGAAT  
TCATTTAACAAGTGTCTTAT----- 37158  
gi | 194719394 | ref | NC\_007316.3 | N CCAGATGCATTGGT  
TCATTTAACGAGTATCTTAT----- 46396  
gi | 149361523 | ref | NC\_000074.5 | \_ TATTATGCATAAGT  
ACACTGTAGCTGACTTCAGA----- 35833

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTCTCACTCTGT  
TGCCCAGACTGGAGAGCAGTGGCGTGATCTCAGCTC 55826  
gi | 114795057 | ref | NC\_006483.2 | N GAGTCTCACTCTGT  
TGCCCAGACTGGAGTGCAGTGGCGTGATCTCAGCTC 61066  
gi | 73957561 | ref | NW\_876316.1 | Cf --GACAAGCTAG--  
-ATCCTGGGATATGTTTGGGAGC---TACCACGATG 37200  
gi | 194719394 | ref | NC\_007316.3 | N --GACACACTTG--  
-ACCCTGCGATAGGTTCTGGGGC---CACTGAGATG 46438  
gi | 149361523 | ref | NC\_000074.5 | \_ --CACACCAAAGA  
GGGCATCAGATCTCATTATTGGTG-----GTTGTG 35875

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGCACCCTCTGC  
CTCCTGGGTAAACCAATTCTCCTGCCTCAGCCTCCT 55876  
gi | 114795057 | ref | NC\_006483.2 | N ACTGCACCCTCTGC  
CTCCTGGGTAAACCAATTCTCCTGCCTCAGCCTCCT 61116  
gi | 73957561 | ref | NW\_876316.1 | Cf TAT-CAAATGCAGC  
TTCTG-----CCCTTTGAAAGACCCCT 37235  
gi | 194719394 | ref | NC\_007316.3 | N AGT-AAGACACAGC

TTCTT-----CCCTTTGGAGGACTCCA 46473  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCCACCATGTGGT  
TGCTG-----GGATTTGAACTCAG 35908

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gi | 51473102 | ref | NT\_010498.15 | \_ GAATCTCTGGGATT  
ACAGGCATGCACCATCACGCCAGCTGATTTTTTGTA 55926  
gi | 114795057 | ref | NC\_006483.2 | N GAATCTCTGGGATT  
ACAGGCATGCACCGTCACGCCAGCTAATTTTTTGTA 61166  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTCATAAAGAGAG  
AGATACTGAACAAATACGAAATGTAAAGGTAGCAG 37285  
gi | 194719394 | ref | NC\_007316.3 | N GAGAAGTAGGAGAG  
AGACACCTGAACAAATATGAAATGTGAAGGTAGCTG 46523  
gi | 149361523 | ref | NC\_000074.5 | \_ GACCTTTGGAAGAG  
CAGTCAGTGCTCTTACCCGCTGAGCCATCTCGCCAG 35958

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTGGT-AGAGA  
CAGGGTTTTGTCATGTTGGCCAGGCTGGTCTCAAAC 55975  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTGGT-AGAGA  
CAGGGTTTTGTCATGTTGGCCAGGCTGGTCTCAAAC 61215  
gi | 73957561 | ref | NW\_876316.1 | Cf TTAATCTGGAGTGG  
GAGACCTGGGAG-----TTATGACATTA 37322  
gi | 194719394 | ref | NC\_007316.3 | N TTAATTTTTGCATGG  
GAGAGTTGAGAAGGCTTCAAAGAGGAGGTGACGTTA 46573  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCTTATTTATGTT  
TTG-----TTCGATT 35982

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTGG-TCTCAAG  
TGATCTGCCCCGCTTGGCCTCCCAAAGTGCTAGGAT 56024  
gi | 114795057 | ref | NC\_006483.2 | N TCCTGG-CCTCAAG  
TGATCTGCCCCGCTTGGCCTCCCAAAGTGCTAGGAT 61264  
gi | 73957561 | ref | NW\_876316.1 | Cf AACTGAGTCTTGCA  
GGCTAAGTAGGAGTTTGCCAAATGAAAAAAGAGGGA 37372  
gi | 194719394 | ref | NC\_007316.3 | N AGTTGGGTCTTGTA  
GGATGGGTAGGAGTTTGCCAAAGTAAAAAAGAGAA 46623  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTTTTTTTTTTTTT  
TTTTCAAGACAGGGTTTCTCTATGTAGCCCTGGCTA 36032

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gi | 51473102 | ref | NT\_010498.15 | \_ TACAGGCATGAGCC  
ACCGCACTGGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT- 56073  
gi | 114795057 | ref | NC\_006483.2 | N TATAGGCATGAGCC  
ACCGCACTGGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT 61314  
gi | 73957561 | ref | NW\_876316.1 | Cf GTTAAGAATTCCAG  
ACAGAAAAA----- 37395  
gi | 194719394 | ref | NC\_007316.3 | N GATTG-----  
----- 46628  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCTG-----  
----- 36037  
: .

gi | 51473102 | ref | NT\_010498.15 | \_ --AACATTTTGGGA  
ACTGCTCTAGCAGATGGAGAGTTTTGACACTCAGTC 56121  
gi | 114795057 | ref | NC\_006483.2 | N TTAACATTTTGGGA  
ACTGCTCTAGCAGATGGAGAGTTTTGACATTCAGTC 61364  
gi | 73957561 | ref | NW\_876316.1 | Cf --TAATAAAAAAAT  
AAAAATAAATAAAAAAAGAAAAAAGAATTCCAGAC 37443  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GGAATTCAGAC 46640  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GAACTCATTC 36047

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gi | 51473102 | ref | NT\_010498.15 | \_ CCATGGACCCCCTA  
GAAGGCCCAAGGGGCAGGTGCAGGGAAGCAACACCA 56171  
gi | 114795057 | ref | NC\_006483.2 | N CCATGGACCCCCTA  
GAAAGGCCCAAGGGGCAGGTGCAGGGAAGCAACACCA 61414  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAG-----  
AAAGGATATATTCACAGGCATGGAGGGGATC-CTCA 37483  
gi | 194719394 | ref | NC\_007316.3 | N CAAGG-----  
AAAACATATATGCAAAGGCATGGAAGGTATCTCCCA 46681  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTAG-----A  
CCAGGCTGGCCTTGAACCTCAGAAATTCGCCTGCCTC 36089  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTGGTCAGCGCT  
TCTAGAGGAAAGTAGCATTGCGCAATTCCCATGGTG 56221  
gi | 114795057 | ref | NC\_006483.2 | N TGCTGGTCAGTGCT  
TCTAGAGGAAAGTAGCATTGCGCAATTCCCATGGTG 61464  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCCTTTGTAACCTT  
ATGAGAGGTTAGTAAATTTAGCAGAGAGGTTAAGAG 37533  
gi | 194719394 | ref | NC\_007316.3 | N TTCCTTTACAACCTT  
TAGGAGG--TTGTAAAATTAGCAAAGTG-TTAAGAG 46728  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCCTCCCAAATAC  
TGGGATTAAATGCGTGTGCCACTACCACCACCAAT 36139

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATACTCTCAGT  
GTGGCCGTTTTCAAGCTACTAATGTATAGACACAGA 56271  
gi | 114795057 | ref | NC\_006483.2 | N CAAATACTCTCAGT  
ATGGCCGTTTTCAAGCTACTAATGTACAGACACTGA 61514  
gi | 73957561 | ref | NW\_876316.1 | Cf GATGTGGTCTGAAG  
TCA---GGGCTTCCAGTTCTGTGTGCTAGGGACAG 37580  
gi | 194719394 | ref | NC\_007316.3 | N GATATGATCTGAAT  
TTG---GATCTCTCAATTCTATCATGCTAGAGATAG 46775  
gi | 149361523 | ref | NC\_000074.5 | \_ AAAATAATGTCTAA  
ATGAGCTTGGGGACATTTTTTATTAGAGTTTGAGAGA 36189

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gi | 51473102 | ref | NT\_010498.15 | \_ ACATGGATTTCGGA  
AGAGATGTACCTAGTTGATTCTTGTGAGCTCCTGTG 56321  
gi | 114795057 | ref | NC\_006483.2 | N ACATGGATTTCGGA  
AGAGATGTACCTAGTTGATTCTGTGAGCTCCTGTG 61564  
gi | 73957561 | ref | NW\_876316.1 | Cf ATCCG-----  
----- 37585  
gi | 194719394 | ref | NC\_007316.3 | N ACCTG-----  
----- 46780  
gi | 149361523 | ref | NC\_000074.5 | \_ AACTA-----  
----- 36194

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGAGTCTCCAGCC  
TTCTACTATGGGAATGCCACAAGGGTGGAGTGAGTA 56371  
gi | 114795057 | ref | NC\_006483.2 | N AGGAGTCTCCAGCC



TTCTACTATGGGAATGCCACAAGGGTGGAGTAAGTT 61614  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTCGCC  
CTTTCTTCCCTGGGTACCATTT----- 37613  
gi | 194719394 | ref | NC\_007316.3 | N -----CCTGCC  
CTTTCCTCCCTGGCCACCCCTT----- 46808  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATGGA  
ACATCTTTCAGGGAGGAGAATT----- 36221

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTAGTGGGGGTGG  
CTCTAGGCTCACTGCCTCACCCCTATTTCCAATAGA 56421  
gi | 114795057 | ref | NC\_006483.2 | N CCTAGTGGGGGTGG  
CTCTAGGCTCACTGCCTCACCCCTATTTCCAATAGA 61664  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCAAAATTCCAGT  
GTCTAGTCTATTTTCCAATTTCAACTTTGGCTTTA 37663  
gi | 194719394 | ref | NC\_007316.3 | N CCCCATTTCTCTAGT  
TTCTAGGCTCCTTTCCAATGTCAATTTTGATATT 46858  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTGGGAGG  
GAGGAGGAAGCTGAACGATGTCCATGGCTCTCTAGA 36265

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTCCCCTTGCTAA  
TCTATTTTCATTTGAGTTCATTTGGGTTCTAGCTAAG 56471  
gi | 114795057 | ref | NC\_006483.2 | N GCTCGCCTTGCTAA  
TCTATTTTCATTTGAGTTCATTTGGGTTCTAGCTAAG 61714  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCTCTCAGAGTTG  
GCTAAATCACTAGCTTTAAT----GTTTTTACGTAA 37709  
gi | 194719394 | ref | NC\_007316.3 | N G-TACTCAGAGTTT  
GCTCAGTCAGTAGGTTTCCT----GTTTTTCGAATAG 46903  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTAGACCAGAATG  
--TTCTGCCATGGAGGTCAG----- 36297

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTTCAGCTGATGA  
CTGAGTTTAGTAGCCAATAGTAGAATGCCCAAACA 56521  
gi | 114795057 | ref | NC\_006483.2 | N ATTTCAGCTGATGA  
CTGAGTTTAGTAGCCAATAGTAGAATGCCCAAACA 61764  
gi | 73957561 | ref | NW\_876316.1 | Cf CT-----  
----- 37711

gi | 194719394 | ref | NC\_007316.3 | N CT-----  
----- 46905  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACTAACAGATAC  
TGTGGCAGCTGCCCCCTCAATACATACACACAC 56571  
gi | 114795057 | ref | NC\_006483.2 | N AACTAACAGATAC  
TGTGGCAGCTGCCCCCTCAATACATACACACAC 61814  
gi | 73957561 | ref | NW\_876316.1 | Cf -----C  
TATGTCTTCTTCCCTTCT----- 37730  
gi | 194719394 | ref | NC\_007316.3 | N -----C  
TGTGTCCTCTTCCCTCCT----- 46924  
gi | 149361523 | ref | NC\_000074.5 | \_ -----C  
AGTGTCGTATGGTGAAGG----- 36316

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCCGCTACCATC  
CATCAGAAAACATCCCTGGCCCCCTGGCCCCCTGCAA 56621  
gi | 114795057 | ref | NC\_006483.2 | N ACCCCGCTACCACC  
CATCAGAAAACATCCTTGGCCCCCTGGCCCCCTGCAA 61864  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCCACC  
CTATT-----TTGTCCTGAAGCC--ATAAT 37760  
gi | 194719394 | ref | NC\_007316.3 | N -----TTCCGCC  
CTAGT-----TTTCCCTGGAGCAGTTTCAT 46956  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGACGGC  
GTGAG-----GGGTTGCTTCAC 36340

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAAAGCTAACGT  
TCTTTAGCAAGCTCTCCAAGGGTGTACCTGGCAAC 56671  
gi | 114795057 | ref | NC\_006483.2 | N AGCAAAGCTAACGT  
TCTTTAGCAAGCTCTCCAAGGGTGTACCTGGCAAC 61914  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAAGA-----  
-----TAGGTTTTATCT----- 37778  
gi | 194719394 | ref | NC\_007316.3 | N GGAAG-----  
-----TGGGTTTTATCT----- 46974  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGAAA-----

-----ACCT----- 36350

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCACCCACCTTCC  
 CAGTCCCTACTCAC----- 56699  
 gi | 114795057 | ref | NC\_006483.2 | N ACCACCCACCTTCC  
 CAGTCCCTACTCACTCCTTCCGTTAATGATGGCAAC 61964  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----TAACCTGCC  
 AAGTCTGATCTCTA----- 37801  
 gi | 194719394 | ref | NC\_007316.3 | N -----TAACTG-TC  
 AAGTCTTATCACAG----- 46996  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----TGAGAAAAC  
 ATGTCCCGTCTTTG----- 36373

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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 gi | 114795057 | ref | NC\_006483.2 | N AAGAGTTAACGATT  
 AGGCTTGTGTTTGCTGTCGTCCAGGAGCTGTGCTGA 62014  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----  
 gi | 194719394 | ref | NC\_007316.3 | N -----  
 -----  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
 -----  
 gi | 114795057 | ref | NC\_006483.2 | N GCACAGACTGTCAC  
 ACCTTAAACCAGGGAACACTCTTTGAGGGGTGCAC 62064  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----  
 gi | 194719394 | ref | NC\_007316.3 | N -----  
 -----  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GGCCATGAGCCCCA  
TTTTACAGATGAGGAGATGCAGGCTGCACCACGCAA 62114  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CCCGAGCACCTTTC  
CCTGTGGCCAGAGCATCTCATGAACTTCCACAGGCC 62164  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----ACCT 56703  
gi | 114795057 | ref | NC\_006483.2 | N CCAGGGCAGCTCTT  
GCCATTTGTGCCTTGAGGGTCTATCCGTAACCACCT 62214  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAG 37805  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCAG 47000  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCGTGTCTCGTACA  
CCTAGTGCAGTAACTGGTGTGCAGTACGTATTTGGT 56753

gi | 114795057 | ref | NC\_006483.2 | N CCGTGTCTCGTACA  
CCTAGTGCAGTAACTGGTGTGCAGTACATATTTGGT 62264  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGGG-----  
-----CTTTGAGGTCATGTTTCCTGCTTGGT 37835  
gi | 194719394 | ref | NC\_007316.3 | N GGAGGGCTCTGTGC  
TTGTGAGAGGATTTGGAGGCCGTGCTCAGGCATGGT 47050  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GTCAGTACCCAAAAGAAA 36391

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATTATTAATGAA  
GGAAAATGGAAATGGAGTATATTTAATCATGAGTAC 56803  
gi | 114795057 | ref | NC\_006483.2 | N AAATTATTAATGAA  
GGAAAATGGAAATGGAGTATATTTAATCCTGAGTAC 62314  
gi | 73957561 | ref | NW\_876316.1 | Cf GGC-----AAGGA  
CGACAGTGACAGATTAGGGAAGGCTGTCATGGACAC 37879  
gi | 194719394 | ref | NC\_007316.3 | N G-----GAGGA  
GGACTGTGATAGATTAGTGATGTCTGTCATG----- 47087  
gi | 149361523 | ref | NC\_000074.5 | \_ GAG-----ATAGA  
AGAGAATAGAAAGGAAAAGCTACTTCTCTGAG----- 36431

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gi | 51473102 | ref | NT\_010498.15 | \_ CACAGAGTAAAATA  
ATTTGAAAAAACAGTGACCTATCTGCCCATCACAGG 56853  
gi | 114795057 | ref | NC\_006483.2 | N CACAGAGTAAAATA  
ATTTGAAAAAACAGTGACCCATCTGCCCATCACAGG 62364  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGTGGGGAAAGAG  
GCCTACGCAATGC--CATTTGTTTGCCATCCTTGGG 37927  
gi | 194719394 | ref | NC\_007316.3 | N --GAGGGAGAGTGG  
CTCTATGCCAT----CATTCACCTGCCCTCCTTGGG 47131  
gi | 149361523 | ref | NC\_000074.5 | \_ -TTAGGGCTTGTA  
CTGTGAGCTTT----TCCACCTGCGCCCTAGTTCCT 36476

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAGTTGCATTTG  
CCACAACAAACACCACATGGGGGGATGTTCTGGATA 56903  
gi | 114795057 | ref | NC\_006483.2 | N AGCAGTTGCATTTG  
CCACAACAAACACCACACGGGGGGATGTTCTGGATA 62414  
gi | 73957561 | ref | NW\_876316.1 | Cf GATGCATACATCTC

TGGCATCTCTGGCAG---AGTAAAATGACCATGTGG 37974  
gi | 194719394 | ref | NC\_007316.3 | N GTT--ACACTGATT  
AGGCATCTGGGACAGGGTGGATGGATGCCACACGC 47179  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGTAAAAACTGGG  
AGGATTATTATAGTGGGGGAAAAAATGCCCG----- 36521

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gi | 51473102 | ref | NT\_010498.15 | \_ CACG--CAGCCGAC  
GGTAAACTTTGGGAATAAGATGTAAATGCTTGCGAA 56951  
gi | 114795057 | ref | NC\_006483.2 | N CACA--CAGCCGAT  
GGTAAAGTTTGGGAATAAGATGTAAATGCTTGCAAA 62462  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCT--TTGTCCAG  
AGGCTTCCTTTGCTCTCTCGTTATGGGGATTGGAAA 38022  
gi | 194719394 | ref | NC\_007316.3 | N CCCTGGCTGCCAG  
AGGGCCCTTTTACTCTCTAGAGCAGGGGATGG-AAA 47228  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GGCCAT  
AACGCTGGCTTGTTCCCTGCTAGCTTGCAACGTACA 36563

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTCCAAAATAGA  
CTGATTGAGCCTTTTACTTAAATTTGGCTTGGACCT 57001  
gi | 114795057 | ref | NC\_006483.2 | N CAGTCCAAAATAAA  
CTGATTGAGCCTTTTAACTTAAATTTGGCTTGGACCT 62512  
gi | 73957561 | ref | NW\_876316.1 | Cf CTATGACTCCTGGA  
CCAAATTGGGTTTGGCACCTGTTTTTTGTAAAGAATA 38072  
gi | 194719394 | ref | NC\_007316.3 | N CTCGGACTCCCAGG  
CCAAATCGGGTTCACCACCTGTTTTG-----TG 47270  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAACCCACTTATA  
CTTCTCTATGTCTGCCACATGGCCAG-----T 36604

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCTAAGAAAGTA  
AAATCGGGTTTTTTGTAGGTATAAACGTATCTCCCTT 57051  
gi | 114795057 | ref | NC\_006483.2 | N TTCCTAAGAAAGTA  
AAATCGGGTTTTTTGTAGGTATAAACGTATCTCCCTT 62562  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCTTTACATT---  
--GTTAGATGTTTGGGGAAAAAATC----- 38106  
gi | 194719394 | ref | NC\_007316.3 | N TGGCTCACAAG---  
--CCAAGACTTTT-----ACAAA----- 47298

gi | 149361523 | ref | NC\_000074.5 | \_ TACCTCTCTTCAG-  
--TTCATATGTCCACTTCCTCAGGGG----- 36641  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAAAGAGAAGAG  
ACGGGTTGAAAGTGGTTGAGGTTATCAGGCGTTCCT 57101  
gi | 114795057 | ref | NC\_006483.2 | N AGAAAAGAGAAGAG  
ACGGGTTGAAAGTGGTTGAGGTTATCAGGTGTTTCCT 62612  
gi | 73957561 | ref | NW\_876316.1 | Cf ----GAAGGAAGAA  
GAATACTTCACAATATAAAAAGTTCTATGAAATTCAG 38152  
gi | 194719394 | ref | NC\_007316.3 | N ----ATCAGAAGAA  
GACTATCTTCTGACATTAACCTTATATGAAAATCAA 47344  
gi | 149361523 | ref | NC\_000074.5 | \_ ----CTGGGTAGAG  
AATCTTCTCATGCTCCTCTATTTCCAGAATTCCTC 36687

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTGCATGCATTC  
CTGTAAACTCTTT-AAGGAAGTGAGTTTGAATCCCT 57150  
gi | 114795057 | ref | NC\_006483.2 | N CTGTGCATGCATTC  
CTGTAAACTCTTTTAAAGGAAGTGAGTTTGAATCCCT 62662  
gi | 73957561 | ref | NW\_876316.1 | Cf AT-----TT  
CAGTATTCATAAATAATGGGGTTGTTTTTTTAGAAC 38192  
gi | 194719394 | ref | NC\_007316.3 | N AT-----TT  
CAGTGTTACAAATAAC-----TTTTATTGGCAC 47377  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----TCTT  
CACGCCCCACCCCTGCGG-----GATGCCCC 36719

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGGCATCAGCGT  
GTGTAGTGCATATGGAGATAAGGATGTTTTTGTCTC 57200  
gi | 114795057 | ref | NC\_006483.2 | N CCAGGCATCAGCGT  
GTGTAGCGCATATGGAGATAAGGATGTTTTTGTCTC 62712  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAGCCACACCCAT  
-----TCACCTATTG-CTACGGCCTCTTTCACCT 38234  
gi | 194719394 | ref | NC\_007316.3 | N ACAGCCAAACCCAT  
-----TCATATATTATCTATGGCCATTTGCACAC 47420  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCTACTAACCCTG  
-----CCTCAGCTTCTTGGCCATTCAGCTCTT 36760

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCCCAGGTCTCA  
TCATGCTCATTGGCTGGTCGCAAGGGAAACA ACTCC 57250  
gi | 114795057 | ref | NC\_006483.2 | N TTCCCCAGGTCTCA  
TCATGCTCATTGGCTGGTTGCAAGGGAAACA ACTCC 62762  
gi | 73957561 | ref | NW\_876316.1 | Cf TACAGTGG-----  
----CCACATTGAGTTGCCGCAAAG----- 38263  
gi | 194719394 | ref | NC\_007316.3 | N TGCAATGG-----  
----CCAAGTTGAGCTGCAACAGA----- 47448  
gi | 149361523 | ref | NC\_000074.5 | \_ TACTGACAG-----  
-----ATGATGCTTGCACACACGAG----- 36789

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGTATGTTTCACG  
ATCGGGGTCAGGTAAGAGTGCTATGGCCGCCCTTG 57300  
gi | 114795057 | ref | NC\_006483.2 | N TGAGTATGTTTCACG  
ATTGGGGTCAGGTAAGAGGGCTATGGCCGCCCTTG 62812  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GCC  
ATGTGGCCCAG-----AAAGTCAAAACTGTTC ACTA 38297  
gi | 194719394 | ref | NC\_007316.3 | N -----CC  
ATAAGGCTCAT-----AAAGCAAGTGCTGTTT TCTA 47481  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATT  
ATCCGTACAAG-----GAGTCAGAAATGGGG CCAA 36822

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTTGCCAGGGTGG  
TCAATGGG---CTCTGAGCCCTTCCCTGCCGCAAGA 57347  
gi | 114795057 | ref | NC\_006483.2 | N CCTTGCCAGGGTGG  
TCAATGGG---CTCTGAGCCCTTCCCTGCCGCAAGA 62859  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTGGCCTG-TTGG  
AGAAAAAG---CCTT-----CTGACACCCGCTCTA 38337  
gi | 194719394 | ref | NC\_007316.3 | N CCCAACCTG-TTGG  
AGGAAAAG---CTGT-----CTGCCACCTGCTCTA 47521  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCATCAGAGTTGC  
CTGGTGAGGCTCTGTGAAGGATTGATGTCAGGG CAT 36872

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGGTGGGGAGGC



TGCAGAATAGGAAGGGTTGGGAAGGTGCAGCCCCGT 57397  
gi | 114795057 | ref | NC\_006483.2 | N GAAGGTGGGGAGGC  
TGCAGAATAGGAAGGGTTGGGAAGGTGCAGCCCCGT 62909  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAGGAGTG---CC  
TGAAGGAGAGTGCCTGTCTGCTGCTCTTT 38384  
gi | 194719394 | ref | NC\_007316.3 | N GACCCTGGG---GT  
TGCCAGAAGGAGAACGGGCTGTAGCAATAGCCCC- 47567  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCCTAGGG-----  
--AGGAACCGTGCATTATGTCTTTAAGAGGATAATT 36915  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACCCAAACTCCAG  
CCTCCCAATAGCATGTTCTCCGACAGGTACAGAGTG 57447  
gi | 114795057 | ref | NC\_006483.2 | N CACCCAAACTCCAG  
CCTCCCAATAGCACATTCTCTGACAGGTACAGAGTG 62959  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGAGGTAGAACAG  
ATATCATGTAG-AGGTGCTTCAAGG---CCAATTG 38429  
gi | 194719394 | ref | NC\_007316.3 | N -----AGAGAAA  
ATACCAAGTAG-GTGTGCTTCAAGA---CAGATTG 47605  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATTCCTC  
CCGCTCCTTAGAAGGACTTCCGGTGAATCAGACAG 36958  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCGGCGAATGCTT  
GCAAAATGAATGACAGCAAATGATCCAGGGTGTCCC 57497  
gi | 114795057 | ref | NC\_006483.2 | N CCCAGTGAATGCTT  
GCAAAATGAATGACAGCAAATGATCCAGGGGGTCCC 63009  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAAGTAGATGAAA  
TTT---GGTTTTTG--CAAG-----TTCC 38462  
gi | 194719394 | ref | NC\_007316.3 | N TCAAATAGATGCTC  
GTAGCAGGCCTTTC--CACAGGATGAAATCTGTCAA 47653  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTAGGGGTGGTCT  
CTAGCTGGTAATTG-----ACAGACCC 36994  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTGTATTAGGCT  
GTTCTTGCATTG-CTAAAAAAAAAAAAAAAAATACCTGA 57546  
gi | 114795057 | ref | NC\_006483.2 | N TTTTGTATTAGGCT  
GTTCTTGCATTG-CTAAAAAAAAAAAAAAAAATACCTGA 63058

gi|73957561|ref|NW\_876316.1|Cf AAGCCAGAGGCTCT  
GCAAGGTTATTGTCTCGTATAAGCCATTATTCCT-- 38510  
gi|194719394|ref|NC\_007316.3|N AGGTCAGAGGTGCT  
GCAGGGTCACTGCCTCGTATAAGCCATTATTCCT-- 47701  
gi|149361523|ref|NC\_000074.5|\_ GGCTGGGTTGACCC  
GTAAGGGAAGAGACAATGACTTGTGATGCTCTCA-- 37042

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gi|51473102|ref|NT\_010498.15|\_ GGCTTGGTAATTTA  
TTAAGAAAATAGTTTAATTGGCCTATGGTTCTACAG 57596  
gi|114795057|ref|NC\_006483.2|N GGCTTGGTAATTTA  
TTAAGAAAATAGTTTAATTGGCCTATGGTTCTATAG 63108  
gi|73957561|ref|NW\_876316.1|Cf -----CAAGTTA  
ATTAGAACTTAGGTACATTGGCACATCCATGACCAA 38553  
gi|194719394|ref|NC\_007316.3|N -----CACGTTA  
ACTTAGAACTT--AAATTGGCATGTCCGTGGCCAG 47741  
gi|149361523|ref|NC\_000074.5|\_ -----ACTTTG  
GAGTAGATCAGAATGCCCTGTCTTTAGCAAGAGCCA 37084

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gi|51473102|ref|NT\_010498.15|\_ GCCGTACAGGAAGC  
ATGGTGTCTGCTCAGCTTCTGGGGAGGCTCCAGGAA 57646  
gi|114795057|ref|NC\_006483.2|N GCTGTACAGGAAGC  
ATGGTGTCTGCTCAGCTTCTGGGGAGGCTCCAGGAA 63158  
gi|73957561|ref|NW\_876316.1|Cf CCC-----T  
ATGATAGGA-CTCAGACTTTTTTTTCTTCTTAATAAA 38592  
gi|194719394|ref|NC\_007316.3|N GCC-----C  
GTGATAACCGCTCAGATGTTTTCTCTTTTGTAGTAAA 47781  
gi|149361523|ref|NC\_000074.5|\_ ACCG-----  
--TAGAGCCATTAGGAAGGGGCCCATCTTCAATGAC 37122

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gi|51473102|ref|NT\_010498.15|\_ GTTTCCAATCAAGG  
CGGAAGGGGAAGGGGGAGCAGG---CATGTCACAT 57692  
gi|114795057|ref|NC\_006483.2|N GTTTCCAATCAAGG  
CGGAAGGGGAAGGGGGAGCAGG---CATGTCACAT 63204  
gi|73957561|ref|NW\_876316.1|Cf TATTTCAAGAGCTA  
CCCTAGCAGAGTGGGAGTTTTGGAAGTGGTTCCATT 38642  
gi|194719394|ref|NC\_007316.3|N TATTTCAAGAACTG

CTCTGGCAGAGTGGGAGTTGTG-----AACCCCTT 47824  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTTAGGGGATCCCA  
TAACGACACTGTTAGAGGAAAG-----ACTCCA 37164

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAAGAGCAGGGG  
CAGGAGAGG-GAGGAAGGGGAGATGCCACATGCTTT 57741  
gi | 114795057 | ref | NC\_006483.2 | N GGCAAGAGCAGGTG  
CAGGAGAGG-GAGGAAGGGGAGATGCCACATGCTTT 63253  
gi | 73957561 | ref | NW\_876316.1 | Cf GATCCCTGCAGGGC  
CCATGGAGGAGACACAGGGAAGCTGTCATGGGCTGG 38692  
gi | 194719394 | ref | NC\_007316.3 | N -----AGAAAGGC  
CTAGG-----GATGCTGGGAAAGAGTGGTGTGCTGG 47863  
gi | 149361523 | ref | NC\_000074.5 | \_ GTTAGGGAAGGTAC  
CTGCT-----GAGACCTCCAGGTTCTTGCATCCTTG 37209

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAACAATTAGATC  
TCTCAGGAACTCACTCCAGCAAGAACGGCTCGAAGG 57791  
gi | 114795057 | ref | NC\_006483.2 | N GAAACAATTAGATC  
TCTCAGGAACTCACTCCAGCAAGAACGGCTCGAAGG 63303  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAATGCTTA-----  
-----AGAACCAGTTTTCTTGGGAGATGAG 38727  
gi | 194719394 | ref | NC\_007316.3 | N TAAAGGCTTA-----  
-----ACAGCCGG-TTTCAGGGAAAAGTGG 47897  
gi | 149361523 | ref | NC\_000074.5 | \_ AACAAAACAT-----  
-----TGGACCAGAGCTTGTGAATGGGGAG 37244

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gi | 51473102 | ref | NT\_010498.15 | \_ AGATGGCGCTAATC  
CATTCATGAGGGATCCACCCATCGTCCAATCTCCT 57841  
gi | 114795057 | ref | NC\_006483.2 | N AGATGGCGCTAATC  
CATTCATGAGGGATCCACCTCATCGTCCAATCTCCT 63353  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTT--TGCCAGGC  
TCTGTGGTGTAAATAACCCTCCAGTGGCCACTTTCAA 38775  
gi | 194719394 | ref | NC\_007316.3 | N TGTT--TGTCAC-C  
TCTGTGGTCTCAATACTCACAG-TGTCCTATTTCTA 47943  
gi | 149361523 | ref | NC\_000074.5 | \_ AGATGTAGAGATAT  
TCTATTCAGGAAGAGAAAGGCATGGTGGACAAAGGA 37294

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gi | 51473102 | ref | NT_010498.15 | _      CCCACCTCCAACAC
TGGGGCTTATGTTTCAACTTGAGGTTTGAGTTGGGA 57891
gi | 114795057 | ref | NC_006483.2 | N      CCCACCTCCAACAT
TGGGGCTTATGTTTCAACTTGAGGTTTGAGTTGGGA 63403
gi | 73957561 | ref | NW_876316.1 | Cf      ACCACT-----CAT
GTATTGAAGTCATTGAGTGTGAGTTTGGG----- 38813
gi | 194719394 | ref | NC_007316.3 | N      GACACC-----GAT
G---GAAAATTACTGAACCTGAATTTGGG----- 47978
gi | 149361523 | ref | NC_000074.5 | _      GCGCTT-----AA
GAGAGCATCAGACAGGGCTGGTGAGATGG----- 37331

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gi | 51473102 | ref | NT_010498.15 | _      CACACATTCAAACCT
GTATCAGCTTTCTTGTCACCTCTTTGCCTGTGGGTTT 57941
gi | 114795057 | ref | NC_006483.2 | N      CACACATTCAAACCT
GTATCAGCTTTCTTGTCACCTCTTTGCCTGTGGGTTT 63453
gi | 73957561 | ref | NW_876316.1 | Cf      --AAGAGATGTGCA
CCACCAGCCCTCGGGGG-----CCCCCATGGAAT 38854
gi | 194719394 | ref | NC_007316.3 | N      --AAGAAATAAGCA
CATTTGGCTTTTGTGAGGCCCCACCTCCTACTGT 48026
gi | 149361523 | ref | NC_000074.5 | _      -----CTCAGTGG
GTAAGAGCACCCGACTG----CTCTCCCGAAGGTCT 37371

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gi | 51473102 | ref | NT_010498.15 | _      GGGTCTTTCTGGCT
AAGAGCAAGGACCCCAGAGCCAGCCTGCCTCTGTTT 57991
gi | 114795057 | ref | NC_006483.2 | N      GGGTCTTTCTGGCT
AAGAGCAAGGACCCCAGAGCCAGCCTGCCTCTGTTT 63503
gi | 73957561 | ref | NW_876316.1 | Cf      GG-----
-----TCAGACCCCAG----GGACTGGAAGTGCAG 38882
gi | 194719394 | ref | NC_007316.3 | N      GG-----
-----CAGGACCCAGGATGGGGGCAGGTCCTGTGG 48058
gi | 149361523 | ref | NC_000074.5 | _      GG-----
-----AGTTCAAAT-----CCCAGCAACCACAT 37396

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATTCTACGCTTG  
CCACAAAACCTGGAGGTTCTGTGACCTCCAGCAAGTT 58041  
gi | 114795057 | ref | NC\_006483.2 | N AAATTCTACGCTTG  
CCACAAAACCTGGAGGTTCTGTGACCTCCAGCAAGTT 63553  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTCACCAC-CCAC  
CCCTATTTCTAATAGAGTT---GCCCTCCTCCAGT 38928  
gi | 194719394 | ref | NC\_007316.3 | N GTTGGCT---CTGC  
CCCTATTTTTAGTAAACT---TCCCC---CTAAT 48098  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTGGCTCACAACC  
ATCTGTAACAAGATCTGATG--CCCTCTTCTGGAGT 37444

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTAGCTCTCTGT  
GCCCCAG-TTTCCTCCTCTGAAAAATGGGAATGCTC 58090  
gi | 114795057 | ref | NC\_006483.2 | N TCTTAGCTCTCTGT  
GCCCCAG-TTTCCTCCTCTGAAAAATGGGAATGCTC 63602  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTTGTATCTGGAT  
TCATTTGGATTCCAACCTGAGATTT----- 38966  
gi | 194719394 | ref | NC\_007316.3 | N CTTT---CTAGGT  
TCATTTGGGTTCCTGCTAAGATTTTG----- 48134  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCTGGAGACAGCT  
ACAGTGTACTTACATATAATAAAT----- 37482

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gi | 51473102 | ref | NT\_010498.15 | \_ ATATACCCTCTCCT  
AGGGCGACTGTCTGGATTAAAGGAGTTAGTCTGTGC 58140  
gi | 114795057 | ref | NC\_006483.2 | N ATATACCCTGTCCT  
AGGGCGACTGTCTGGATTAAAGGAGTTAGTCTGTGC 63652  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAT  
TTGTCTACTGCCACCAATTACAGTATGAAAAAAAAT 39005  
gi | 194719394 | ref | NC\_007316.3 | N -----ACTA  
CTGAGTTCTGTTGCTAGTCAAAGTATGAAAAAAA 48174  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAATAAATCTTTAAAAAAAAG 37513

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCACCCACATGA  
TACACAGTGCAGAGTGAGTGTGGCTCTTAATACTG 58190  
gi | 114795057 | ref | NC\_006483.2 | N AAGCACCCACATGA

TACACAGTGCAGAGTGAGTGTTGGCTCTTAATACTG 63702  
gi | 73957561 | ref | NW\_876316.1 | Cf GAA-TAACCCCTAAC  
AAATCAGACCTTG----- 39031  
gi | 194719394 | ref | NC\_007316.3 | N AATGAAACCCCAAT  
AAGTCAGATCTTA----- 48201  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAGAGCATCAGAC  
AACAGCGCCAGA----- 37540

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTACAACCTCTAT  
CCAAGCCCTTGTCTTACAGAGGAGGCTATCAGAGCG 58240  
gi | 114795057 | ref | NC\_006483.2 | N GTTTAGAACTCGAT  
CTAAGCCCTTGTCTTACGGAGGAGGCTATCAGAGCG 63752  
gi | 73957561 | ref | NW\_876316.1 | Cf --TGACACCCCCAC  
CCCTACCACCAACATACACA----- 39063  
gi | 194719394 | ref | NC\_007316.3 | N --TGACCTCTCTAC  
CCCCAACACACACATACCCA----- 48233  
gi | 149361523 | ref | NC\_000074.5 | \_ --CTCCAGGTCTTT  
CAGTCCTTTTCTCTATTGCTAG----- 37574

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAATGGATGTAGA  
GCCCAAGGCCACACGCGGACAGCAGGGCTGGGAGTC 58290  
gi | 114795057 | ref | NC\_006483.2 | N GCAGTGGATGTAGA  
GCCCAAGGCCACACGGGGACAGCAGGCCTGGGAGTC 63802  
gi | 73957561 | ref | NW\_876316.1 | Cf -----C  
GCCCTA-TAGGCATGCTTACTACTACTG----- 39093  
gi | 194719394 | ref | NC\_007316.3 | N -----A  
ACACATGCAGACACACACGCCACTACTG----- 48264  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AA  
CATCTTGTGAATGTGTTGACTCAGG----- 37601

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCATCACTTGATG  
ATGCTAAGCCGAGGGGACCCGCCCTTCTTCTACGTA 58340  
gi | 114795057 | ref | NC\_006483.2 | N ATCATCACTTGATG  
ATGCTAAGCCGAGGGGACCCGCCCTTCTTCTACGTA 63852  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CCCAGCACAAA--CCTGCCCTGGCTCCCCGTT 39124

gi | 194719394 | ref | NC\_007316.3 | N -----  
---CCCAGCAGAAAG--CTCACCTGGCTCTGCTTT 48295  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---CCAATTTCTTCCCCACACTTCCAGGGGCGAC 37633

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGATTCATAAGTC  
ATCCCAAGCCCCTGGGTCCTGGTGGCCGAGACAGGG 58390  
gi | 114795057 | ref | NC\_006483.2 | N GTGATTCATAAGTC  
ATCCCAAGCCCCTGGGTCCTGGTGGCCGAGACAGGG 63902  
gi | 73957561 | ref | NW\_876316.1 | Cf -CCCTGCGAAATGA  
AACTACTGTTCTCGG--CAAGTTCTCCG---AGGC 39168  
gi | 194719394 | ref | NC\_007316.3 | N -CCCTACAAGACAC  
ATCTGATGCTCTTCGG--CAAGTCCCCCAGGATGTG 48342  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAATACCTAGTGC  
TTAGCAAACATTTGATAACTGGTCGGCAAGGGAGGA 37683

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGGCACGGGCAG  
CCCAGCATCGTGCAGCGGTTTGACTTTGTCAGTAGT 58440  
gi | 114795057 | ref | NC\_006483.2 | N AGAGGCACGGGCGG  
CCCAGCATCGTGCAGCGGTTTGACTTTGTCAGTAGT 63952  
gi | 73957561 | ref | NW\_876316.1 | Cf TCC---ACAGGTGA  
CTCTGCTTG-----CCTTCCTG----- 39196  
gi | 194719394 | ref | NC\_007316.3 | N TCA---ACAGGCAA  
CCCCTCTCA-----CCTCCTACTTCCC 48375  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAG----GAAAT  
TTAATCAGG-----ACCTAAGACAT 37712

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTCTGTGGCTAT  
TTGCCAAGAGCAAGGGAAGCAGAGGCCGGGGATTGT 58490  
gi | 114795057 | ref | NC\_006483.2 | N TCTTCCGTGGCTAT  
TTGCCAAGGGCAAGGGAAGCAGAGGCCGGGGATTGT 64002  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCTTCTGACG--  
--ACAAAGGCAACGG-----CAGCTAGCCACCAGG 39236  
gi | 194719394 | ref | NC\_007316.3 | N CCTCGCCTGTCTTG  
TAACTGTGGCCACAG-----CAGTTCATGACTTGG 48419  
gi | 149361523 | ref | NC\_000074.5 | \_ ATTTAAAAAACAGT

GACCTTGAGGGGAGGGGGGGTTGGGGCGTGCCTCTG 37762 \* : . \*

gi | 51473102 | ref | NT\_010498.15 | \_ CACTAACTGGGTAT  
GTCCCATTTGGAAGGGAGCCTAGGGGCTGTGCCAGGA 58540  
gi | 114795057 | ref | NC\_006483.2 | N CACTAACTGGGTAT  
GTCCCATTTGGAAGGGAGGCTAGGGGCTGTTCCGGGA 64052  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTTGCTGTG---  
-----GGCCAGGAACTGTGCTGAGC 39267  
gi | 194719394 | ref | NC\_007316.3 | N TG-TTACTGTG---  
-----GGCCAGGAGCCATGCTGAGA 48449  
gi | 149361523 | ref | NC\_000074.5 | \_ CGGTAGAG-----  
-----AGCTTGCTGGTGTGTGCGAG 37790  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACGGAGGAACCAA  
CCCATGTCTAGGCTCATGTCAGGCCCATTTGGTTCCC 58590  
gi | 114795057 | ref | NC\_006483.2 | N CACGGAGGACCCAA  
CCCATGTCTAGGCTCACGTCAGGCCCATTTGGTTCCC 64102  
gi | 73957561 | ref | NW\_876316.1 | Cf ACATCAGGTAGATT  
GTTGCATCTTAAATCCT-----GAAACA 39304  
gi | 194719394 | ref | NC\_007316.3 | N TCTCCAAGGGCATT  
GTTACATCTTAAATCCT-----AAAACA 48486  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTCTGGGATCCAT  
CCCAACATTGAAAGAC-----AAAACA 37827  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGACAGTAACGCAC  
ACGCAGCTGCTGTCTGCAACGTGTTTTTAGGTGATG 58640  
gi | 114795057 | ref | NC\_006483.2 | N AGACAGTAACGCAC  
ACGCAGCTGCTGTCTGCAATGTGTTTTTAGGTGATG 64152  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTCCTTGAGGAAG  
GCATGGTCATTATCCCCGCTTTATGGATAAGGAAAC 39354  
gi | 194719394 | ref | NC\_007316.3 | N AGTCCTTGAGGAAG  
ATGTAGTCATTTCCCTCCACTTTACAGATGAGCAAAC 48536  
gi | 149361523 | ref | NC\_000074.5 | \_ AAAGCAAGAGGAAG  
CCACAGAGGCTTTCCCCAGCCCTCAGAGGAG-TGAC 37876  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGTGGAAAATCATT  
CTAGTGTCTGTTTCATATGTATATATATGTAAATTAAT 58690  
gi | 114795057 | ref | NC\_006483.2 | N TGTGGAAAATCATT  
CTAGTGTCTGTTTCATATGTATATATATGTAAATTAAT 64202  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAGGCTGCACCTG  
GCAGCCCCAG-----A 39379  
gi | 194719394 | ref | NC\_007316.3 | N TGAGGCCGTGCCTG  
GTGGACCCTG-----A 48561  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTGTAATGAGAT  
CTGCCCAGTG----- 37900  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACATCAAACCCATG  
ATGTAAACAAACTTAGATGTCCATCAGCTCATTAATA 58740  
gi | 114795057 | ref | NC\_006483.2 | N ACATTAACCCATG  
ATGTAAACAAACTTAGATGTCCATCAGCTCATGAAA 64252  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTTTTCCCCATTG  
CTGGAACATCCTGTGCACTTTCATGGGTCCCAGTGT 39429  
gi | 194719394 | ref | NC\_007316.3 | N ACTTTGCCCCGTTG  
CCAGAACATCTCG-GGCCTTTCATGGGCCCCAGCAT 48610  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGAA  
CTGGTGACTCATGTCCTCATCCTAAG--CTTGGTGG 37938  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAATAAACAACCTTA  
GGTACAGTGGAATATTTTTCAGCCACAGAAAGGAAT 58790  
gi | 114795057 | ref | NC\_006483.2 | N GAATAAACAACCTTA  
GGTACAGTGGAATATTTTTCAGCCACAGAAAGGAAT 64302  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCTCGT-----  
----- 39436  
gi | 194719394 | ref | NC\_007316.3 | N GAGTCATGCACTTC  
TTTACC----- 48630  
gi | 149361523 | ref | NC\_000074.5 | \_ GAATCTT-----  
----- 37945  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGTACTGATTCA  
TACTGCAACATGGATTAATGTTGAAGCCATTTTCCT 58840

gi | 114795057 | ref | NC\_006483.2 | N GAAGTACTGATTCA  
TACTGCAACATGGATTAATGTTGAACCCGTTTTCCT 64352  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----GCCCCCTCTCT-----GACCCGAGGGTCCA 39461  
gi | 194719394 | ref | NC\_007316.3 | N -----T  
GAAGGCTCCATCTCTGACT---GTCCACATACCCCG 48664  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TCAGGCGAGAGGACGGGGGATAAAAAGAGGGCT 37977

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTGAAAGAAGCC  
AGTTGCACATGTTATATGATTTTATTTATATAAAAAT 58890  
gi | 114795057 | ref | NC\_006483.2 | N AGGTGAAAGAAGCC  
ATTTGCACATGTTATATGATTTTATTTATATAAAAAT 64402  
gi | 73957561 | ref | NW\_876316.1 | Cf TT-----  
GCTGGCACCGGGCCTGCTGTTTGGTAAACACTGGG- 39498  
gi | 194719394 | ref | NC\_007316.3 | N TG-----  
TGTAACACAGTGTCTGGTGTTT---AAATACTGGG- 48698  
gi | 149361523 | ref | NC\_000074.5 | \_ TA-----  
--TTCCCAGTAAAATGTGTTTTTCGCTAAATAGAAT 38013

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTCAAAAATAGGT  
CACTCGGCCAGGCGCGGTGGCTCATACCTGTAATCC 58940  
gi | 114795057 | ref | NC\_006483.2 | N ATTCAAAAATAGGT  
CACTCGGCCAGGCGCGGTGGCTCATACCTGTAATCC 64452  
gi | 73957561 | ref | NW\_876316.1 | Cf --TGAATGATG---  
---AGGGAGAGAAGGGAAAGGCACTATGTTTAATCA 39540  
gi | 194719394 | ref | NC\_007316.3 | N --CCAACAATTGAT  
GAAAGAGAAAAATGGGATAAGGAATGTCTTTAATCA 48746  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGGTGAAATGGGTCTTTCTATTTCCT 38041

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCGCTTTGGGAG  
GCCAAGGCAGACGATCACCTAAGGTCAGGAGTTCTA 58990  
gi | 114795057 | ref | NC\_006483.2 | N TAGCGCTTTGGGAG  
GCCAAGGCAGACGATCACCTGAGATCAGGAGTTGTA 64502  
gi | 73957561 | ref | NW\_876316.1 | Cf TG-----

AACACGGCAGGACACAGTCCTG---TAAAAAT--CG 39573  
gi | 194719394 | ref | NC\_007316.3 | N CA-----  
AAAATG-CAGAATAAAATCAGC---TAAGAGAGACC 48780  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
TATTTTGTTCATTTGAAACAAG----- 38065

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gi | 51473102 | ref | NT\_010498.15 | \_ GACCAGTCTGGCCA  
ACATGGTGAAACCCTGTCTCTACTAAAAATACAAAA 59040  
gi | 114795057 | ref | NC\_006483.2 | N GACCAGTCTGGCCA  
ACATGGTGAAACCCTGTCTCTACTAAAAATACAAAA 64552  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCCCATCTGCCCCG  
TCACAG-GAGCAGCTGTCACCTGCCACATCAGACAC 39622  
gi | 194719394 | ref | NC\_007316.3 | N AGCTCGTGAACCCA  
TCAGGG-GAGCGGCTGTCGTTGGTCATGTCAGAAAC 48829  
gi | 149361523 | ref | NC\_000074.5 | \_ -----G  
TCCATGCTGACCTCAAACCCATGGCTATCCTCCTGC 38102

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTAACTGGGTGTG  
GTGGCAGGCACCTAAAATCCCAGCTACTCGGGAGGC 59090  
gi | 114795057 | ref | NC\_006483.2 | N ATTAACTGTGTGCG  
GTGGCAGGCGCCTATAATCCCAGCTACTGGGGAGGC 64602  
gi | 73957561 | ref | NW\_876316.1 | Cf CGCAG-----  
--GGCGGGCATCCAGGCACATGGGGCATCTGGG--- 39658  
gi | 194719394 | ref | NC\_007316.3 | N CTTGG-----  
--GGCAAG-TCCTATAAACATAACAGCCTGTGGG--- 48864  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCAG-----  
-----CCTCCAGAATGCTGG--- 38122

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGGCAGAAGAAT  
CGCTTGAGCCCGGGAGGTGGAGTTTGCAGTGAGCCG 59140  
gi | 114795057 | ref | NC\_006483.2 | N TGAGGCAGAAGAAT  
CGCTTGAGCCCGGGAGGCGGAGTTTGCAGTGAGCCG 64652  
gi | 73957561 | ref | NW\_876316.1 | Cf -AAAGTTTTGGAAT  
CATCTGTAAACAT-----TTGCCAACAGCCT 39697  
gi | 194719394 | ref | NC\_007316.3 | N -AAACTTCTGGAAT  
AG-CTCAGAAATG-----TTGCAAACAGCCC 48902

gi | 149361523 | ref | NC\_000074.5 | \_ -GATGAGAAGTATG  
AGCCACTGTGCCT-----ACGCATCCAGCTT 38161

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gi | 51473102 | ref | NT\_010498.15 | \_ AGATTGCGCCACTG  
CCCTCCAGCCTGGGTGACAGAGCAAGAGACTGTCTG 59190

gi | 114795057 | ref | NC\_006483.2 | N AGATTGCGCCACTG  
CACTTCAGCCTGGGTGACAGAGCAAGACACTGTCTG 64702

gi | 73957561 | ref | NW\_876316.1 | Cf GAGAT-----  
-----GAACTAACTGGCTGATCATTCTTTAACTC 39732

gi | 194719394 | ref | NC\_007316.3 | N CAGAT-----  
-----AAACCGGGTGGCTGTTTCTTTCTTTTACTT 48937

gi | 149361523 | ref | NC\_000074.5 | \_ ACTTC-----  
-----CTTTGGA ACTACTCCCCCTACTCCCAG 38193

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAAAGAAACAAA  
CCAAAACATAGGTCACTTCATAGAAACAGAAAGTAG 59240

gi | 114795057 | ref | NC\_006483.2 | N AAAAAAGAAACAAA  
CCTAAACATAGGTCACTTCATAGAAACAGAAAGTAG 64752

gi | 73957561 | ref | NW\_876316.1 | Cf GGATTG-----  
-----GTTTGGGCCCTTCCTG-AAAAAGTGCAACT 39767

gi | 194719394 | ref | NC\_007316.3 | N GAACTG-----  
-----ACTTGATCCTTTCCTG-AAAAAGGAAAACC 48972

gi | 149361523 | ref | NC\_000074.5 | \_ TTCTGG-----  
----AGACTGGACCCGGGCTTCATGCGTACGAGGCC 38231

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTAGTGTTTGCCA  
GGCCTGGGGTTGGGGAGTGTGTAGTACTCCTAAC 59290

gi | 114795057 | ref | NC\_006483.2 | N GTTAGTGTTTGCCA  
GGCCTGGGGTTGGGGAGTGTGTAGTACTACTAAC 64802

gi | 73957561 | ref | NW\_876316.1 | Cf ATTCCTTTTTGCAG  
G----- 39782

gi | 194719394 | ref | NC\_007316.3 | N ATCCTCTTTTGTA  
G----- 48987

gi | 149361523 | ref | NC\_000074.5 | \_ GTCCTCCTTTCCCA  
G----- 38246

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTTATGGGGTTTC  
CTTCGGGGGTGAAGAAAATGTTCCAAAATTGATTGT 59340  
gi | 114795057 | ref | NC\_006483.2 | N AGTTATGGGGTTTC  
CTTTGGGGGTGAAGAAAATGTTCCAAAATTGATTGT 64852  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TATGAAAGTATCTTTAAAAGAAGT 39806  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CAGGAGAGTTCCTTCCTTAAAAAT 49011  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCCTGAAACCTCAAGCTCCTG 38267

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gi | 51473102 | ref | NT\_010498.15 | \_ GCGGATAGGTGCAC  
GACTCTGCATACACTAACCACCATTCAATTATATAT 59390  
gi | 114795057 | ref | NC\_006483.2 | N GGAATAGGTGCAC  
GACTCTGCATACACTAACCACCATTCAATTATATAT 64902  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGAAAG-----  
-----TGGTCACAATACTTGAGGCTCT----- 39835  
gi | 194719394 | ref | NC\_007316.3 | N GGGAGCGGTGACAA  
GTGTTTGAAGTTATTCATAATTGCTCTG----- 49053  
gi | 149361523 | ref | NC\_000074.5 | \_ AGG-----  
-----TCACTACTTCTTCCAGG----- 38288

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTAAAGGAGTGAA  
TTTTATTATATACAAATTATATATCAATAGAGAAAC 59440  
gi | 114795057 | ref | NC\_006483.2 | N GTTAAAGGAGTGAA  
TTTTATTATATACAAATTATATGTCAATAAAGAAAC 64952  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGTCAC  
CTTATGCATAGATTTCCTG----- 39859  
gi | 194719394 | ref | NC\_007316.3 | N -----TGTCTG  
TATTTCCATAAACACTAAGGAAATGAGTTTGGAAATG 49095  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATTTG  
AGTTCCCAGAG----- 38304

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGAAAGGTATAGA

ACAGGCAACTAAGAATGCTGTTATTGAGAGGGTCCT 59490  
gi | 114795057 | ref | NC\_006483.2 | N CAGAAAGGTATAGA  
ACAGGCAACTAAGAATACTGTTACTGAAAGGGTCCT 65002  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---AAATTCTTTTAAGGAAATG----- 39878  
gi | 194719394 | ref | NC\_007316.3 | N CCTTCAGACGTTGA  
AAAACATACTTGTGTGTGTGTGGATGGGTGTGTGCG 49145  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---GGCTCCTCAGGAAGCCACTG----- 38324

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGAGCCTTTCTAA  
TTTATATATGAAGAGTAAACCATTATTGCAAATGTG 59540  
gi | 114795057 | ref | NC\_006483.2 | N CGGAGCCTTTCTAA  
TTTATATATGAAGAGTAAACCGTTATTGCAAATGTG 65052  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N TG-----  
--TGTTTCATAAACATTCTGTTGCTGTTTCATTCTGCG 49181  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTGTAATGATCA  
TTACAGTGAATTACAGCAGACAAACTCCTGGTGGAT 59590  
gi | 114795057 | ref | NC\_006483.2 | N TGCTGTAATGATCA  
TTACAGTGAATTACAGCAGACAAACTCCTGGTGGAT 65102  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGTTTG----- 39884  
gi | 194719394 | ref | NC\_007316.3 | N TGTTGTTTCATAAAC  
ATTCAGTCACTAAGTCACATATGACTCTTTG----- 49226  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGGCATCCCAGT  
GTGTGCTGGGACACAGAGGTTTGTCTGCTGGCCAG 59640  
gi | 114795057 | ref | NC\_006483.2 | N TGAGGCATCCCAGT  
GTGTGCCGGGACACAGAGGTTTGTCTGCTGGCCAG 65152

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gi | 73957561 | ref | NW_876316.1 | Cf      -----AAACACATT
GG-----CATGTCAG 39903
gi | 194719394 | ref | NC_007316.3 | N      -----CAACCCCTT
GGGC-----TACAGCACACCAG 49252
gi | 149361523 | ref | NC_000074.5 | _      ----TAAGCACAAT
GAGG----- 38338
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gi | 51473102 | ref | NT_010498.15 | _      TGTGGGCAAGAGAA
TCTTGCTTTAAGGGTTGAGTGTACTGGGTCTGGTAC 59690
gi | 114795057 | ref | NC_006483.2 | N      TGTGGGCAAGAGAA
TCTTGCTTTAAGGGTTGAGTGTACTGGGTCTAGTAC 65202
gi | 73957561 | ref | NW_876316.1 | Cf      -----
-----
gi | 194719394 | ref | NC_007316.3 | N      GCTTCCCTGTCCAC
TATCTCCCAGAG-----TTTGCTCAAATTCATGTCC 49297
gi | 149361523 | ref | NC_000074.5 | _      -----
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gi | 51473102 | ref | NT_010498.15 | _      ATGGTATCAGGTAC
CTAGTATCAGGTGTACATGGCTCTGGTGCATAGTCA 59740
gi | 114795057 | ref | NC_006483.2 | N      ATGGTATCAGGTAC
ATAGTATCAGGTGTACATGGCTCTGGTGCATAGTCA 65252
gi | 73957561 | ref | NW_876316.1 | Cf      -----
-----
gi | 194719394 | ref | NC_007316.3 | N      ACTGAGTCAG-TGA
TGCCATCCAACCATCCCATCCTCTGCCGCCCTCTTC 49346
gi | 149361523 | ref | NC_000074.5 | _      -----
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gi | 51473102 | ref | NT_010498.15 | _      GGCTTGCCTGTGTA
TACATGAATGTACACGATTATCTGGTAATTAGTAGT 59790
gi | 114795057 | ref | NC_006483.2 | N      GGCTTGCCTGTGTA
TACATGAATGTACACGATTGTCTGGTAATTAGTAGT 65302
gi | 73957561 | ref | NW_876316.1 | Cf      -----AGGCTGTA
CACATGTGCATGCGTGTGTGCGCACACACACAT--- 39944
gi | 194719394 | ref | NC_007316.3 | N      TCCTTGAGCCTGTA

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TATATACGTGTGTGTGTGTGTGTGTACTTATGTG-- 49394  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCCTGGG  
GACACAGGAGCCCACGCTGATGCTG----- 38370

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAGAGATTCCAA  
ATGCCTTATTTTTTCAACGACACTGCATGGTGTGCA 59840  
gi | 114795057 | ref | NC\_006483.2 | N AGAGGAGATTCCAA  
ATGCCTTATTTTTTCAATGACACTGCATGGTGTGCA 65352  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCGTCTCT  
TTCCCAGGCTTGATCATGTTCACTGGCTG----- 39982  
gi | 194719394 | ref | NC\_007316.3 | N TGTGTTTCCATCTC  
CTCCCAGGCTGATCATGTTCACTGGCTG----- 49437  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCCCGTCT  
CTTGCAGGTCTCCTGATGCTGGTTGGCTG----- 38407

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gi | 51473102 | ref | NT\_010498.15 | \_ TTAATTGAGGGGCA  
GGTGGTAAAATCAACATGTGGGCAGCTGTGTGTCCT 59890  
gi | 114795057 | ref | NC\_006483.2 | N TTAATTGAGGGGCA  
GGTGGTAAAATCAACACGTGGGCAGGTGTGTGTCCT 65402  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GCTGCA  
AGGG----AAGCCGCTCCTTAGTATG----- 40010  
gi | 194719394 | ref | NC\_007316.3 | N -----GCTGCA  
AGGG----AAACACCTGCTCAGCATG----- 49465  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GGTGCA  
AGGG----AAGCCCTTCTCAGCATG----- 38435

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGACAAAAGCATT  
CAATAACTGTTTTTTGAGTTAATGGGAATTGGAAAT 59940  
gi | 114795057 | ref | NC\_006483.2 | N ATGACAAAAGCATT  
CAATAACTATTTTTTTGAGTGAATGGGAATTGGAAAT 65452  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGTGTCTGGCTT  
TGGATACTTTGTCACCTCAGTGTATTTAACAAACAAA 59990  
gi | 114795057 | ref | NC\_006483.2 | N ACTGTGTCTGGCTT  
TGGATACTTTGTCACCTCAGTGTATTTAACAAACAAA 65502  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTCACGATCGGG 40022  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTCACCATCGGG 49477  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTCACTGTCGGG 38447

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCTTAGTAACACC  
AAATGCTGAGAGCACACAAAAAAAACATGGAAAAGA 60040  
gi | 114795057 | ref | NC\_006483.2 | N ATCTTAGTAACACC  
AAATGCTGAGAGCACACAAAAAAAACATGGAAAAGA 65552  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCAGGTAAGGGCA  
CTGTGCTGACCTCCCCTCTCTGGGACAG---CAGGG 40069  
gi | 194719394 | ref | NC\_007316.3 | N GTCAGGTAAGGGTG  
CTGGGCCATTG-CCCTTCATTTGTGCAG---CAAGA 49523  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCAGGTATGTGGT  
CAGGGCTCCCAGGTCCCTTCCAG-----CAGAG 38489

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGCTGGAATATT  
ATGTGATGATGTGGGCACACAGATGTGATAAAAATC 60090  
gi | 114795057 | ref | NC\_006483.2 | N GGAGTTGGAATATT  
ATGTGATGATGTGGGCACACAGATGTGATAAAAATC 65602  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGGTAGGGAGAAG  
GGGGGCATCCCGG-----TCAGAA 40103  
gi | 194719394 | ref | NC\_007316.3 | N GAAGGTGGGAGTTT  
GGGGGCAGGAACGG-----TGTGGG 49557  
gi | 149361523 | ref | NC\_000074.5 | \_ CGGGTGTCGTGCTG  
CAGGGCGGGCAGGG-----ATGGG 38522

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gi | 51473102 | ref | NT\_010498.15 | \_ CTAAAAGCAAATA  
CAAATGACAGACTTGGAAAACCCCATCCCAGATA 60140  
gi | 114795057 | ref | NC\_006483.2 | N ATAAAAGCAAATA  
CAAATGACAGACTTGGAAAACCCCATCCCAGATA 65652  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCCATGGGTTGGA  
CTGAAGCCTGTCTCTTC-----CACTCCCGACTCT 40148  
gi | 194719394 | ref | NC\_007316.3 | N GCAGATGCAGCCCC  
TCCACTCCAAGCCCCAG-----TCCCCGCAACGCA 49602  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGATACTTCTTG  
GTCCACCAAACCGGGT-----CTCCAGTGAC 38563

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gi | 51473102 | ref | NT\_010498.15 | \_ AATTCTAAGTCATA  
ATAAGTTCATCTCTTCCCTTAAAG-AAAAAAAAAATC 60189  
gi | 114795057 | ref | NC\_006483.2 | N AATTCTAAGCCATA  
ATAAGTTCATCTCTTCCCTTAAAAAAAAAAAAAAAAAATC 65702  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGACTCTGGGCAA  
GTGTGTTGGCCTAAACCCAGCGGAAG----- 40188  
gi | 194719394 | ref | NC\_007316.3 | N TTGTCTGGTGGTGG  
GGGTGTTCAACGAACGTCAGAAAAGGAATGACAGC 49652  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTGGGGGAGAAG  
ATGCATTGTATAGTCCATGGAGACCCCG----- 38605

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTAATGAGACAC  
ACAAG-ACATTCAAACCACATCAGAATACCCTTAAA 60238  
gi | 114795057 | ref | NC\_006483.2 | N CTGTAATGAGACAC  
ACAAAGACATTCAAACCACATCAGAATACCCTTAAA 65752  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAGCCTACCCCGTGC 40204  
gi | 194719394 | ref | NC\_007316.3 | N TC-----  
-----CTCGTCCTTGTCCCCGAGC 49674  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCTCATTCTCTTTGC 38621

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gi | 51473102 | ref | NT\_010498.15 | \_ TGATAGTTTTCAAT  
AGGAAAAGAAGAACAAGAAAAAAGCTGTACTCATA 60288  
gi | 114795057 | ref | NC\_006483.2 | N TGATAGTTTTCAAT

AGGAAAAGAAGAACAAGAAAAAAGCTGTACTCATA 65802  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCGG-----  
----- 40209  
gi | 194719394 | ref | NC\_007316.3 | N CATGGGTTTATGTC  
T-----TACTGGCT 49697  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAGGGCTTGGG--  
----- 38633

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gi | 51473102 | ref | NT\_010498.15 | \_ GATAATAGTCTTTA  
GGTTTTAGCTTTAAACAACCTATAAATGAGCGGAGA 60338  
gi | 114795057 | ref | NC\_006483.2 | N GATAATAGTCTTTA  
GGTTTTAGCTTTAAACAACCTATAAATGAGCGGAGA 65852  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGCCCTCACAGCCTCAGGG---- 40228  
gi | 194719394 | ref | NC\_007316.3 | N AAATACGGACTCCA  
GAGCCAGCCTTCAATCCTTCCCAGCATCAGGG---- 49743  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCTATCCAGCTGAGAGCCTGGG---- 38655

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTATGCCAGGGGT  
TGGACTTTCCCCCTAGACCTGTTTGGAAACCATGAAA 60388  
gi | 114795057 | ref | NC\_006483.2 | N CGAATGCCAGGGCT  
TGGACTT-CCCCCAGACCTGTTTGGAAACCATGAAA 65901  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GCAG-----  
-----GGCAGAAATTCTCCCGTGTG- 40252  
gi | 194719394 | ref | NC\_007316.3 | N -----TCTTTTCAA  
AGGAGTCAGTTCTGTGGAAGGATTGAAGGCAGGAGG 49788  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCACACGGTAGCCTGACT 38673

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGATGCAGTGGTG  
CTGTACAGGTGTCTTTGCTGGGTTGCAGCCCTTTTTT 60438  
gi | 114795057 | ref | NC\_006483.2 | N ATGATGCAGTGGTG  
CTGTACAGGTGTCTTTGCTGGGTTGCAGCCCTTTTTT 65951  
gi | 73957561 | ref | NW\_876316.1 | Cf -----C  
CACTACCCCCTAGCCATCCG-----CCCTCCGGGC 40283

gi | 194719394 | ref | NC\_007316.3 | N AGGAG----GGGAC  
GACAGAGGATGAGATGGCTGGATGGCATCACCGACT 49834  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----  
--ATAAGAGTGTGCCCCAGCACAGACAGGGCGAGA 38709

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGAATATATGC  
CCAGGTTCTCGGTTTGTCTTACTAATGGCCCTGCGA 60488  
gi | 114795057 | ref | NC\_006483.2 | N CCCTGAAAATATGC  
CCAGGTCCTCGGTTTGTCTTACTAATGGCCCTGCGA 66001  
gi | 73957561 | ref | NW\_876316.1 | Cf CACCGGCCTTTGCC  
CTGCAGATACTAGTTGAGCATCCGTTG----- 40324  
gi | 194719394 | ref | NC\_007316.3 | N CGATGGACGTGAGT  
CTGAGTGAACCTCCGAGAGTTGGTGTATGGACAG---- 49880  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTGTATTATCAGT  
TTCTAGTCACGTGACAAAACACATGAGG----- 38751

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGGGCATCTTAGG  
CTCTGGATAATGAAACCCAAGGGGGTCTATTGAATG 60538  
gi | 114795057 | ref | NC\_006483.2 | N AAGGGCATCTTAGG  
CTCTGGATAATGAAACCTAAGGGGGTCTATTGAATG 66051  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ACTGTTG  
GTCTG-----CATCACCCGGGGTG----- 40350  
gi | 194719394 | ref | NC\_007316.3 | N --GGAGGCCTGGCG  
TGCTG-----CGATTCATGGGGTTGCAAAGAGTC 49921  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAAGGAA  
GTAAG----- 38763

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGGATGGTCTTGA  
TCTCTAGTGAATTGGGGCTTTCTGGCTTAATATCCT 60588  
gi | 114795057 | ref | NC\_006483.2 | N TAGGATGGTCTTGA  
TCTCTAGTGGATTGGGGCTTTCTGGCTTAATATCCT 66101  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATGGA  
GCCCAATCACAGATTTTCTGGGCTGCA--TCACCCG 40389  
gi | 194719394 | ref | NC\_007316.3 | N GGACACGACTGAGC  
GACTGAACTGAACTGAACTGAGAAGCAGTCTGCCCA 49971  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GGA

GCAACAACCTTCTTTTGGCTGGAGGTTTCAAAGCCCG 38802

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACAGAACGATCT  
TCATGGCGTTGTTTTTT----- 60619  
gi | 114795057 | ref | NC\_006483.2 | N GAACAGAACGATCT  
TCATGGCGTTGTTTTTTGTTTGTTTGTTTGTTTGTT 66151  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGTAATGGAGCCC  
AATCACAGAT----- 40413  
gi | 194719394 | ref | NC\_007316.3 | N GTTTAGTTTTTTGCC  
TTTGCCATTT----- 49995  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCCCTCCCTGCC  
CCACCCACCC----- 38826

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TGTTTGTTTTTCAGA  
CAGAGTTTCACTCTTGTCGCCTAGGCTGGAGTGCAA 66201  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N TGGCACGATCTTGG  
CTCACTGCAATCTCCACCTCCCAGGTTTCATGCAATT 66251  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CTCCTGCCTCAGCC  
TCCCAAGTAGCTGGGATTACAGGGGCGCACCACCAC 66301  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ACCCAGCTAATTTT  
TTGAATTTTAAGTAGAGATGGGATTTTCACCATGTTG 66351  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GCCAGGCTAGTCTT  
GAACTCCTGACCTCAGGTGATCCACCTGCCTCAGCC 66401  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TCCCAAAGTGCTGG  
GATTACAGGTGTGAGCCAGTGCTTCCAGCCTTCGTG 66451  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N GAGCTTTTGAGGAG  
CATTTATCCTTCTGTGTTACTGTGTATAGCACATGA 66501  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N CTGCGTGATCTGTT  
TGTATCACTTTCATTGAATCCCCTTCATGTTTCATGN 66551  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N ANNGTTGGGATTGG  
GGGAGGGTGTGAACAANACANCNTGGNTCCCACCTT 66601  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N CAANNNNNNNNNNG  
AACAAGAAAAAAGCTGTACTCATAGATAATAGTCT 66651

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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N TTAGGTTTTAGCTT  
TAAACAACCTATAAATGAGCGGAGACGAATGCCAGG 66701

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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N GCTTGGACTTCCCC  
CCAGACCTGTTTGGAACCATGAAAATGATGCAGTGG 66751

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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TGCTGTACAGGTGT  
CTTTGCTGGGTTGCAGCCCTTTTTCCTGAAAATAT 66801

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GCCCAGGTCCTCGG  
TTTGTTTTGCTAATGGCCCTGCGAAAGGGCATCTTA 66851

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GGCTCTGGATAATG  
AAACCTAAGGGGGTCTATTGAATGTAGGATGGTCTT 66901

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N GATCTCTAGTGGAT  
TGGGGCTTTCTGGCTTAATATCCTGAACAGAACGAT 66951  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
---TTGTTTGTGGTTTGTGGTTTGTGGTTTTCAGACAGAGT 60652  
gi | 114795057 | ref | NC\_006483.2 | N CTTCATGGCGTTGT  
TTTTTGTGGTTTGTGGTTTGTGGTTTTCAGACAGAGT 67001  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTTCTGGGCTGGCG-----GGA 40430  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GCGCTTCCTTGGAGGCTCAGACAGT 50020  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCACTGTCACCTTGCTCCTATGGT 38850

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCACTCTTGTCGC  
CCAGGCTGGAGTGCAATGGCACGATCTTGGCTCACT 60702  
gi | 114795057 | ref | NC\_006483.2 | N TTCACTCTTGTCGC  
CTAGGCTGGAGTGCAATGGCACGATCTTGGCTCACT 67051  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAGTAAGTGTAAA  
CAAGTCAAGTGAACATTGATAAAAATCATCAC----- 40475  
gi | 194719394 | ref | NC\_007316.3 | N AAAGAATCTGCCTA  
CAAAGCAGTAGACCTAGGTTTGATCCCTAGCTGGGG 50070  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGCCAGATGCCGT  
GGCGGAAGGTGTAGCAGGCCTAGGATTCTCCTGG-- 38898

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAATCTCCATCTC

CCAGGTTTCATGCAATTCTCCTGCCTCAGCCTCCCAA 60752  
gi | 114795057 | ref | NC\_006483.2 | N GCAATCTCCACCTC  
CCAGGTTTCATGCAATTCTCCTGCCTCAGCCTCCCAA 67101  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAC  
TTACGATCAAGG----- 40490  
gi | 194719394 | ref | NC\_007316.3 | N -----AGATC  
CCCCGAAGAAGGGAATGGCTACCCACTCCAGTATTC 50111  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CAG  
CAGAAATCAGTGAG----- 38915

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gi | 51473102 | ref | NT\_010498.15 | \_ GTAGCTGGGATTAT  
AGGGGCGCACCACCACACCAGCTAATTTTTTTAAAT 60802  
gi | 114795057 | ref | NC\_006483.2 | N GTAGCTGGGATTAC  
AGGGGCGCACCACCACACCAGCTAATTTTTTTGAAT 67151  
gi | 73957561 | ref | NW\_876316.1 | Cf ----CTG-----  
CCAAGG---AAACAGTTGCAGAGAGAGTAAAAGGGA 40526  
gi | 194719394 | ref | NC\_007316.3 | N TTGCCTGGGAAATC  
CCACGG---ACAGAGGAGCCTGGTGGGCTACAGTCC 50158  
gi | 149361523 | ref | NC\_000074.5 | \_ --ACATGCAGGTGC  
TCCTGG----CTCTCCTCCTTCATTCCATCAAGACC 38959

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTAAGTAGAGATG  
GGATTTACCATGTTGGCTAGGCTGGTCTTGA ACTC 60852  
gi | 114795057 | ref | NC\_006483.2 | N TTTAAGTAGAGATG  
GGATTTACCATGTTGGCCAGGCTAGTCTTGA ACTC 67201  
gi | 73957561 | ref | NW\_876316.1 | Cf GGTGGG-----  
-----AAGAGACATGTCCTGGGCAG 40552  
gi | 194719394 | ref | NC\_007316.3 | N ATGGGGTCACAATG  
--AGTCAGACATGACTGAGCGACCAACACTTTGCCG 50206  
gi | 149361523 | ref | NC\_000074.5 | \_ CGATGG-----  
-----GCTGGCACTGCCCTCCCACG 38985

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGACCTCAGGTGA  
TCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTAC 60902  
gi | 114795057 | ref | NC\_006483.2 | N CTGACCTCAGGTGA  
TCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTAC 67251

gi | 73957561 | ref | NW\_876316.1 | Cf GTGGCCAGGGAAGG  
TGCTCGG-----A 40574  
gi | 194719394 | ref | NC\_007316.3 | N CTTGCCAGCGGGGC  
CACCCAGGCAAG-CATCTTCACTTTCTGGTTCTCT 50255  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCCAGTCAATCC  
TCTTACAC----- 39007  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTGTGAGCCAGT  
GCTTCCAGCCTTCGTGGAGCTTTTGAGGAGCATTTA 60952  
gi | 114795057 | ref | NC\_006483.2 | N AGGTGTGAGCCAGT  
GCTTCCAGCCTTCGTGGAGCTTTTGAGGAGCATTTA 67301  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGG-----  
-----CAGAAGCAGAGATAGAGG-----AA 40598  
gi | 194719394 | ref | NC\_007316.3 | N GTGT-----  
-----CCTCCTCTGTAAATGAGGGTGACGTCAA 50287  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAGATGTGTGCTTTACC-----AA 39027

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTTCGGTGTTAC  
TGTGTATAGCACGTGACTGCGTGATCTGTTTCGTATC 61002  
gi | 114795057 | ref | NC\_006483.2 | N TCCTTCGGTGTTAC  
TGTGTATAGCACATGACTGCGTGATCTGTTTGTATC 67351  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCGTTGGAG----  
-----AAGGCAGGAAAGG----- 40621  
gi | 194719394 | ref | NC\_007316.3 | N CCCTCCTAAG----  
-----GGTGCGTGAGGATGC----- 50312  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTCCTGTTG----  
----- 39037  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTTTCATTGAATC  
CCTTTCATGTTTCATGTAGTGTTGGGATTGGGGGAGG 61052  
gi | 114795057 | ref | NC\_006483.2 | N ACTTTCATTGAATC  
CCTTTCATGTTTCATGTAGTGTTGGGATTGGGGGAGG 67401  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GGTTCA  
GCAGGGAGGG-----CCCAACCATGGTAGGCG 40654  
gi | 194719394 | ref | NC\_007316.3 | N -----CCTGGTGCC

CCTTGCAGGTGCCTGCC--GCCAAACTGAGCACAAG 50355  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ATTCC  
TCTGTCCAGT-----CAAGCTGACAGTCCA 39067

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTGAACAAG-AC  
AGTCATGGTTCCCACCTTCAAAGATTGTAGGTCTCA 61101  
gi | 114795057 | ref | NC\_006483.2 | N TTGTGAACAAG-AC  
AGTCATGGTTCCCACCTTCAAAGATTGTAGGTCTCA 67450  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGGACCGAG---  
-----CTG----- 40668  
gi | 194719394 | ref | NC\_007316.3 | N GTGGGTGCGTGTTTC  
TAATTAGCATCTGGAACCTCGGCCCTTGGTTTATGGA 50405  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGGCTCTAAG---  
-----A 39079  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGGGATGGAGAA  
TCGATGGGAATCAAGGGCTAGAGGAAGAGAGCTGGG 61151  
gi | 114795057 | ref | NC\_006483.2 | N GTGGGGATGGAGAA  
TCGATGGGAATCAAGGGCTAGAGGGAGAGAGCTGGG 67500  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGGGCACCTGGGG  
ACACCAGGAAGGACAG-----GGTGGGCT-CTGTG 40710  
gi | 194719394 | ref | NC\_007316.3 | N GACGGCTGCAGGAG  
AGGACAGAAGACACAG-----GGCTGACAGCAGGG 50449  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGCCAGGGCGGA  
GCTCAGTGATTGATAG-----AGCATCACTGGCAGG 39124  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGAGAGGCAGAGG  
CAGGTGGGAGAGGGAGCGTGAAGCTGAGATCTGGAG 61201  
gi | 114795057 | ref | NC\_006483.2 | N AAGAGAGGCAGAGG  
CAGGTGGGAGAGGGAGCGTGAAGCTGAGATCTGGAG 67550  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCAGAGCCACATA  
GTGG-----AGTCAGGGAACAT--ATCACCTG-- 40749  
gi | 194719394 | ref | NC\_007316.3 | N AGCAGAACCAGGGT  
CTGGGCTTTAAGCCCGGGGAACCTGCCTTCCCTGGC 50499  
gi | 149361523 | ref | NC\_000074.5 | \_ TACAAAGCCCTGGG  
GTTCCAACCCTGCACCACAAAAGACCAGCACAGCAG 39174

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGCTGTGGCTGAT  
 GTGATGAGGCCTTGGAGGAGACTGGGTGTGCATATT 61251  
 gi | 114795057 | ref | NC\_006483.2 | N ---CTGTGGCTGAT  
 GTGATGAGGCCTTGGAGGAGACTGGGGGTGCAGATT 67597  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGCTTAT  
 GGGCCTCTTTCCTCCTGATTCTTTTTTTTTTTTTTTTC 40793  
 gi | 194719394 | ref | NC\_007316.3 | N CTGGCGATGCTCAT  
 AAACAACATATCCCAGCCCAGGTCCTGCTGGAGGAGC 50549  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCACCTTGCCTTGA  
 TTACAGCTACCAAGACCCTGTTCCCAG-AGAAGGTC 39223

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGTGGCTGTCAA  
 AACAAAGCACCCACAGGCTGCAGGGCTGGAAACAGAA 61301  
 gi | 114795057 | ref | NC\_006483.2 | N CCTGGGGCTGCCAA  
 AACAAAGCACCCACAGGCTGCAGGGCTGGAAACAGAA 67647  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGTATTTTTTTTAA  
 AGATTTTATTTATTTATTTACAGAGAAAGAGAGAGAG 40843  
 gi | 194719394 | ref | NC\_007316.3 | N AGAGGCAGGCAGGG  
 GGAGTTGCCACAGCTTTTCCATGGCTGCTTGGGGAC 50599  
 gi | 149361523 | ref | NC\_000074.5 | \_ AGCCATACATCCAG  
 GGTTAGGGCCTGGATGAATCCATCAGTCTCTCTATC 39273

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTATTCTCACCA  
 TTCTAGAGG--CCAGAAGTCCGAGGTCCAGGTGTGG 61349  
 gi | 114795057 | ref | NC\_006483.2 | N GCTTATTCTCACCA  
 TTCTAGAGG--CCAGGAGTCCGAGGTCCAGGTGTGG 67695  
 gi | 73957561 | ref | NW\_876316.1 | Cf ACAG--AGATACAG  
 ACAGAGGG-----AGAAG--- 40868  
 gi | 194719394 | ref | NC\_007316.3 | N ACGGGCTTGTCCCA  
 GCAGAGGGGCAACTGGTGATCTGGGATGTGAAGGAG 50649  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCAGTCTGTCTGTC  
 TGACAGG----- 39294

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGAGCATGCTGT  
TCTTGAAGACCCTAGGGGGAGAATCAGCCAAATGCT 61399  
gi | 114795057 | ref | NC\_006483.2 | N CAGGAGCATGCCGT  
TCTTGAAGACCCTAGGGGGAGAATCAGCCGAATGCT 67745  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGGCTCC  
ATGCAGGAAGCCCAATGTGGGACTCAATCCAGGG-- 40910  
gi | 194719394 | ref | NC\_007316.3 | N CCACTTCAGGCCCG  
TGTTGGTTTCCCCGGGGTGGGACCCCCACCTTGTGT 50699  
gi | 149361523 | ref | NC\_000074.5 | \_ -----A  
TCTCATGTAGCCCAGGCTGGGTT----- 39318

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCAGCTTCTGGT  
GTCACAGGCAGTCCTGAGCACATAGATATCTTGCCT 61449  
gi | 114795057 | ref | NC\_006483.2 | N TCTCAGCTTCTGGT  
GTCACAGACAGTCCTTAGCACATAGATATCTTGCCT 67795  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TGTCTATAAGATGG  
TTCAGG-----TGACACGTTGTTGTTTCAGTCG 50740  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTAGTCTCTGTCTG  
TCACATGGTCTCCTCCTCTGTCTCTGCGTCTCTTCT 61499  
gi | 114795057 | ref | NC\_006483.2 | N CTAGTCTCTGTCTG  
TCACATGGTCTCCTCCTCTGTCTCTGCGTCTCTTCT 67845  
gi | 73957561 | ref | NW\_876316.1 | Cf -ACCGCAGAATCAC  
GCCCAAG-----CCAGAGGCAGATGCTCAACTG-- 40952  
gi | 194719394 | ref | NC\_007316.3 | N CTCCGTTGTGTCTA  
ACTCTTTGCAACCCCATGGGCGGTAGCACACCAGGC 50790  
gi | 149361523 | ref | NC\_000074.5 | \_ -TAACTTCTTATC  
TCACCAAGGCTGGCCTTGA ACTTGTGATAGCCTG-- 39365

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTCTTTTTATAAG  
GACGCCAGTTGTATTGGACTAGGGTGGATACTCTAA 61549  
gi | 114795057 | ref | NC\_006483.2 | N CTTCTTTTTATAAG

GACGCCAGTTGTATTGGACTAGGGTGGATACTCTAA 67895  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGAG  
CCACCCAG----- 40965  
gi | 194719394 | ref | NC\_007316.3 | N TTCCCTGTCCTTCA  
CTATCCTGGAGTTTGCTCAAACACT---CATGTCTAC 50836  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CATGTA  
CCTG----- 39375

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gi | 51473102 | ref | NT\_010498.15 | \_ TGACCCCATTTTTTA  
TTTGATGATGTCTGCAAAGGCCCTGTTTGCACATAA 61599  
gi | 114795057 | ref | NC\_006483.2 | N TGACCCCATTTTTTA  
TTTGATGATGTCTGCAAAGGCCCTATTTGCAAATAA 67945  
gi | 73957561 | ref | NW\_876316.1 | Cf -GAGTCCTATCTTT  
CTT-----CCTGATTTCAAATCA 40996  
gi | 194719394 | ref | NC\_007316.3 | N TGAGTCGGTGATAC  
CAT-----CCAACCATCTCATCC 50868  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTATATGC  
CGTG-----CCAGGAATTTAGCCC 39402

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCACATTCACGT  
GTACCAGGAGTTAGGATGTGAACATATTTTATTGGA 61649  
gi | 114795057 | ref | NC\_006483.2 | N GGTCACATTCACGT  
GTACCAGGAGTTAGGATGTGAACATATTTTATTGGA 67995  
gi | 73957561 | ref | NW\_876316.1 | Cf --TGTCATTAGAGT  
GCTCCACATG-----GCATGCTGGG 41028  
gi | 194719394 | ref | NC\_007316.3 | N --TCTGTCTCCCCT  
TCTCCTCCTGCCCTCAGTCTCTCCAGCATCGGGGT 50916  
gi | 149361523 | ref | NC\_000074.5 | \_ ---AGGGTTTGGGG  
TACCCAGGAG-----TGGGAGC 39430

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGACACAATTCAA  
CCCCTTAGCAGCAGGCACTGGGCTGCCGGGAGAAGG 61699  
gi | 114795057 | ref | NC\_006483.2 | N GGGACACAATTCAA  
CCCCTTAGCAGCAGGCACTGGGCTGCCGGGAGAAGG 68045  
gi | 73957561 | ref | NW\_876316.1 | Cf -CCATTCTTG----  
--ACATAGACACAGGAGGTG----- 41055



gi | 194719394 | ref | NC\_007316.3 | N -CTTTTCCAGTGAG  
TCAGCTCGTCACATCAGGTAGCCT-----AAGTAT 50959  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGATCTCCTGAT  
CCTACACTGAACATATGTAG----- 39464

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTGGATGGACAA  
CAAGCTCGTTGAAGGAGATGAGGACAAGGAGGCCTG 61749  
gi | 114795057 | ref | NC\_006483.2 | N GGGTGGATGGACAA  
CAAGCTCATTGAAGGAGATGAGGACAAGGAGGCCTG 68095  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACAGGGGTATGAACCCT 41072  
gi | 194719394 | ref | NC\_007316.3 | N TAGAGCTTCCGCAT  
CAGTCCTTCCAATGAATATTCAGGGTTGATTTCTT 51009  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GTTGAGCACCT 39476

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCAGGGCTGGGA  
AGACCCGTCTACGCGAACGGCAAAGTTGCCAAGAGC 61799  
gi | 114795057 | ref | NC\_006483.2 | N AGCCAGGGCTGGGA  
AGACCCGTCTACGCGAACGGCAAAGTTGCCAAGAGC 68145  
gi | 73957561 | ref | NW\_876316.1 | Cf AG-----  
----- 41074  
gi | 194719394 | ref | NC\_007316.3 | N TAGGTTTACTGGT  
TTGATCTCAAAGTACTCTCAAGAGTCTTCTCCAAC 51059  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
----- 39478

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCTGCAGGTGGA  
CAGAGTAAAGTCAGTTCTGGGCCGGGTGCGGTGGCT 61849  
gi | 114795057 | ref | NC\_006483.2 | N AGCCTGCAGGTGGA  
CACAGTAAAGTCCGTTCTGGGCCGGGTGCGGTGGCT 68195  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N A--TCACAGTTCAA  
AAGTATCAAGTCTTCAGCACGCAAGCT-----T 51099  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ CACGTCTGTAATCC  
 CAGCACTTTTGGACACTGAGGCAGACGGATCACTTG 61899  
 gi | 114795057 | ref | NC\_006483.2 | N CATGTCTGTAATCA  
 CAGCACTTTTGGACACTGAGGCAGACGGATCACTTG 68245  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTTTCTG--CAACC  
 G-----AGAGGGAGCTCAT- 41100  
 gi | 194719394 | ref | NC\_007316.3 | N CTTTATGGTCCACC  
 TGTCACATCAGTACATGGCTACTGGAAAAAACAT- 51148  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----CTCAACTCC  
 AGG-----AGGTCACACAGGATCCATTTT 39511

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTTAGGAGTTTA  
 AGACCAGGTTGGCCAACATGGTGAAACCCCATCTGT 61949  
 gi | 114795057 | ref | NC\_006483.2 | N AGGTTAGGAGTTTA  
 AGACCAGCTTGGCCAACATGGTGAAACCCCATCTCT 68295  
 gi | 73957561 | ref | NW\_876316.1 | Cf GGGGTGTGTGCAGC  
 TGGCCATG-----CTGTGGA 41129  
 gi | 194719394 | ref | NC\_007316.3 | N AGCTTTGATTATAC  
 AGACCTTTGTTCGGCAAAGTGATGTCTCTACTTTTTTA 51198  
 gi | 149361523 | ref | NC\_000074.5 | \_ ACAAGTGGGGAAAC  
 TGAGACTCAAG-----CTCCACAACCTGC 39548

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTAAAATACAAA  
 AATCAGCTAGGCGTGGTGGCACGTGCCTATAATCCC 61999  
 gi | 114795057 | ref | NC\_006483.2 | N ACTAAAATACAAA  
 AATCAGCCGGGCGTGGTGGCGCGTGCCTATAATCCC 68345  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATGTGGATTGGAG-  
 ----TCCAGG-----ATGGGCATCCT 41159  
 gi | 194719394 | ref | NC\_007316.3 | N ATATGCTATCTAGG  
 CTTGTCATAG-----CTTTTCTTCCA 51233  
 gi | 149361523 | ref | NC\_000074.5 | \_ CTATGGCTACAGAA  
 TCTGGGATTG-----GAGGACAGACT 39583

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTACTGGGGGGC  
AGAGGCAAGAGAATTGCTTGAACCCGGGAGGCAGAG 62049  
gi | 114795057 | ref | NC\_006483.2 | N AGCTACTGGGGGGC  
AGAGGCAGGAGAATTGCTTGAACCCGGGAGGCAGAG 68395  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAAGTCTGGG---  
-----TTGTTGTAGAGAAGGGGTCTCTG 41193  
gi | 194719394 | ref | NC\_007316.3 | N AGGAGCAAGCGTCT  
T-----TTAATTTTCATGGCTGCAGTCACTG 51272  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGAACCATCCCTC  
G-----TGGTGCAGGATAGGACCCTTTC 39620

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTGTAGTGAGCTG  
AGATCACACTACTGCCCTCCAGCCTGGGCAGCAGAG 62099  
gi | 114795057 | ref | NC\_006483.2 | N GTTGTAGTGAGCTG  
AGATCACACTACTGCCCTGCAGCCTGGACAGCAGAG 68445  
gi | 73957561 | ref | NW\_876316.1 | Cf GCATTAG-----  
----CCTGAGGATATGAGGGTCCTGGGGAAAGCTTG 41232  
gi | 194719394 | ref | NC\_007316.3 | N TCTGCAGTGATTTT  
GAAGCCCAAGAAAGTAAAATTTGTCAGTGTTCAT 51322  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTCTAAGG-----  
-----TTCTGTTCCCACCCTTGGCAGCTGGCA 39656

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGACACCATCTC  
AAAAAAAAAAAAAAAAAAG--TCAGTTCTAGAATCT 62147  
gi | 114795057 | ref | NC\_006483.2 | N TGAGACACCATCTC  
AAAAAAAAAAAAAAAAAAGTCAGTTCTAGAATCT 68495  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCAACACCAGTCA  
TGGGTGCCCTGACTCAGTG----- 41265  
gi | 194719394 | ref | NC\_007316.3 | N TTTTTTCCCCCATC  
TATTTGCCATGAAGTAATG----- 51355  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCGTCGCCAGCC  
TACAAATATTGACTGAGTG----- 39689

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAGGAATTGAAG  
AGGGAGGGACCAGGGTCTTTTGGTGCTGGAGAAGGA 62197

gi | 114795057 | ref | NC\_006483.2 | N TCAAGGAATTGAAG  
AGGGAGGGACCAGGGTCTGTTGGTGCTGGAGAAGGA 68545  
gi | 73957561 | ref | NW\_876316.1 | Cf ----GGTCTTGGTG  
-----GGGGGTGGGGTGGGGACT 41293  
gi | 194719394 | ref | NC\_007316.3 | N ----GACTGGATG  
C--CCTGATCTTCATTTTTTTGAATGTTGAATTTTAA 51399  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTGATG  
AG-----CTGGCTGTTATGTCATCAA 39717

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGGAGTAGAACA  
TGTGATCCCAGTTCACCCTTACACAGCCCATGGGGT 62247  
gi | 114795057 | ref | NC\_006483.2 | N GCAGGAGTAGAACA  
TGTGATCCCAGTTCATCCTTACACAGCCCATGGGGT 68595  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCAGCTGGGAGTC  
TG-----CATTCGTAACAAGCTTCCCCAGGT 41333  
gi | 194719394 | ref | NC\_007316.3 | N GCCAACTTTTTTCAC  
TCTCCTCTTTCACCTTCATCAAGAGGCTCTTCAGTT 51449  
gi | 149361523 | ref | NC\_000074.5 | \_ GCACTGACTGAGCC  
TCGGGCCTGGGCCCTCCAGCCTGGGGTTTTTCAGG-- 39765

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGTCTGGCCTCCT  
TTTTACAGATTGGGAAACAGGCTTACACTAGCACAA 62297  
gi | 114795057 | ref | NC\_006483.2 | N AAGTCTGGCCTCCT  
TTTTACAGATTGGGAAACAGGCTTACACTAGCACAA 68645  
gi | 73957561 | ref | NW\_876316.1 | Cf GTTCATG-----CT  
GCTCTAAGAGG-----TGGCCCAG 41361  
gi | 194719394 | ref | NC\_007316.3 | N CCTCTTGGCTTTCT  
GCCATTAGGGTGG-----TGTCATTTGCATAT 51490  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CT  
GAGAAGAAAGT-----AA 39780

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTATGGGATCAGG  
GCATGGAAGAGACAGACTTCAAACCACTGAAGCCTG 62347  
gi | 114795057 | ref | NC\_006483.2 | N CTTATGGGATCAGG  
GCATGGAAGAGACAGACTTCAAACCACTGAAGCCTG 68695  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGGGG-----

-----TTCCAGCAAGAGGCAG 41383  
gi | 194719394 | ref | NC\_007316.3 | N CTGAGGTTATTGGT  
ATTTCTCCTGGCGGTCTTGATTCCAGCTTGTGTTTC 51540  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTG-----  
-----AATGACTTAAGTGTG 39800

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCCAAAGCCGGGC  
TCCTTGTCAGCAACCCAACCC--CCACCTCAGCA 62395  
gi | 114795057 | ref | NC\_006483.2 | N ATCCAAAGCCAGGC  
TCCTTGTCAGCAACCCAACCCCTCCAACCACAGCA 68745  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCCAG-----  
----- 41389  
gi | 194719394 | ref | NC\_007316.3 | N GTCCAG-----  
----- 51546  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTGTA-----  
----- 39806

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATGGGGACTCTG  
CTGCCAGCCACTGCCCTCACTCCCTATCCTTGGCG 62445  
gi | 114795057 | ref | NC\_006483.2 | N GGATGGGGACTCTG  
CTGCCAGCCACTGCCCTCACTCCCTATCCTTGGCA 68795  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GAAAGAAGTTGAGCCCCTGACAAGAGTA 41417  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCTGGCATTTCACATGATGTACTCTGCA 51574  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAGTGCAGTCTGGGGCTGGAGAGATGG 39834

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCATTGGCAATGG  
GCTCGAGTTTGTGGTGGCCCATGAATATGTATTGGGC 62495  
gi | 114795057 | ref | NC\_006483.2 | N GCCATTGGCAATGG  
GCTCGAGTTTATTTGCCCCATGAATATGTATTGGGC 68845  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCAGGTGATTAAG  
GCTTCGG----- 41438  
gi | 194719394 | ref | NC\_007316.3 | N CGTAGGTTAAATAA  
GCAGAATGACAATA-----TACGGCCTTGACG 51615



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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGGAATAACTGC  
 CGAGAAAGAGATTAAAAGGGAGGTAGAAACCAGCTG 62695  
 gi | 114795057 | ref | NC\_006483.2 | N AAAGGAATAACTGC  
 CGAGAAAGAGAT-AAAAGGGAGGTAGAAGCCAGCTG 69044  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCAG-----  
 AAGCTGTGACAAAGAACCT----- 41547  
 gi | 194719394 | ref | NC\_007316.3 | N ACAGTCAAAGACTT  
 TAGCATAGTCAATGAAGCAGAAGTAGATGTTTTCT 51809  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 CTACAATTCTAGGATGCCTG----- 39941

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCATGGTGGCTCA  
 CACCTGTAATCACAGCACTTTGGGACTCTGAGGTGG 62745  
 gi | 114795057 | ref | NC\_006483.2 | N GGCATGGTGGCTCA  
 CGCCTGTAATCACAGCACTTTGGGACTCTGAGGTGG 69094  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----CCTTCAAATAATGGCACATT----- 41567  
 gi | 194719394 | ref | NC\_007316.3 | N AGAATTCCTTTGCT  
 TTCTCTATGATCCAGAGGATATTGGCAATTTGATCT 51859  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----GCACCTTCACAGGCATACATGTAGG--- 39966

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGATCACTTGAG  
 ATCAGGAGTTCAAGAACAGCCTGGCCAATGTGGTGT 62795  
 gi | 114795057 | ref | NC\_006483.2 | N GCAGATCACTTGAG  
 ATCAGGAGTTCAAGAACAGCCTGGCCAACGTGGTGT 69144  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----CCATTCCC  
 ATCTTATAAACCATG-----GGAGGTTCTG- 41600  
 gi | 194719394 | ref | NC\_007316.3 | N CTGGTTCCTCTGCC  
 TTTTCTAAATCCAGCTTATAACATCTGGAAGTTCTTG 51909  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----CAAACC  
 ACCAATGCACATAAAATAATGAATAAGTAAATCTTA 40008

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCATCTCTACCAA

AAATACAAAATTAGCCGGGCATGGTGGTGTGTACCT 62845  
gi | 114795057 | ref | NC\_006483.2 | N TGTATCTCTACCAA  
AAATACAAAATTAGCCGGGCATGGTGGTGTGTACCT 69194  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGAGCCAA  
AAAGACCAG-----CCAA 41621  
gi | 194719394 | ref | NC\_007316.3 | N G-TTCATGTACTGC  
TGAAGCCTAGCTTGAAGGATTTTGAGAATT--ACCT 51956  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAAACAGTACAGC  
TACAGCTTAG----- 40032  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTAATCCCAGCTAC  
TCAGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTTG 62895  
gi | 114795057 | ref | NC\_006483.2 | N GTAATCCCAGCTAC  
TCAGGGAGGCTGAGGCAGGAGAATGGCTTGAACCTTG 69244  
gi | 73957561 | ref | NW\_876316.1 | Cf TATTTACAAGTAAA  
TAACAGAAAGG----- 41646  
gi | 194719394 | ref | NC\_007316.3 | N TGCTAGCATGTGAA  
ATGAGTGCAGTTGTGCAGAAGTTTGAACATTCTTTG 52006  
gi | 149361523 | ref | NC\_000074.5 | \_ --CATCCGTGCTGC  
ATTGATGCTGG----- 40055  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGCAGAGGTTG  
CAGTGAGCCGACATCTCACCCTGCACCCCAACCTG 62945  
gi | 114795057 | ref | NC\_006483.2 | N GGAGGCAGAGGTTG  
CAGTGAGCCGACATCTCACCCTGCACCCCAACCTG 69294  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCCCATG-  
-----TCCATCCCCAGTGCCATTTGTAG 41677  
gi | 194719394 | ref | NC\_007316.3 | N GCATTCCCCTTTGG  
GACTGGAATGAAATCCAATACATATACCTTTTCCAG 52056  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCCCATGGG  
AAATGGTGTCCCTGAGAGAGACTGAGAGGAATCTAG 40100  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAACAGAGCAAA  
ACTCTGTCTCAAGACGAAAAAAGGGAGGTAGAAGG 62995  
gi | 114795057 | ref | NC\_006483.2 | N GGCGACAGAGCACA  
ACTCTGTCTCAAGAAGAAAAAAGGGAGGTAGAAGG 69344



gi | 73957561 | ref | NW\_876316.1 | Cf -----GTCA  
CTCCTGGG-----TCCTG----- 41694  
gi | 194719394 | ref | NC\_007316.3 | N T---CCTGTGGCCA  
CTGCTGAGTTTTCCAAATTTGCTGGCATATTGAGTG 52103  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----AAGG  
GACCTGGG-----CCTGG----- 40118

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATGGACTGGAAG  
AGGTGGCCAGGGAGGGTTATGGGTAGAGAGTTGAGG 63045  
gi | 114795057 | ref | NC\_006483.2 | N GGATGGACTGGAAG  
AGGTGGCCGGGGAGGGTTTTGGGTGGAGAGTTGAGG 69394  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CATCAATTTAACAG  
CATTATCTTTTAGGGTTTGAAA----- 52139  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTCAGGAGATGAG  
CAGGAAGGGTGTTCAGGCAGGGGGAACAGCACAGGC 63095  
gi | 114795057 | ref | NC\_006483.2 | N AGTCAGGAGATGAG  
CAGGAAGGGTGTTCAGGCAGGGGGAACAGCACAGGC 69444  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCCTCCACATCC 41706  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TAGTTCAGCTGAAATTCCATCACCTCC 52166  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GAAAGTGTCCAGGTAT 40134

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGGTTTGGGGGT  
GGGAACATATCCGAGGGTCACTTGGGGGGGACCACA 63145  
gi | 114795057 | ref | NC\_006483.2 | N CAAGGTTTGGGGGT  
GGGAACATATCCGAGGGTCACTTGGGGGGGACCACA 69494  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCCCTCTG----  
----- 41716  
gi | 194719394 | ref | NC\_007316.3 | N ACTAACTTTGTTCA

GAGTGATGCTTCCTAAGGCCCA-----CTTG 52206  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGTTCTCTG-----  
-----G 40145  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTGAGCTCTGTGA  
GCAGAATGAGATGATGGAGTTGCTTAGATCATGGGG 63195  
gi | 114795057 | ref | NC\_006483.2 | N GCTGAGCTCTGTGA  
GCAGAATGAGATGATGGAGTCGCTTAGATCATGGGG 69544  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTTCTCCATTAG  
----- 41730  
gi | 194719394 | ref | NC\_007316.3 | N ACTTCCCCTCCAG  
GATGTCTGGCTCTAGGTGAGTGACCACACCATCGTG 52256  
gi | 149361523 | ref | NC\_000074.5 | \_ GATAGTGAAAGTAG  
G----- 40160  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAATCATGGCCCC  
TTCTCCTATTCCTAACCTCATCATCAGAGCCTTTCC 63245  
gi | 114795057 | ref | NC\_006483.2 | N AAATCATGGCCCC  
TTCTCCTATTCCTAACCTCATCATCAGAGCCTTTCC 69594  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GTCCA  
TGAGACACTTGCCATTCAGAGAAATTGTATACTGTT 41771  
gi | 194719394 | ref | NC\_007316.3 | N GTTATCTGAGTCAT  
TAAGACCTTTTTTTGTACAGTTCTTTTGTGTATTCTT 52306  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GAG  
TTGAGAAGAGTCAGTTAAGAGAATAGGAGGAGGGGA 40199  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAATACGCCACGCC  
AGGCTGTCTCTGTGACACTTTGGAAGCAGAGAGATG 63295  
gi | 114795057 | ref | NC\_006483.2 | N CAATACGCCACGCC  
AGGCCGTCTCTGTGACACTTTGGAAGCAGAGAGATG 69644  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTTTCACTTG---  
-----TGACTTTGAAAAGATGAAGATTTTTT- 41807  
gi | 194719394 | ref | NC\_007316.3 | N GCCACCTCTTC---  
-----TTAATATCTTCTGCTTCTGTTAGGT- 52342  
gi | 149361523 | ref | NC\_000074.5 | \_ GCACCAGGCAG---  
-----GAAGAGAATAGGAGGAGGGGAGCAC 40235

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAGTG-TTGGCC  
ACCCTTGATTTAGAGGCCGAAGGAAGTGGGAGGTGG 63344  
gi | 114795057 | ref | NC\_006483.2 | N AAAAGTG-TTGGCC  
ACCCTTGATTTAGAGGCCGAAGGAAGTGGGAGGTGG 69693  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCAGAG-TTAGCC  
ACTCAAGAT--CACGGCCTCAGAAGGTGG---AAAT 41851  
gi | 194719394 | ref | NC\_007316.3 | N CCATACC-ATTTCT  
GTCCTTTAT--CGAGCCCATCTTTGCATG---AAAT 52386  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGCAGGAAGAGA  
ATAGGAGGAGGGGAGCACCAGGCAGGAAGAGAATAG 40285

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGCCCCAGCTTAT  
TACAGAAGCGGGGGCTGGGAGGAAGGGGGCACTGGA 63394  
gi | 114795057 | ref | NC\_006483.2 | N GAGCCCCAGCTTAT  
TACAGAAGCGGGAGCTGGGAGGAAGGGGTCTGCTGGA 69743  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGCCG-----  
---GGTAGCCAGAGAGGAAGAGATTCTCCAAAAGA 41890  
gi | 194719394 | ref | NC\_007316.3 | N GTTCCCTT-----  
---GGTATCTCTAATTTCTTGAAGAGATCTCTAGT 52427  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGGAGGG-----  
---GAGCACCAGGCAGGAAGAGAATAGGAGGAGGGG 40326

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGGACGCCGAGC  
TGTGCTGGGGACAGTGGGGTTTGGGGCATTGGAAGA 63444  
gi | 114795057 | ref | NC\_006483.2 | N GCAGGACGCCAAGC  
TGTGCTGGGGACAGTGGGGTTTGGGGCATTGGAAGA 69793  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTAACATGAGAAT  
TGT-----TCTTTTACA 41916  
gi | 194719394 | ref | NC\_007316.3 | N CTTTCCCATTCTGT  
TGT-----TTTCTCTA 52453  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCACCAGGCAGGA  
AGAG-----ACTAGGAGGA 40354

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gi | 51473102 | ref | NT\_010498.15 | \_ GCACCTGCAGAGGC  
AGGCACTGGAGAGCTGAGGTCTCCCGCCGAGCTGAA 63494  
gi | 114795057 | ref | NC\_006483.2 | N GCACCTGCAGAGGC  
AGGCACTGGAGAGCCGAGGTCTCCCAAGCTGAA 69843  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTTTATCCTAAT  
TCCCTGTG----- 41938  
gi | 194719394 | ref | NC\_007316.3 | N TTTCTTTGCATTGC  
TCGCTAAGGAAGGCTTTCTTATCTCTCCTTGCT--- 52500  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAGCACCAGGC  
AGGAAGAG----- 40376

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACGGGAGGGTCC  
CTGAGAGAGATGGCAAACCTGGATGGCCGCTCCCCC 63544  
gi | 114795057 | ref | NC\_006483.2 | N GAACGGGAGGGTCC  
CTGAGAGAGATGGCAAACCTGGATGGCCGCTCCCCC 69893  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TC  
TTGAGTGACGTG-----CAAGATGAT----- 41961  
gi | 194719394 | ref | NC\_007316.3 | N -----ATTC  
TTTGGA ACTCTG-----CATT CAGATGGATATATC 52534  
gi | 149361523 | ref | NC\_000074.5 | \_ -----A  
ATAGGAGGAGGGGAGCACCAGGCAGGAAGAG----- 40408

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTCGGGGCTGGG  
TGGGGCCCGAGACTCACATTTCTTTCTTTCTTTTAA 63594  
gi | 114795057 | ref | NC\_006483.2 | N AACTCGGGGCTGGA  
TGGGGCCTGAGACTGACGTTTCTTTCTTTCTTTTAA 69943  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAAAGTATACTCGCTTTTCCTGGT 41986  
gi | 194719394 | ref | NC\_007316.3 | N TTTCCTTTTCT---  
-----CCTTTGCCTTTC ACTTCTCTTCTTTTCTCAA 52576  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AATAGGAGGAGGGGAGCACCAGGCAGGAAGA 40439

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gi | 51473102 | ref | NT\_010498.15 | \_ TTATTTTCAGTAGGC  
TTTTTCGGGAACAGGTGGTGTTCGTTACGTGAATAA 63644  
gi | 114795057 | ref | NC\_006483.2 | N TTATTTTCAGTAGGC

TTTTGGGGAACAGGTGGTGTTCGTTACATGAATAA 69993  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAT-----  
-----GCTAATCTTTATTAGTTTATGGATTAATTT 42020  
gi | 194719394 | ref | NC\_007316.3 | N CTATTTGTAGGGCC  
TTATCAGACAACCATTTTGCCTTCTTGCATTTCTTT 52626  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAT-----  
-----AGGAGGAGGGGAGCACCAGGCAGGAAGAG 40472  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTATTTAGTGGTG  
ATTTCTGAGATTTTCATGCACCCATCACCTGAGCAG 63694  
gi | 114795057 | ref | NC\_006483.2 | N GTTATTTAGTGGTG  
ACTTCTGAGATTTTCATGCACCCATCACCTGGGCAG 70043  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTATTATTATG--  
-----CAAGCATCCAAATAGGTGTAAAAACGCCCT 42062  
gi | 194719394 | ref | NC\_007316.3 | N TTCTTGGGGATGGT  
TTTGATCCACCTCCCATATAATGTTACCAACCTCCA 52676  
gi | 149361523 | ref | NC\_000074.5 | \_ AATAGGAGGAGGGG  
-----AGCACCAGGCAGGAAGAGAATAGGAGGAGGG 40517  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGTACACTGTACCC  
AATGTGTTGAGACTCACATTTCTTTTG-TTTGCTTT 63743  
gi | 114795057 | ref | NC\_006483.2 | N TGTACACTGTACCC  
AATGTGTTGAGACTCACATTTCTTTTG-TTTGCTTT 70092  
gi | 73957561 | ref | NW\_876316.1 | Cf T--CCCGGG-----  
----- 42069  
gi | 194719394 | ref | NC\_007316.3 | N T--CCATAGTTCTT  
CAGGTATTACGTCTACCAGATCTAATCCCTTGAATC 52724  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGCACCAG-----  
----- 40526  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTATTTTTTAAATT  
TTTCTTTAAGTTCTAGGATACATGTGCAGAATGTGC 63793  
gi | 114795057 | ref | NC\_006483.2 | N TTTATTTTTTAAATT  
TTTCTTTAAGTTCTAGGATACATGTGCAGAATGTGC 70142  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TCTTTGACCCCAAC  
ACTTATGGGGTTCTCTTCCACTGTATAATCATAAGG 52774  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTTTGTACATA  
GGTATACACGTGCCATGGTGGTTTGCTGCACCTACC 63843  
gi | 114795057 | ref | NC\_006483.2 | N AGGTTTGTAAATA  
GGTATACACGTGCCATGGTGGTTTACTGCACTTATC 70192  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-ATCCCTGGGTGGCGCAGCGGTTTGGTGCCTGCCTT 42104  
gi | 194719394 | ref | NC\_007316.3 | N GTTCTGATTTAGGT  
CATACATGAATGGCCTAGTGGTTT--TCCCTGCTTT 52822  
gi | 149361523 | ref | NC\_000074.5 | \_ -----G  
CAGGAAGAGATAGCAGGAGGGGAGCATCACTGACTC 40563

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gi | 51473102 | ref | NT\_010498.15 | \_ AACCCGTCATCTAG  
GTTTTAAGCCCCACATGCATTAGGCATTTGGCCTAA 63893  
gi | 114795057 | ref | NC\_006483.2 | N AACCCGTCATCTAG  
GTTTTAAGCCCCACATGCATTAGGCATTTGGCCTAA 70242  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCCCAGGGCGCG  
-ATCTG-----GAGACCCGGGATCGAATCCCAC 42146  
gi | 194719394 | ref | NC\_007316.3 | N CTTCAAATTAGGTG  
-AATTTAGCAATGAGACGTTTCATGATCTGAGCCACA 52871  
gi | 149361523 | ref | NC\_000074.5 | \_ GGAAGAAAAGCATA  
AGATACACCGAGGAGACATTGCAAAAAGAAAAG 40613

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCTCTCCCCGAA  
CCCCCG--ACAGGCCTGGGTGTGGATGTCCCCCTC 63941  
gi | 114795057 | ref | NC\_006483.2 | N TGCTCTCCCCGAA  
CCCCCG--ACAGGCCTGGGCGTGGATGTCCCCCTC 70290  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCAGGCTCCCGG-  
-----TGCATGGAGCCTGCTTCTCCCTCTC 42184  
gi | 194719394 | ref | NC\_007316.3 | N GTCAG-CTCCTGGT  
CTTGTTTTTGTGATTGCATAGAGCTTCTCCATCTT 52920  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGAGAATCATTCT

-----TCTAGAATTTATCTCAGGCC 40648  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGTGTCCATGTA  
TTCTCATTG-----TTCAACTCCCACCTTAGGAGTGA 63986  
gi | 114795057 | ref | NC\_006483.2 | N CCTGTGTCCATGTA  
TTCTCATTG-----TTCAACTCCCACCTTAGGAGTGA 70335  
gi | 73957561 | ref | NW\_876316.1 | Cf CTG-----  
-----TGT 42190  
gi | 194719394 | ref | NC\_007316.3 | N CAGCAAAGAATATA  
ATCAATCTGATTTTCAGTACTGACCATCTGGTCATGT 52970  
gi | 149361523 | ref | NC\_000074.5 | \_ CAATGGCCAGAGTG  
TTATTAAAG-----ATGA 40675

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACATGCCGTGTT  
TGCTTGCTTGTTTTTG-AGATGGAGTCTTGCTCTGT 64035  
gi | 114795057 | ref | NC\_006483.2 | N AACATGCCGTGTT  
TGCTTGCTTGTTTTTG-AGATGGAGTCTTGCTCTGT 70384  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCTG-----C  
CTCTTTCTCTCT-----CTATGT 42214  
gi | 194719394 | ref | NC\_007316.3 | N CCCTGTGTAGAGTC  
ATCTTTTGTGTTGTTGGAAGAGGGTGTGTTTGCTATGA 53020  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCAAG-----  
AACTTGCTCTTCCTGG-----TCTCT 40703

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGGCTGGAGTGC  
AGTGGCGTGATCTTGGCCCACTGCCACCTCCATCTC 64085  
gi | 114795057 | ref | NC\_006483.2 | N CCAGGCTGGAGTGC  
AGTGGCGTGATCTTGGCTCACTGCAACCTCCATCTC 70434  
gi | 73957561 | ref | NW\_876316.1 | Cf CTA-----T  
CATG-AATAAATAAATAAATCTTTAAAAA 42253  
gi | 194719394 | ref | NC\_007316.3 | N CCAG--TGCATTTT  
CTTGGCAAACCTCTGTTAGCCTTTGCTCTGCTTCAT 53068  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTG-----GT  
CTTTATTGGTTTGTGGATTATTTTTTTATGCTATGA 40745

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 70629  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 70679  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 70729  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 70779  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN

NNNNNNNNNNNNNNNGTTGCCTGCCACCACACTCTCAC 70829

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ---CTAATTTTGT

ATTTTAAATAGAGATGGGGTTTCACTATGTTGGCCA 64204

gi | 114795057 | ref | NC\_006483.2 | N AGCATAATTTTGT

ATTTTAAATAGAGATGGGGTTTCACTATGTTGGCCA 70879

gi | 73957561 | ref | NW\_876316.1 | Cf -AGAAAGTCTT---

----- 42309

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gi | 194719394 | ref | NC\_007316.3 | N -AAAAGGACATTTT

TTTTTTTTTTTTTTTGGTGTAGTTCTAGAAGGTCCT 53197

gi | 149361523 | ref | NC\_000074.5 | \_ ----GCGTCCC---

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTCATCTCGAAC

TCCTGACCTCAGGTGATCTGCCTGCCTCTGCCTTCC 64254

gi | 114795057 | ref | NC\_006483.2 | N GGCTCATCTCGAAC

TCCTGACCTCAGGTGATCTGCCTGCCTCTGCCTTCC 70929

gi | 73957561 | ref | NW\_876316.1 | Cf -----CCTCGTAT

CCCTCTGCAAATG----- 42330

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gi | 194719394 | ref | NC\_007316.3 | N GTAGGTCTTCGTAT

AACCATGCAATTCCAATTCTTTAGCACTAGTTTTTTG 53247

gi | 149361523 | ref | NC\_000074.5 | \_ -----CCTCGTAA  
TCTAAAGTAAATG----- 40818

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAGTG---CTGGG  
ATTACAGGTGTGAGCCACTG--CGCCTGGCTGAGAC 64299

gi | 114795057 | ref | NC\_006483.2 | N AAAGTG---CTGGG  
ATTACAGGTGTGAGCCACTG--CGCCTGGCTGAGAC 70974

gi | 73957561 | ref | NW\_876316.1 | Cf -----TTTGC  
TTAGCTAGTCTTGTTCAGCGGGTGCCATAAAACCAAG 42371

gi | 194719394 | ref | NC\_007316.3 | N GGGCATAGACTTGC  
ATTACTGTGATGTTGAATGGTTTGGTGGAAATGA 53297

gi | 149361523 | ref | NC\_000074.5 | \_ -----TTTGC  
TTAGCTGGTCTATCCAGCCAGGCTATAAAACCAA 40859

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATATT--TCTAA  
CAAGCTCTCAAGGGTGCTAACACAGGTGGTCCAGG- 64346

gi | 114795057 | ref | NC\_006483.2 | N TCATATT--TCTAA  
CAAGCTCTCAAGGGTGCTAACACAGGTGATCCAGG- 71021

gi | 73957561 | ref | NW\_876316.1 | Cf GAAGCCT--TCTTG  
CTGTCACCATAG-AACT----- 42400

gi | 194719394 | ref | NC\_007316.3 | N ACCAAAG--TCTTT  
CTGTCATTTTTTG-AGATTGCCACTCGTGTACTGCAT 53344

gi | 149361523 | ref | NC\_000074.5 | \_ GGAAACTGGCTTTA  
CCGTCACCATGG-AACTGACCCACTCCT----- 40901

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gi | 51473102 | ref | NT\_010498.15 | \_ ---GAGCACCTCT  
GAGCGTGAGGCTGTGATTCGACACTGTCCCCTGAGA 64393

gi | 114795057 | ref | NC\_006483.2 | N ---GAGCACCTCT  
GAGCGTGAGGCTGTGATTCGACACTGTCCCCGAGA 71068

gi | 73957561 | ref | NW\_876316.1 | Cf ---GGGCACAGTC-  
----- 42410

gi | 194719394 | ref | NC\_007316.3 | N TTTGGACTCTTTTCG  
TTGACTATGAGGGCTACTCCATGTCTACTAAGGGAT 53394

gi | 149361523 | ref | NC\_000074.5 | \_ --CAGCCAAATTCA  
G-----TAATCCTGGTTTA 40927

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gi | 51473102 | ref | NT\_010498.15 | \_ GCGGGCTCCAGCAA  
GAACAGGACCAGGAAAGAG--GCCAAGACACCCGAA 64441  
gi | 114795057 | ref | NC\_006483.2 | N GCGGGCTCCAGCAA  
GAACAGGACCAGGAAAGAG--GCCAAGACACCTGAA 71116  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTGGCCAAATCC  
AGTAATCTCATTGTTTCCAGGGAAAAGGCCACCATC 42460  
gi | 194719394 | ref | NC\_007316.3 | N TCTTGCCCACAGTA  
GTAGATGTAATGGTCATCTGAATTAATTTGCCATT 53444  
gi | 149361523 | ref | NC\_000074.5 | \_ TATAACTTGTCTCT  
GAATGGTTCATTGTCTCCGGGTGAAAGGTCACTATT 40977

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCATTCTCAGGT  
GACTGAGCCTTTGGAGGCAGGGGTGGCGGCAGGGAG 64491  
gi | 114795057 | ref | NC\_006483.2 | N CAGCATTCTCAGGT  
GACTGAGCCTTTGGAGGCAGGGGTGGCGGCAGGGAG 71166  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTGTACCACATAT  
CTTTGATTCTAAGATG----- 42490  
gi | 194719394 | ref | NC\_007316.3 | N CTTGTCCATTCGGT  
CACTGATTCTTAAAATGTTGATGT----- 53482  
gi | 149361523 | ref | NC\_000074.5 | \_ CATATTCTCTCTCT  
TTTTGTTTTGCTTTGTG----- 41008

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGACATTTGAGC  
CTCAAGGAGGCTGCCAGAGAACACAGGACTCTCAGA 64541  
gi | 114795057 | ref | NC\_006483.2 | N GGAGACATTTGAGC  
CTCAAGGAGGCTGCCAGAGAACACAGGACTCTCAGA 71216  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N ----TCACTCTTGC  
CATCTCTTGTGTTGACCACTTCCAAAGGTGATATGTG 53528  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGACAGAATGCTTA

AAATCTTCCCAAGTAGGCTGGGCACAGTGGCTCAC 64591  
gi | 114795057 | ref | NC\_006483.2 | N AGACAGAATGCTTA  
AAAACCTTCCCAAGTAGGCCGGGCACAGTGGCTCAC 71266  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TAG  
TTTCTTTTCACACTTTAACTTCTCTGAGG-----TC 42524  
gi | 194719394 | ref | NC\_007316.3 | N GGAAATTATTTTAA  
TATTTATTAAATATTTAATGTTGGTGAGA-----AA 53573  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTTTTTTTT  
AAGACCAGGGTCTGATGATATAGCTCAGG-----CC 41047

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTGTAATCCTAG  
CACTTTGGGAGGCTGAGGCAAGAGGATCCCTTGAGC 64641  
gi | 114795057 | ref | NC\_006483.2 | N ACCTGTAATCCTAG  
CACTTTGGGAGGCTGAGGCAAGAGGATCCCTTGAGC 71316  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGCTGCTTCTTA-  
-----TAAATGATG-AGATAAGAAAGCAC 42560  
gi | 194719394 | ref | NC\_007316.3 | N AAATTTATACTTAG  
TACATCAAACCCATGATGTAA-ACAAACTTAGATGC 53622  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCCTCACACTCA-  
-----TGGTGATTCTCCTGTCTCTGCCT 41083

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGGAGTTTGAGA  
CCAGCCTAGACAACATAGTGAGACTGTCTGTACAAA 64691  
gi | 114795057 | ref | NC\_006483.2 | N CCAGGAGTTTGAGA  
CCAGCTTAGACAACATAGTGAGACTGTCTGTACAAA 71366  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGGTGGTTAATG-  
-----AACTGGCAGTATTTTTTTTTTTCT-- 42596  
gi | 194719394 | ref | NC\_007316.3 | N CCATCAATTAATGG  
ACAGATAA-GCAACATGCAGTGTATTATTATTCAGC 53671  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGAATGCTGGG-  
-----ATTGCAGGTGTGAGCCATCTCATC 41120

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gi | 51473102 | ref | NT\_010498.15 | \_ AACAAATGTTTTGT  
TATTAGCCAGGTATGGTGGTGCACGCTTGTAGCCCC 64741  
gi | 114795057 | ref | NC\_006483.2 | N AACAAATGTTTTGT  
TATTAGCCAGGTATGGTGGTGCACGCTTGTAGCCCC 71416

gi | 73957561 | ref | NW\_876316.1 | Cf -----T  
AGTGGTACACAGATAATGG-----TGCCCT 42622  
gi | 194719394 | ref | NC\_007316.3 | N CACAAAA----AAG  
AGTGAAGCACTGCATTTGATACAGGGTGGTTGCCAT 53717  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCACACTG-TCAA  
GGTGGAGGAAGTAAGATCAAG-----GTTATCTT 41162

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTACTTGGGAGG  
CTGAGGCGGGAGGATTGCTTGAGCCTGGGAAGTCAA 64791  
gi | 114795057 | ref | NC\_006483.2 | N AGCTACTTGGGAGG  
CTGAGGCGGGAGGATTGCTTGAGCCTGGGAAGTCAA 71466  
gi | 73957561 | ref | NW\_876316.1 | Cf T-----  
----- 42623  
gi | 194719394 | ref | NC\_007316.3 | N AGAAACATGCGGCT  
AAGAGGAGGGCGAATG-----TATGGTGTGTGCT 53760  
gi | 149361523 | ref | NC\_000074.5 | \_ TAG-----  
----- 41165  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTTTCAGTGAGCC  
ATGATCTTGCCACTGCACTCCAACCTGGGCAACACA 64841  
gi | 114795057 | ref | NC\_006483.2 | N GGTTTCAGTGAGCC  
ATGATCTTGCCACTGCACTCCAACCTGGGCAACACA 71516  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CACCATCAGCTATG-----TCTTA 42642  
gi | 194719394 | ref | NC\_007316.3 | N GTCGTGTCTGACTC  
TTTGTGACCCCCATGGACTGTAGCCT-----GCCAG 53805  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGCACAGTGAG-----TTCAAG 41183

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAAGACCCTATCT  
TAAAAAACAAAAACAAAAGAAAACCAAAAACCAA 64891  
gi | 114795057 | ref | NC\_006483.2 | N GCGAGACCCTATCT  
TAAAAAACAAAAACAAA-CAAAACAAACAAACGAA 71565  
gi | 73957561 | ref | NW\_876316.1 | Cf GATTTGATGAAATA  
GGATTGCCACGGGTGACTCTGGTGTGTG-----C 42686  
gi | 194719394 | ref | NC\_007316.3 | N GCTCTTCTGTCCTT

GGGATTTCTCATGCTAGAATACTGGAGTGGGTTACC 53855  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTAGCCTGAGCTA  
CATGAGACACTGTCTTATAAAAAACAAATATAGTC 41233

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATCTCCTGCAG  
ATCATGAGTTCAGGAGTTTGAGACCAGCCTGGCCAA 64941

gi | 114795057 | ref | NC\_006483.2 | N AAAACCTCCTGCAG  
ATCATGAGGTCAGGAGTTTGAGACCAGCCTGGCCAA 71615

gi | 73957561 | ref | NW\_876316.1 | Cf GCTTCCTCAG----  
-----CCGGGCTTTCT-----GAT 42710

gi | 194719394 | ref | NC\_007316.3 | N ATTCCTCTT----  
-----CCAGGGGATCTTCCCAACCCAGGGAT 53891

gi | 149361523 | ref | NC\_000074.5 | \_ ATTGTATTAA----  
-----A 41244

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gi | 51473102 | ref | NT\_010498.15 | \_ AACAGTGAAACCTC  
GTCTCTACTAAAAATACAAAAATTAGCCGGGCATGG 64991

gi | 114795057 | ref | NC\_006483.2 | N AACAGTGAAACCTC  
GTCTCTACTAAAAATACAAAAATTAGCCGGGCATGG 71665

gi | 73957561 | ref | NW\_876316.1 | Cf GATGCACCAG----  
-----GCTG-----CG 42726

gi | 194719394 | ref | NC\_007316.3 | N GGAACACCCGTCTC  
CTCACTGGCAGGCAGATACGTTAGTACTGATCCACC 53941

gi | 149361523 | ref | NC\_000074.5 | \_ GCAACACCTGG---  
----- 41255

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCGTATGCCTGT  
AGTCCCAGCTACTCAGGGGCTGAGGCAGGAGAATCT 65041

gi | 114795057 | ref | NC\_006483.2 | N TGGCGTACGCCTGT  
AGTCCCAGCTACTCAGGGGCTGAGGCAGGAGAATCT 71715

gi | 73957561 | ref | NW\_876316.1 | Cf TAGG--ATGCTGGC  
TG TG-----CGCTGGGCATTGCAG----CAAC 42761

gi | 194719394 | ref | NC\_007316.3 | N TGGG--AAGCCCGA  
AGAGGAGGAAGCCAGACTCAAATGGCCG----CATA 53985

gi | 149361523 | ref | NC\_000074.5 | \_ -----CCTTCAGT  
TTCATAGGAAGGACAGTGGATCTGGCAA----AACA 41295

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gi | 51473102 | ref | NT_010498.15 | _          CTTGAACCCGGGAG
GTGGAGGTTGTGGCGAGCCGAGATCGCACCCTGCA 65091
gi | 114795057 | ref | NC_006483.2 | N          CTTGAACCCAGGAG
GTGGAGGTTGTGGCGAGCTGAGATCGCACCCTGCA 71765
gi | 73957561 | ref | NW_876316.1 | Cf          CTGGCACAAG----
-----AAAACCCAGTTCAG-- 42786
gi | 194719394 | ref | NC_007316.3 | N          CTATGACTTTGTTT
TT----ATGAAGTGAAGTGAATACTGAATACTGGA 54030
gi | 149361523 | ref | NC_000074.5 | _          CTTGTCCCAG----
-----ATCTCTG-- 41312
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gi | 51473102 | ref | NT_010498.15 | _          CTCCAGCCTAGGGA
ACAGAGCAAGACTCCGTCTCAAAAACAAAACAAAAC 65141
gi | 114795057 | ref | NC_006483.2 | N          C-----TAGGGA
ACAAAGCAAGACTCCATCTCAAAAACAAAACAAA-C 71807
gi | 73957561 | ref | NW_876316.1 | Cf          -----AGGAAA
GAGAAACCCCTCACCATTAATTCT--AAGGCTAATG 42826
gi | 194719394 | ref | NC_007316.3 | N          G-----TGGGTA
GACTTTCCCTTCTCCAGGGGATCTTCCTGACCCAGG 54073
gi | 149361523 | ref | NC_000074.5 | _          -----
--AGTGACAGTTTGGCTTTGGTCAGGCCTGGCCTGGG 41346

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gi | 51473102 | ref | NT_010498.15 | _          AAACAACAACAACA
AAACACACACACA--CACACACACACCCTCCTGCCA 65189
gi | 114795057 | ref | NC_006483.2 | N          AACACAACAACAAC
ACACACACACACA--CACACACACACCCTTCTGCAA 71855
gi | 73957561 | ref | NW_876316.1 | Cf          AACACCCAGG---
-----CTGAAC 42843
gi | 194719394 | ref | NC_007316.3 | N          AATCGAAGTGGGGT
CTCCTGCATTGCAGGCAGATTCTTTACCAACTGAGC 54123
gi | 149361523 | ref | NC_000074.5 | _          GCCCAATACT---
-----CAGCAT 41363

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gi | 51473102 | ref | NT\_010498.15 | \_ ATAATGGTGCATCC  
AATCCCTGTCTTATAAGCCATGAGAAGCTTCATGAG 65239  
gi | 114795057 | ref | NC\_006483.2 | N ATAATGGTGCATCC  
AATCCCTGTCTTATAAGCCATGAGAAGCTTCATGAG 71905  
gi | 73957561 | ref | NW\_876316.1 | Cf CACCA-----CCC  
AG-----TCAATCCCATTACAA 42869  
gi | 194719394 | ref | NC\_007316.3 | N TACCAGGGAAGCCC  
AAGAATAATAGAGTGAATAGTCTATCCCTTCTCCAG 54173  
gi | 149361523 | ref | NC\_000074.5 | \_ GACTTGGCTGACCC  
CT-----CCTCTTATCTTGTGTGTG 41397

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAAGAAAGACGAT  
TAAATATTTCCAGAAGAAAAAGCAAAAAGGCTTCT 65289  
gi | 114795057 | ref | NC\_006483.2 | N GCAAGAAAGACGAT  
TAAATATTTCCAGAAGAAAAAGTAAAAAGGCTTCT 71955  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-GATTTCAACCAGCTCTAG-----GCT 42890  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-CAGATCTTCCCGACCCAAGAATTGAACCGGGTCT 54208  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---GTTTCTCAGGTAACAG-----AGATTTCC 41421

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCTCAAGCCCCA  
AATACCCCAATTCTCTCCCCACCCAGTGCTATGGTC 65339  
gi | 114795057 | ref | NC\_006483.2 | N GCGCTCAATCCCCA  
AATACCCCAATTCTCTCCCCACCCA-----TGGTC 71999  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTGCAGG-----  
-----CATCCCTCCTTTCAT----- 42913  
gi | 194719394 | ref | NC\_007316.3 | N CCTGCATTGCAAAT  
GGATTCTTTACCAACTGAACTATCAG----- 54248  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCTCATG-----  
-----TCCACAACCAGGTAG----- 41445

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTTCCGGTTTCTT  
GTCCTAACCTCCCTTGCAGCACGGGCATCCCGCTTG 65389  
gi | 114795057 | ref | NC\_006483.2 | N ACTTCCGGTTTCTT

GTCCTAACTTCCCTTGCAGCACGGGCATCCCGCTTA 72049  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GGGG-----  
-----CTTTGTAG--ATCCTGCCTT 42935  
gi | 194719394 | ref | NC\_007316.3 | N -----GGAAGCCAT  
TTGTTTTTATGAAATGCCCAAAG--AGGCAAATTC 54291  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCCTTTCTA 41455

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCCATGCGAGTGG  
ACTTGCACGTGGGAGACACTTTCCCCCTCTCATTTG 65439  
gi | 114795057 | ref | NC\_006483.2 | N ATCCATGCAAGTGG  
ACTTGCACGTGGGAGACACTTTCCCCCTCTCATCTG 72099  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTCACAAAG-----  
-----TGAAAGGCACT--CCTGTGTTGAACAA 42970  
gi | 194719394 | ref | NC\_007316.3 | N ATACAGACAG-----  
-----AAAAGTGCCTGCCAGGAGATGAGCTC 54328  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAATTACTG-----  
-----TGAGCAGCCCCCTCTAATGAAAATACT 41492

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATTTTGAAGGG  
CGAGGTTTTTCAGTTTTAGTGCCAGATTAAAGCCGC 65489  
gi | 114795057 | ref | NC\_006483.2 | N TGATTTTGAAGGG  
TGAGGTTTTTCAGTTTTAATGCCAGATTAAAGCTGC 72149  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
TCAACCAGGGCCATTTTT----- 42989  
gi | 194719394 | ref | NC\_007316.3 | N AGGAAAT--AAGGA  
GGGACCACAGCAGTTATGGGGATTCTTTAGAGGGTG 54376  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
--AGAGTTCACCTGTGGTT----- 41510

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAAAGCCACTGAG  
TCAGAAGGTGGAGATGGCAGCTTAGCCAGCGGAGAT 65539  
gi | 114795057 | ref | NC\_006483.2 | N TGAAAGCCACTGAA  
TCAGAAGGTGGAGATGGCAGCTTAGCCAGCGGAGAT 72199  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCAA  
TAGCATTG--TCATTTACATCCCCGTGCCCC 43026

gi | 194719394 | ref | NC\_007316.3 | N ATTAAGAGGTTCTGA  
TATGACTGAG----TGACTTCACTTTCAC TTTTCAC 54422  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACAA  
ATTGAATATCTCCACCCCTACACTAGAGCTAAAGGA 41550

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCCAAAATAAGT  
AAAATGAGAGAATCATT TTT TTT TAAACTTTAAGAAC 65589  
gi | 114795057 | ref | NC\_006483.2 | N TTTCCAAAATAAGT  
AAAATGAGAGAATCATT TTT TTT TAAACTTTAAGAAC 72249  
gi | 73957561 | ref | NW\_876316.1 | Cf ATT-----TTGGT  
AATTG-----CAATATCTGAACTTTTCATTA 43061  
gi | 194719394 | ref | NC\_007316.3 | N TTTCATGCATTGGA  
GAAGG-----CAATGGCAACCCACTCCAGTGT 54463  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGGGGGGTTGGAT  
AGTGG-----GTGTGGCAGCCTCTCTCAG-GA 41590

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTTAAAACGAA  
TTCCTGGGTCGGGCACGGTGGCTCATGCCTGTAACC 65639  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTTAAAACGAA  
TTCCTGGGCCGGGCACGGTGGCTCATGCCTGTAACC 72299  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTTTTATGTTGAT  
---CAG---TGAGTGATACAG---TGTACTGAAAGC 43102  
gi | 194719394 | ref | NC\_007316.3 | N TCTTGCCTGGAGAA  
TCCCAGGGACGGGGGAGCCTGG--TGGGCTGCTGTC 54511  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTCAGCTTGGGAG  
TCACAGTGCTGGGGGCAGTGGGACAGTAATAATGAG 41640

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGCACTTTGGGA  
GGCCGAGGCGCGTGGATCATGAGGTCAAGAGATAGA 65689  
gi | 114795057 | ref | NC\_006483.2 | N CCAGCACTTTGGGA  
GGCCGAGGCGGGTGGATCATGAGGTCAAGAGATAGA 72349  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAG-----  
-----ATGATTGTTAGCATT TTT TTT T 43126  
gi | 194719394 | ref | NC\_007316.3 | N TCTGGGGTTCGCACA  
GAGTCGGACACGACTGAAGCGACTTAGCAGCAGCAG 54561  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGAG-----

-----CAGACATAAGATCTACTCTGTGT 41668

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gi | 51473102 | ref | NT\_010498.15 | \_ GATCATCCCGGCC  
ACATTGTGAAACCCCGTCTCTACTAAAAATACAAA 65739

gi | 114795057 | ref | NC\_006483.2 | N GATCATCCTGGCCA  
ACATTGTGAAACCCCGTCTCTACTAAAAATACAAA 72399

gi | 73957561 | ref | NW\_876316.1 | Cf TAGCAACAAAGTAT  
TTTTAAG----- 43147

gi | 194719394 | ref | NC\_007316.3 | N CAGCAGCAAGAGGT  
TCTAAAAGTGATTATGATGATGGTTATACAACCTCTG 54611

gi | 149361523 | ref | NC\_000074.5 | \_ AAGTGTGTACGAGC  
TGAGATGG----- 41690

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTAGCCAGGTGTG  
GTGGTGGGCGCCTGTAGTCCAGCTACTCGGGAGGC 65789

gi | 114795057 | ref | NC\_006483.2 | N ATTAGCCAGGTGTG  
GTGGTGGGCGCCTGTAGTCCAGCTACTCGGGAGGC 72449

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTAAACTGTATACTTTT-----T 43165

gi | 194719394 | ref | NC\_007316.3 | N AATATACTAAAAAC  
----CATGGATTGTATACTTTAGAAAGGGCGAGTTT 54657

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGGCCCCCTCTGCTTTG-----GTTT 41712

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGGGAGGAGAAT  
CACTTGAACCCTGGAGGCGGAGGTTGCGGTGAGCCG 65839

gi | 114795057 | ref | NC\_006483.2 | N TGAGGGAGGAGAAT  
CACTTGAACCCTGGAGGCGGAGGTTGTAGTGAGCCG 72499

gi | 73957561 | ref | NW\_876316.1 | Cf TTTTTTTTAGACCT  
GATGCTATTGCATATTGAATAGACTACAG----- 43208

gi | 194719394 | ref | NC\_007316.3 | N TATGATATGTGAAT  
TACATCTTAACAAAGAAAACAGAAAGCAGGTAATTA 54707

gi | 149361523 | ref | NC\_000074.5 | \_ CTTTGGTAGCCACA  
GGAAAATGGTAAACTACTAAATTAGCCAG----- 41756

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gi | 51473102 | ref | NT\_010498.15 | \_ AGATTGCACCGCTG  
CACTCCAGCCTGGTGACAGAGCAAGACTCCATCTCA 65889  
gi | 114795057 | ref | NC\_006483.2 | N AGAATGCACCGCTG  
CACTCCAGCCTGGCGACAGAGCAAGACTCCATCTCA 72549  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTAACAACCTTTT  
ATGTG--CACTGGGAACCG----- 43239  
gi | 194719394 | ref | NC\_007316.3 | N AGAAAGCTGTTATT  
ACAAGGATCCTTGGAGCCTGTCTAATGTATACAAA 54757  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCCACTGGAATT  
CAAGGGACACAGAGAAAAG----- 41789

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAACAAAAACA  
AACAAACAAAAAATTCCTATATGTTAAGTGACAT 65939  
gi | 114795057 | ref | NC\_006483.2 | N AAAAACAAAAACA  
AACAAACAAAAAATTCCTATATGTTAAGTGACAT 72599  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--ATAGGTTCAATTTG--ACTGGGTTTATTGTGACGG 43271  
gi | 194719394 | ref | NC\_007316.3 | N AAGGAAACTGTTTG  
CAAACAGCTGAGTTGGAAGTCCATTATAGTAAATG 54807  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
TCTGTGCACCAAAGCCACCGCCTTCACTG----- 41819

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAGATGATACAA  
GGCACTTGCTTTTCTGGTCCATTCTAATCAATTTT 65989  
gi | 114795057 | ref | NC\_006483.2 | N TCAAGATGATACNN  
NN 72649  
gi | 73957561 | ref | NW\_876316.1 | Cf TCG-----  
----- 43274  
gi | 194719394 | ref | NC\_007316.3 | N ACAGTGAGGCACTC  
CCAGGGGA----- 54829  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TG-----  
----- 65991



TAT-----CTGTTTGTCCCGCAAATATTTG-CTGA 43367  
gi|194719394|ref|NC\_007316.3|N AATGCACACATCTC  
TGG-----TACTTAGTCAAGTCCATCCGTGTATAA 54949  
gi|149361523|ref|NC\_000074.5|\_ AATGCTAAAAGATG  
CAG-----CAGGCATCAATTCACACTAAC 41908  
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gi|51473102|ref|NT\_010498.15|\_ GTAGCTGGGACTAC  
AGGTGCTCGCTACCACACCCGGCTAATTTTTGTATT 66169  
gi|114795057|ref|NC\_006483.2|N GTAGCTGGGACTAC  
AGGTACTCGCTACCACACCCGGCTAATTTTTGTATT 72899  
gi|73957561|ref|NW\_876316.1|Cf ATGTCTG-----  
----TAGGGCTTTGCTGG-----ATGTCC 43394  
gi|194719394|ref|NC\_007316.3|N ATGAATG-----  
----GATGGCATTACCTGGCAGTTAGCAGTAGGACG 54988  
gi|149361523|ref|NC\_000074.5|\_ ATGACTG-----  
-----GAGAGTCACAGTTTACCAAGGATGTGGTCA 41945  
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gi|51473102|ref|NT\_010498.15|\_ TTGGTAGAGACGGG  
GTTTCAACACGTTGGCCAGGCTAGTCTCAAACCCCT 66219  
gi|114795057|ref|NC\_006483.2|N TTGGTAGAGACGGG  
GTTTCAACATGTTGGCCAGGCTAGTCTCAAACCCCT 72949  
gi|73957561|ref|NW\_876316.1|Cf TGGTGCAG-----  
-----AG 43404  
gi|194719394|ref|NC\_007316.3|N AGATTCAGGTATGG  
GTCTTTTAAACATTCCAAATGCCTCTTTTAAATCAT 55038  
gi|149361523|ref|NC\_000074.5|\_ GGCAGAAATAGTG  
-----AA 41961  
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gi|51473102|ref|NT\_010498.15|\_ GACCTCAAGTGTTTC  
CATCCGTTTCTGCGTTTCAAAGTGCTGGGAATGCAG 66269  
gi|114795057|ref|NC\_006483.2|N GACCTCAAGTGATC  
CATCCGCTTCTGCGTTTCAAAGTGCTGGGAATGCAG 72999  
gi|73957561|ref|NW\_876316.1|Cf GGTGAGCTGCGG--  
---AGGGGTGTGGCTGGCAACGCTTACCCCTAG--- 43446  
gi|194719394|ref|NC\_007316.3|N GGGGCACTGTGTGC  
ATTGAGAGGCAGGCGGGCAAAGTCCACCTGTGGGCA 55088

gi | 149361523 | ref | NC\_000074.5 | \_ GGAGACCAGTGCAT  
CGTGGGATTAGAAATTGAATAGAGGGCTGGCGAGAT 42011

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTGAGCCACCAC  
ACCCGGCCCATTCTAATCTTTATTAGTCTGTGGATT 66319

gi | 114795057 | ref | NC\_006483.2 | N GTGTGAGCCACCAC  
AGCCGGCCCATTCTAATCTTTATTAGTTTGTGGATT 73049

gi | 73957561 | ref | NW\_876316.1 | Cf -----CTCTG  
CACAGAGGCACCCTCT----- 43467

gi | 194719394 | ref | NC\_007316.3 | N GGTATGTGTCCTAT  
TACAGAAGTATTCAATGACTATTTTTTTTATTTTTTG 55138

gi | 149361523 | ref | NC\_000074.5 | \_ GGCTCAGTGGTTAA  
GAGCACTGACTTCTCT----- 42041

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gi | 51473102 | ref | NT\_010498.15 | \_ AATTCTTTATTATT  
ATGAATTCATCCAAGTAATAACAAAGATGCCCTTCCC 66369

gi | 114795057 | ref | NC\_006483.2 | N AATTCTTTATTATT  
ATGAATTCATCCAAGTAATAACAAAGATGCCCTTCCC 73099

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTAGT 43472

gi | 194719394 | ref | NC\_007316.3 | N AGGGTTTTTTTCTT  
AAGGGTTTTTTTTTTTAAAGTACTTATTTATTTGG 55188

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCCAG 42046

gi | 51473102 | ref | NT\_010498.15 | \_ CTGCCATATGGGAT  
GAAAGTCCCCGTCGTAACCCTCCACAAATGTTTGCT 66419

gi | 114795057 | ref | NC\_006483.2 | N CTGCCATATGGGAT  
GAAAGTCCCCGTCGTAACCCTCCACAAATGTTTGCT 73149

gi | 73957561 | ref | NW\_876316.1 | Cf CTGCCCCAAA---  
-----CTCTTCAGCCTCCCCT-----ATGGGCCCA 43508

gi | 194719394 | ref | NC\_007316.3 | N CTGCGCTGGGG---  
-----CTGGGTTGCAGCATGTGGGATCTAGGTCCC 55229

gi | 149361523 | ref | NC\_000074.5 | \_ AGGTCCTGAGT---  
-----TCAAAATCCCTGCAACCACATGGTGGCTCAC 42088

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCTGGTCTTCAC  
AGCCTGTGCCATAAAACCAACGAAGCCTTCTGGCTG 66469  
gi | 114795057 | ref | NC\_006483.2 | N TAGCTGGTCTTCAC  
AGCCTGTGCCATAAAACCAACGAAGCCTTCTGGCTG 73199  
gi | 73957561 | ref | NW\_876316.1 | Cf AAGCCAGCAGGAAG  
CCCCA---CACTAACTTTTGC--CTCATCCACACCT 43553  
gi | 194719394 | ref | NC\_007316.3 | N TGACCGGGGATAGA  
ACCCTGTTCCCTTGCCTGGG--AGCATGGAGTCTT 55277  
gi | 149361523 | ref | NC\_000074.5 | \_ AACCATCTGTAATG  
AATCTGACACCCTCTTCTGGTG-CGTCTGAAGACAG 42137

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACTGTAGAAACC  
GGGCACAGCCCCTTGATCAGATTCTGTAATCTTGGT 66519  
gi | 114795057 | ref | NC\_006483.2 | N TCACTGTAGAAACC  
GGGCACAGCCCCTTGATCAAATTCTGTAATCTTGGT 73249  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTCAAGACTGTGG  
-----AATGGGGAATCAATCA 43583  
gi | 194719394 | ref | NC\_007316.3 | N GCTCTGGACCACCA  
GGGAATC-----CCCCAAGGTGTTCTTTTGAA 55318  
gi | 149361523 | ref | NC\_000074.5 | \_ CTACAGTGTACTTA  
TG-----TATAATAATAAATACATCTT 42173

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gi | 51473102 | ref | NT\_010498.15 | \_ TTATATAACTTGTC  
CATGCCTGTTGTATTGTCCCTGGGTGAAAGGTCACC 66569  
gi | 114795057 | ref | NC\_006483.2 | N TTATATAACTTGTC  
TGTGCCTGTTCTGTTGTCCCTGGGTGAAAGGTCACC 73299  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCATAATGTTCTG  
GAACCAAATTTGATG-----CAGAAAGAGCCCCT 43626  
gi | 194719394 | ref | NC\_007316.3 | N TAGACAAAGTCATG  
ATCTCAAGTTGAATAGAGTGGCCTGACTTTGTCTCC 55368  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTACAAAGAAAAG  
AAAAAAG--AAATTGAATAGAATAAAATGTTTCACC 42221

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTCACAACCATTC

TATTCAAACCTGCCTGTTTTGTAATTGGAATTTGTTG 66619  
gi | 114795057 | ref | NC\_006483.2 | N ATTCAACAACCATTC  
TATTCAAACCTGCCTGTTTTGTAATTGGAATTTTTTTG 73349  
gi | 73957561 | ref | NW\_876316.1 | Cf T-----C  
TTAACATCCCCT-----CACATGTTGACACACTGC 43658  
gi | 194719394 | ref | NC\_007316.3 | N TG-----AGC  
TATGTGTGCCCTGAATGGAATAAAGGAAAACAGAAC 55409  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----  
-----GGACAAAGACTAGCTTCGCTAGATGAAATCC 42254  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAACATTTAATGT  
ACCATATTTCTTTGATTGTGAGATGTACATTCTTTT 66669  
gi | 114795057 | ref | NC\_006483.2 | N CCAACATTTAATGT  
ACCATATTTCTTTGATTGTGAGATGTACATTCTTTT 73399  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAGG-----  
-----GGGAAGGGATCCACATGCTTTA 43685  
gi | 194719394 | ref | NC\_007316.3 | N CCAGAGCTTTCGAT  
GGCCGTTTTTCCTTGGGTCGGTATCTGAATGTTGGT 55459  
gi | 149361523 | ref | NC\_000074.5 | \_ CCACCAGCGCCACT  
GATATTCATATCACCCCTTTGGTGTGTTAAGTCTGGT 42304  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCACATTTCAACTC  
CTCTGAAATCAGATCACTTCTAATAAGTGATGTAAT 66719  
gi | 114795057 | ref | NC\_006483.2 | N TCACATTTCAACTC  
CTCTGAAATCAGATCACTTCTAATAAGTGATGTAAT 73449  
gi | 73957561 | ref | NW\_876316.1 | Cf TCACAA-----  
-----TTCAGTCTCCAGAG----- 43705  
gi | 194719394 | ref | NC\_007316.3 | N AACTAGGTGAGTC  
GGTT-----CTAGAATCTTCAGGAAAGTGAA----- 55499  
gi | 149361523 | ref | NC\_000074.5 | \_ TCGACTT-----  
-----TTCTACCCAGCCTG----- 42325  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAGAAAACATGGTG  
TACTGATTAATTGGCAGTGTTTATTCTTTTCTGAG 66769  
gi | 114795057 | ref | NC\_006483.2 | N TAGAAAGCATGGTG  
TACTGATTAATTGGCAGTGTTTATTCTTTTCTGAG 73499

gi | 73957561 | ref | NW\_876316.1 | Cf -----AGAG  
AAGCCCATTAGTTCAG-----CTGGAG 43731  
gi | 194719394 | ref | NC\_007316.3 | N -----GGTG  
GCGCAGCCAGGGTCGAGGAGGGGTGGGGCTCTGGAG 55539  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCGG  
TGGCAGCCATTCCAGAGG-----GGCTG 42352

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTGCCCAAATA  
ATGGTGCCCTTCACAATCAACTGTCTTAGCTCTGAT 66819  
gi | 114795057 | ref | NC\_006483.2 | N CTCTGCCCAAATA  
ATGGTGCCCTTCACAATCAACTGTCTTAGCTCTGAT 73549  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAGATGTTCTCTT  
-----CTAATCCAATCAGCCAT---GGCT----- 43766  
gi | 194719394 | ref | NC\_007316.3 | N GGACACGTGGCCCT  
GTGCATCATGGACCACTCTGCCGGGCAGGCTGGTCT 55589  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCATCGTTGTCAT  
GGTGACACTGGTCCTGGGGGTGCTGCGGATGGCGAA 42402

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAATGTGGTCTCT  
CTGTGTGATCCTGGTTGAATGGATTCTCACCAGGTG 66869  
gi | 114795057 | ref | NC\_006483.2 | N GAAATGTGG--TCT  
CTGTGTGATCCTGGTTGAATGGATTCTCACCAGGTG 73597  
gi | 73957561 | ref | NW\_876316.1 | Cf ----TTGGGA----  
--GAGTAG-----AG 43780  
gi | 194719394 | ref | NC\_007316.3 | N CCTGATGGGG----  
--AAGCTGGAGCTTAGGCCAGCACACTTGCCAC-AG 55632  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGCGGGTCATCG  
TGAAGAAG----- 42424

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCAGCCAACCCAG  
GTGGAGTGCTCACTGTGTGCTAGGCCAGCGCAGGCC 66919  
gi | 114795057 | ref | NC\_006483.2 | N TTCAGCCAACCCAG  
GTGGAGTGCTCACTGTGTGCTAGGCCAGCGCAGGCC 73647  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCATGGTACGCA  
AGGAGTTGGAGGGGGGCTCCTGGG---TAGCTCAAT 43827  
gi | 194719394 | ref | NC\_007316.3 | N TTACAGGATTCCGG

GAGCGGAGGAGACAGACTGCCAACGCCGTGCATTCT 55682  
gi | 149361523 | ref | NC\_000074.5 | \_ -CTGCCCATTTGTAG  
AGACTCTTGGTGAGGGCTCTCCCTCCCATGCAGACT 42473

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAGCATTGTTATA  
CCCCCTTCTTCATGCAGCAAATATTTACTGTATACC 66969  
gi | 114795057 | ref | NC\_006483.2 | N TAAGCATTGTTACA  
CTCACTTCTTCATGCAGCAAATATTTACTGTATACC 73697  
gi | 73957561 | ref | NW\_876316.1 | Cf GATTAAGTG-----  
-----TCTGCCTTCGG-----CTCAGGACATGA 43859  
gi | 194719394 | ref | NC\_007316.3 | N GCTCCAAAG-----  
-----CCAGGGTCCCGGTCAGTGCTCCGGCCACCA 55721  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGTCAGGG-----  
-----AGGCGGTGTGGGGTTGGACTGTATGAA 42509

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTTGCTTTGCTG  
GATTTTCTAATGCAGAGGATAAAAACAGCCACCTGG 67019  
gi | 114795057 | ref | NC\_006483.2 | N TCCTTGCTTTGCTG  
GATTTTCTAATGCAGAGGATAAAAAGAGCCACCTGG 73747  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTG-----  
-----GGATCAAGTCCTGCATTGGG 43884  
gi | 194719394 | ref | NC\_007316.3 | N CCCGGGC-----  
-----AGGACAGGGACTCTCCCCCTG 55749  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCGGG-----  
-----GCTTAAAGCATGTATGTCAC 42535

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAAGCTTGG---A  
GGCTCATGCCTGTAATCCCAGCACTTGGGAATGCTG 67066  
gi | 114795057 | ref | NC\_006483.2 | N CCAAGCTTGG---A  
GGCTCATGCCTGTAATCCCAGCACTTGGGAATGCTG 73794  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCCCCGTG-----  
-GCATCTG-----TTTCTTCCTCTG----- 43912  
gi | 194719394 | ref | NC\_007316.3 | N CTGCCTGTGGTCCT  
GGCAGTTGGCTTGTTTACTTGCCTCCGTACGTGTTTG 55799  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAGACCTGGTGAC  
AGCTCATCTCTCTAAACCTGTCTCTTTGG----- 42578

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gi | 51473102 | ref | NT_010498.15 | _           AGGAGGGAGGATCA
CTTGAGCCCAGAAGTTCAAGACCAGCCTGGGTAACA 67116
gi | 114795057 | ref | NC_006483.2 | N           AGGGGGGAGGATCA
CTTGAGCCCAGAAGTTCAAGACCAGCCTGGGTAACA 73844
gi | 73957561 | ref | NW_876316.1 | Cf           -----
-----CCTGCG-----TCTCTGCCTCTTTCTCT 43935
gi | 194719394 | ref | NC_007316.3 | N           CTGAG-----CA
GCTGCTTACTGTG-----TACTTGCCTCGTCCACT 55836
gi | 149361523 | ref | NC_000074.5 | _           -----
-----TGCCAGGTTGCTGTAAT 42595

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gi | 51473102 | ref | NT_010498.15 | _           GAGTGAGACCTTGT
CTCTACAAATCCTTTTTTAAATTAGGGAGTAAATAG 67166
gi | 114795057 | ref | NC_006483.2 | N           TAGTGAGACCTTGT
CTCTACAAATACTTTTTTAAATTAGGGAGTAAATAG 73894
gi | 73957561 | ref | NW_876316.1 | Cf           GTGTTTCTCATGAA
TAAATAAAATCTTGAAAGAAAGAAAGAAAGAAAGAA 43985
gi | 194719394 | ref | NC_007316.3 | N           GCTGTTGGAGCTGG
ACCTTGGAGTCTGCAGGCTGGAGGGGAAAGTAAACG 55886
gi | 149361523 | ref | NC_000074.5 | _           GTCATCTGCTCTGA
CAAGACAGGCACTCTGACAGCCAACGAAATG----- 42640

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gi | 51473102 | ref | NT_010498.15 | _           TGGTGCATGCCTAT
GTCCCGGCTACCAGGGAGGCAGAGGCTGGAGGATTG 67216
gi | 114795057 | ref | NC_006483.2 | N           TGGTGCATGCCTGT
GTCCCGGCTACCAGGGAGGCAGAGGCTGGAGGATTG 73944
gi | 73957561 | ref | NW_876316.1 | Cf           AG--AAAGAAAGAA
AGAAAGAAAGAAAGAAAGAAAGAGAAAG--AAAGAA 44031
gi | 194719394 | ref | NC_007316.3 | N           TG--AACAATTTAA
GTGGATGTTAGCAAATAGTCACAACCTTC--TGATCA 55932
gi | 149361523 | ref | NC_000074.5 | _           -----ACAGCC
ACTCAGCTTGTCACATCTGATGGGTTCCATGCCGAG 42682

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGAGTCCAGGAG  
GTCAAGGCTGCGGTGAGCCTTGATGGTGACACTGCA 67266  
gi | 114795057 | ref | NC\_006483.2 | N CTTGAGTCCAGGAG  
GTCAAGGCTGCGGTGAGCCTTGATGGTGACACTGCA 73994  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAAGAAAAGAA  
AGAAAGAAAGAAAGAAAGAAAGAAAG-----AA 44073  
gi | 194719394 | ref | NC\_007316.3 | N G TACTGCACAGGAG  
ACGACAGCTGAGAGAGGGATTAAATGG-----GGA 55976  
gi | 149361523 | ref | NC\_000074.5 | \_ GTAAGTCTCATGTT  
CTCTCGCAAGGCAGGAGACCAAGGTG-----T 42723  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCCAGCCTGGGCG  
ACAGAGCAAGAACCTGCCTCAAAAAAAAAAATAAAA 67316  
gi | 114795057 | ref | NC\_006483.2 | N CTCCAGCCTGGGCG  
ACAGAGCAAGAACCTGCCTCAAAAAAAAAAAT-AAAA 74043  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAAGAAAGAAAG  
AAAGAAAGAGAGTGAGTTGGAGGGGTAATAATG-AA 44122  
gi | 194719394 | ref | NC\_007316.3 | N GATTGGAAGGGGTG  
TCCCCAGAAAAGGCAGCTGGAGGTTTCTCTGAGGAG 56026  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCCTGCCAGCCCT  
CTCCTGCCAGGGAAATGACAAGAGTCCTCTGGAAC 42773  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACAGGCAAGGCAC  
AGAGGATCACGCCTGTGATCCCACCACTTTGGGAGG 67366  
gi | 114795057 | ref | NC\_006483.2 | N AACAGGCAAGGCAC  
AGAGGATCACGCCTGTGATCCCACCACTTTGGGAGG 74093  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGAATAGACACTC  
AAA----CAGTTCTG-----CTACAATTGG 44157  
gi | 194719394 | ref | NC\_007316.3 | N TTGAAGCTGGAGAG  
ATG----CGGACCTG-----CTAGGGGTGG 56061  
gi | 149361523 | ref | NC\_000074.5 | \_ AACAAGGAAGAAAT  
AAA-----CACCTTGGG 42799  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCGAGGCAGGTGGA  
TCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGCCA 67416  
gi | 114795057 | ref | NC\_006483.2 | N CCGAGGCAGGTGGA

TCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGCTA 74143  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAAGGCACAAGTT  
TGTCACTACGTCCTTCAGCCTTAAGTTCCTAG---- 44203  
gi | 194719394 | ref | NC\_007316.3 | N GAAGGGCAGGCGTT  
CAGACAGGGGACTGGCCGCAGGGGACTGGCAGGGCA 56111  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTGTTGGTCTAAGAA  
AGTATTGTGACCAATTTAAGATGGCCTCTTTG---- 42845  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACATGGTGAAACCT  
CATCTCTACTAAAAATTCAAAAATTAGCCAGGTGTG 67466  
gi | 114795057 | ref | NC\_006483.2 | N ACATGGTGAAACCT  
CATCTCTACTAAAAATTCAAAAATTAGCCAGGTGTG 74193  
gi | 73957561 | ref | NW\_876316.1 | Cf ----TCTGACTTCT  
TTACCAGAAATGTCTAAACAACCTAGACCAATAAAAA 44249  
gi | 194719394 | ref | NC\_007316.3 | N GAGGCGTGGAGGAG  
GCAGCAAGCCTGGCTCATCCGAGGAACCCAGAAGGA 56161  
gi | 149361523 | ref | NC\_000074.5 | \_ ---ATTTGATTTAT  
TTATTTATTTATTCATTTATTTTCAACTCTG----- 42887  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGCACATGCCTG  
TAATTCCAGCTACGCGGGAGGCTGAGGCAGGAGAAT 67516  
gi | 114795057 | ref | NC\_006483.2 | N GTGGCACATGCCTG  
TACTTCCAGCTACGCGGGAGGCTGAGGCAGGAGAAT 74243  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
-----TAAAATTCAGGAGACTCGGGGAGGG----- 44275  
gi | 194719394 | ref | NC\_007316.3 | N GGTGCAGCTGGCTG  
GGGGATAAGACCGGACGGGGTCGGGGGCGGGGGGTC 56211  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGACCCACCTGCCTCAG----- 42904

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCATGAAGCTGGG  
GG-GTGGATGTTGCAGTGAGCTGAGACTGCACCACT 67565  
gi | 114795057 | ref | NC\_006483.2 | N TGCATGAAGCTGGG  
GG-GTGGATGTTGCAGTGAGCTGAGACTGCACCACG 74292  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCTCTGAACCAAAAAATTCCACTTC 44301

gi | 194719394 | ref | NC\_007316.3 | N CCTTAGGGGCTGAT  
CACATGGAACCTCACGGGCCCGTTTCCTCCAGAGC 56261  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCTCCTGAGTGCTGGGATTAAAGGCAC 42931

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gi | 51473102 | ref | NT\_010498.15 | \_ GCACTCCAGCCTGG  
GTGACAGAGTGAGACTCCATCTCAAACAAACCCAGC 67615  
gi | 114795057 | ref | NC\_006483.2 | N GCACTCCAGCCTGG  
GTGACAGAGTGAGACTCCGTCTCAAACAAACCCAGC 74342  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACTTATTGCCTA  
A-----TTCTGGAA 44324  
gi | 194719394 | ref | NC\_007316.3 | N CCAATCACATCCTC  
AGAACCCTTCTCCACGAACTGTGTGGCCATCTCTGC 56311  
gi | 149361523 | ref | NC\_000074.5 | \_ AGACCACCACCGCT  
CTG-----CTCCTCTCTGA 42959

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCCTTGTGTGAT  
ATAGCCAGAAAATGTGTTTTGTTTGAACGTATCTT 67665  
gi | 114795057 | ref | NC\_006483.2 | N CACCCTTGTGTGAT  
ATAGCCAGAAAATGTGTTTTGTTTGAACGTATCTT 74392  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTCCTTT-----  
-----CGTAG-----GACCCAAAGACC 44349  
gi | 194719394 | ref | NC\_007316.3 | N TCTCCTTTGGAGCA  
GAG-----AGGCAGTGGGAGGCGTGAACGTGAGCGT 56356  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTTTTTT-----  
-----TAATTGTCAAAT 42979

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCATTGGAATTT  
GTTGCCAACGTTTAAAAATTGGGAGTTTGCATGAAA 67715  
gi | 114795057 | ref | NC\_006483.2 | N TTTCATTGGAATTT  
GTTGCCAACGTTTAAAAATTGGGAGTTTGCCTGAAA 74442  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTCTGTTTAAATAA  
ATG----- 44366  
gi | 194719394 | ref | NC\_007316.3 | N GTTCCGAGGCATGG  
GAGGAAGGAGCAGGGGCGTGG----- 56391  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTACTTTTTTATAT



TTT----- 42996  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGATACTGGATTT  
CCAGCTTCTCTTGGGAGCATGGGAGGCCCGGCAGCA 67765  
gi | 114795057 | ref | NC\_006483.2 | N AAGATACTGGATTT  
CCAGCTTCTCTTGGGAGCATGGGAGGCCCGGCAGCA 74492  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
ACAGTAATTTAAGTG-----CAAA 44385  
gi | 194719394 | ref | NC\_007316.3 | N -----CCGTGG  
ACAGTGGAGTTGGAGGCGAGGGCAGGGCTTCCCGAA 56433  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TGCAGGATGGAACCCAGGGTCTCCCTCCATGC 43028

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTGCATTGCTGT  
GGTCCCTGGTGACTTGGTGGTGGCTCTTTGTTTAGA 67815  
gi | 114795057 | ref | NC\_006483.2 | N CTGTGCGTTGCTGT  
GGTCCCTGGTGACTTGGTGGTGGCTCTTTGTTTAGA 74542  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTAAAGAGGCAAA  
ACAAGTGAAGAGACTA-----ATTTATGCTAAA 44426  
gi | 194719394 | ref | NC\_007316.3 | N GAGGAGGACGCGGT  
AGAGCTGGGGGCCTTG-----GACTTGAGCGTAA 56476  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGACAGGCACAGT  
ACTATTGAACCACAC----- 43057

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGGCCTGGGCT  
CTGGGATCGCCACGTGGGCTTGCTCGCCCTGGCCGA 67865  
gi | 114795057 | ref | NC\_006483.2 | N GGAGGGCCTGGGCT  
CTGGCATCGCCACGTGGGCTTGCTCACCTGGCCCA 74592  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
GGTGGATATCTGATAGGGGAGG---TCCCTTCCCAA 44460  
gi | 194719394 | ref | NC\_007316.3 | N CTAACCTCACCACA  
TGAGGGTCCCTGGGAGAGCTTG---TCCCAGACAGA 56523  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCCCAGCCCCTCATTAACATCCCAGCCCGA 43087

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gi | 51473102 | ref | NT\_010498.15 | \_ T TTCACGTATTTCC  
TGGGCAGCCTGGCCCCAGGGCCTGGACCGGGCGTGT 67915  
gi | 114795057 | ref | NC\_006483.2 | N T TTCACGTATTTCC  
TGGGCAGCCTGGCCCCAGGGCCTGGACCGAGCGTGT 74642  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
-----AGCTGG----- 44467  
gi | 194719394 | ref | NC\_007316.3 | N T-----  
-----TGCAGGGACTGTGACTCAGGCTAGAGGGTGG 56555  
gi | 149361523 | ref | NC\_000074.5 | \_ T-----  
----- 43088

gi | 51473102 | ref | NT\_010498.15 | \_ C TCGAGGGGCTTCT  
GCAGGGTCCCTGGCAGTGGCTGTGGGTGGGTTGCAG 67965  
gi | 114795057 | ref | NC\_006483.2 | N C TCGAGGGGCTTCT  
GCAGGGTCCCTGGCAGTGGCTGTGGGTGGGTTGCAG 74692  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---GTTTTGCAATAGGAGAACTTAG---AGCCATGG 44497  
gi | 194719394 | ref | NC\_007316.3 | N TGGGGATGGGAGAC  
CCTGAATTCCTAACAGGCTCCCTGG---GGATACGG 56602  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
--TTTGCAGTACTGAGAATCACCGGGCATGCTGGGA 43122

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gi | 51473102 | ref | NT\_010498.15 | \_ G TGTGGTGAGAGAC  
AGTGGCCCCCTTCTCCCAGGATGTTTCTGGTATCTC 68015  
gi | 114795057 | ref | NC\_006483.2 | N G TGTGGTGAGAGAC  
AGTGGCCCCCTTCTCCCAGGATGTTTCTGGTATCTC 74742  
gi | 73957561 | ref | NW\_876316.1 | Cf A TGTGAAGG----  
-----TGACAGGTGCATCATGGTATTG 44529  
gi | 194719394 | ref | NC\_007316.3 | N A TGTGTCTCGGTTCA  
GGAAGCATCAGTCTTCAGAGAAGCATCAGAGAAGTG 56652  
gi | 149361523 | ref | NC\_000074.5 | \_ A AACACTCTGCTAC  
TGAGCTGTACTCCCTGGCTCCTGGTTCAATTTTATT 43172

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gi | 51473102 | ref | NT\_010498.15 | \_ A GATAACAGAAACT  
CCTCATCACTTCTAGTCCCCTAAATAGTCTCTTTCT 68065

gi | 114795057 | ref | NC\_006483.2 | N AGATAACAGAAATT  
CCTCATCACTTCTAGTCCCCTAAATAGTCTCTTTCT 74792  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----  
-----AACAGAGACTAGA--- 44544  
gi | 194719394 | ref | NC\_007316.3 | N AGGCTGTGGCTCCA  
GC-----CACCCAGCTGGGACTCCAGCA 56690  
gi | 149361523 | ref | NC\_000074.5 | \_ TGG-----  
-----AGACAAGGTCTTACT-- 43190  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAATTGTACAGA  
GTGGATCCATGCGGTGACAGCACTTGGAGCTCCACT 68115  
gi | 114795057 | ref | NC\_006483.2 | N AGAAATTGTACAGA  
GTGGATCCATGCGGTGACAGCACTTGGAGCTCCACT 74842  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
ATGGGGGCATTGGGG---ACACCTGAGACATG---- 44573  
gi | 194719394 | ref | NC\_007316.3 | N A-----GAG  
GTGGGGCCAGGGAGG---AAGGCTGGGTGCTGGAAA 56727  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
TTGTAGCCAAGCTGACTTTGAACTTG----- 43216

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGTCACATCTTC  
CCCCCTCCTCAGCCTGGCCTCGGGTGGAGGTTTGGT 68165  
gi | 114795057 | ref | NC\_006483.2 | N GAAGTCACATCTTC  
CCCCCTCCTCAGCCTGGCCTCGGGTGGAGGCTTGGT 74892  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCTCAACAGG-----TGAAAGTATTGG 44595  
gi | 194719394 | ref | NC\_007316.3 | N GGGGGCTTAGATGA  
CTAGGTCTTTCAAAGG-----CTGGGTTAGGGG 56769  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGATCA  
CCTG----- 43226

gi | 51473102 | ref | NT\_010498.15 | \_ GGGGAGGATCCGGC  
CAACCTCCCTCACCTGCTCAAAATCTCTCCTCCCC 68215  
gi | 114795057 | ref | NC\_006483.2 | N GGGGAGGATCCGGC  
CAACCTCCTTCACCTGTTCAAAATCCCTCCTCCCC 74942  
gi | 73957561 | ref | NW\_876316.1 | Cf CA-----ACCC

CAGCTGG-----GATTCATGTGATCCTTA 44625  
gi | 194719394 | ref | NC\_007316.3 | N CAGAGGGCGAGCCT  
CAGCTGTGAGGGGCTCCCAGAATAAGCAGAGCCTTC 56819  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCTCGG  
CCTCTCTAGTAGCTAGGACGACAGGCTTGATCCTCT 43268

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCCCATCGCCAGC  
GAAGGCTGTTTTTTTTTTTTTTTTTTGAGACAGACTTT 68265  
gi | 114795057 | ref | NC\_006483.2 | N TCCCCATCGCCAGC  
CAAGGCTG---CTTTTTTTTTTTTTTTGAGACAGACTTT 74989  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGCATGTAAAG  
ATGACCTG----TCTGGCCTTTTG-ATCCAGCCTG- 44669  
gi | 194719394 | ref | NC\_007316.3 | N AGACCATGATGAAT  
GAGAACCT----CCTCCACGTGAGGATGCATCCCG- 56864  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGCCTGTCTGCCT  
TGGAGCTT-----TTTTTGAAACAAAGTTT 43307

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTCTTGTTGCC  
AGGCTGGAGTG-CAATGGCACCATCTCAGCTCACCA 68314  
gi | 114795057 | ref | NC\_006483.2 | N CACTCTTGTTGCC  
AGGCTGGAGTG-CAGTGGCGCCATCTCAGCTCACCA 75038  
gi | 73957561 | ref | NW\_876316.1 | Cf -GCAGTGGCTGCCA  
TTCCTGAGGG--TCTGCCCATCGTTGTCACGGTTAC 44716  
gi | 194719394 | ref | NC\_007316.3 | N -ACCCATGTCATCA  
ACCATGGAGAGTTCCAAGAGCCAAAAAGACTGTTAA 56913  
gi | 149361523 | ref | NC\_000074.5 | \_ CACTCTG-TAGCCT  
GGGCTGGGGTG-TGCTGAAGTCACTGTGTAGCCCAG 43355

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gi | 51473102 | ref | NT\_010498.15 | \_ CAACCTCCACCTCC  
CAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAG 68364  
gi | 114795057 | ref | NC\_006483.2 | N CAACCTCCACCTCC  
CAGGTTCAAGCGATTGCTTGCCTCAGCCTCCCGAG 75088  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTGGTCCTAG---  
-----GAGTGCTGCGGATGGCCAAG 44747  
gi | 194719394 | ref | NC\_007316.3 | N ATAGTTCCAGGTCT  
GT-----AAGAGAATAGGCTCCTACGTCCACCCCAA 56958

gi | 149361523 | ref | NC\_000074.5 | \_ GATTTACTGCG---  
-----TAGTAAATCTCTTGTCTCAGCTTACCATA 43395

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCTGGGATTACA  
GGCATGCGCCACCACGCCTGGCTAATTTTGTATTTT 68414

gi | 114795057 | ref | NC\_006483.2 | N TAGCTGGGATTACA  
GGCATGCGCCACCACGCCTGGCTAATTTTGTATTTT 75138

gi | 73957561 | ref | NW\_876316.1 | Cf AAGCGGGTCATCGT  
G----AAGAAGTT----- 44770

gi | 194719394 | ref | NC\_007316.3 | N CCCACCTCCCCAG  
G----GTGATTTTTTTTAAATATTTATTTATT 57004

gi | 149361523 | ref | NC\_000074.5 | \_ TGATGGAGTTCCAG  
G----- 43410

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGGAGAGACGGGG  
TTTCTCCATGTTGGCCAGGCTGGTGTCGAACTCCCG 68464

gi | 114795057 | ref | NC\_006483.2 | N TAGTAGAGACGGGG  
TTTCTTCATGTTGGCCAGGCTGGTGTCGAACTCCCG 75188

gi | 73957561 | ref | NW\_876316.1 | Cf -----ACCAAT-  
----TGTGGAGACGTTAGGTAAAGGACCATCCTGG- 44807

gi | 194719394 | ref | NC\_007316.3 | N TAGCTGTACCAGG-  
----TCTTAATTCTCTGACCAGGGATCGAACCAGG 57049

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----CATGAGGCACCACACCAGCTCTTTACAAAA 43441

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTCAGGTGATCG  
AGGCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGG 68514

gi | 114795057 | ref | NC\_006483.2 | N ACCTCAGGTGATCG  
AGGCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGG 75238

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTGAAATCTTGTAATGGGATCGACTGG 44835

gi | 194719394 | ref | NC\_007316.3 | N ACTCCAG-----CA  
TTGGGAGTGTGGCATCTTAGCCACTGGACCACTAGG 57094

gi | 149361523 | ref | NC\_000074.5 | \_ TTTAAAG-----  
-----GCTACAGAAGGACCTG--TCACCACC 43472

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gi | 51473102 | ref | NT\_010498.15 | \_ CATGAGCCGCCACA  
CCCGGCCTTTTTCTTTCTTAAACAGCTTTATTGAGA 68564  
gi | 114795057 | ref | NC\_006483.2 | N CATGAGCCGCCACA  
CCCGGCCTTTTTCTTTCTTAAACAGCTTTATTGAGA 75288  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGGTGGTTCGGCC  
TGGGTGTTTCATTAGCCTGAGAATTAACGGTGAT-- 44883  
gi | 194719394 | ref | NC\_007316.3 | N GAAGTCCCTCCCCA  
AGGTTATTTCTGATTTCTGGTCTTAAACAGCTCCTTT 57144  
gi | 149361523 | ref | NC\_000074.5 | \_ CATGACAAACTGAC  
CCTGAGTCACTGTTCTCTGTCTCTCCCAGGGCACAG 43522

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gi | 51473102 | ref | NT\_010498.15 | \_ TATAATTCACATAT  
ATAATTCATCCATTTAAAGCATAACAATTTAATGGTT 68614  
gi | 114795057 | ref | NC\_006483.2 | N TATAATTCACATAT  
ATAATTCATCCATTTAAAGCATAACAATTTAATGGTT 75338  
gi | 73957561 | ref | NW\_876316.1 | Cf -----G  
GGTTCTCTTTCTCTGAACTG-----GGGT 44909  
gi | 194719394 | ref | NC\_007316.3 | N CACCCACTCATCG  
CACTCTATCTCCAGTAAACTCGAAAGAAAACCAAGT 57194  
gi | 149361523 | ref | NC\_000074.5 | \_ -----C  
TGTACGCTCCCTTAACCAGCAGTTTGGGGTATGGAT 43559

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTAGTGTATTCAG  
AGATATACACAGCCGTCACCACAGTCCATTTTAG-- 68662  
gi | 114795057 | ref | NC\_006483.2 | N TTTAGTGTATTCAG  
AGTTATACACAGCCATCACCACAGTCCATTTTATTT 75388  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTCTTGTGCCAGG  
T-----TGCTGCAATG-- 44934  
gi | 194719394 | ref | NC\_007316.3 | N CTTTTTGTTTCACT  
TGTGGCTTGGGAACAACGAGGCTCTTCAGCTTTG-- 57242  
gi | 149361523 | ref | NC\_000074.5 | \_ ATTTTTCTG-----  
-----TGGAGCTTTC-- 43578

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gi | 51473102 | ref | NT\_010498.15 | \_ -----A

ATATTTTATTTTATTTGAGACAGGGTCTCACTCTGC 68699  
gi | 114795057 | ref | NC\_006483.2 | N TATTTTATTTTCATT  
TTATTTTATTTTATTTGAGACAGGGTCTCACTCTGC 75438  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCATCTGTTTCG----- 44945  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTTTGTTTTCCGCACT-----CCTTTTCT 57265  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TACATAGGCTGTAG  
CACAGTGACATGATCATGGCCCACTGCAGCCTCAGC 68749  
gi | 114795057 | ref | NC\_006483.2 | N TACATAGGCTGTAG  
CACAGTGACATGATCATGGCCCACTGCAGCCTCAGC 75488  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GATAAGA  
CAG-----GGACTCTGA 44964  
gi | 194719394 | ref | NC\_007316.3 | N TTCGTAGGCTGTGC  
CGGG---TCTCCTAGCCGCGAGCTTGTGGACTCTTA 57311  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CAGAGC  
AAAG-----GUTCACCAA 43597

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTG-ACCTCCCAG  
GCTCAAGTGATCCTCCTACCTCAGCCTCCTCAGTAG 68798  
gi | 114795057 | ref | NC\_006483.2 | N CTTG-ACCTCCCAG  
GCTCAAGTGATCCTCCTACCTCAGCCTCCTCAGTAG 75537  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCGCCAAT  
GAGATGACCGTCACCCAGCTGG----- 44994  
gi | 194719394 | ref | NC\_007316.3 | N GTT--GCAGCTTGT  
GGGATTCGGTTCTCCCATCAGGGATCAAACCCGGGG 57359  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGGGGGCTCTCAG  
GCCATGGCCTGCTCTTGTC AAT----- 43633

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGGATTATAGGT  
GCACACTGCCACACCCAGCTAATTTATATATACATA 68848  
gi | 114795057 | ref | NC\_006483.2 | N CTGGGATTATAGGT  
GCACACTGCCACACCCAGCTAATTTATATATACATA 75587

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGACATCTG-----ACGGGCTCCATG 45015  
gi | 194719394 | ref | NC\_007316.3 | N CCCCTGCACTGGGA  
GCCCGGAGTCTCAGCCA-----CAGGACCACATG 57402  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---AAAATATTCTTCT----- 43646

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTATATATA----  
-----ATTTTTTTTTTTGTAGAAATAAAAAAATGTT 68889  
gi | 114795057 | ref | NC\_006483.2 | N TATATATATATATA  
TATATATTTTTTTTTTTTGTAGAAATAAAAAAATGTT 75637  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GGGAGGGGAC----  
-----TGGCTGGGCAGAGGTATGGAGGAGGG 57438  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCAGGCTAGTCT  
TGAACTCTTGAGCTCAAATGATCTGCCAGTGTGATC 68939  
gi | 114795057 | ref | NC\_006483.2 | N GCCCAGGCTGGTCT  
TGAACTCTTGAGCTCAAATGATCTGCCAGTGTGATC 75687  
gi | 73957561 | ref | NW\_876316.1 | Cf -CCGAGGTGAG---  
----- 45025  
gi | 194719394 | ref | NC\_007316.3 | N AGCAAGGGAAG---  
----- 57449  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCCCCG-----  
----- 43653  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCCCAAAGTGCTG  
GTATTATAGGTGTGAGCTACTGTGCCTGGCCTTAGA 68989  
gi | 114795057 | ref | NC\_006483.2 | N CTCCCAAAGTGCTG  
GTATTATAGGTGTGAGCTACTGTGCCTGGCCTTAGA 75737  
gi | 73957561 | ref | NW\_876316.1 | Cf -TCCCGTGCCG---  
-----AGGACAGCTGTCTACCTTCAGA 45057  
gi | 194719394 | ref | NC\_007316.3 | N -TCCCAAGACTCT-



-----TCAGTTTTTAGCAGAAGTGAAATCACTCAGA 57492  
gi | 149361523 | ref | NC\_000074.5 | \_ --CCCAT-----  
-----ACGCCACCCCCCACGTTTTTAA 43679  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTTTCTTTTTT  
CTTTTGAGATGGAGTCTCACTCTGTCACCAGGCTGG 69039  
gi | 114795057 | ref | NC\_006483.2 | N ACATTTTCTTTTTT  
CTTTTGAGATGGAGTCTCACTCTGTCACCAGGCTGG 75787  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCTTTCCTTCCTA  
AAAGAATCTT-----CCAG 45085  
gi | 194719394 | ref | NC\_007316.3 | N ACCTCTCAATCATA  
AGTTAGAAATGGC-----AAGATAGCCAG 57530  
gi | 149361523 | ref | NC\_000074.5 | \_ AGATTATATGTGTG  
CGTGTCTATACG-----CCTG 43709

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGCAGTGGCGCA  
GTCTCGGTTCACTGCAACCTCCGCCTCTCAGGTTCA 69089  
gi | 114795057 | ref | NC\_006483.2 | N AGCGCAATGGCGCA  
GTCTCGGCTCACTGCAACCTCCGCCTCTCAGGTTCA 75837  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAGCAATAAG---  
-----GAAGAAATAAAAATGGGTTATTCT----- 45120  
gi | 194719394 | ref | NC\_007316.3 | N CGTGCAAGAGATTC  
--TCCAAAACAAATAACCCAAGAATCATCCTTTTAA 57578  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGCCAGTGTATA  
CACATAAATGCAGTGACCTTAGAGGCCACAAGAAGG 43759

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAATTCTCCTGC  
CTCAGCCTCCTGAGTACCTGGGATTACAGGTGCATG 69139  
gi | 114795057 | ref | NC\_006483.2 | N AGCAATTCTCCTGC  
CTCAGCCTCCTGAGTACCTGGGATTACAGGTGCATG 75887  
gi | 73957561 | ref | NW\_876316.1 | Cf -ACAATTTCTCCTGC  
TACAAACAGCAGCAAGGAACACAACACTGAG----- 45162  
gi | 194719394 | ref | NC\_007316.3 | N AACTTTTTTCTCCTGC  
TTCCCTCTGCTGCAGGGGACCTTCAGGATGAGCCAA 57628  
gi | 149361523 | ref | NC\_000074.5 | \_ CAATGGAGTCCCCC  
ATCCCACCCCCAAGCTGGTGTACAAGCAG----- 43803

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gi | 51473102 | ref | NT\_010498.15 | \_ CCACCACACCTGGC  
TAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACC 69189  
gi | 114795057 | ref | NC\_006483.2 | N CCACCACACCCAGC  
TAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACC 75937  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---TTGAGCCAGCTTTATTTTTTTTTTTTTTTTGTAAAT 45195  
gi | 194719394 | ref | NC\_007316.3 | N GGTCCACTTGCT-T  
TTCCTGGTCTAGCCTAATCTTTATTAGTTTGCCAGT 57677  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTTGAAGCCATCTAGTGGTGGTGGTGGGAAC 43834

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGTTGTCCAGGTT  
GGTCTCAAACCTCCTGACCTCAGGTGATCTGCCACC 69239  
gi | 114795057 | ref | NC\_006483.2 | N ACGTTGTCCAGGTT  
GGTCTCAAACCTCCTGACCTCAGGTGATCTGCCACC 75987  
gi | 73957561 | ref | NW\_876316.1 | Cf TACCTTTT-----  
-----AACATAACCACATC 45218  
gi | 194719394 | ref | NC\_007316.3 | N TAATTTTTTTTATTA  
TGACAAAAGCACCCAGACACACAATGTCCTTCCC 57727  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAATGTG-----  
-----GGTCCCTTAT 43852

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGCCTCCCAAAG  
TGCTGGGATTACAGGCGTGAGCCACCACCCCTGCC 69289  
gi | 114795057 | ref | NC\_006483.2 | N TGGGCCTCCCAAAG  
TGCTGGGATTACAGGCGTGAGCCACCACCCCTGCC 76037  
gi | 73957561 | ref | NW\_876316.1 | Cf GCATAATGTAGAAG  
---CGGGAAAGCAGTTGCCCTAACCGCC-TGTGAT 45264  
gi | 194719394 | ref | NC\_007316.3 | N ATGCCATGTAGGAG  
GGAAGGGCTGGCAATAACCCTTCGCAAATGTTTGCT 57777  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGACCACTCTTAG  
CCTACTGGCCACCCCTCGGGCCACCTCTCAATAACAC 43902

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGAACATTTTCTT  
ATCGCCTCAAAAAGAAACCCTGTGCCCTTTAGCTAT 69339  
gi | 114795057 | ref | NC\_006483.2 | N TAGAACATTTTCTT  
ATCGCCTCAAAAAGAAACCCTGTGCCCTTTAGCTAT 76087  
gi | 73957561 | ref | NW\_876316.1 | Cf AACT-----  
----- 45269  
gi | 194719394 | ref | NC\_007316.3 | N TAGCTGGTCTTGTC  
AGCCCATGCCATAAAACCAAGGAACCTTCTTGCTGT 57827  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCTTG-----  
----- 43909  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACTCTACATTCCC  
ACCTATGCCACATCCCAG-----CCCTAAGCAA 69382  
gi | 114795057 | ref | NC\_006483.2 | N CACTCTACATTCCC  
ACCTATGCCACATCCCAG-----CCCTAAGCAA 76130  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AACCA  
TGACAGTCCCTT-----TGGGTTT 45293  
gi | 194719394 | ref | NC\_007316.3 | N CACCATAGAAACCA  
GAACAGTCTCTTGACCAAACCTCTGCCACCTTGGTTT 57877  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCACGCT  
GCCACGCCGAT-----CTGT 43932  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCGCTCATCTTTCT  
TTCTTGTGTAGATTTCCCATTCTGAACATCCCTTA 69432  
gi | 114795057 | ref | NC\_006483.2 | N TTGCTCATCTTTCT  
TTCTTGTGTAGATTTCCCATTCTGAACATCCCTTA 76180  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCAATCTCTCTCC  
TCTGTG-----TGGCACAAGTTGTAAGCTCCCCGA 45337  
gi | 194719394 | ref | NC\_007316.3 | N ATGTAACCTTTCCCC  
TGAATGCGTCTTTGTCTCCGGGTAAAAGATCGCCGT 57927  
gi | 149361523 | ref | NC\_000074.5 | \_ AAACGTTACATGGC  
TGGCTGCTTTTCAGCCCCATCTTGCACCGTCTTCAC 43982  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGAATGGACTCGTG  
CTCTG---AGTGGCCTTCTATGTCTGGCTTCTTCCA 69479  
gi | 114795057 | ref | NC\_006483.2 | N TGAATGGACTCATG

ATCTG---AGTGGCCTTCTATGTCTGGCTTCTTCCA 76227  
gi | 73957561 | ref | NW\_876316.1 | Cf ACGTGCCGTTTTTGC  
GTC----- 45354  
gi | 194719394 | ref | NC\_007316.3 | N TCATACCGTATTTTC  
CTCACTTCTAAGATGTACTCTTTTTTCACTTTTTTA 57977  
gi | 149361523 | ref | NC\_000074.5 | \_ TGATAGAGGTTTAT  
GAG----- 43999  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCAGCAGCATGTT  
TTCCAGGCTCATCCACATGGTGGCATGTGCCAGTGC 69529  
gi | 114795057 | ref | NC\_006483.2 | N CTCAGCAGCATGTT  
TTCCAGGCTCATCCACATGGTGGCATGTGCCAGTGC 76277  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----C 45355  
gi | 194719394 | ref | NC\_007316.3 | N CCTTCTCTGCAGTC  
AGACTGCTTCTCACAAGTGAGGTGATAAGAAAGCAC 58027  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----C 44000

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGTTCCCTTTCTT  
TGGCTAAAGTGTATTCTGCTGTATAGATAGACCACA 69579  
gi | 114795057 | ref | NC\_006483.2 | N CTTGTTCCCTTTCTT  
TGGCTAAAGTGTATTCTGCTGTATAGATAGACCACA 76327  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTGACG-----  
-----TTTTTCCTAAAACCT-----CCAGAA 45383  
gi | 194719394 | ref | NC\_007316.3 | N TGTGTCGGTTAATG  
GGCAGTATTTTTCTTTCTTTAGTGACGCACAAGAT 58077  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCAGAAG-----  
-GCTCAGTGTTTCCTCT----- 44024

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGGCTCATCCAT  
TTGTTCACTGATGGACATTTGGGTTGTCATAGTTTC 69629  
gi | 114795057 | ref | NC\_006483.2 | N TTTGGCTCATCCAT  
TTGTTCACTGATGGACATTTGGGTTGTCATAGTTTC 76377  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAG-----  
-----GTGTGAAAAATGACATCT 45405

gi | 194719394 | ref | NC\_007316.3 | N AATGGTGCCCTCTC  
TAATCAACAGCACCTCAGGTTTGATGAAATACTGCA 58127  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TGGCTTAGGGTACAGT 44040

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCATGTTTGT  
TACATTTTTTAAAGGAAAATTTCAAGCCTGTACAAA 69679  
gi | 114795057 | ref | NC\_006483.2 | N TCCATGTTTGT  
TACATTTTTTAAAGGAAAATTTCAAGCATGTACAAA 76427  
gi | 73957561 | ref | NW\_876316.1 | Cf CACAGGCAGG----  
-GCCTGTTTTCAT--AAATAGGATTTTCG-----CT 45442  
gi | 194719394 | ref | NC\_007316.3 | N GCCGTGCGTG----  
-GCTTGGCTGGATGGACATCGGCAGCCGGGCTTTCT 58172  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCTTCTAAG----  
-CCCTCTCTATATGCACCTCAGCTTGTGTGACCCTT 44085

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCAGAGAGGATGA  
TAAAGTGAACACCTGTGTAGCCACTACCCAGCTTCA 69729  
gi | 114795057 | ref | NC\_006483.2 | N AGCAGAGAGGATGA  
TAAAGTGAACACCTGTGTAGCCACTACCCAGCTTCA 76477  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----  
-----CAGGCCGG----- 45452  
gi | 194719394 | ref | NC\_007316.3 | N GGTTATGGACCACC  
TGTGTAGAGCACTCAGTATGTGTGAGGCCAGGGTGT 58222  
gi | 149361523 | ref | NC\_000074.5 | \_ GTG-----  
-----TAGCCACAG--- 44097

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGTGGCCCACTT  
GCAAACACTCTTGCCCTTTCTACAGCCCACCCCTGG 69779  
gi | 114795057 | ref | NC\_006483.2 | N ACAGTGGCCCACTT  
GCAAACACTCTTGCCCTTTCTACAGCCCACCCCTGG 76527  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CATACCTATAT----- 45463  
gi | 194719394 | ref | NC\_007316.3 | N GTCTGGGCTCTTGC  
ACTTGCCATGAATTCATTCCTGTGTGTTTCAG- 58271  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

-----CCTCCACCAGG----- 44108

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gi | 51473102 | ref | NT\_010498.15 | \_ CTATGTCAAACCTGG  
ACACCAGGCACCAGGCATCATACTTTCCACCACTT 69829  
gi | 114795057 | ref | NC\_006483.2 | N CTGTGTCAAACCTGG  
ACACCAGGCACCAGGCATCATACTTTCCACCACTT 76577  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CAAATATTTACTGA  
CTACCTGCAGGCCTCTGCTGTGCAAAGGGTGAGCCC 58321  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGAGTGTGGAAT  
GTGGGGCCAGTCAGCCCCGATGTTGTGGAGTCTCAG 69879  
gi | 114795057 | ref | NC\_006483.2 | N CAGGAGTGTGGAAT  
GTGGGGCCAGTCAGCCCCGATGTTGTGGAGTCTCAG 76627  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--CGACGGTCACAGAGCCGAGGGGTTG----- 45488  
gi | 194719394 | ref | NC\_007316.3 | N TTTGGGTGTGGTGT  
GGTGACGCTCACTGCACAGCTCTGCAGTCTGCCCCC 58371  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---AGCACTTGTAGCCGATTGCCGTAG----- 44132

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAAAGGGATAGA  
AAGAGCCCCCTCTACACATGCTCTCACCTGTTGACA 69929  
gi | 114795057 | ref | NC\_006483.2 | N CCAAAGGGATAGA  
AAGAGCCCCCTCTACACGTGCTCTCACCTGTTGACA 76677  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGACAGATTGCAT 45501  
gi | 194719394 | ref | NC\_007316.3 | N CCTTCAG----AGC  
CTCCCCCATCGGTCTGCGGTCCTGGCAAGACACAA 58417  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TACACGCAA 44141

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCCAGAGAAGGG  
GTAT-CATGTGCTGCAGCCCCAGTCTCATTTCCAAG 69978  
gi | 114795057 | ref | NC\_006483.2 | N CACCCAGAGAAGGG  
GCATCCATGTGCCGCAGCCCCAGTCTCATTTCCAAG 76727  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCCTGCAAGAGGC  
TGACGTATTTGCTCT-----CTGGCTCCCTAA 45542  
gi | 194719394 | ref | NC\_007316.3 | N CACTTGCTACAGGA  
AGGGGATTCTGTGCTT--CCAATGCAGATTCCAAG 58465  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCACCATAAGG  
GAAGGAGTCTGGGCAG-----CCGACAGTCTGC 44183

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGCATCTCACCA  
GCTCAGCTTGGGTCACACGCTCTCCTCGAATCCAGC 70028  
gi | 114795057 | ref | NC\_006483.2 | N AGAGCATCTCACCG  
GCTCAGCTTGGGTCACACGCTCTCCTCGAATCCAGC 76777  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGGAAG-----  
-----TTTGCCACCTCTGTTCTAG- 45569  
gi | 194719394 | ref | NC\_007316.3 | N GGAGGAGCTCATTG  
G TTCAGCTT GAGTCACATGTTCTCCTCTAATCCAAT 58515  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----  
-----GGTTACCCTCATGTGTAG- 44203

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gi | 51473102 | ref | NT\_010498.15 | \_ CAACCCTGGTTATG  
AGAGAGTGGGGTCGCACCGTACAGGGAGAGTTGGAG 70078  
gi | 114795057 | ref | NC\_006483.2 | N CAACCCTGGTTATG  
AGAGAGTGGGGTCGCACCGTACAGGGAGAGTTGGAG 76827  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AACATAAG----- 45577  
gi | 194719394 | ref | NC\_007316.3 | N CAACTGTG-----  
-GAGGGTGGGGTCACGTGGTACAGAAAGA-----G 58552  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GCTTATG----- 44210

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTAAGAAAGAAG  
TGAGCAGACACCCCGAAACAGATCCACGCAGCAGGC 70128

gi | 114795057 | ref | NC\_006483.2 | N GGGTAAGAAAGAAG  
TGAGCAGACACCCCGAAACAGATCCACGCAGCAGGC 76877  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TGGAGAGGGGGAAG  
TGAACAGACACCAAACAACCTGCTAAGCT--AGGC 58600  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGTGTGTCGCTGT  
GGCCCTTCACCTGCCCTGACCTGGACTTCCTTGTCT 70178  
gi | 114795057 | ref | NC\_006483.2 | N AAGTGTGTCGCTGT  
GGCCCTTCACCTCCCCTGACCTGGACTTCCTTGTCT 76927  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTCT  
CTTCTGTGATATTACCTCGTTTTCTTAACCAT---T 45614  
gi | 194719394 | ref | NC\_007316.3 | N AAAGGCATCGCTGT  
GTTACGTCATCTCCCCAGTTTTTCATGTCCTTGTCT 58650  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACTTT  
GGGGTAGACCCTAGGAGAGGGA ACTTATGCCATCCA 44251

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTTCCTCATAGG  
AAGTGTCTACACCACTACACTCATGAAAAGTGAAAT 70228  
gi | 114795057 | ref | NC\_006483.2 | N GGCTTCCTCATAGG  
AAGTGTCTACACCACTACACTCATGAAAAGTGAAAT 76977  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTTT-CTCATTAA  
GGAAGTTTACTGCAAT-----TGCTAA 45649  
gi | 194719394 | ref | NC\_007316.3 | N GGTTT-CTCACAGA  
AACTGTCTAAACCATT-----AGATAA 58685  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGTTTCGGGGGTA  
GGGAGGTAGGCTCTTG-----ATGACAC 44288

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAGGGACTCACG  
AGGACCCCTGGAACCAAAA ACTCTTAATCCC ACTTA 70278  
gi | 114795057 | ref | NC\_006483.2 | N TCAAGGGACTCACG  
AGGACCCCTGGAACCAAAA ACTCTTAATCCC ACTTA 77027  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCGTG-----



-----GCACTTA 45662  
gi | 194719394 | ref | NC\_007316.3 | N CCCAGGGACTTTC-  
-----TGAACCCAAAAAGTCCACTTA 58719  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCTG-----  
-----CCATGTC 44302

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTCTGATTTTGG  
GAATTCCTTTTATGGAACCCAAAGCCTTTTCTCTCT 70328  
gi | 114795057 | ref | NC\_006483.2 | N CTGTCTGATTTTGG  
GAATTCCTTTTATGGAACCCAAAGCCTTTTCTCTCT 77077  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGAGTTTTCTG--  
----- 45674  
gi | 194719394 | ref | NC\_007316.3 | N TTGTGTGATCCTGG  
AAATGTCTTTCAAGGGTCCAAA-----CTT 58759  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTCCAGGTCAG--  
----- 44314  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATAAATGAGAATA  
ATGTCAATGCAAAATACTTTTAAAGAGGGCAAAACAG 70378  
gi | 114795057 | ref | NC\_006483.2 | N AATAAATGAGAATA  
ATGTAAATGCAAAATACTTTTAAAGAGGGCAAAACAG 77127  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATCAATA  
CACAAACATGCAGGG-AACATCCTCATG-CCTTAAG- 45714  
gi | 194719394 | ref | NC\_007316.3 | N TCATAAGAGCAACA  
ATTTAAATGCAAAAGTACTTAAACAGG-CAAATGT 58808  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGGTGT  
CGGATACAGCGGAGAAGGGACTGTGTG-CCTTCTG- 44354

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGACAGACTAATT  
CACATTAAGGTGTGGATGACTGACAGGAGAGGTCCC 70428  
gi | 114795057 | ref | NC\_006483.2 | N CTGACAGACTAATT  
CACATTAAGGTGTGGATGACTGACAGGAGAGGTCCC 77177  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCT  
TGCTCGTGGGTAGGATTATGTCCTTG----- 45743  
gi | 194719394 | ref | NC\_007316.3 | N TGGACAGACTAATT  
CACACTAAAGTGTGGATGTCTGATAGGAGA----- 58852

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
CCATCTAAGGAAGTAATCAAA----- 44375

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCAAGAGCGGG  
GTCTGCAGGGGAGGG-CTCAGGACAGTGGGTGCTGC 70477  
gi | 114795057 | ref | NC\_006483.2 | N TTCCAAGAGCGGG  
GTCTGCAGGGGAGGG-CTCAGGACAGTGGGTGCTGC 77226  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GGGGTAGGTCCCCCAGAAAAG----- 45764  
gi | 194719394 | ref | NC\_007316.3 | N -----ACAGGG  
TTTTGCAGGGGAAAAGCTCAGAGCAGTGGACACTGA 58894  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGATTTGACAACGTGTCAGTG----- 44396

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAGGAGGCAGGT  
GCACCTTAGGATTGGGAATGGAGACTAGAACCAGGA 70527  
gi | 114795057 | ref | NC\_006483.2 | N AGAAGGAGGCAGGT  
GCACCTTAGGATTGGGAATGGAGAATAGAACCAGGA 77276  
gi | 73957561 | ref | NW\_876316.1 | Cf ---AGATGATGGGA  
CAACCAGGGGAGTG-----TATTTTGTGACACGT 45803  
gi | 194719394 | ref | NC\_007316.3 | N AGAAGGAGGCAGGT  
GGATCATGGGATTGGGAGCAGAGAATAGAACCAGAGA 58944  
gi | 149361523 | ref | NC\_000074.5 | \_ ---GGGAAGCTGGT  
GGAGGTGAGAATTGGG-----TGGT 44427

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTGGGGACACCT  
AAGACAAGCTTCACCAGCCAAAAGCATTGCCAGCCC 70577  
gi | 114795057 | ref | NC\_006483.2 | N CATTGGGGACACCT  
AAGACAAGCTTCACCAGCCAAAAGCATTGCCAGCCC 77326  
gi | 73957561 | ref | NW\_876316.1 | Cf G-CTGACATCCCCT  
CTG--CGGCTTTGCCCTGCAGG-----T 45837  
gi | 194719394 | ref | NC\_007316.3 | N G-GTGGAGAACCCA  
CAGGTGAGCGTCACCGGGCAAACACGTGATCAACAT 58993  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCTGTAGTGGAAC  
AGTGTGTGGCTTGCCTGAAATG----- 44463

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCTGAGAGTCAC  
ACACTCCTTAAATGTGT--TAGAGGGGACTCATTTG 70625  
gi | 114795057 | ref | NC\_006483.2 | N CAGCTGAGAGTCAC  
ACACTCCTTAAATGTGTGTTAGAGGGGACTCATTTG 77376  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGCGG-----  
-----AGTTGGGTATAATGGCAAAGGGACCG-TCTG 45873  
gi | 194719394 | ref | NC\_007316.3 | N CAGCTGGACTTCAC  
A-TCACATTAAGTGTGTGTTAAAGGTGACCTGTCTG 59042  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGCGGG-----  
-----ATGACTGGCTGACCTCAGGGGGTCCCTTCTG 44501

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gi | 51473102 | ref | NT\_010498.15 | \_ ACC-TTTCGATCCA  
GCCTGGCTGTGGCGGCCATTCCAGAGGGTCTGCCCA 70674  
gi | 114795057 | ref | NC\_006483.2 | N ACC-TTTCGATCCA  
GCCTGGCTGTGGCGGCCATTCCAGAGGGTCTGCCCA 77425  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTGTTACCCTCCA  
-----AGGAAGTCATTAAGGAG-----TTCA 45908  
gi | 194719394 | ref | NC\_007316.3 | N GCCTTTTCCATCCA  
GCCTGGCTGTGGCCGCCATCCCCGAGGGCCTGCCCA 59092  
gi | 149361523 | ref | NC\_000074.5 | \_ ACG-----  
-----GACATCACTCCTAAG----- 44519

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGTCGTCATGGTG  
ACGCTGGTCCTGGGAGTGCTGCGGATGGCCAAGAAG 70724  
gi | 114795057 | ref | NC\_006483.2 | N TCGTCGTCATGGTG  
ACGCTGGTCCTGGGAGTGCTGCGGATGGCCAAGAAG 77475  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAATGTCTCAGTG  
GGGAAATTAGTAGAGGTGAGTGTCAAAGCCT----- 45953  
gi | 194719394 | ref | NC\_007316.3 | N TCGTCGTCACAGTT  
ACGCTGGTCCTGGGAGTGCTGCGCATGGCCCGGAAG 59142  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGGAT  
AGGAAGGCAAAGGGGAAAGGAAGGCTGG----- 44552

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGGTCATCGTGAA

GAAGTTACCCATCGTGGAGACTTTAGGTGAGGGACT 70774  
gi | 114795057 | ref | NC\_006483.2 | N CGGGTCATCGTGAA  
GAAGTTACCCATCGTGGAGACTTTAGGTGAGGAACT 77525  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CATGGTGGAAATATGCATTTAGAAGTT 45980  
gi | 194719394 | ref | NC\_007316.3 | N CGAGTTATTGTGAA  
GAAGCTGCCGATCGTGGAGACCTTAGGTAAGGAGCT 59192  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AACCTG-----GCTGGGCT 44566

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGCTGGTGGAAAT  
CCTTACACGTGGAATTGAATGGGGGCTTGGCTGTCA 70824  
gi | 114795057 | ref | NC\_006483.2 | N CCAACTGGTGGAAAT  
CCTTACATGTGGAATTGAATGGGGGCTTGGCTGTCA 77575  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGATAG--GTGT  
TCTCTCTGAAG----- 46003  
gi | 194719394 | ref | NC\_007316.3 | N CCCGCTGGTTGAGT  
TCTTACAAATTGGACTGAACGGGCTTCTTGGTGCCA 59242  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGAGTGGAGATC  
TCGGTCCTCCT----- 44591

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCAATCCAGCCT  
GGGGGTTTCACAAGCCTGAGG-----ATGGCAAC 70867  
gi | 114795057 | ref | NC\_006483.2 | N GGGCAATCCAGCCT  
GGGGGTTTCACAAGCCTGAGG-----ATGGCAAC 77618  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGAGGGTTCTTGGTGACGAC 46023  
gi | 194719394 | ref | NC\_007316.3 | N TGATAATTCAACCT  
GGGTGTTTCGTAAGGCTGAGAGTTGATGGTGACGAC 59292  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAC 44595

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCTT--CTATA  
AACTGGTGTGTTGTTG--TACCAGGTTGCTGCAGCGT 70913  
gi | 114795057 | ref | NC\_006483.2 | N TTCTCTTTTCTATA  
AACTGATGTGTTGTTG--TACCAGGTTGCTGCAGCGT 77666

gi | 73957561 | ref | NW\_876316.1 | Cf TGGG-----CCATA  
TCCTCGGAG----- 46041  
gi | 194719394 | ref | NC\_007316.3 | N TTCTGTCTCCCATC  
AACTCTGACGTCTTCCTGTCCAGGTGCTGCAACGT 59342  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAAGTCATCTGCC  
CTCT----- 44613  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCTGTTCTGACA  
AGACGGGGACTCTGACTGCCAATGAAATGACAGTGA 70963  
gi | 114795057 | ref | NC\_006483.2 | N TCTCTGTTCTGATA  
AGACGGGGACTCTGACTGCCAATGAAATGACAGTGA 77716  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-TCAGGGGTCACAGTGGCCCAAAGAGAGGATCTAGA 46076  
gi | 194719394 | ref | NC\_007316.3 | N CATCTGTTCCGATA  
AGACGGGGACTCTGACTGCCAACGAAATGACTGTCA 59392  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---CTGTGTGACAGGCAGCCTCCAGGAAGTCAGAGT 44646

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCAGCTTGTAACG  
TCAGATGGGCTTCGTGCCGAGGTGAGTGCCAAAGGA 71013  
gi | 114795057 | ref | NC\_006483.2 | N CCCAGCTTGTAACG  
TCAGATGGGCTTCGTGCCGAGGTGAGTCCCAAAGGA 77766  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCCTCTGTAATCA  
TCC-----CTGCCTGCCAGAAAGGCTTTATTTT-A 46119  
gi | 194719394 | ref | NC\_007316.3 | N CCCAACTCGTAACA  
TCTGATGGGCTCCATGCCGAGGTGAGTCCATGTG-A 59441  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCTCCTCCCA  
GCAG----TCCTCCTCTCACATGGGTCCTGCTG-- 44690  
\* . . \*

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTTACAAGCCTTA  
AGG-----ATGCACCCAGCCAGGCTGTCTCCTTTTCT 71058  
gi | 114795057 | ref | NC\_006483.2 | N ATTTACAAGCCTTA  
AAG-----ATGCACCCAGCCAGGCTGTCTCCTTTTCT 77811  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTTTTGTAGTTTTTA  
AG-----ATTTTATTTATTC 46148  
gi | 194719394 | ref | NC\_007316.3 | N ATTCATAAGGTTTG

AGACCAAGGAGTGCCCTGCCAGACCTTTATCTTCTC 59491  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTTCTCTCCCTTC 44704

gi | 51473102 | ref | NT\_010498.15 | \_ AACTAAGCACACA  
ATGTCTTCTAGAACACAATAAGGAAGAAATAAATTG 71108  
gi | 114795057 | ref | NC\_006483.2 | N AGACAAAGCACACA  
ATGTCTTCTAGAACACGATAAGGAAGAAATAAATTG 77861  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGAGATACACAGA  
GAGAG---CGGCAGAGACATAGGCAGAGAGAGAAGC 46195  
gi | 194719394 | ref | NC\_007316.3 | N AGAGAAAGCACACA  
AAGTCTTCCAGAAAACAATAAGGAAGACATAAATGT 59541  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCTCAGCCCCCTC  
AGCTCCAGCCTTACAGATTCAGGAACAAAGTCAG-- 44752

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGTCATCTTATAA  
TCTCCTTGCTAACATGACTGATTTTGTTTTAAATCA 71158  
gi | 114795057 | ref | NC\_006483.2 | N GGGTCATCTTATAA  
T--CCTTGCTAACATGACTGATTTTGTTTTAAATCA 77909  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGCTCCGG-----  
----- 46204  
gi | 194719394 | ref | NC\_007316.3 | N GGGTTATTGGACAG  
TTTCCTTGCCATTAATAACAAATAGC----- 59580  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCCCATACTTCCTT  
TTAATAGATATGACCAATTTAAGGTAGCCTCCTTTT 71208  
gi | 114795057 | ref | NC\_006483.2 | N TCCCATGCTTCCTT  
TTAATAGATATGACCAATTTAAGGGAGCCTCCTTTT 77959  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTAGTTACTTATTA  
ATTATAAGCACATTGCAAAATTTAAAAGCTAGAAAA 71258  
gi | 114795057 | ref | NC\_006483.2 | N TTAGTTACTTATTA  
ATTATAAGCACATTGCAAAATTTAAAAGCTAGAAAA 78009  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATCTTCCATACCT  
TCCACGATAAACTAACCGTGATTAGTCCATTTGTGG 71308  
gi | 114795057 | ref | NC\_006483.2 | N AATCTTCCATACCT  
CCCACGATAAACTAACCGTGATTAGTCCATTTGTGG 78059  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTGTTTGTGGTT  
TGTGAGAGACAGAGTCTTGCTCCGTCACCCAGGCTG 71358  
gi | 114795057 | ref | NC\_006483.2 | N TTTGTTTGTGGTT  
TTTGAGAGACAGAGTCTCCCTCTGTCACCCAGGTTG 78109  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAATGCAGTGGCTG  
ATCTCTGCTCACTGTAACCTTCACTTCTCGGGTTCA 71408  
gi | 114795057 | ref | NC\_006483.2 | N GAATGCAGTGGCTG  
ATCTCTGCTCACTGCAACCTTCACTTCTCGGGTTCA 78159  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGACTCTCCTGC  
CTCAGCTTCCCAAGTAGCTGGGACTACAGGCATGCC 71458  
gi | 114795057 | ref | NC\_006483.2 | N AGCGACTCTCCTGC  
CTCAGCTTCCCAAGTAGCTGGGACTACAGGCATGCC 78209  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTAATACGCCGAGC  
TTATTTTTGTATTTTCTAGTAGAGACGGGGTATCAC 71508  
gi | 114795057 | ref | NC\_006483.2 | N CTAATATGCCGAGC  
TTATTTTTGTATTTTCTAGTAGAGACGGGGTATCAC 78259  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TATATGTTGGCCAG  
GCTGGTCTCAAACCTCCTGACCTCAGGTGATCCGCC 71558  
gi | 114795057 | ref | NC\_006483.2 | N TATATGTTGGCCAG



GCTGGTCTCAAACCTCCTGACCTCAGGTGATCCGCC 78309  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGGAGAG  
CCTGATGCAGGACT--CGTTCCCGGG----- 46235  
gi | 194719394 | ref | NC\_007316.3 | N -----AAGAGCATG  
ACTGATGGAAGGCAGCCACCCCTGG----- 59615  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGTCACC  
CCTGGAGGGCTGAGCTCAGCCCCAGTG----- 44786

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCTTGGCCTCCCA  
GAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCA 71608  
gi | 114795057 | ref | NC\_006483.2 | N GCCTTGGCCTCCCA  
GAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCA 78359  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATCCAGGAT-CACA 46249  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTGGCATGACGCTAC 59630  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAGCAGAGAAGTGGC 44801

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCTGTTTTATTTT  
TTAAGCCAGGGTCTTGCTGTGTCGCCCAGGTTGCAG 71658  
gi | 114795057 | ref | NC\_006483.2 | N GCCTGTTTTATTTT  
TTTACACAGGGTCTTGCTGTGTCGCCCAGGTTGCAG 78409  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCTGGG-----  
----- 46256  
gi | 194719394 | ref | NC\_007316.3 | N ACCTGGTGGTTT--  
----- 59642  
gi | 149361523 | ref | NC\_000074.5 | \_ CATTGTT-----  
----- 44808

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCAGTGGTGCAAT  
CATGGCTCACTGCAGCCTCTAACTTCTGGGCTCAAG 71708  
gi | 114795057 | ref | NC\_006483.2 | N TGCAGTGGTGCTGT  
CATGGCTCACTGCAGCCTCTAACTTCTGGGCTCAAG 78459  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
----GCACACTGTCCGCGGTTTCCTTTTCACACGCCA- 59673  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ GGATCCTCCCACCT  
CAGCCTCCCAAGTCCTTGCGTGTTTTTCAGTGTCT 71758  
gi | 114795057 | ref | NC\_006483.2 | N GGATCCTCCCACCT  
CAGCCTCCCAAGTCCTCCCGTGTTTTTCAGTGTCT 78509  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCA 46259  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ACCA 59677  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CATGCTT 44815

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCGTGCTTGGCG  
TAATTGGAAGCTCTCTGAATGTGCAATTTTTTTATC 71808  
gi | 114795057 | ref | NC\_006483.2 | N CTGTGTGCTTGGTG  
CGATTGGAAGCTCTCTGAATGTGCAATTTTTTCTATC 78559  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGAG-----  
-----CCACCCAGG----- 46273  
gi | 194719394 | ref | NC\_007316.3 | N CTGAGTGACTG---  
-----CGACTCAGATTGTATGGGCTTCAAAGG 59715  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----  
-----TCAGTT----- 44823

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGATATTTTTTCT  
ACAAAAGTGGCCAAACCAAGGGGTGAACAGGTGATG 71858  
gi | 114795057 | ref | NC\_006483.2 | N CTGATATTTTTTCT  
ACAAAAGTGGCCAAACCAAGGGGTGAACAGATGATG 78609  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CATCCTCA  
GAAAGGCT----- 46289  
gi | 194719394 | ref | NC\_007316.3 | N CTAAAACATTTGCT  
GTCTGGCT----- 59737  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCTTATCT

AGATCTCG----- 44839

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gi | 51473102 | ref | NT\_010498.15 | \_ GTCCATGGGCCAGT  
GCTTGTTTGAAAATAAAGTTTCCTTGGTGTACCACC 71908  
gi | 114795057 | ref | NC\_006483.2 | N GTCCATGGGCCAGT  
GCTTGTTTGAAAATAAAGTTTCCTTGGTGTACCACC 78659  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTAAAGAGA----- 46298  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTATAACAAGCTTG-----TCC 59754  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCCTCCCTAAGCTTG----- 44854

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gi | 51473102 | ref | NT\_010498.15 | \_ ACACCCATTTGTGT  
ACATATTGCCAATGGCTGCTTTCATGCCTCAGTGTG 71958  
gi | 114795057 | ref | NC\_006483.2 | N ACACCCATTTGTGT  
ACATATTGCCAATGGCTGCTTTCATGCCTCAGTGTG 78709  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N ACCCCCATTC-----  
----- 59764  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCGCAACGGCAGAG  
CTGAGTAGCCACGACAAAGGTGGTATGGGCTGCAAA 72008  
gi | 114795057 | ref | NC\_006483.2 | N CCGCAACGGCAGAG  
CTGAGTAGCCACGACAAAGGTGGTGTGGGCTGCAAA 78759  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTAACACGTTTA  
CCCAGCGCTGTTCTTGGAATAGAAGCACTCTTCTAT 72058  
gi | 114795057 | ref | NC\_006483.2 | N GGCTAACACGTTTA  
CCCAGCGCTGTTCTTAGAATAGAAGCACTCTTCTAT 78809  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TAGAACATAAGCAGTCTTATAT 59786  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTAGTTCTTAGTT  
TTCTTAACCATCACTTGTACTGGCTGCAGAGTATCC 72108  
gi | 114795057 | ref | NC\_006483.2 | N GCTAGTTCTTAGTT  
TTCTTAACCGTCACTTGTACTGGCTGCAGAGTATCC 78859  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGCCTGCAGG----- 46308  
gi | 194719394 | ref | NC\_007316.3 | N GCTACTATTTGGTC  
TTCACAGCCATAGTTTTTACTGACTGCAAG----- 59830  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTGCTGCAGA----- 44864

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gi | 51473102 | ref | NT\_010498.15 | \_ CACTGAGTCAACTT  
GCTGCAACTTACTCATGCCTGGTACTGTGTCCATCC 72158  
gi | 114795057 | ref | NC\_006483.2 | N CACTGAGTCAACTT  
GCGGCAATTTACTCATGCCTGGTGTGTGTCCATCC 78909  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACGCCTGGGTGGCTCAGCGGTTGAGC 46334  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ACGCCCTG-TTGCAATACTGAAGTGC 59855  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACACTTCCATAAAAGCCTGTGGCT 44888

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGACGTATCCAAT  
TAATCAATAATCTTTCAGAGAACATCTTCATACTGA 72208

gi | 114795057 | ref | NC\_006483.2 | N ATGACGTATCCAAT  
TAATCAATAATCTTTTCAGAGAACATCTTCATACTGA 78959  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCTGCCTTCACCT  
CAGGTCATGATCCT---GGGGTCCTGG---GATCG 46377  
gi | 194719394 | ref | NC\_007316.3 | N ACTGGGTGTCCGAT  
GAATACTTAGTTCTGCAGGGGACACGGTCATGCTTG 59905  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGTGATGTCTGCT  
CAACCTCCTGTGTG---TAGTCACCGCCACTCTCC 44934

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCCCTGTCCACG  
TTTAGGATTGTGTCCCTGGAATGGATCCCCAGGACA 72258  
gi | 114795057 | ref | NC\_006483.2 | N AAGCCCTGTCCACG  
TTTAGGATTATGTCCCTGGAATGGATCCCCAGGACA 79009  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTCCCACGTCAGG  
-----CTCTCCACATGG--AGCCTGTTCTCCCT 46417  
gi | 194719394 | ref | NC\_007316.3 | N AAGCCTTGCTCGTG  
GTGGGACCCTGTCCTCAAGGGTAGACCCTCCCCCA 59955  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCGCCAGAGCATG  
GTG-----TCACTCCAAGTAGAGACCCTACTAGCG 44978

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGATTG---TGGG  
CCAAGTGGGGGAGCATGTTTTTGGACTCTTGGCGAAA 72305  
gi | 114795057 | ref | NC\_006483.2 | N GAGATTG---TGGG  
CCAAGTGGGGGAGCATGTTTTTGGACTCTTGGCGACA 79056  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-CTGCCTG-----TGTCTCTGCCTCTCT----- 46439  
gi | 194719394 | ref | NC\_007316.3 | N GAAAAAAGATAGTG  
CCAGCCAGGGAAGCGACTCTGCCTCCCAGGGA-CAC 60004  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
-TCACTGCCACCCACCCACCCACCTCAG----- 45007

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTTTCTTCTGCC  
TCGCCCTGCAGGTCAGCGGAGTTGGGTATGACGGTC 72355  
gi | 114795057 | ref | NC\_006483.2 | N CCCTTTCTTCTGCC  
TCGCCCTGCAGGTCAGCGGAGTTGGGTATGACGGTC 79106  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----CT 46441  
gi | 194719394 | ref | NC\_007316.3 | N CCCTATCTGCGGCT  
TTGCCCTGCAGGTCAGCGGAGTTGGCTACAACGGCA 60054  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACCC 45011

gi | 51473102 | ref | NT\_010498.15 | \_ AAGGGACTGTGTGT  
CTTCTACCATCCAAGGAAGTCATTAAGGAATTTTCC 72405  
gi | 114795057 | ref | NC\_006483.2 | N AAGGGACTGTGTGT  
CTTCTACCATCCAAGGAAGTCATTAAGGAATTTTCC 79156  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGTGTGTGTCTGT  
AATGAATAAATAAATAAAATCTTAACAAAG----- 46485  
gi | 194719394 | ref | NC\_007316.3 | N ATGGGACTGTCTGC  
CTTTTACCTCCAAGGAAGTCATTAAGCAGTTTCC 60104  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGCCACCTGTGC  
CAGGTGCTCCGCTATGACAGCTTCAGGGAG----- 45055  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATGTCTCAGTGGG  
AAAGTTAGTGGAGGTAGGTGTCAAAGCGCCATGAG 72455  
gi | 114795057 | ref | NC\_006483.2 | N AATGTCTCAGTGGG  
AAAGTTAGTGGAGGTAGGTGTCAAAGCGCCATGGG 79206  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGAGAG  
AGAGAGAGAG-----AGAGAGATGCC-- 46512  
gi | 194719394 | ref | NC\_007316.3 | N AACGTCTCGGTGGG  
GAAGTTAGTGGAGGTAAGCATCAAGAGTGCCGCGGT 60154  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAGCACTCCTCCT- 45068

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAATAGGCATTT  
ACATTGAGGCTTCTGGGGCTCCTCTCTGAAAAGG-- 72503  
gi | 114795057 | ref | NC\_006483.2 | N GGAAATAGGCATTT  
ACATTGAGGCTTCTGGGGCTCCTCTCTGAAAATGGC 79256  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----TGAATAGAGAAGGTGCTTGATGAATGTTGGAA 46544  
gi | 194719394 | ref | NC\_007316.3 | N GGAGATAAACACGC  
GCCTTGAACAGAGCTGATGGGTTCTGTCTGCAGATA 60204

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AAGCCATTTCTATCCTGGTGGTACAGGCC 45098

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gi | 51473102 | ref | NT\_010498.15 | \_ GAAACAGCCATTGA  
ACCTACTGGTTCTTGACAATGACTGGCCCATCCAGG 72553  
gi | 114795057 | ref | NC\_006483.2 | N TATTTAGCCATTGA  
ACCTACTGGTTCTTGACAATGACTGGACCACCCAGG 79306  
gi | 73957561 | ref | NW\_876316.1 | Cf AATGAGCCTGTT--  
-TTGACTGTCAATATGAGTAGTATGAGCCATAACT- 46590  
gi | 194719394 | ref | NC\_007316.3 | N GAGACGGCAGTTGG  
ACCGACTGGTTCTTGGTGACAACCGGGCCACACCC- 60253  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCATCCCGAGAG  
ATGCACTG-CAATCGCCGCAATCATTGCAATGCAG- 45146

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGAGGCTGGCAC  
AGCACTGAAAAAATGGCCTCAAAAGTGATGGAGACA 72603  
gi | 114795057 | ref | NC\_006483.2 | N GGTGAGGCTGTCAC  
AGCACTGAAAAAATGGCCCCAAAAGTACGGAGACA 79356  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGG---  
----- 46594  
gi | 194719394 | ref | NC\_007316.3 | N -----CAGGGGT  
CAGGTTATGGAAACGGCCAGATAGAGATGGAGAGG 60296  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGAAGTAAGACG  
ACAGCTAGGCTGGGCACAGTGGCTAATGCCCGTTAT 72653  
gi | 114795057 | ref | NC\_006483.2 | N TCAGAGGTAAGAGG  
ACAGCTAGGCTGGGCACAGTGGTTAATGCCCGTCAT 79406  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N TGGGAGGTCAGGGA  
AGGACTGGGAG-----CCCCTGCTCCTGCT 60335  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----A 45147

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gi | 51473102 | ref | NT_010498.15 | _          CCCAGCACTTTGGG
AGGCCAAGGCAGGAGAATCACTTGAGGCCAGGAGTT 72703
gi | 114795057 | ref | NC_006483.2 | N          CCCAGCACTTTGGG
AGGCCAAGGCAGGAGAATCACTTGAGGCCAGGAGTT 79456
gi | 73957561 | ref | NW_876316.1 | Cf          ----CCTCCCACAT
G-----CCGAGTG----- 46612
gi | 194719394 | ref | NC_007316.3 | N          GCTTGCTCCCTCCC
CGCACACCCCTGCATTCACCCGTGTT----- 60375
gi | 149361523 | ref | NC_000074.5 | _          GTTTTCTCTGGCAT
TG-----CGAGAG----- 45169

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gi | 51473102 | ref | NT_010498.15 | _          CGAGACCAGCCTGA
GCAACGTAGTGAGACCCTGTTTCTATTATTTTTTTTTT 72753
gi | 114795057 | ref | NC_006483.2 | N          CGAGACCAGCCTGA
GCAACGTAGTGAGACCCTGTTTCTATTATTTTTTTTTT 79506
gi | 73957561 | ref | NW_876316.1 | Cf          -----
-----CCCTTGTTG----- 46621
gi | 194719394 | ref | NC_007316.3 | N          -----
-----CCTTTCTTAGCTGTTTCTACTT 60397
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          AAAAAAATTATTTA
AAAAGAAGAGCTAGAAGCCTCTGTACTCATCACTGC 72803
gi | 114795057 | ref | NC_006483.2 | N          --AAAAATTATTTA
AAAAGGAGAGCTAGAAGCCTCTGTACTCATCACTGC 79554
gi | 73957561 | ref | NW_876316.1 | Cf          -----GT
CCAAATCGAGCCATTGTCTAACGAGCTCATAG---- 46655
gi | 194719394 | ref | NC_007316.3 | N          TTTCAGTTATTATT
TTAAATTGAGCAATAGATCACCTGCCACAGAATTCA 60447
gi | 149361523 | ref | NC_000074.5 | _          -----A
ACTGCAAGTTCAAGGCCAGCCTGGGCAACTTAGCCA 45206

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gi | 51473102 | ref | NT_010498.15 | _          CCACTGGGAAGGCT

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gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAGCCATCTAATTTTCAGGACACTTTG 46707  
gi | 194719394 | ref | NC\_007316.3 | N CACAGTGTGTTTCGC  
GAGGTGGTCACCACAGTCTGATCCCAAGACCCTTCG 60525  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAAATGTAAAATCAAAAACTAAA 45240

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTCTGTACAGTT  
CAGTGAGCGCCACTTGCAAAGGACCTGCCTCCAGGG 73053  
gi | 114795057 | ref | NC\_006483.2 | N TCCTCTGTACAGTT  
CAGTGAGTGCCACTTGCAAAGGACCTGCCTCCAGGG 79799  
gi | 73957561 | ref | NW\_876316.1 | Cf TCG-----  
-----TGGAAAACCAT--ACCTATTA 46729  
gi | 194719394 | ref | NC\_007316.3 | N TCACCC-----  
-----TGATTAGAAGGCTGTGTCCCCGTCA 60556  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTAAG-----  
-----TCTGGGGTACGGTTTCGGTGG 45266  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCCACTTCACTATC  
ACAGCAAACGCTGTCTTGGTTTTGCAGATTAAAAAT 73103  
gi | 114795057 | ref | NC\_006483.2 | N GCCACTTCACTATC  
ACAGCAAACGCTGTCTTGGTTTTGCGGATTAAAAAT 79849  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAATCACTCTATC  
-----ACCCAGCCTC----- 46754  
gi | 194719394 | ref | NC\_007316.3 | N GCGGGGCCTCACAC  
GCGTGACCCCCAGTCTG----- 60587  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGAAGCCTTG---  
----- 45277  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAAAAATATGACCA  
GGCGTGGTGGCTCATGCCTATAATCCCAGCACTTTG 73153  
gi | 114795057 | ref | NC\_006483.2 | N CAAAAATATGACCA  
GGCGTGGTGGCTCATGTCTATAATCCCAGCACTTTG 79899  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGCCAAGGCGG  
GTGGATCACCTGAGTTCAGGAGTTCAAGACCAGCCT 73203  
gi | 114795057 | ref | NC\_006483.2 | N GGAGGCCAAGGCAG  
GTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCT 79949  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCTGCCT 46761  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCTGCCT 60594  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAGCAT 45285

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCCACGTGGTGA  
AACCCCATCTCTACTAAAAATATAAAAATTAGCTG 73253  
gi | 114795057 | ref | NC\_006483.2 | N GGCCCACGTGGTGA  
AACCCCATCTCTACTAAAAATATAAAAATTAGCTG 79999  
gi | 73957561 | ref | NW\_876316.1 | Cf G-CCCCCT-----  
----- 46768  
gi | 194719394 | ref | NC\_007316.3 | N T-CCCACT-----  
----- 60601  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
----- 45286

gi | 51473102 | ref | NT\_010498.15 | \_ GGCATGGTGGCACA  
CACCTGTAGTCCCAGCTACTCAGGAGCCTGAGACAG 73303  
gi | 114795057 | ref | NC\_006483.2 | N GGCATGGTGGCACA  
CACCTGTAGTCCCAGCTACTCAGGAGCCTGAGACAG 80049  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATGA----- 46772  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTCAGTCCT 60610  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGAATTGCCTTGA  
ACCAGGGAGGCAGAGGTTGCAGTGAGCTGAGGTCAT 73353  
gi | 114795057 | ref | NC\_006483.2 | N GAGAATTGCCTTGA  
ACCAGGGAGGCAGAGGTTGCAGTGAGCTGAGGTCAT 80099  
gi | 73957561 | ref | NW\_876316.1 | Cf -----T  
ATAAG-----CTTACAAGGGTCTTTG----- 46794  
gi | 194719394 | ref | NC\_007316.3 | N TAGGATGGCTTTGT  
GACAG-----CTAGCATTCTGCTGAG----- 60645  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TGAGAGGCGCTGAG----- 45300

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCACTGCACTCCA  
CCCTGGGTAATAGAATGAGACTCCATCTCGAATGAA 73403  
gi | 114795057 | ref | NC\_006483.2 | N GCCACTGCACTCCA  
GCCTGGGTAATAGAGTGAGACTCCATCTCGAGTGAA 80149  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGAATGAATGAAAC  
AAAAATATGCAAACTAGTAATAATAAAAAAGAAAA 73453  
gi | 114795057 | ref | NC\_006483.2 | N TGAATGAATGAAAC  
AAAAATATGCAAACTAGTAAGTAATAATAG-AAAA 80198  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TAAG----- 46798  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TCAGTAAA 60653  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAAAGAAATGGGC  
AGAGAAGTAATGCGAGTGTCCAGGCTCACCAGGCCG 73503  
gi | 114795057 | ref | NC\_006483.2 | N GAAAAGAAATGGGC  
AGAGAAGTAATGCGAGTGTCTAGGCTCACCAGGCCG 80248  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GATCA 46803  
gi | 194719394 | ref | NC\_007316.3 | N TTATTGAGTTGGCC  
GAAAAGTACATTCAAATGTGATGAAAAACCTGAAC 60703  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGGAAGAGCGC  
TGGGAATCCCCTCTTTTTGCTTGTCTCTTTTTCAT 73553  
gi | 114795057 | ref | NC\_006483.2 | N GGAAGGAAGAGCGC  
TGGGAATCCCCTCTCTTTGCTTGTCTCTTTTTCAT 80298  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
----- 46804  
gi | 194719394 | ref | NC\_007316.3 | N G-----  
----- 60704  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTAAATATTTA  
TGTATAAATTGAGGTAGAAGTCATCTACCATGAATT 73603  
gi | 114795057 | ref | NC\_006483.2 | N TTTTAAATATTTA  
TTTATAAATTGAGGTAGAAGTCATCTACCATGAATT 80348  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGCTCAGAAGTCAG 46818  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AACTTTCTGGTCAA 60718  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTCCAGTCCTG 45311

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCCCGTTAAAGT  
GCACAATTCAGTGGTTTCAATTTGTTTCAACAAGTTGT 73653  
gi | 114795057 | ref | NC\_006483.2 | N CACCCCGTTAAAGT

GCACAATTCAGTGGTTTGAATATGTTTCACAAGTTGT 80398  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAATATTTATGGT  
GTTTGTTTTG-----AAGAGCGG 46850  
gi | 194719394 | ref | NC\_007316.3 | N CCCAGTGTTACTGT  
GTGGCTTTTG-----CACTGTGG 60750  
gi | 149361523 | ref | NC\_000074.5 | \_ AGTGTGGGGGAGGG  
GAGGGGAGCA-----CACACCTGTG 45345

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAAACCTTCACCAC  
TGTCTAGAATACTTTGTCACCCCAAGTGGAATGCC 73703  
gi | 114795057 | ref | NC\_006483.2 | N GCAACCTTCCCCAC  
TGTCTAGAATACTTTGTCACCCCAAGTGGAATGCC 80448  
gi | 73957561 | ref | NW\_876316.1 | Cf GGACTCTGATGTAT  
TTTGAAGAGTAAATC-----46879  
gi | 194719394 | ref | NC\_007316.3 | N GGACTCTGGCACAT  
TTTGAAGAGTAAAT-----60778  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTCTGGGTCAC  
TGGCTGATTTAAAGG-----45374

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCATCCCCATTAT  
CGGTTCGCTCCCCGTTACCCACACTCGTCACCACCC 73753  
gi | 114795057 | ref | NC\_006483.2 | N ATCATCCCCATTAT  
CGGTTCGCTCCCCGTTACCCACCCTCGTCACCATCC 80498  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
TTGTCCCTCGCCCCACCCCAAGCCC-----46905  
gi | 194719394 | ref | NC\_007316.3 | N -----  
TCGTCCCTCCCTCCCACCCAG-----60800  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACACTCTCATAGCCTGG-----45391

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCACCTGCCTCC  
CTGCTGGGTTCCCTCATGATAACTTTATGGGAACCA 73803  
gi | 114795057 | ref | NC\_006483.2 | N GTCCACCTGCCTCC  
CTGCTGGGTTCCGTCATGATAACTTTATGGGAACCA 80548  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCATCCCCA  
ACATGGG-----TCAA 46925

gi | 194719394 | ref | NC\_007316.3 | N -----CCCCAA  
AAACTGG-----TCAA 60817  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCCAG  
CGGTAAGG-----CCAT 45408

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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTCAGCACAGC  
CAAGAAATAGTCACGATGTTTCTTTTAAAAAGCCGG 73853  
gi | 114795057 | ref | NC\_006483.2 | N ACATTCAGCACAGC  
CAAGAAATAGTCACGATGTTTCTTTTCAAAAGCCGG 80598  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTTCAGCATG--  
-----TGACTTTTCCACATGCCTG 46956  
gi | 194719394 | ref | NC\_007316.3 | N GCCTTCAGGGCT--  
-----GGACCTTTTCACATGCCTG 60848  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCTGCAGGGCC--  
-----CAGCCTTTTCATGGTGCGAG 45440

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gi | 51473102 | ref | NT\_010498.15 | \_ GACGCTGAGTTGTT  
TTAAAGAGCAAGTCTTGTCCCCACAACCCCAGCTGT 73903  
gi | 114795057 | ref | NC\_006483.2 | N GACGCTGAGTTGTT  
TTAAAGAGCAAGTCTTGTCCCCGCAACCCCAGCTGT 80648  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTGAG-----  
-----CCCAG--GCTCAAGG-- 46975  
gi | 194719394 | ref | NC\_007316.3 | N AGCGCG-----  
-----CCCAGGACCCCGACG-- 60869  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAG-----  
-----CCCAGGG-- 45451

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAATGGGACAGG  
CCCACAATGTCTAACTTTTTTCATGAGCCCAGTACTA 73953  
gi | 114795057 | ref | NC\_006483.2 | N AAAAATGGGACAGG  
CCCACAATGTCTAACTTTTTTCATGAGCCCAGTACTA 80698  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GTGCCAG-  
-----CTCCAAATAGTA 46994  
gi | 194719394 | ref | NC\_007316.3 | N -----GGTGCAG-  
-----CTCCAAATACTA 60888  
gi | 149361523 | ref | NC\_000074.5 | \_ ----TGGGTGCTG-

-----CTTCCAATACTG 45473 \* \*:\*  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTACAGATGTCCG  
GACAATCCCCTTT-----TAGGCGGGCTGTGTTGC 73997  
gi | 114795057 | ref | NC\_006483.2 | N ACTACAGATGTCCG  
GACAATCCCCTTT-----TAGGCGGGCTGTGTTGC 80742  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTACAGACCTTCG  
GAAATCCCCCCTT-----TCAGGCAGGCTGTGTGGC 47039  
gi | 194719394 | ref | NC\_007316.3 | N ACAAATGACCTTCA  
GAAACCCCTCCCTGCTTTGCAGGCAGGCTGTGTTGC 60938  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTGCAGATATTGC  
TACCCTCCCCACCT----TCAGGCAGGCTGCGTGGC 45519  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAACAATGCGGTCA  
TCAGAAAGAACGCCGTGATGGGGCAGCCCACCGAGG 74047  
gi | 114795057 | ref | NC\_006483.2 | N CAACAATGCGGTCA  
TCAGAAAGAACGCCGTGATGGGGCAGCCCACCGAGG 80792  
gi | 73957561 | ref | NW\_876316.1 | Cf CAACAACGCTGTCA  
TCAGAAAGAACACCGTGATGGGACAGCCCACGGAAG 47089  
gi | 194719394 | ref | NC\_007316.3 | N CAACAACGCCATCA  
TCAGAAAAAACACCGTGATGGGGCAGCCAACAGAGG 60988  
gi | 149361523 | ref | NC\_000074.5 | \_ CAACAACGCTGTCA  
TCAGGAAGAACGCCGTAATGGGGCAGCCCACAGAAG 45569  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCATTGATGGCC  
CTGGCGATGAAGGTAGGAGGTCCTGGGGTGGCTCTG 74097  
gi | 114795057 | ref | NC\_006483.2 | N GTGCATTGATGGCC  
CTGGCGATGAAGGTAGGAGGTCCTGGGGTGTCTCTG 80842  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCCCTGATTGCT  
CTGGCCATGAAGGTAGGG----- 47121  
gi | 194719394 | ref | NC\_007316.3 | N GCGCCTTGGTGGCC  
CTGGCAATGAAGGTAGGAG-GTCTGTGCTGTCCGCG 61037  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGCCTTGGTGGTG  
CTGGCCATGAAGGTAAGAG-----GTCAGAA 45609  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGGGGAATTCTTTC  
GCTCGGGGCTGGATTCATTGGTAGAAAGCCAGCTCC 74147  
gi | 114795057 | ref | NC\_006483.2 | N CGGGGAATTCTTTC  
GCTCGGGGCTGGATTCATTGGTAGAAAGTCAGTTCC 80892  
gi | 73957561 | ref | NW\_876316.1 | Cf -ATGCCTTTTTTTTT  
TTTTTTTAAGATTTTATTT----- 47153  
gi | 194719394 | ref | NC\_007316.3 | N TGGGCAGTTCTTTC  
ACTGGGAGCCGGATTAGTAG----- 61071  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGGGTGTAGTGT  
CTTCTGTGACTCTCCACTTG----- 45643

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTCTGAGCTAACA  
GGAGTGGGGACGTTAGGTAATCATGGAAGAAAATGG 74197  
gi | 114795057 | ref | NC\_006483.2 | N TGTCTGAGCTAACA  
GGACTGGGGATGTTAGGTAATCATGGAAGAAAATGG 80942  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATTCATGAGAGACACAG- 47170  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CGGGATTCAAGGTCCTGTCTG- 61092  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTCCCTTGAGACAGGG- 45659

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCACACTGGCCTT  
GGGCCATCTGTTGGTGGTGGAGGAGGTGAGCTCTGA 74247  
gi | 114795057 | ref | NC\_006483.2 | N CCCAAGCTGGCCTT  
GGGCCATCTGTTGGTGGTGGAGGAGGTGAGCTCTGA 80992  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GATTCCACGGGACT  
TCAGCAAGTTCTGCAGGTCTCTAATCCCTCCACCAG 74297

gi | 114795057 | ref | NC\_006483.2 | N GATTCCACGGGACT  
TCAGCAAGTTCTGCAGGTCTCTAATCCCTCCACCAG 81042  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AGAGAGGTAG-----AGACACAGG 47189  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AGTGAGGCAG-----GTCCTCACG 61111  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TCTGCCAGGCTG-----GCAGCGAG 45679

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gi | 51473102 | ref | NT\_010498.15 | \_ CGATTCCAAAAGAA  
TCCTATGAGCTTCCCTGTGGTTCAGGCCCTGGTCAG 74347  
gi | 114795057 | ref | NC\_006483.2 | N CGATTCCAAAAGAA  
TCCTATGAGCTTCCCTGTGGTTCAGGCCCTGGTCAG 81092  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGATGGAGAGGCA  
AACTCCATGCAGGGAGCCCAATGCGGCACTTG---- 47235  
gi | 194719394 | ref | NC\_007316.3 | N TGGCCGGGTCTCTCT  
TCCTTAAAGGACACCAGTCATACCGGAATCAG---- 61157  
gi | 149361523 | ref | NC\_000074.5 | \_ CAG--GCTCCAGAA  
ATCTTCCTGTTACCCTCCCTATCC----- 45715

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTTGAGGCGACA  
GACAGTGGAACGAGACTCCCTATGCACCCAACACGA 74397  
gi | 114795057 | ref | NC\_006483.2 | N GTGTGAGGCGACA  
GACAGTGGAACGAGACTCCCTATGCACCCAACACGA 81142  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ATCCAGGACTCTGGGATCACGA 47258  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CTCCCCAGTGACCTCATCTTAA 61180  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAACAGCACAGGGGTGACAA 45736

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGTGCTCACCG  
AGGCACCACTGGGAGGGGCTGGTTCCTGGGAATGTA 74447  
gi | 114795057 | ref | NC\_006483.2 | N CCCTGTGCTCACCG  
AGGCACCACTGGGAGGGGCTGGTTCCTGGGAATGTA 81192  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTG-----TACTG

----- 47267  
gi | 194719394 | ref | NC\_007316.3 | N CATTGTCACACCTG  
C----- 61195  
gi | 149361523 | ref | NC\_000074.5 | \_ CACATG-----  
----- 45742  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCGATTGACTCCG  
GGGTTTCAGTGTTAGACCCTGAGCTCTGTGGCTGTGC 74497  
gi | 114795057 | ref | NC\_006483.2 | N TTCGATTGACTCTG  
GGGTTTCAGTGTTAGACCCTGAGCTCTGTGGCTGTGC 81242  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AAGGCAGATGCTCAACCACTGAGC 47291  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AAAGACCTTATTTCCACATCAGACC 61220  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CAACCACT----- 45750

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGGTTGCCCCAGG  
CCATTCTGTACCCAGCACCAGGTACCAAGTGGCTGC 74547  
gi | 114795057 | ref | NC\_006483.2 | N AGGGTTGCCCCAGG  
CCATTCTGTACCCAGCACCAGGTACCAAGTGGCTGC 81292  
gi | 73957561 | ref | NW\_876316.1 | Cf T-----  
-----ACCCAGGCACCCGGTA----- 47308  
gi | 194719394 | ref | NC\_007316.3 | N C-----  
-----CATCACAGGCCCTGGG----- 61237  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CACTGGCCTAGAA----- 45763

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gi | 51473102 | ref | NT\_010498.15 | \_ TTGCAGTGTGGAGG  
GGATGGGTGGGAGCTGATGGGGCCTGCTGCATTCT 74597  
gi | 114795057 | ref | NC\_006483.2 | N TTGCAGTGTGGAGG  
GGATGGGTGGGGCTGATGGGGCCTGCTGCATTCT 81342  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCTCAGAGGACA  
AGTTAGAAGAAGGAGAGGGCAGAAAACATGGGCTGGG 74647

gi | 114795057 | ref | NC\_006483.2 | N GTGCTCAGAGGACA  
AGTTAGAAGAAGGAGAGGGCAGAAAACATGGGCTGGG 81392

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATGCAGGTGACAG  
GAAAGCAAGGAGAAGAGAGGACAAAGGACATGGGAA 74697

gi | 114795057 | ref | NC\_006483.2 | N AATGCAGGTGACAG  
GAAAGCAAGGAGAAGAGAGGACAAAGGACATGGGAA 81442

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGAGGGGCCGGCA  
GAGGTTAAGAGGAGGGAGCAAAGGAAGGAAGAAGGT 74747

gi | 114795057 | ref | NC\_006483.2 | N AGGAGGGGCCGGCA  
GAGGTTAAGAGGAGGGAGCAAAGGAAGGAAGAAGGT 81492

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCCCGGTCAGCT  
CCCACGTCTGTTTCCATGGCCACTTGGCCTGGGTCC 74797  
gi | 114795057 | ref | NC\_006483.2 | N GGCCCCGGTCAGCT  
CCCACGTCTGTTTCCATGGCCACTTGGCCTGGGTCC 81542  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCCTCTTCAGCCA  
GAGCTGGGGCTCCCCTG-GACACTGTGGGAGCTCCT 74846  
gi | 114795057 | ref | NC\_006483.2 | N CTCCTCTTCAGCCA  
GAGCTGGGGCTCCCCTG-GACACTGTGGGAGCTCCT 81591  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
GGGATG---CTTCGATG-GTCTGTGCTGGGAGTTCT 47340  
gi | 194719394 | ref | NC\_007316.3 | N -----  
GAGTTAGACCTTCAATGTGTCTTTAGGGATACACGT 61273  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
GTTTTGGTTCTAGAGAG-----GGAAGAACT 45789

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCCCGACCCGCT  
CCGTGCTTTCTGCTGTGTGACTTGTCTCTGACTCGG 74896  
gi | 114795057 | ref | NC\_006483.2 | N TTCCCCGACCCGCT  
CCGCGCTTTCTGCTGTGTGACTTGTCTCTGACTCGG 81641  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCCT-----  
-----TGGGACTGAATTAG 47360  
gi | 194719394 | ref | NC\_007316.3 | N AACCCA-----  
-----TGACACCCTCTTCA 61293  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCA-----  
----- 45795

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTGATCAGAACC

CTCTCCATCAAGGTCAAGGGAAAAGCCCGACTCAGG 74946  
gi | 114795057 | ref | NC\_006483.2 | N GTCTGATCAGAACC  
CTCTCCGTCAAGGTCAAGGGAAAAGCCCGACTCAGG 81691  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CAG-----  
----AATTCGAG-----CTCATGTCTGG 47382  
gi | 194719394 | ref | NC\_007316.3 | N GTTCAGTCG-----  
--CTCAGTCAG-----TCCAACCTCTTT 61323  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCTCATCCCCCA  
GCACGGACCCCTCGCTGCCGCCGAGCCTGGCCCCTG 74996  
gi | 114795057 | ref | NC\_006483.2 | N GTGCTCATCCCCCA  
GCACTGACCCCTCGCTGCCGCCGAGCCTGGCCCCTG 81741  
gi | 73957561 | ref | NW\_876316.1 | Cf G----CAAATG--A  
GGAATGGGAAAGTTTAG-----TAA 47410  
gi | 194719394 | ref | NC\_007316.3 | N G----CAACCCCAT  
GGATTGCAGCATGCCAGGCCTC--CCTGTCCATCA 61366  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACTCACCCTCCCT  
TCCTGCTTCCTCCTGGACTTTGACCCTCCTGCCTG 75046  
gi | 114795057 | ref | NC\_006483.2 | N CACTCACCCTCCCT  
TCCTGCTTCCTCCTGGACTTTGACCCTCCTGCCTG 81791  
gi | 73957561 | ref | NW\_876316.1 | Cf TAATGGGAGAGAGT  
GGCCCCAAACATCCTCAGGCTG----- 47446  
gi | 194719394 | ref | NC\_007316.3 | N CCAACTCCCAGAGT  
TTACTCAAACCTCCTGTCCATTG----- 61402  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCCCACCCCAGG  
AGCCATGACAAACATTCCACTG----- 45831

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCACTGGCGAG  
TGCCGACTTTCTCTTCAAGTTCCTCCAGTTTCCAC 75096  
gi | 114795057 | ref | NC\_006483.2 | N TCCTCACTGGCGAG  
TGCCGACTTTCTCTTCAAGTTCCTCCACTTTCCAC 81841

gi | 73957561 | ref | NW\_876316.1 | Cf -TCACTGAGATGCC  
AGGTGGCTTTGGAACATTCTGTAGGCCTCTAACCCCT 47495  
gi | 194719394 | ref | NC\_007316.3 | N -AGTCAGTGATGCC  
ATCCAACCATCTCATCCTCTTTTGTCCCCTTCTCCT 61451  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAGTGGAA  
GCTCAGCCTTCTGCTTGGCCATTGTGAGTTTCTGGT 45875

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCAGCAGACACCT  
CTCCTCATCCCGGGCTCACTTCACTGCCTTGTATTT 75146  
gi | 114795057 | ref | NC\_006483.2 | N CCCAGCAGACACCT  
CTCCTCATCCCGGGCTCACTTCACTGCCTTGTATTT 81891  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCTGGCCATCCCA  
TAAGAATCCTTGGG----TGCCCCGTG---GCTCAG 47538  
gi | 194719394 | ref | NC\_007316.3 | N CCCACCTTCAATCT  
TCCCAGCATCAGGGTCTTTTCAAATGTCAGTTCTT 61501  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCAGAAGGCAAC  
AGCCTAAGAAAGGAG-----TAACAGTGTTAGG 45917

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGCTTACCTGTC  
CCATCACTGAGCACCAGGGCTCACTTCACTGCCTTC 75196  
gi | 114795057 | ref | NC\_006483.2 | N TCAGTTTACCTGTC  
CCATCACTGAGCACCAGGGCTCACTTCACTGCCTTC 81941  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCCTATGGAGGTG  
CCGG----GGAGATAGAGCAAGAAATGCAACCCGCC 47584  
gi | 194719394 | ref | NC\_007316.3 | N TGCATCAGGTGGCC  
AAAATATTGGAGTTTCAGCTTCAGCATCAGTCCTTC 61551  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGGCTGACTGATC  
CCCAT----AACCAAGGGGAAACGTTTGCCTCCCA 45963

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTTATCAGCTTAC  
CTGTCCCTCCCTCCAGTGCAAGACTCCAACCTCCCA 75246  
gi | 114795057 | ref | NC\_006483.2 | N TGTTATCAGCTTAC  
CTGTCCCTCCCTCCAGTGCAAGACTCCAACCTCCCA 81991  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGTGGCCCCCAG  
-----CCTCCCTCCAGGAAAG----- 47614  
gi | 194719394 | ref | NC\_007316.3 | N CAATGAATATTCAG

GACTAATTTTCCTTTAGAAATGG----- 61586  
gi | 149361523 | ref | NC\_000074.5 | \_ CAATGGAAGTGAGG  
AAG--ATTACGTCTGGAGTGG----- 45996

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCACTGCCTTCC  
CAAAGCTGGTGCTGGGCGGGGAGAGGTGGTCGCC 75296  
gi | 114795057 | ref | NC\_006483.2 | N CACCACTGCCTTCC  
CAAAGCTGGTGCTGGGCGGGGAGAGGTGGTCGCC 82041  
gi | 73957561 | ref | NW\_876316.1 | Cf -ACCCCTT-----  
CCTTTTAGTGTATTTGACTGATTGTAGGGCTCCGCA 47657  
gi | 194719394 | ref | NC\_007316.3 | N -ACTGGTTGGATCT  
CCTTGTAGTCCAAGGACTCTCAAGTGTCTTCTCCA 61635  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGCAGATCTTTTAGGGGGTCTCTCGG 46022

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCATAAGCCCCC  
GTGTTGGTAGATCAGGTGCTTTTCCCCAGTGTAAGA 75346  
gi | 114795057 | ref | NC\_006483.2 | N TCTCATAAGCCCCC  
GTGACGGTAGATCAGGTGCTTTTCCCCAGTGTAAGA 82091  
gi | 73957561 | ref | NW\_876316.1 | Cf G----TCAGACCCT  
GAGTCTGG-----AACTTGGCAGAAATGCCT 47693  
gi | 194719394 | ref | NC\_007316.3 | N ACACCACAGTCCAA  
AAGCATCAA-----ATCTTCGGCGCTCAGCTT 61676  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCTACCGTGTCTCT  
GTGATTAAAG-----TCAATGGAAAAT- 46059

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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTGGAAAGTCA  
TTACAGGCTGAGTGCAGTGGCTCAAATCCCAGCACT 75396  
gi | 114795057 | ref | NC\_006483.2 | N ACATTGGAAAGTCA  
TTACAGGCTGAGTGCAGTGGCTCAAATCCCAGCACT 82141  
gi | 73957561 | ref | NW\_876316.1 | Cf CCATT-----  
-----CTGTGCCCAGTTCCAGGTGC 47718  
gi | 194719394 | ref | NC\_007316.3 | N TCTTT-----  
-----ATAGTCCAATCTCACATCC 61701  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ACAACAGCCTTATCC 46074



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gi | 51473102 | ref | NT\_010498.15 | \_ TTAAGAGGCTAAGG  
CGGGAGGATCATTTGAGGCCAAGAGTTTGAGACCAG 75446  
gi | 114795057 | ref | NC\_006483.2 | N TTAAGAGGCTAAGG  
CAGGAGGATCATTTGAGGCCAAGAGTTTGAGACCAG 82191  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAATGGTGATGGG  
TGGTGGGCTGG---TGGGGTGCCAG-----AGCTGT 47760  
gi | 194719394 | ref | NC\_007316.3 | N ATACGTGACTACTG  
GAAAAACCATAGCTTTGACTAGATG-----GACCTT 61746  
gi | 149361523 | ref | NC\_000074.5 | \_ AGACAGGAGGACAA  
AGGACACCGATGCTTCGGGAATGAAG----- 46114

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGGCAACATAG  
CGAAAACCCATCTCTACAAAAAATATAAAAATTAGC 75496  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGGCAACATAG  
CGAAACCCCATCTCTACAAAAAATATAAAAATTAGC 82241  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTGGAGACCAAAC  
TGGTTCTGCTCCTGGAACAAGAG----- 47797  
gi | 194719394 | ref | NC\_007316.3 | N TGTTGGCAAAGTAA  
CGTGTCTGCTTTTTAATATGCTG----- 61783  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GTGC  
GGGTCCTCTGCCAGGAAAAGAG----- 46141

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGCATGGTGGTG  
CATGCCTGTGGTCCCAGCTACTCAGGAGGCTGAGGC 75546  
gi | 114795057 | ref | NC\_006483.2 | N TGGGCATGGTGGTG  
CATGCCTGTGGTCCCAGCTACTCAGGAGGCTGAGGC 82291  
gi | 73957561 | ref | NW\_876316.1 | Cf ---AAATG-----  
-AGACCTTT-----TTTCCTTGG-----TGGGA 47824  
gi | 194719394 | ref | NC\_007316.3 | N ---TCTAGGTTGGT  
CATAACTTT-----TCTCCAAGGAGCAAGCGT 61822  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGAGGATCCCTTG  
AGCCCAGGAGTCTGAGGCTGCAATGAGCTATGATCA 75596  
gi | 114795057 | ref | NC\_006483.2 | N AGGAGGATCCCTTG  
AGCCCAGGAGTCTGAGGCTGTAATGAGCTATGATCA 82341  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTTGGAAAGCAAG  
-----TGGCCTTTTTCTGTGAG----- 47855  
gi | 194719394 | ref | NC\_007316.3 | N CTTTTAATTCATG  
GCTGCAGTCGCCATCTGCAGTGATTTTATAGCCCGC 61872  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CACCACTGCACTCC  
AGTCTAGATGAGAGAGATCCTGCCTCAAAAAAAAAA 75646  
gi | 114795057 | ref | NC\_006483.2 | N CACCACTGCACTCC  
AGTCTAGATGACAGAGATCCTGCCTCAAAAAAAAAA 82391  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CTACAT----- 47861  
gi | 194719394 | ref | NC\_007316.3 | N CCAAATAAAGTCTC  
TGACTGTTT----- 61895  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAAAAAAAAAAACA  
AAAAGATTGGGCACAGTGGCTCACACCTGTAATCGC 75696  
gi | 114795057 | ref | NC\_006483.2 | N AA-----AACA  
AAAAGATTGGGCACAGTGGCTCACACCTGTAATCGC 82433  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCTTGGATTTCTCATCAG----C 47880  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCATTGTTTCCCCTATCTATTTGC 61918  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCAAGACCTGCTGAGGTGCTTGC 46164

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gi | 51473102 | ref | NT\_010498.15 | \_ AACACTTTGGGAGA  
CCGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCAA 75746  
gi | 114795057 | ref | NC\_006483.2 | N AACACTTTGGGAGA

CCGAGGCGGGTGGATCACCTGAGGTCAGGAGTTGAA 82483  
gi | 73957561 | ref | NW\_876316.1 | Cf CACAAATGGTTTG-  
----- 47893  
gi | 194719394 | ref | NC\_007316.3 | N CACCAAGTGATAGG  
ACCAGATG----- 61940  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAGGGTG-----  
----- 46172

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gi | 51473102 | ref | NT\_010498.15 | \_ GACCAGCCTGGCCA  
ACATGGTGAAACCTCATCTCTACTAAAAATATAAAA 75796  
gi | 114795057 | ref | NC\_006483.2 | N GACCAGCCAGGCCA  
ACATGGTGAAACCTCATCTCTACTAAAAATATAAAA 82533  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AATAATGACTAATTTAAGTGAA 47915  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCATGATCTTAGTTTCCTGAATG 61963  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GAGGAAATACAGAATGGGT 46191

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTAGCTGGGCATG  
GTGGTGCACACCTGTAATCCAGCTACTCGGGAGGC 75846  
gi | 114795057 | ref | NC\_006483.2 | N ATTAGCTGGGCATG  
GTGGTGCACACCTGTAATTCAGCTACTCGGGAGGC 82583  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGAGCTTTGCACA  
GAAATTGGTTTAGG-----ATGACTCACTGGAA 47957  
gi | 194719394 | ref | NC\_007316.3 | N TTGAGCTAAGCCAA  
CTTTTTCACCTTTGCTCTTTCACCTTTCATCAAGAGGC 62013  
gi | 149361523 | ref | NC\_000074.5 | \_ CACAGCAGGAGGTA  
GTTCTAAATACCAG-----CTAAGGTC 46227

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAGGCAGGAGAAT  
TGCTTGAACCCAGGAGGCGGAGGTTACAGTGAGCCG 75896  
gi | 114795057 | ref | NC\_006483.2 | N TCAGGCAGGAGAAT  
TGCTTGAACCCAGGAGGCGGAGGTTACAGTGAGCCG 82633  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTTGCATTTTATT  
ATCCT----- 47976

gi | 194719394 | ref | NC\_007316.3 | N TCTTTAACTCTTCT  
TCCCT----- 62032  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAT-----  
----- 46231  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGATCGTACCATTG  
CACTCCAGCCTGGG-TGACAGAGCAAGACTCCGTCT 75945  
gi | 114795057 | ref | NC\_006483.2 | N AGATTGTGCCATTG  
CACTCCAGCCTGGG-TGACAGAGCAAGACTCCGTCT 82682  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGATG  
GACTTAAG-----TGATAT 47995  
gi | 194719394 | ref | NC\_007316.3 | N -----TTCTG  
CCATAAGGGTGGTGTATCTGCATATCTGAGGTTAT 62073  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAAAAAACAAACA  
GAAATCATGACATCGTATTATTTTTCTTCCATTCAC 75995  
gi | 114795057 | ref | NC\_006483.2 | N CAAAA--CAAACA  
GAAATCATGACATCGTATTATTTTTCTTCCATTCAC 82730  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAAGATTCATACG  
-----TGAGAAAAAAGAAATTCCATTCAG-TTC 48037  
gi | 194719394 | ref | NC\_007316.3 | N TGATATCTCTCCCA  
GGAATATTGATCCCAGCTTATGTTTCATCCAG-CCC 62122  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AACCA  
GATATAGAAACAAGGGTCATATGTTCTGCCGTGCTC 46272  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAGAGAATTCTC  
TCTGCAATGTCTGTAATAGTGAATGGAGCTCATTTT 76045  
gi | 114795057 | ref | NC\_006483.2 | N AGAAGATAATTCTC  
TCTGCAATGTCTGTAATAGTGAATGGGGCTCATTTT 82780  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAG-----  
-CAGAAGTGGATGGCAGTGAAATGCAGCCCCAAGAA 48076  
gi | 194719394 | ref | NC\_007316.3 | N AGCATTCTCATGA  
TATGCTCTGCATATAAGTTAAATAAGCACCCCTCTTA 62172  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTT-----

----AAGAATGTGTGTGTGCATATACACACATATAT 46308

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGTTTTTAAAATAG  
 TGCTGAGTCTGCCCCATTCAACAACCTCCTCGCCGCC 76095  
 gi | 114795057 | ref | NC\_006483.2 | N CCATTTTTAAAATAG  
 TGCTGAGTCTGCCCCATTCAACAACCTCCTCGCTGCC 82830  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGAGGTGAGTTTGC  
 TTCT---CTGCCCCCTCCCACCCTCTCCCT----- 48117  
 gi | 194719394 | ref | NC\_007316.3 | N GGAGGCTTTTAAGG  
 TGTT---TTTCCCCTAATCACTCCCTCCATGAG--- 62216  
 gi | 149361523 | ref | NC\_000074.5 | \_ TAAGCAGATATTTG  
 TGTTTTCTTTTCTTCCTTTTTCATGTCATT----- 46352

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGAAGGGAAGGTG  
 CCGGCCTGACCGCCTGGCAGGAATGACACCCATGTG 76145  
 gi | 114795057 | ref | NC\_006483.2 | N CAGAAGGGAAGGTG  
 CCGGCCTGACCGTCTGGCAGGAATGACACCCATGTG 82880  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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 gi | 194719394 | ref | NC\_007316.3 | N -----  
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 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCACCTTGCTTCCG  
 CCACCAGCCGTCCCTGCAGCCTAGAGAGGAGAGAGG 76195  
 gi | 114795057 | ref | NC\_006483.2 | N TCACCTTGCTTCCG  
 CCACCAGCCGTCCCTGCAGCCTAGAGAGGAGAGAGG 82930  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----  
 gi | 194719394 | ref | NC\_007316.3 | N -----  
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 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCCAGCACCCAGA  
AG-----AGATTTCCTTGATGTGTTATAATTTTCCT 76240  
gi | 114795057 | ref | NC\_006483.2 | N TTCCAGAACCCAGA  
AGCTGGGAGATTTTCCTTGATGTGTTATAATTTTCCT 82980  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ATTTTTTTTTTT 62227  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTCCTGGGGCCT  
GGCTTAAGATTTTGGGAATACAGAACAAACACTGGCT 76290  
gi | 114795057 | ref | NC\_006483.2 | N CTTTCCTGGGGCCT  
GGCTTAAGATTTTGGGAATACAGAACAAACACTGGCT 83030  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TTAAATATGGGCCA  
TTTTTAA----- 62248  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCATGTAGGAAGT  
GCTGCCTGTGTGACAGGCATGGGGCAAGCACTTTGT 76340  
gi | 114795057 | ref | NC\_006483.2 | N GGCATGTAGGAAGT  
GCTGCCTGTGTGACAGGCATGGGGCAAGCACTTTGT 83080  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTTCTTACCTGTC  
TCACCTGCTCTAAATGGCACTGAGGCCAGGCCAGTG 76390

gi | 114795057 | ref | NC\_006483.2 | N GGTTCCTTACCTGTC  
TCACCTGCTCTAAATGGCACTGAGGCCAGGCCAGTG 83130  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACACCCCAAAGAAAG----- 48133  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----AGTCTTCATTGAATTTG----- 62265  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATACTGATTCTAACAG----- 46368

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTCCCGGGCTTTT  
CTTCCATTATTGCTCCTGGATTAGGGTCTTGGGGTT 76440  
gi | 114795057 | ref | NC\_006483.2 | N GTTCCCGG-CTTTT  
CTTCCATTATTGCTCCTGGATTAGGGTCTTGGGGTT 83179  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AAAATT----- 48139  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-TTACAACATTGCTTTTGGTTTTATGTTTTTGGT--- 62297  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGAAATAAAACA  
CCACTGGCTGGTGATTTAGTGTAACCAAAACACACT 76490  
gi | 114795057 | ref | NC\_006483.2 | N ACTGAAATAAAACA  
CCACTGGCTGGTGATTTAGAGTAACCAAAACACACT 83229  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAACACAGCTCTG  
TGGCCAGAAGTTGAAATCAAGGTGTGAGCAGGGCCA 76540  
gi | 114795057 | ref | NC\_006483.2 | N GAAACACAGCTCTG  
TGGCCAGAAGTTGAAATCAAGGTGTGAGCAGGACCA 83279  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----CTCAAGG-GAGAGAGTTTAAA 48159  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTTTTGGCCTCGAGGTACGTGAGTTCTTA 62326  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTCCGTCTCCCA  
GTTTCTGGGTGTTACTGGCAGCCCCGGGCGTTCCTT 76590  
gi | 114795057 | ref | NC\_006483.2 | N GGCTCCGTCTCCCA  
GTTTCTGGGTGTTACTGGCAGCCCCGGGCGTTCCTT 83329  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----CTCCCA  
G----- 48167  
gi | 194719394 | ref | NC\_007316.3 | N G-----CTCCCC  
AGTCAGGGATGGAACCCACACCCT-----TTCTTT 62364  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GACTCGCAGACGCA  
TCCCTGCCTTGGTCTCTCACACCAAGCTCTGTCTCT 76640  
gi | 114795057 | ref | NC\_006483.2 | N GAGTCGCAGACGCA  
TCCCTGCCTTGGCCTCTCACACCAAGCTCTGTCTCT 83379  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GAAAGGTGAAGGCC  
TAACC----- 62383  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCACGAGGTGCTC  
CCCGCCACGCCTCTGCGCAGCGTTTTTCCTCT----- 76685  
gi | 114795057 | ref | NC\_006483.2 | N GTCACAAGGTGCTC  
CCCGCCATGCCTCTGCGCAGCCTTTTTTCCTCCTCTTT 83429  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ---TTTTTTTTTTTT  
TTTTGAGACGGAGTCTCGCTCTGTTGCCCAGGCTGG 76732

gi | 114795057 | ref | NC\_006483.2 | N TTTTTTTTTTTTTTTT  
ATTTGAGACGGAGTCTTGCTCTGTTGCCCAGGCTGG 83479

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGTGCACTGGCTTG  
ATCTCCGCTCACTGCAACCTCCGCCTCCCAGGTTCA 76782

gi | 114795057 | ref | NC\_006483.2 | N AGTGCAATTGGCTTG  
ATCTCCGCTCACTGCAACCTCCGCCTCCCAGGTTCA 83529

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ACTGAGCCACCAGGGAGGT 62402

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGATTCTCCTGC  
CTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCTG 76832

gi | 114795057 | ref | NC\_006483.2 | N AGCGATTCCCCTGC  
CTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCCTG 83579

gi | 73957561 | ref | NW\_876316.1 | Cf -----CTTCTTC  
TACAAAGTTTCAAATACATGAAAATACGGTTGATAG 48210

gi | 194719394 | ref | NC\_007316.3 | N TCCCACCACCCTTC  
CCTGGTGGCTCAGACAGTAAAGAATCTGCCTGCAAT 62452

gi | 149361523 | ref | NC\_000074.5 | \_ -----TTCTGTTC  
CTATAGAGAACAACACTGACTAGCACACACGGGTGCTGG 46412

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gi | 51473102 | ref | NT_010498.15 | _          CCACCACGCCTGGC
TAACTTTTTGTATTTTGTAGTAGAGACAGGGTTTCAC 76882
gi | 114795057 | ref | NC_006483.2 | N          CCACCACGCCTGGC
TAACTTTTTGTATTTTGTAGTAGAGACAGGGTTTCAC 83629
gi | 73957561 | ref | NW_876316.1 | Cf          CCATTAGACTT---
----- 48221
gi | 194719394 | ref | NC_007316.3 | N          GCGGGAGACCTGGA
TTTGATCCC----- 62475
gi | 149361523 | ref | NC_000074.5 | _          GGATTTGAACT---
----- 46423
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gi | 51473102 | ref | NT_010498.15 | _          CATGTTAGTCAGGA
TGGTCTTGATCTCCTCACCCCGTGATCCACCCGCCT 76932
gi | 114795057 | ref | NC_006483.2 | N          CATGTTAGTCAGGA
TGGTCTTGATCTCCTCACCCCGTGATCCACCCGCCT 83679
gi | 73957561 | ref | NW_876316.1 | Cf          -----T
TGATTAT----- 48229
gi | 194719394 | ref | NC_007316.3 | N          ----TGGGTCAGGA
AGGTTCC----- 62492
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          CGGCTGCCCAAAGT
CCTGGGATTACAGGCATGAGCCACCATGCCCGGCCT 76982
gi | 114795057 | ref | NC_006483.2 | N          CAGCCTCCCAAAGT
CCTGGGATTACAGGCATGAACCATCATGCCCGGCCT 83729
gi | 73957561 | ref | NW_876316.1 | Cf          -----
-----CTTGGG-----TTCTT 48240
gi | 194719394 | ref | NC_007316.3 | N          -----
-----CTGGAGGAAGCATGACAACCCA 62514
gi | 149361523 | ref | NC_000074.5 | _          -----
-----CACG 46427
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gi | 51473102 | ref | NT_010498.15 | _          TCCTCCTCTTATAT
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CCAGTCATGTTGGCTTAGGGCCAACCCTAATAGCCT 77032  
gi | 114795057 | ref | NC\_006483.2 | N TCCTCCTCTTATAT  
CCAGTCATGTTGGCTTAGGGCCAACCCTAATAGCCT 83779  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCTGAGATTTTTG  
TCTG----- 48258  
gi | 194719394 | ref | NC\_007316.3 | N CTCTAGTATTCTTG  
CCTGGAGA-----AT 62538  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTCATGTTG---  
----- 46438  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATTGACGATAT  
CTGCAAAGGCGCTATTCCAAATCAGGTCACATTCAG 77082  
gi | 114795057 | ref | NC\_006483.2 | N CAAATTGACGATAT  
CTGCAAAGGCCCTATTCCAAATCAGGTCACATTCAG 83829  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----AAACAGTAGGTCTCAAAGT- 48277  
gi | 194719394 | ref | NC\_007316.3 | N CCCATGGACAGAGG  
AGCCTGGCGGGCTACAGTCCATGGGGTCACAAAGAG 62588  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GCACAGCAAGGCCTCTCACCT 46459

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTTCCGAGGTTA  
GGACTTCAACATATCTTTTGTGGGGTACAATTCAAC 77132  
gi | 114795057 | ref | NC\_006483.2 | N AGGTTCCAAGGTTA  
GGACTTCAACATATCTTTCGTGGGGTACAATTCAAC 83879  
gi | 73957561 | ref | NW\_876316.1 | Cf ----TCCTGGACCA  
G-----CAA 48291  
gi | 194719394 | ref | NC\_007316.3 | N TCGGACATGATTGA  
G-----CAA 62606  
gi | 149361523 | ref | NC\_000074.5 | \_ G----CAAAG----  
-----CCA 46468  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCACTAAGGAGAT  
GGTTTAGGCATTTCTTCCCTAATCACCCCACTCCCT 77182  
gi | 114795057 | ref | NC\_006483.2 | N CCCACTAAGGAGAT  
GGTTTAGGCATTTCTTCCCTAATCACCCCACTCCCT 83929

gi | 73957561 | ref | NW\_876316.1 | Cf CATCCCCTG-----  
-----GGAATTTGCT----- 48310  
gi | 194719394 | ref | NC\_007316.3 | N CTAACACAGGCAGG  
AGTACAGGTATTTAATGTC-----ACAGATGTA 62648  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCCCCAG-----  
----- 46477  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCCATGAAATTTA  
ATATGGTAGATACTGTATTGTACGCATATCTGCA 77232  
gi | 114795057 | ref | NC\_006483.2 | N CCCCATGAAATTTA  
ATACGGCAGATACTGTATTGTACGCATATCTGCA 83979  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CTGCATGTCTGTTC  
CTATACTGTATGCGTTTTTTTGTGT-----GTG 62690  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTCTACGTAAAA  
GGAGTAGTTTTTTTGTGCCCTGCTGCACCG-CATTT 77281  
gi | 114795057 | ref | NC\_006483.2 | N CTTTCTACGTAAAA  
GGAGTAGTTTTTTTGTGCCCTGCTGCACCCCCATTT 84029  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AAA  
AATGCAGATTCTCAGGCTCCACCCAGAACCTCTG-- 48347  
gi | 194719394 | ref | NC\_007316.3 | N CTTTATACATAAAA  
GGACTAGATTTTTTTCACCCCTTAAGGACCCATTTTC 62740  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GCC  
TAGACATCTGTCCACCCCTCTCTTACATCACCTT-- 46514

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACCCCCTGTGGG  
ACAGTGGGATGCATGGGTCATGACTGGTTTACACCT 77331  
gi | 114795057 | ref | NC\_006483.2 | N TCACCCCCTGTGGG  
ACAGTGGGATGCATGGGTCATGACTGGTTTACACTT 84079  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--AGTCAGAAATAT----CAGGAATG----- 48367  
gi | 194719394 | ref | NC\_007316.3 | N ACGCCTTGAGTGG-

GCAGTGGGATGCAT----TAGGGTTGGTTTACATCT 62785  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---CACAATTTCACTTAGTGTTAG----- 46538

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGAAACTGAGAT  
TCTGAGTTGTACATCACTGATCCAAAAGCCACCAA 77381  
gi | 114795057 | ref | NC\_006483.2 | N CGGGAAACTAAGAT  
TCTGAGTTGTGACATCACTGATCCAAAAGCCATCAA 84129  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--CGGCATG----- 48374  
gi | 194719394 | ref | NC\_007316.3 | N GGGGAAGTAGAGGC  
TCAGGCCTG----- 62808  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---GTGTTG----- 46544

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGCAACAAAGGG  
CCAGGCTGGCAAGGACCCCAGGCTGTGGACGGGGGG 77431  
gi | 114795057 | ref | NC\_006483.2 | N AGAGCAACAAAGGG  
CCAGGCTGGCAAGGACCCCAGGCTGTGGACGGGGGC 84179  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCAGGGTG  
CTCAGTTAGCCAAGCATCCGA-CTCTTGTTTCGGC 48417  
gi | 194719394 | ref | NC\_007316.3 | N -----TCCAGGAA  
CTGACCTG--AAAGCATCAGAGATCAATTGAACGTC 62850  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGAACAGAA  
CCCAGGGCGTTGCGGCTGACTGAGCCACACTCCAAC 46589

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gi | 51473102 | ref | NT\_010498.15 | \_ -CTGGCAAGGACCC  
CATGTTCTGGACGCAGGGCTGTCTCACTGACTCAGG 77480  
gi | 114795057 | ref | NC\_006483.2 | N GCTGGCAAGGACCC  
CATGCTCTGGACGCAGGGTTGTCTCACTGACTCAGG 84229  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAGGTCATGATCT  
CAGGGTCATGAGATCG-----AGCCCTGTGTCAGG 48461  
gi | 194719394 | ref | NC\_007316.3 | N ACTGGCAGGGACCC  
GAGGGCTGGCCGCCCG-----CACCCACTCCCAGG 62894  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTAATTGAGTTCA  
TTGGGTTTG-----TTCTAAGTAGCATG 46626

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gi | 51473102 | ref | NT_010498.15 | _ GGGTTCCGTCTGAG
AAATTGCTACACCTTCAAGTCTGAAACATTCCTCCC 77530
gi | 114795057 | ref | NC_006483.2 | N GGATTCCTTTTGAG
AAATTGCTACACCTTCAAGTCTGAAACGTTCTCCC 84279
gi | 73957561 | ref | NW_876316.1 | Cf ---CTCCATG----
-----CTGAGGCATAGAATCT 48484
gi | 194719394 | ref | NC_007316.3 | N GG-CTCCTTCT---
-----GCCAGCTCTTCAAGTCTGAAACATTCCTCCT 62935
gi | 149361523 | ref | NC_000074.5 | _ -----
-----GTGACCCCCCAAAC 46640

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gi | 51473102 | ref | NT_010498.15 | _ GGCAGAAACACTGC
AGGTTTGTCTTAAGCAGATTTTCAGATAGAAGCTGT 77580
gi | 114795057 | ref | NC_006483.2 | N GGCAGAAACACTGC
AGGTTTGTCTTAAGCAGATTTTCAGATAGAAGCTGT 84329
gi | 73957561 | ref | NW_876316.1 | Cf ACTTCAGATTCT--
----- 48496
gi | 194719394 | ref | NC_007316.3 | N GGCAGAAACCCC--
----- 62947
gi | 149361523 | ref | NC_000074.5 | _ AGCCACGCCCTG-
----- 46653

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gi | 51473102 | ref | NT_010498.15 | _ TGCAAAGACCGTCT
TGTCTGCCCTTCAGCCAAGAGAAGAGACTTTTTTTT 77630
gi | 114795057 | ref | NC_006483.2 | N TGCAAAGACCGTCT
TGTCTGCCCTTCAGCCAAGAGAAGAGACTTTTTTTT 84379
gi | 73957561 | ref | NW_876316.1 | Cf -----
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gi | 194719394 | ref | NC_007316.3 | N -----
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gi | 149361523 | ref | NC_000074.5 | _ -----
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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTTCTAGGTGG  
GACATTCCAAGAGAAATGGCCTTTTTTCTATGTGCT 77680  
gi | 114795057 | ref | NC\_006483.2 | N TTT--TCTAGGTGG  
GACATTCCAAGAGAAATGGCCTTTTTTCTGTGTGCT 84427  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTACTCTTCTTCT---CCCT 48513  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----ATGGCCTTTCTCCGTGACCT 62967  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CA 46655

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATGCTTGGATTT  
CTTATCTGCCAGAGGTGGTTTGAACAATGAATAATT 77730  
gi | 114795057 | ref | NC\_006483.2 | N AAATGCTTGGATTT  
CTTATCTGCCAGAGGTGGTTTGAACAATGAATAATT 84477  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACCTTTG-----  
--CTCCTCCCTCTGCTTGTAATCATCTCTCTCAAA 48556  
gi | 194719394 | ref | NC\_007316.3 | N AAACGCTTGGATTT  
CTCATCTGCCCCGAGGTGGTTTGAATAATGAATAATT 63017  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGC-----  
----CCACTCCAACATGAGTGTGACATCCTCTGAGC 46691

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gi | 51473102 | ref | NT\_010498.15 | \_ TAAATGGACTGAGC  
TTTGTATAGAGATTGGCTTTCGGATGACTCACTAAAA 77780  
gi | 114795057 | ref | NC\_006483.2 | N TAAATGGACTGAGC  
TTTGTATAGAGATTGGCTTTCGGATGACTCACTAAAA 84527  
gi | 73957561 | ref | NW\_876316.1 | Cf TAAATAAATAAAAT  
CTTTAAAAAATATATATCAGGGG----- 48593  
gi | 194719394 | ref | NC\_007316.3 | N TAAATGGACAGAGC  
TTTGCATAGAGATTGGTTTAGGATGACTCACTGAAA 63067  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCAGAGGTAGAGC  
CCACCCCTGATCTGG----- 46720

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGTGTCATTTTAT  
TATGCTAGATGGACTTAAAGTGATATTA AAAAATTCAT 77830  
gi | 114795057 | ref | NC\_006483.2 | N ATGTGTCATTTTAT

TATGCTAGATGGACTTAAGTGATATTA AAAAATTCAT 84577  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-ATCCCTGGGTGGCACAG-----CGGTTTGGC 48619  
gi | 194719394 | ref | NC\_007316.3 | N ACAT-CCCATTTAT  
TATCCCAGATGGACTTAGGCGATATTAAGATTCAT 63116  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TAT  
GGCCCCTGCAGGGAACCT-----TCTGCC 46748

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gi | 51473102 | ref | NT\_010498.15 | \_ ATATAAGAAAAAAAA  
GAGATTCCATTCAGTTCAGAGCAGAAGTGGATGGCG 77880  
gi | 114795057 | ref | NC\_006483.2 | N ATATAAGAAAAAAAA  
GAGATTCCATTCAGTTCAGAGCAGAAGTGGATGGCG 84627  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTGCCTTTGGCC  
CAGGGCGCGATCCTGGAGACCCGGGATCGAATCCCA 48669  
gi | 194719394 | ref | NC\_007316.3 | N ACATCCGAAAGAAA  
GAGATCCCGTTCAGTTCGGAGCAGAAGTGGATGGCA 63166  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTACATAGTCTAG  
CATGTCCCCTCTGCATCTGGGGTGGGGTTGAGGAGG 46798

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGAAATGCAGTCT  
GAAGACTGAGGTGAGACCTTTCAATCTTCAACCTCT 77930  
gi | 114795057 | ref | NC\_006483.2 | N GTGAAATGCAGTCT  
GAAGACTGAGGTGAGACCTTTCAATCTTCAACCTCT 84677  
gi | 73957561 | ref | NW\_876316.1 | Cf CGTCCGGG--CTCTC  
GGTACATGGAGCCTG-----CTTCTCCCTCT 48707  
gi | 194719394 | ref | NC\_007316.3 | N GTTCAGTGCAGCTC  
CAAGAATGAGGTGAG-----GTTGTCTCTCT 63206  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGCTAGAATTCCA  
GATGAGTAGGTAAGG----- 46827

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTCTCTTTCTGCC  
CGGGCCCCCACCAGAGATAAAGCAAAATGCAGACT 77980  
gi | 114795057 | ref | NC\_006483.2 | N TCTCTCTTTCTGCC  
CGGGCCCCCACCAGAGATAAAGCAAAATGCAGACT 84727  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTGTGTCTCTGC  
CTCTCTCTCTCTCTCT--CTCT----- 48741



gi | 194719394 | ref | NC\_007316.3 | N GCCCCCTTCCAGCC  
CCCACCCCCACCCAG--CAAAGCAAAATGCAGAGG 63254  
gi | 149361523 | ref | NC\_000074.5 | \_ GTCAGAGGCCTGCC  
CTACCCCTCTTCCTGAGGCAATG----- 46864

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAG-GATAATTT  
GAAAGTTCCTGGCTGCTTCTGTGACGTTCCAAATAC 78029  
gi | 114795057 | ref | NC\_006483.2 | N TCAAG-GATAATTT  
GAAAGTTCCTGGCTGCTTCTATGACGTTCCAAATAC 84776  
gi | 73957561 | ref | NW\_876316.1 | Cf -CTG-----  
-----TGACTATCATAAATAAATAAAAA 48767  
gi | 194719394 | ref | NC\_007316.3 | N TCAGGAGATGAGTT  
TCAAGTTCCCAGCTGCTTCTATGACATCCGAAGACG 63304  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCAACAGGTCCCATCTTG 46882

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGG-AAAAACTTA  
ATCACCATCATAACCTTTGATTCTCTTGGGTCTGCTT 78078  
gi | 114795057 | ref | NC\_006483.2 | N ATGG-AAAAACTTA  
ATCACCATCATAACCTTTGATTCTCTTGGGTCTGCTT 84825  
gi | 73957561 | ref | NW\_876316.1 | Cf TTAAAAAAAATAT  
AT-----ATATATATATCAGTCATGGAGCCAGTA 48810  
gi | 194719394 | ref | NC\_007316.3 | N TGAAAATACAGTTG  
ATGGCGATGAAAGCTCTGAGTATCTTGGGGCCACTT 63354  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGG-----  
-----TCTCTTGGGATGAGTG 46902

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGGCTTTTTTGTTT  
AAAACAGAAGTTCTTAAAGCAGGGTCCCTGGAGTAG 78128  
gi | 114795057 | ref | NC\_006483.2 | N CTGGTTTTTTTGTTT  
AAAACAGAAGTTCTTAAAGCAGGGTCCCTGGAGTAG 84875  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCTGTGTTTGCTG  
GGAATTTTG-----ATGTGTGCTCCCACTGTGA 48852  
gi | 194719394 | ref | NC\_007316.3 | N TCGAGATTGTCTTC  
TGAATCTCTGGTCCCTCAAAGTGGGGTCCCAGACCAG 63404  
gi | 149361523 | ref | NC\_000074.5 | \_ ACACTTCTTTGATG

AAGATGCTG-----ATGGCTGCCCTTCTCAGA 46943  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCGGTTGTTACC  
ACGCGAGACTTTATTAGAAATGCAGAATCTCAGGTT 78178  
gi | 114795057 | ref | NC\_006483.2 | N TAGCGGTTGTTATC  
ACGTGAGACTTTATTAGAAATGCAGAATCTCAGGTT 84925  
gi | 73957561 | ref | NW\_876316.1 | Cf ACACC-----AACC  
TCCTTG--CTAACTTGGGGGTTCTTTTTTCACAC--C 48893  
gi | 194719394 | ref | NC\_007316.3 | N CAGCAG----CATC  
TCCTTGGAATTTGTTTGAAATGCAGATTCTCAG--G 63448  
gi | 149361523 | ref | NC\_000074.5 | \_ GGACAG-----CA  
TCGCTCACTGCTATGGGGGCTGCAGG----- 46977  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCATGCCAGACCTC  
CTGAGTCGAAGGGTCCAGGGGTGGGACCCAGTAACC 78228  
gi | 114795057 | ref | NC\_006483.2 | N CCATGCCAGACCTC  
CTGAGTCGAATGGTCCAGGGGTGGGACCCAGTAACC 84975  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGGCACCGAGTTC  
CT-----TACAGGTATGAGCACCTTTAATT 48932  
gi | 194719394 | ref | NC\_007316.3 | N CTGTACCCAGACT  
CAGCATCAGATGTTCCAGGGGTGGAGTCCAGTCGTC 63498  
gi | 149361523 | ref | NC\_000074.5 | \_ -CATATCTGTGCTT  
TG-----AGGGGGTGGGGAACCTCGTTCC 47013  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCATTTTCTGCAG  
ATTCTGATGCAGGTGCAAATGTTGAGATCGACCAGC 78278  
gi | 114795057 | ref | NC\_006483.2 | N TTCGTTTTCTGCAG  
ATTCTGATGCAGGTGCAAATGTTGAGATCGACCAGC 85025  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCACCAGGTGGGG  
-----ACAGTCCTTCCTTC 48960  
gi | 194719394 | ref | NC\_007316.3 | N TGTGTTTGTGCTGGGG  
GTTCTGATGCAAGTTCAGGT-ATGAGACTCAGCGGC 63547  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGTATG-----  
-----GTGGCATATGC 47031  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTAATCCAGTGA  
CTGAGGCCCTGCTGCTAA-----CACCAGTCGCCAA 78323  
gi | 114795057 | ref | NC\_006483.2 | N CTGTAATCCAATGA  
CTGAGGCCCTGCTGCTAA-----CACCAGTCGCCAA 85070  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGAAGGGCGGAGA  
TCAGGAGGTGCATCCCAG-----CACCCA 48998  
gi | 194719394 | ref | NC\_007316.3 | N CTGCAGTACAGTGA  
CTGAGTAATTCCTACCAGAGTGACTACAGGCTCCTA 63597  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTTAATCCCAACA  
CTGAGGAAAAGAGCTGGG----- 47063  
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gi | 51473102 | ref | NT\_010498.15 | \_ CT--TGCCAGTCCT  
CTCTTTGCAGCCCTGTGCTAAGTTTTTTTATACTTCT 78371  
gi | 114795057 | ref | NC\_006483.2 | N CT--TGCCAGTCCT  
CTCTTTGCAGCCCTGTGCTAAGTTTTTTTATACTTCT 85118  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACAGATGGTGTG  
AACAATGAGCTCACG-----CATCACACGTAC 49039  
gi | 194719394 | ref | NC\_007316.3 | N CTGATGATGCTGAG  
CCCGTTGCTAACTTGGGCTCCTTTTGTACATTGCT 63647  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGATCTCTGTGAG  
TAAAAGGCCAGCCTG-----GTCTATAGAGC 47103  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCTCATCTCCCC  
GTCATACTGGGGAGCAAATCCTTCAGTACGGAAGGC 78421  
gi | 114795057 | ref | NC\_006483.2 | N TAGCTCATCTCCCC  
GTCATACTGGGGAGCAAATCCTTCAGTACGGAAGGC 85168  
gi | 73957561 | ref | NW\_876316.1 | Cf GCACATAGG-----  
----CACGTGCGTGTGTGTGTGTGTGTG----- 49072  
gi | 194719394 | ref | NC\_007316.3 | N GCATGCTGGGTTCT  
-TTACACGTATGAGCTCATGTAAGTGTGCAATGGG 63696  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGT-----  
----CCCAGGCTAGCCAGGACTACAATG----- 47131  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTCTGTGTGGTG  
-----CA 78437

gi | 114795057 | ref | NC\_006483.2 | N GTGTCTGTGTGGTG  
-----CA 85184  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N GGAACGATCCGGGA  
CGCACCCCTCGTGCCACCATAGACGGATGACCTCA 63746  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGCGTGTGCACA  
CG--TGTTGTCCCTGGCTAGAGG-AACACATACCAA 78484  
gi | 114795057 | ref | NC\_006483.2 | N TCAGTGTGTGCACA  
CG--TGTTGTCCCTGGCTAGAGG-AACACATACCAA 85231  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTGTGTGTGCACC  
TG---CTATGAGTGACCAGAGG-AACATACACCAA 49117  
gi | 194719394 | ref | NC\_007316.3 | N CGTGTGTGTGCACA  
TGTATGTTCTAAGCCACCAAGGGGAATATGTACCAA 63796  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGAGGCC  
AG-----TGTCAGTAGGG-----ACCAG 47158

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTATGGCCA----  
-CCCCGGGTGGACATTACAGCTGATTTTTTAAAATT- 78528  
gi | 114795057 | ref | NC\_006483.2 | N GCTATGGCCA----  
-CCCCGGGTGGACATTACAGCTGATTTTTTAAAATT- 85275  
gi | 73957561 | ref | NW\_876316.1 | Cf ATTACTCCTGGTTA  
TCCCTGAGTGGGGATTAAAGCTGAGTTCTTCCCCTC 49167  
gi | 194719394 | ref | NC\_007316.3 | N GCTCTTACCAGCTA  
TCCCTGGGTGAGACAGCCCACCCT-ATCTTCCCCCT 63845  
gi | 149361523 | ref | NC\_000074.5 | \_ GGTCTTCGTGGCTG  
-CCTCTTTCCTCCCAAATCACCCCATGTCTACCACTG 47207

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gi | 51473102 | ref | NT\_010498.15 | \_ ----TTCTTTTCAG  
ATTTGTTGTGGCTTTTCAGATTTTCCTTAAAAG--- 78571  
gi | 114795057 | ref | NC\_006483.2 | N ----TTCTTTTCAG  
ATTTGTTGTGGCTTTTCAGATTTTCCTTAAAAG--- 85318  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTTCTTTTTTTTA

ACCTTCTGTAGCTTTTCAGATTTTCTACGATAAAAAG 49217  
gi | 194719394 | ref | NC\_007316.3 | N CCCCTTTTTTTTAC  
ATTTTCTGTAGCTTTTCAGATCTTCTACTGAAAAAA 63895  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TTACTGG  
AATTTTGGAATTCTTCCCCTTCCAACACTAT--- 47247

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----CTATTTTTTAAAGTTTT-TGTTGCCTT 78597  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-----CTATTTTTTAAAGTTTT-TGTTGCCTG 85344  
gi | 73957561 | ref | NW\_876316.1 | Cf GG-----  
-----TCTTTTAAAACGTTTTGTATTGCCTG 49245  
gi | 194719394 | ref | NC\_007316.3 | N AAACAAAACAAAAC  
ATTTTCTTTCTTTTTTAAAAGATTTTATTGCCTT 63945  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTCTAGTGTATGAGATATGCAGCTAA 47273

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gi | 51473102 | ref | NT\_010498.15 | \_ CTACCGTTTTCTCC  
ACCCCTCCTCTTCCCTCCCCTCTTTCTAGAATCTA 78647  
gi | 114795057 | ref | NC\_006483.2 | N CTACCGTTTTCTCC  
ACCCCTCCTCTTCCCTCCCCTCTTTCTAGAATCTA 85394  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACCTTTTCCTCC  
AGCTC----TTTATTTCCCTCCCTTTCTGGAACCTG 49291  
gi | 194719394 | ref | NC\_007316.3 | N CCATCTTTTGCTCC  
A-----AACTTTCTGCTCTTGCTGGAACCTG 63985  
gi | 149361523 | ref | NC\_000074.5 | \_ CACCAATTTACTTT  
G-----GAAAACCTGAGTTTGA 47303

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATGTCTG-CCCA  
CGCAGACTG--CTCAGCTCCCCTCAGGGCTGTGGG 78694  
gi | 114795057 | ref | NC\_006483.2 | N TCATGTCTG-CCCA  
TGCAGACTG--CTCAGCTCCCCTCAGGGCTGTGGG 85441  
gi | 73957561 | ref | NW\_876316.1 | Cf TCATGTCTTGCTCA  
TGCCGAGATCCCTCCTCTTACTCAGGGCAGTGGG 49341  
gi | 194719394 | ref | NC\_007316.3 | N CCATGTCTTGCTCA  
TGCTGAGATTTTCCATCTCATTACGG--TGGCAGG 64033

gi | 149361523 | ref | NC\_000074.5 | \_ CCTGGTGAACAACA  
GGCCCCAAAG--ACCACACAGTGATGGCCCTGCAGG 47351

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCTCAGCCAGCT  
CATGCCAGGCCCTTCCTGTGCATGGATGG-ACACAT 78743

gi | 114795057 | ref | NC\_006483.2 | N CAGCTCAGCCAGCT  
CATGCCAGGCCCTTCCTGTGCATGGATGG-ACACAT 85490

gi | 73957561 | ref | NW\_876316.1 | Cf CAGGTTGGCCAGCG  
CGTTCCAGGCCTCTGCCACAAATGGATGAGTGTATG 49391

gi | 194719394 | ref | NC\_007316.3 | N CAGCTCGGCCAGCT  
TATCCTAGGTCTTTGCCGTGAGTGGACGAGTATAAT 64083

gi | 149361523 | ref | NC\_000074.5 | \_ CC-CCAGGCCACAC  
CTTCCCAAATGTCTTTGTTCCCCAGAAGTTTCTAAA 47400

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gi | 51473102 | ref | NT\_010498.15 | \_ GTACAT--TTCAGG  
GGCTTAGAAGGGATTATAG-ATTTTCAAAAAACTTT 78790

gi | 114795057 | ref | NC\_006483.2 | N GTACAT--TTCAGG  
GGCTTAGAAGGGATTATAG-ATTTTCAAAAAACTTT 85537

gi | 73957561 | ref | NW\_876316.1 | Cf GATCTT--CTCTG-  
--CTTAAAAGGGGTTACAG-ATTTTTTTAAATGTTTT 49435

gi | 194719394 | ref | NC\_007316.3 | N ACAGAT--TCCTGG  
TACTTAAGAGGCGTTCTGGACTTTTTTTCAATGTTGT 64131

gi | 149361523 | ref | NC\_000074.5 | \_ GGAGCTGAAGCAAA  
GGCTTAGTTCTGGGACCAGAGAAAAAGAAATTGTTT 47450

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGACCTTTAAATC  
TTTTCCCTTG-----CAAGGCAATGGTAATATA 78832

gi | 114795057 | ref | NC\_006483.2 | N TAGACCTTTCAATC  
TTTTCCCTTG-----CAAGGCAATGGTAATATA 85579

gi | 73957561 | ref | NW\_876316.1 | Cf AATACCTTCAGATC  
TTTTCTTTCTCCCTCCCTAAAGACAATGGTAATATA 49485

gi | 194719394 | ref | NC\_007316.3 | N AATACCTTCAAATC  
TTATTTT-----CCCCCTAAGGCAATGATAATATA 64175

gi | 149361523 | ref | NC\_000074.5 | \_ TCCCCGGGTGAGAC  
CTCTGAAAG-----CAGGCAGGCAGCCTTCC 47490

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCAT----TGA  
 AAAAGTATAGAAATATGACAT---AAAAATGAAAGC 78875  
 gi | 114795057 | ref | NC\_006483.2 | N TTCTCAT----TGA  
 AAAAGTATAGAAATATGACAT---AAAAATGAAAGC 85622  
 gi | 73957561 | ref | NW\_876316.1 | Cf TTCTCAT--ATAAA  
 TAAACTATAGAAATACAACCTTT--AAAAATGGAAGC 49531  
 gi | 194719394 | ref | NC\_007316.3 | N TTTTCATTGAAAAA  
 AAAATGATAGAAATGTGACTTA--AAAAGTGGACCC 64223  
 gi | 149361523 | ref | NC\_000074.5 | \_ TTCCCAT----AGC  
 TACTGCCTGGGATTCTGTCTGTTGGAACGCTGGTTCA 47536

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTTTCATTCC-A  
 CCCTTCTTCCCT--CCCTCCCCACCACCCAC-CCAG 78921  
 gi | 114795057 | ref | NC\_006483.2 | N TTCTTTCATTCC-A  
 CCCTTCTTCCCT--CCCTCCCCACCACCCAC-CCAG 85668  
 gi | 73957561 | ref | NW\_876316.1 | Cf TTCTTTTAATTCTA  
 CTCCTCCTCGCT--CCTGACCCATCACCCCTGCCCC 49579  
 gi | 194719394 | ref | NC\_007316.3 | N TTCTGACAGTCCTG  
 CCCCTTTTCTCT--CTCTGCCCACCCCCCAT--CCC 64269  
 gi | 149361523 | ref | NC\_000074.5 | \_ CACAGACAAAGCTT  
 AGCATGCAGCCTGGCTCTGGATGACTCCCTG----- 47581

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGTAATTCTATTT  
 TAAGTCTGGGATGGAGCATTGCAGATTTTAAATATG 78971  
 gi | 114795057 | ref | NC\_006483.2 | N AGGTAATTCTATTT  
 TAAGTCTGGGGTGGAGCATTGCAGATATTTAAATATG 85718  
 gi | 73957561 | ref | NW\_876316.1 | Cf AAGGTAACCCCCCA  
 ACAGTATGAGATGGAATATTCCAAGTTCTAAATATG 49629  
 gi | 194719394 | ref | NC\_007316.3 | N CACTATGCCCTCA  
 GCAGTCAGAGATCGAGCCTTCCAGAGTCTGCAGGTG 64319  
 gi | 149361523 | ref | NC\_000074.5 | \_ ATAGCATCCCCTCT  
 TGCACCCAGATGAACTTAGGCAGCATCAAAGATTC 47631

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAACGACAACATC

TGG-ATGGTATTTTCAAACAAGGTC--ACTATTTA 79018  
gi | 114795057 | ref | NC\_006483.2 | N CAAACGACAACATC  
TGG-ATGGTATTTTCAAACAAGGTC--ACTATTTA 85765  
gi | 73957561 | ref | NW\_876316.1 | Cf CACATAGCAACATA  
TGGGGTGGTTGTTTTAAACTAGGTCGTGCTGTATA 49679  
gi | 194719394 | ref | NC\_007316.3 | N CAGGTAGCAACACG  
TGGGGTGGTAGTTTCTAAAGAAGGTCCTGCTGTGTA 64369  
gi | 149361523 | ref | NC\_000074.5 | \_ CTATGTACGGAAAA  
AGG-----AAATTCCCTTCAGCTCAGAGCAGAAGT 47675

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGTGTGTGTAATT  
TGCTTTTTCCCCCTAAGATTTTCTTTTAATATTATG 79068  
gi | 114795057 | ref | NC\_006483.2 | N TAGTGTGTGTAATT  
TGCTTTTTCCCCCTAATATTTTCTTTTAATATTATG 85815  
gi | 73957561 | ref | NW\_876316.1 | Cf TAGTATTTATAATT  
TGCTTTTTTTCCCTTACG-----GTGGTA 49717  
gi | 194719394 | ref | NC\_007316.3 | N TAGTGCGTGTAGTC  
TGTTCTTTTCCCTTAAA-----TGATG 64405  
gi | 149361523 | ref | NC\_000074.5 | \_ GGATGGCAGTCAGG  
TGCGG----CCCGAAGAG----- 47703

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTAGATGTCTGT  
GTTGGTTAATATAAGCTTGTTATATTAACATATTAA 79118  
gi | 114795057 | ref | NC\_006483.2 | N TCTTAGATGCCTGT  
GTTGGTTAATATAAGCTTGTTATATTAACATATTAA 85865  
gi | 73957561 | ref | NW\_876316.1 | Cf TCTTTGACATCT--  
----- 49729  
gi | 194719394 | ref | NC\_007316.3 | N TCTGGGACAGCT--  
----- 64417  
gi | 149361523 | ref | NC\_000074.5 | \_ -CGAGGTAAGCT--  
----- 47714

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gi | 51473102 | ref | NT\_010498.15 | \_ TTATATAATATGTA  
ATATATATTACATATATTACATATATTATTTAATAT 79168  
gi | 114795057 | ref | NC\_006483.2 | N TTATATAATATGTA  
ATATATATTACATATATTACATATATTATTTAATAT 85915



gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATATTATGTAATAT  
ATATTATAATTGTATAAGAATATATTAGTTATATAT 79218  
gi | 114795057 | ref | NC\_006483.2 | N ATATTATGTAATAT  
ATAATTGTATAAGTTAA---TATATTAGTTATATAT 85962  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATATATAATATAC  
ATATAAATAATATAATGTAATATAATACATATAAAT 79268  
gi | 114795057 | ref | NC\_006483.2 | N ----ATAATATAC  
ATATAAATAATATAATGTAATACAT--ATAAATAAT 86005  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AATATACAATACAT  
ATGTACTATAATTAATGTATTAACATCTGTAATTAA 79318  
gi | 114795057 | ref | NC\_006483.2 | N ATAATACAATACAT  
ATGTACTATAATTAATGTATTAACATCTGTTCATTAA 86055  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TATTATATTTATTA  
ATAACAT--TAATATGTTAATTACATATTAATAACA 79366

gi | 114795057 | ref | NC\_006483.2 | N TATTATATTAATTA  
ATAACATATTAATATGTTAATTACAAATTAATAACA 86105

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TATATAATTAATAT  
TATATTATCTTATAACAGTGTTACATTCACACTGTG 79416

gi | 114795057 | ref | NC\_006483.2 | N TATA----ATTAA  
TATATTATCTTATAACAGTGTTACATTCACACTGTG 86150

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
TTCCCTATCAATTCATAAAGCT-CATTCCCTGCATA 49764

gi | 194719394 | ref | NC\_007316.3 | N -----  
TTCCGTGTCAGTGCATACAAGTGCCTTCACTGTCTA 64453

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TAGCTTTTGTGAGACAAGTCTCACGAAGGG 47745

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gi | 51473102 | ref | NT\_010498.15 | \_ CACCCACGTGAGCC  
AGGTATGTCCGGTATTGAGGCTAGGGGTACAGTGTG 79466

gi | 114795057 | ref | NC\_006483.2 | N CACCCACGTGAGCC  
AGGTATGTCCGGTATTGAGGCTAGGGGATACAGTGTG 86200

gi | 73957561 | ref | NW\_876316.1 | Cf CCATGAG-----C  
ATTCAGGCTTTGTGCTAATGCTGGGGACAAAGTGTG 49808

gi | 194719394 | ref | NC\_007316.3 | N CCATGAG-----C  
AAGTGGGCGCTGTGCTAGGGCTGGGGTCATA----- 64492

gi | 149361523 | ref | NC\_000074.5 | \_ GCCCAGA-----  
-----CGAGCCTGGAACCTCGGGGACCT----- 47774

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTCTCACTGACCC  
 AGGGCCTCCCCCGTGGAGTTCATAGTCTACATGTT 79516  
 gi | 114795057 | ref | NC\_006483.2 | N ACTCTCACTGACCC  
 AAGGCCTCCCCCGTGGAGTTTATAGTCTACATGTT 86250  
 gi | 73957561 | ref | NW\_876316.1 | Cf ACCCACA CTGGCAC  
 AGTGCCTTCTGCA-CGGAGCTTGCCGTCTATGG--- 49854  
 gi | 194719394 | ref | NC\_007316.3 | N -----CTGACAA  
 GGCACCGGCCGCC-TGGAGCTTACGGTCTAGGG--- 64531  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----CCTGCCAC  
 AGTGTCTGACAGG----AGCACACTG----- 47804

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTCATGACAGAGC  
 TTAAGAAAAACACAGGAAAAATGATCAGCTACTCAT 79566  
 gi | 114795057 | ref | NC\_006483.2 | N TGTCATGACAGAGC  
 TTAAGAAAAACACAGGAAAAATGATCAGCTACTCAT 86300  
 gi | 73957561 | ref | NW\_876316.1 | Cf ----AAGACAGAGC  
 CTAAAT-ATACAGGG-AAAACG-GTTAGGGGCTTGT 49897  
 gi | 194719394 | ref | NC\_007316.3 | N ----GAGACAGAGC  
 CTAACAGATACACCAGAAAAGG-GTCAGCTGCTCAT 64576  
 gi | 149361523 | ref | NC\_000074.5 | \_ ----TGCCTGTGA  
 TGCCATTCTCCCCTCAAACCAAATAAG--GCACAA 47847

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGCTTCACTATT  
 ACAAG---CCAAGTGCTGGGGGTGGGTACAAAATAG 79613  
 gi | 114795057 | ref | NC\_006483.2 | N GTGGCTTCACTATT  
 ACAAG---CCAAGTGCTGGGGGTGGGTACAAAATAG 86347  
 gi | 73957561 | ref | NW\_876316.1 | Cf TTGGGTTCCTTTTT  
 ATGAGGCACCACGTGGAGGGG--TGAACAAAACAGA 49945  
 gi | 194719394 | ref | NC\_007316.3 | N TTGGGTTCATCCTC  
 ATAAG---CCAAGTTCATGG----- 64607  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAAGGGGCGTT  
 TTGGG-----GGTGGGGGG----- 47875

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTTGGTGCTGCCC  
TAGGGAGGCAACAGTCTAATG-GAAATATTCCCAGT 79662  
gi | 114795057 | ref | NC\_006483.2 | N ACTTGGTGCTGCCC  
TAGGGGGGCAACAGTCTAATG-GAAATATTCCCAGT 86396  
gi | 73957561 | ref | NW\_876316.1 | Cf AATGGCACCTGCCC  
TCGGGAGGCAGCAGTCCAACCTTGGATGTCTAGCAAT 49995  
gi | 194719394 | ref | NC\_007316.3 | N --TGCCTCCCTCGC  
TTGGAAG---TCTCCCTGAACTGGACACCTAGGAGT 64652  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGATGCCC  
TA-----CACCTTCCAGGAACTTCTAAACAGAAAG 47913

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gi | 51473102 | ref | NT\_010498.15 | \_ TAATCACACCCCCA  
AAGGCACAGTCCCAGCTGGGATGATACCTCCCGTGC 79712  
gi | 114795057 | ref | NC\_006483.2 | N TAATCACACCCCCA  
AAGGCACAGTCCCAGCTGGGATGATACCTCCCGTGC 86446  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGTCCTACACATA  
CAAGTGTAACAGGGCCTGGGGT---AGGACCGATTA 50042  
gi | 194719394 | ref | NC\_007316.3 | N CAGTCACACATGTA  
AAAG-----CTGGGAT---ATGACCAGTTC 64688  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGACAGTCATGAA  
CTGG-----GCATT 47936

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGAAACATAACAAG  
ACGCTCTGAGTGACCATAACAAGGGAAGTGAACAAAA 79762  
gi | 114795057 | ref | NC\_006483.2 | N ATGAAACATAACAAG  
ACTCTCTGAGTGACCATAACAAGGGAAGTGAACAAAA 86496  
gi | 73957561 | ref | NW\_876316.1 | Cf ACGGAATGCACGGG  
ATGCTCTCGGTGACCTCAACAAGGGACTTCACGTAG 50092  
gi | 194719394 | ref | NC\_007316.3 | N ATGAAACATGTGG-  
ATGCTCTGAGCAACAAGTACCAGGGGCCCTGATGC 64737  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGACCCATGGTGG  
TCACAATGGGGACCCTGATCCAG----CCACAATG- 47981

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACAAGGGTAGTA  
CAGGTTGAAGATTGGCCTTGTTCTTTCTCTGGACTG 79812  
gi | 114795057 | ref | NC\_006483.2 | N GAACAAGGGTAGTA

CAGGTTGAAGATTGGCCTTGTTCTTTCTCTGGACTG 86546  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AGGGGCATG  
TGGATCGAGAGTCAGCCTCAATCCTCCTATGGGCTG 50137  
gi | 194719394 | ref | NC\_007316.3 | N -----AGGGGGCGG  
GTGTCCGG--GTCACAGATCAGCCCTCTCTGGGCTG 64780  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TATTGGTCTCAGGCTCCTCCTAGCCTG 48008

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAAACGTTCCATG  
GATGG---ATTCTAGAACTTCGCGAACCTGTCCAGC 79859  
gi | 114795057 | ref | NC\_006483.2 | N CAAAACGTTCCATG  
GATGG---ATTCTAGAACTTCGCGAACCTGTCCAGC 86593  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCAT-ATCCTATC  
ATGTGGCTTTCTGTAAATTTAGCCTGTC----- 50178  
gi | 194719394 | ref | NC\_007316.3 | N CGTGTGGTTCCATC  
ACATGGACTTCCTGTAACTTCTCTTCCCGGTGGG-- 64828  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CATTG  
TAAAG----TCCAGGTG----- 48026

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTGTGAACAGCA  
CCAGCCTATGATAAATAACTCCGCTGCAAAGATCCC 79909  
gi | 114795057 | ref | NC\_006483.2 | N ACCCGTGAACAGCA  
CCAGCCCATGATCAGTAACTCCGCTGCAAAGATCCC 86643  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGTATTG  
ATGAGCACTAATGGTCCACT-----AAAAATCGC 50215  
gi | 194719394 | ref | NC\_007316.3 | N ----GTCATTTATC  
CCAGACCATCATCGTTAACTGAAACAGATCAATGAC 64874  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TAGACC  
CGGGGCCCTATGTGTTTTGGGGGTTCTGGTAAAGGC 48068

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gi | 51473102 | ref | NT\_010498.15 | \_ CGTGTGTGTCTTTG  
TAACCTTGTGCAGAGTGGGGTGATGGTCAGTATGAA 79959  
gi | 114795057 | ref | NC\_006483.2 | N CGTGTGTGTCTTTG  
TAACCTTGTGCAGAGTGGGGTGATGGTCAGTATGAA 86693  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCAC----CATGA  
CCATCTCTGTGTGCAGGAGTTGAGGGTCCACCATGAG 50261

gi | 194719394 | ref | NC\_007316.3 | N CCCAC----CGTGA  
ACACCTCCGTGTGGACGAGGTGATGGTCACCAGGAG 64920  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTAG-----  
---TATGAGGCAGCTGTCTATGCAG--CAGGAAGCA 48104

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAAGGCTTCCAGT  
GATAG-TGGATTTCTTCCCTTTGTCTTTTCTAAGGA 80008  
gi | 114795057 | ref | NC\_006483.2 | N CCAAGGCTTCCAGT  
GATAG-TGGATTTCTTCCCTTTGTCTTTTCTAAGGA 86742  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAAGGCATCCAAT  
GACAG-----TGGCCTTTTTTCTTTTCCAAGGA 50303  
gi | 194719394 | ref | NC\_007316.3 | N CTGAAGCAGGCAGT  
GACTGCCAATGTTTTTCCCTCTGTATTTTCCAAGGA 64970  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCAG--TGACAGT  
GGGTG---GATTCTTTTCCCTTTTCTTTTCAAGG-A 48148

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAGGAAGACATTT  
ACTTCATGAAAGGGGCCTTGGAAGAGGTGATCCGCT 80058  
gi | 114795057 | ref | NC\_006483.2 | N TCAGGAAGACATTT  
ACTTCATGAAAGGGGCCTTGGAAGAGGTGATCCGCT 86792  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAGGAAGACATTT  
ATTCATAAAGGGGCCTTTGAAGAAGTGATTAATT 50353  
gi | 194719394 | ref | NC\_007316.3 | N GCGGGAAGATATGT  
ACTTCATGAAGGGGGCCTTTGAGGAGGTGATTCGTT 65020  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGGAAGACATTT  
ACTTCATGAAGGGGGCCTTTGAGGAAGTGATCCATC 48198

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGCACCATGTAC  
AACAACGGGGGCATCCCCCTGCCGCTGACGCCCCAG 80108  
gi | 114795057 | ref | NC\_006483.2 | N ACTGCACCATGTAC  
AACAACGGGGGCATCCCCCTGCCGCTGACGCCCCAG 86842  
gi | 73957561 | ref | NW\_876316.1 | Cf ACTGCACCATGTAC  
AACAATGGAGGTATCCCCCTGCCACTGACACCCCCAG 50403  
gi | 194719394 | ref | NC\_007316.3 | N ACTGCGCCATGTAC  
AACCACGGGGGCATCCCCCTGCCGCTGACGCCCCAG 65070  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTGCAGCATGTAT

AACAATGGGGGCATCCCCCTGCCTCTGACACCCCAG 48248 \*\*\*\*\* \*  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGAGGTCATTCTG  
CCTGCAGGAAGAGAAGAGGATGGGGTCGCTCGGTTT 80158  
gi | 114795057 | ref | NC\_006483.2 | N CAGAGGTCATTCTG  
CCTGCAGGAAGAGAAGAGGATGGGGTCGCTCGGTCT 86892  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGAGATCCTTCTG  
GCAGCAGGAGGAGAAGAGGATGGGTTCACCTCGGCCT 50453  
gi | 194719394 | ref | NC\_007316.3 | N CAGCGAGCCTTCTG  
CCAGCAGGAGGAGAAGAAGATGGGATCCCTGGGCCT 65120  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGAAGTCCTACTG  
CCAGCAGGAAGAGAAGAAGATGGGCTCGCTTGGCCT 48298  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCGGGGTCAGTGCC  
TG-TGGTCCCGGCCAGAGCTTTAAGCTTGCATGTA 80207  
gi | 114795057 | ref | NC\_006483.2 | N GCGGGGTCAGTGCC  
TG-TGGTCCCGGCCAGAGCTTTAAGCTTGCATGTA 86941  
gi | 73957561 | ref | NW\_876316.1 | Cf GCGTGGTCAGTACC  
TTCTGCCCCCAGCCCCGAGCTTCGGGTTGGCGCGTC 50503  
gi | 194719394 | ref | NC\_007316.3 | N GCGAGGTCAGTGCC  
TG-TGTTCCAGCCCTACGCTGAG--TCCGCACAGG 65167  
gi | 149361523 | ref | NC\_000074.5 | \_ GCGGGGTTGGTGTC  
AT--GTCTCCCTCTCGTG-----CTC 48331  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTGACTTTTAA  
G-TGCATTCAAGCAGGGTCCCTAGTCAAGGAGGTCA 80256  
gi | 114795057 | ref | NC\_006483.2 | N ACATTGACTTTTAA  
G-TGCATTCAAGCAGGGTCCCTAGTCAAGGAGGTCA 86990  
gi | 73957561 | ref | NW\_876316.1 | Cf AACTGACTCTTCA  
AGTGCATTAATGTGGGGTTCTT-----AGTAAT 50545  
gi | 194719394 | ref | NC\_007316.3 | N ATGCTGACTTCTCA  
AGGGTCATAACGCATGTTCCCTGGTCAACACGATCA 65217  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTGGGGCTTGGAG  
TTTGCCTGTAG----- 48356  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCGTCCCAAGGAG  
-TCAGGCAGCATGCTGACGGCAATAATGTGTGCTTG 80305  
gi | 114795057 | ref | NC\_006483.2 | N CCGTCCCAAGGAG  
-TCAGGCAGCATGCTGACTGCAATAATGTGTGCTTG 87039  
gi | 73957561 | ref | NW\_876316.1 | Cf TGATCAGAATGGCA  
GGCAGGCAGTGTGCTAATGAAAGTAAAGCAAATGTG 50595  
gi | 194719394 | ref | NC\_007316.3 | N TGATCAGAGGGGCG  
-TCAGGTAGAGCGCTGATGGGGCAAAGCCAGGGTG 65266  
gi | 149361523 | ref | NC\_000074.5 | \_ ----TGCAGGGGCG  
GGCTGACAGCAAGG-----CCCAGTGTG 48389

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gi | 51473102 | ref | NT\_010498.15 | \_ GAACCTGATGGTCA  
CATGAAAGGCACAGAGGTCCCCACCTCATCCCAGTT 80355  
gi | 114795057 | ref | NC\_006483.2 | N GAACCTGATGGTCA  
CATGAAAGGCAGAGAGGTCCCCACCTCATCCCAGTT 87089  
gi | 73957561 | ref | NW\_876316.1 | Cf GAATC-CATGGTCA  
GATGAAGGACAGGGAGCCCCCAGCCCATCCCAGCC 50644  
gi | 194719394 | ref | NC\_007316.3 | N GACCCTCCTGGGCA  
GATGAAACATAGGACGCCCTCCA---CATCCTAGCT 65313  
gi | 149361523 | ref | NC\_000074.5 | \_ AACCTTCACAGTCA  
G-----GATGGACCGTCTAGTCACCCAG--- 48426

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTTAGTGACCCCC  
ATTAATCCAGAG-----AAGAGGGTACCCTCCCTTG 80400  
gi | 114795057 | ref | NC\_006483.2 | N CCTTAGTGACTCCC  
GTTAATCCAGAG-----AAGAGGGTACCCTCCCTTG 87134  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCAAACGACCCCT  
GTTAGTCCAGACGTGGCTCGTGTGTGAGAAAGGCTG 50694  
gi | 194719394 | ref | NC\_007316.3 | N GCCAGATGACACCC  
GTTAACCAGATGTACCTCGTGTGTGCGAGGAGAGG 65363  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GACCCCA  
GCTGATCCAGGCGTGGCTTGTGTCCTGGGAGCATCG 48469

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gi | 51473102 | ref | NT\_010498.15 | \_ -----CTG  
AGTTTCCTAAGGCAGGTGAATGGGCTGCACCCCAA 80439



gi | 114795057 | ref | NC\_006483.2 | N -----CTG  
AGTTTCCTAAGGCAGGTGAATGGGCTGCACCCCAA 87173  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGCCTTTCTCCTG  
AGTTTTCTCAGGCAGATGAATGAGGCGTACTAGAAA 50744  
gi | 194719394 | ref | NC\_007316.3 | N -----TCCTG  
AGTTTTCTAAGACATGTGAACAGGCTGCCCCAGAAA 65404  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTTG  
CATGTTCTCTAGGGCATAGGAAGTTTGTACGGTGAA 48509

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gi | 51473102 | ref | NT\_010498.15 | \_ CATTGATTTTCCCA  
ATAGGTCTTTTTTGCTCATTGCCTCTTGTTCAGGAAAA 80489  
gi | 114795057 | ref | NC\_006483.2 | N CATTGATTTTCCCA  
ATAGGTCTTTTTTGCTCATTGCCTCTTGTTCAGGAAAA 87223  
gi | 73957561 | ref | NW\_876316.1 | Cf CATTGATTTTCCCA  
ATTGGTCTTCTTGCTTGTTCAGGAAAA 50794  
gi | 194719394 | ref | NC\_007316.3 | N CGTTGATTTTCCCA  
ATTGGTCATCTTCCTCAAGGCCTGCTTTCAGGAAAA 65454  
gi | 149361523 | ref | NC\_000074.5 | \_ CTAATTTCTGGCAC  
TCT-----CTCACTTCCTGCCTTCTGCCACAAGAA 48553

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCGAAGTTCTTTT  
CAGT-CAAGGAACATATTTTTTCCCTTAGCCATTTT 80538  
gi | 114795057 | ref | NC\_006483.2 | N CCCGAAGTTCTTTT  
CAGT-CAAGGAACATATTTTTTCCCTTAGCCATTTT 87272  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCAAAGCTCTTGT  
AAAATCAAGGCAGACATTTAATTCCTTGCCATTTT 50844  
gi | 194719394 | ref | NC\_007316.3 | N GCCACGGTTCTTGT  
AAAT---GAACAGACATTTTCAATTTCTTGCCATTTT 65501  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTAGAACTCTGAC  
GAAG---GAAGACCGGTCATTTCCATGGCCACTTT 48599

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gi | 51473102 | ref | NT\_010498.15 | \_ CAATTTTCT---GC  
AGCAGAGCCAGTGCCATCCCTGATGGGCTGAACTGA 80585  
gi | 114795057 | ref | NC\_006483.2 | N CAATTTTCT---GC  
AGCAGAGCCAGTGCCATCCCTGATGGGCT-----GA 87314  
gi | 73957561 | ref | NW\_876316.1 | Cf CAATCTTCT---GC

ACCAGGGACAGCGGCTTCCCTGGCGAGCT-AGCTGA 50890  
gi | 194719394 | ref | NC\_007316.3 | N CAGCTTGCT---GC  
ACAG-AGCCGACACCTTCCCTGATGG-----GCTGA 65542  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGGTTTCCTTGGC  
TACATGGTCAATGTCTTCCCCATCAGGCT-----G 48643  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACATTAATCTCAC  
ATTTCCCTTGGTGTTCATTTGTCACCCTGGCCAGTTA 80635  
gi | 114795057 | ref | NC\_006483.2 | N ACATTAATCTCAC  
ATTTCCCTTGGTGTTCATTTGTCACCCTGGCCAGTTA 87364  
gi | 73957561 | ref | NW\_876316.1 | Cf ACATGAAAACGCAC  
ATTGCCCATAGCGCCATTGGTCGGCCTGTCCGTTGC 50940  
gi | 194719394 | ref | NC\_007316.3 | N ACATTAAGTAAGAC  
T----CCCTGCTGTTCATGTGCCAGCCTGTCTGTTAT 65588  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGTTAAAACCCCC  
G-----TGCCATTTGCTGCCCTGTCCCTTGA 48683  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGAGGAAG-CGTT  
TAGAAGTGCTCCTGAGCACTG--GTATTCCTTGGG 80682  
gi | 114795057 | ref | NC\_006483.2 | N CAGAGGAAG-CGTT  
TAGAAGTGCTCCTGAGCACTG--GTATTCCTTGGG 87411  
gi | 73957561 | ref | NW\_876316.1 | Cf CAGACAAAG-TATT  
TAAAAACACTCGGGAACACTCACTCGTATTCTCTCTGG 50989  
gi | 194719394 | ref | NC\_007316.3 | N CAGAGAAAG-TGTC  
TAAAAACACTCTGGAACATG--TGTACTCCCTCAGG 65635  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGAGAAAAAATC  
TGAAAACACTCTGTAATACTT--GTATTTTCATGAGG 48731  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAAGTGAGAGGC  
TTTGGGTTGGCCTTACTGGCTCAGGAGCCTTGGTTT 80732  
gi | 114795057 | ref | NC\_006483.2 | N GGAAAGTGAGAGGC  
TTTGGGTTGGCCTTACTGGCTCAGGAGCCTTGGTTT 87461  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAAAATGAGATGC  
TTTGGGCTG-----GGTGCCAGTTGCCTTGGTTT 51032  
gi | 194719394 | ref | NC\_007316.3 | N GGAAACTGAGCAGC  
TTTGGCTTGCTATATTGGTTTCAATTGCCTTAGTTT 65685

gi | 149361523 | ref | NC\_000074.5 | \_ G---CAGGAGAGGC  
AGTGA ACTAACC-----CTACCCAATACCTCCACCT 48773

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCCCTTCGGGGAA  
CAGAGTTTGTAGGTTGCTGGCAGGCTTGCTCAGAGG 80782

gi | 114795057 | ref | NC\_006483.2 | N TCCCCTTCGGGGAA  
CAGAGTTTGTAGGTTGCTGGCAAGCTTGCTCAGAGG 87511

gi | 73957561 | ref | NW\_876316.1 | Cf TTCCCTTCAGGAAA  
CCGAAATGATAAATTGCCAGCAG-ATTGCTGACAAG 51081

gi | 194719394 | ref | NC\_007316.3 | N TTCTTTGCAGGGGG  
CAGGAATTATAAATTGCTAGTAG-CTCACTGACAAG 65734

gi | 149361523 | ref | NC\_000074.5 | \_ CCCTACTCGGGG--  
-----ACAGATG 48792

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTACGGGGCGAGA  
CCCTTGCGGCTTTCTGGGGCACAGTGAAGCCAGCGC 80832

gi | 114795057 | ref | NC\_006483.2 | N TGTACGGGGCGAGA  
CCCTTGCGGCTTTCTGGGGCACAGTGAAGCCAGCGC 87561

gi | 73957561 | ref | NW\_876316.1 | Cf TGC GCAAGGTGAGG  
ATGTCACAGTGTGCGGAGATGCAGCTTAGTGGG--- 51128

gi | 194719394 | ref | NC\_007316.3 | N TGTTGAAGGTGAGG  
ATGTGGCAGATCTCTGGGACAGAGGTTAGCAGGG-- 65782

gi | 149361523 | ref | NC\_000074.5 | \_ GGTGAGCGCCGAAC  
CCGTGGCAGG---CAAGG----- 48821

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gi | 51473102 | ref | NT\_010498.15 | \_ CGAGCACGTGTCCC  
CTCTTCCCGAGTGAGGGGAGCGTTCCCAAAGCATT 80882

gi | 114795057 | ref | NC\_006483.2 | N CGAGCACGTGTCCC  
CTCTTCCCGAGTGAGGGGAGCGTTCCCAAAGCATT 87611

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GTGGGGAGGAATGAATG----- 51145

gi | 194719394 | ref | NC\_007316.3 | N -----  
--CAGGTAGGAAGGGAGGCATGGCACCCAAATCACT 65816

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAC TTTG CCCCC  
CCAAATGGTTTGTGTTGCGCTGGGTCTACAATAGGC 80932  
gi | 114795057 | ref | NC\_006483.2 | N GGCAC TTTG-CCCC  
CCAAATGGTTCGTGTAGCGCTGGGTCTACAATAGGC 87660  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N GACACACACCCCCA  
GCATCT-----C 65837  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTACAGGTAAATAC  
TGTGCCTCAGTTTCCCATATGCCTAAGGAAGGCAG 80982  
gi | 114795057 | ref | NC\_006483.2 | N TTACAGGTAAATAC  
TGTGCCTCAGTTTCCCATATGCATAAGGAAGGCAC 87710  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N CGGCACACGCCCC  
TGCATCTCTGGTACACGCCCCAGCATCACTGGTAC 65887  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGAGCAGTGACTT  
CATTGATTGCTGTGAGGATTGGAAGAGACGGTGAAT 81032  
gi | 114795057 | ref | NC\_006483.2 | N GAGAGCAGTGACTT  
CATTGATTGTTGTGAGGATTGGAAGAGACGGTGAAT 87760  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N ACGTCCCCAGCATC  
ACTG-----GTAC 65909  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCATCTTAGCTTG

CCCTGAGCCTTGACTCTGTTTCGGTGGCAGAGAAGC 81082  
gi | 114795057 | ref | NC\_006483.2 | N CCCATCTTAGCTTG  
CCCTGGGCCTTGACTCTGTTTCGGTGGCAGAGAAGC 87810  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N ACGTCCCCAGCATC  
ACTGGTACACGCCCCAGCATCACTGGTACACGTCC 65959  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGCCAGCTTCT  
GCGAGCCAGGTGATCTGAGAGGGGCTGGTATAAGAA 81132  
gi | 114795057 | ref | NC\_006483.2 | N CAGGCCAGCTTCT  
GCGAGCCAGGTGATCTGAGAGGGGCTGGTATAAGAA 87860  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N CCAGCATCACTGGT  
ACACGTCC----- 65981  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTCCTTTTTCACCT  
CGCTGACACCAGCGACGGGGCTGTGGCGTCCCTCCT 81182  
gi | 114795057 | ref | NC\_006483.2 | N GGTCCTTTTTCACCT  
CGCTGACACCAGCGACCGGGCTGTGGCGTCCCTCCT 87910  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N ---CCAGCATCACC  
GGTACACACCCCCTGCATCTCTGGCACACGCCCCCA 66028  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCACAGTGGAGAGA  
TTGGGAGACAATCTGGCACGTGGGTGGCAGCTGCTT 81232  
gi | 114795057 | ref | NC\_006483.2 | N GCACAGTGGAGAGA  
TTGGGAGACAGTCTGGCCCGTGGGTGGCAGCTGCTT 87960

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N GCATCACTGGTACA  
CATCCACAGCATCCATCCCTAGCATCACTGGTACAC 66078

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTGTCATGGTTGAT  
ACGACCAAGCCATTCAGTAGCTCCCTGTTCTTGTCAC 81282

gi | 114795057 | ref | NC\_006483.2 | N TCGTCATGGTTGAT  
ACGACCAAGCCATTCAGTAGCTCCCTGTTCTTGTCAC 88010

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GCCCCCTG-----  
-----CATCCCTGGCACACGCTCCCTGAATCACTGG 66117

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATCACGCCTCTGC  
TGACGAAATGGCTCACTTAAGAGTGGACACGTTAGT 81332

gi | 114795057 | ref | NC\_006483.2 | N CATCACGCCTCTGC  
TGACGAAACGGCTCACTTAAGAGTGGACACGTTAGT 88060

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TACCTGTCCCCAGC  
A----- 66132

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGTAAACATCCCA  
CGTGGCCTGGCCTCTAAATCTGCACCTGGCACTTG 81382

gi | 114795057 | ref | NC\_006483.2 | N AAGTAAACATCCCA  
CGTGGCCTGGCCTCTACATCTGCTCCTGGCACTTG 88110

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----CCA

CTGGTACACACCCCCTGCATCA----CTGGTACACG 66167  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCCCACTTGTGT  
GCTGGGCACCAGGTTAAGTGCCTGTGTGAGGCCACG 81432  
gi | 114795057 | ref | NC\_006483.2 | N GGCCCCACCTGTGT  
GCTGGGCACCAGGTTAAGTGCCTGTGTGAGGCCACG 88160  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CCCCCTGCATCACT  
GGTACACGCCCCCTGCATCTCCAGCAC----ACGCT 66213  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGAATCCCCAC  
CGGGCAGAGGAGCCGGCCCAGGTGACACAGCCCTGC 81482  
gi | 114795057 | ref | NC\_006483.2 | N CCCTGAATCCCCAC  
TGGGCAGAGGAGCCGGCCCAGGTGACACAGCCCTGC 88210  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N CCCAGCATCCCCGG  
CACACGCCCCCAGCATCACTGGTACATACCCCCTGC 66263  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTAGTGCAGCCAGC  
GCCTTCGCCCGGATGTCTGCTGCGGAGCGTAATGAC 81532  
gi | 114795057 | ref | NC\_006483.2 | N CTAGTGCAGCCAGC  
GCCTTCGCCCGGATGTCTGCTGCGGAGCGTGATGAC 88260  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N ATC-----CCTGGC  
ACATGCCCC-----A 66283  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCGTTCCAGGGACT  
TGCTCCAGGCCTTGCGGGAGAGCGTAATGAGAACGG 81582  
gi | 114795057 | ref | NC\_006483.2 | N GCGTTCCAGGGACT  
TGCTCCAGGCCTTGCGAGAGAGCGTAATGAGAACGG 88310  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N GCATCACTGGTACA  
TGTTCCCAGCATCACTGGTACAC----- 66320  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCAGTGGCGGAGG  
AGCAGTGAGACCTTTTCCTGTCTTCCCCCAGTGTAC 81632  
gi | 114795057 | ref | NC\_006483.2 | N GTCAGTGGCGGAGG  
AGCAGTGAGACCTTTTCCTGTCTTCCCCCAGTCCAC 88360  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GCCCCCTGCATCTCTGGCACATGCCCCC 66348  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACGCAGGTCCTTTT  
TTGTTTACAAATGGACTTGTCTTCCACCTGTGGCTG 81682  
gi | 114795057 | ref | NC\_006483.2 | N ACGCAGGTCCTTTT  
TTGTTTACAAATGGACTTGTCTTCCACCTGTGGCTG 88410  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N AGCATCACTGGTAC  
ATGTCCCAGCATTACCGGTACACGCCCC----- 66391  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAAACTACAACC  
TGGGAACTGGCCTTAGAGAAGGCCTGTGCGTTTTTC 81732  
gi | 114795057 | ref | NC\_006483.2 | N GGAAAACAACAACC  
TGGGAACTGGCCTTAGAGAAGGCCCGTGCGTTTTTC 88460  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACACTATGC 51154  
gi | 194719394 | ref | NC\_007316.3 | N -----CTGCATCT  
GCAGCACACACCCCCTGCATCTCCAGCACACTCCCC 66435  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAATCTGTGTTTAG  
TCTGGGATGTTATTCCTCAGCAGGTGACCGTGGACT 81782  
gi | 114795057 | ref | NC\_006483.2 | N CAACTTGTGTTTAG  
TCTGGGATGTTATTCCTCAGCAGGTGACCGTGA ACT 88510  
gi | 73957561 | ref | NW\_876316.1 | Cf CA-----  
----- 51156  
gi | 194719394 | ref | NC\_007316.3 | N CAGCAT-----  
-----CATTGGCA 66449  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GATGCCTGCTGCCT  
GGCAGGCCTGGGACAGTGCCCGAGTGACTTAGAGAG 81832  
gi | 114795057 | ref | NC\_006483.2 | N GATGCCTGCTGCCT  
GGCAGGCCTGGGACAGTGCCCGAGTGACTTAGAGAG 88560  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N CATAACCCTCTGCAT  
CTCTGGCAC---ACATTCCCTACATCACTGGTACAC 66496  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCCCAACCTGCT  
AGATCCCCTGGAGTGGCTTGGGCTTTGAGACCCCCC 81882  
gi | 114795057 | ref | NC\_006483.2 | N GCCCCCAACCTGCT

AGATCCCCTGGAGTGGCTTGGGCTTTGTGACCCCC 88610  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N ATCCCCAGCATCAC  
TGGTACACGT-----CCCCTGCATCTCCAGCACAC 66540  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCCACATGCATC  
CAGGGGAAGATGAAAAACCCCACGGAGAGGGAAGGA 81932  
gi | 114795057 | ref | NC\_006483.2 | N ACCCCACATGCATC  
CAGGGGAAGATGACAAACCCCACGGAGAGGGAAGGA 88660  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AC  
TAGCACAGGGTGTCTACACCACTGGCTCGGGACACT 51194  
gi | 194719394 | ref | NC\_007316.3 | N ACCCCCTGCATCTC  
TGGCACACGCTCCCTGCATCACTGGTACATGTCCCC 66590  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TT  
TTGTCCCGGATGCCTGTTCCACAG----- 48847  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTTGGGGTGAGG  
GGAGCACGGAGGCAGGAGTATCCTCTTGGGATAGAG 81982  
gi | 114795057 | ref | NC\_006483.2 | N GAGTTGGGGTGAGG  
GGAGCACGGAGGCAGGAGTATCCTCTTGGGATAGAG 88710  
gi | 73957561 | ref | NW\_876316.1 | Cf GC-----  
-----CAC 51199  
gi | 194719394 | ref | NC\_007316.3 | N AG-----  
-----CAT 66595  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CGCTACTAGGTGGC  
CACTAGAAGCAGGGGATGCTCCTGGGTTGGCAAAGC 82032  
gi | 114795057 | ref | NC\_006483.2 | N CGCTACTAGGTGGC  
CACTAGAAGCAGGGGATGCTCCTGGTTTGGCAAAGC 88760  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTGTCACAGGGC  
CACAGCG----- 51220

gi | 194719394 | ref | NC\_007316.3 | N CACTGGTACATGTC  
CCCAGCATCACTGGTACGCACCCCCTGCATCTCCAG 66645  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGGTTCAGGGAG  
GGGAGGGGACCATTTGGAAAAGGGGAGGAAGGGCGCC 82082  
gi | 114795057 | ref | NC\_006483.2 | N CCAGGTTCAGGGAG  
GGGAGGGGACCATTTGGAAAAGGGGAGGAAGGGCGCC 88810  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----C 51221  
gi | 194719394 | ref | NC\_007316.3 | N CACAGTTTGTATGAC  
TGAGGGGTCACAGCTGAACTTCTTG-----GCCAC 66690  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGTCATTGGCGC  
AGTGTCATGACTGTGTAGGAGGCATGCCAGCCCCAT 82132  
gi | 114795057 | ref | NC\_006483.2 | N AGCGTCATTGGCGC  
AGTGTCATGACTGTGTAGGAGGCATGCCAGCCCCAT 88860  
gi | 73957561 | ref | NW\_876316.1 | Cf CGCCCCGCT---CC  
AGTAGCTGGAAGGTGATG----- 51250  
gi | 194719394 | ref | NC\_007316.3 | N AGCCTCCCT---CC  
AGTATCAGTAAGGTGACA----- 66719  
gi | 149361523 | ref | NC\_000074.5 | \_ ---CTCCAGGGGC  
TGCAGCTGGACAAT----- 48872  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTGGTGTTCAGTG  
AGGGGGCAAGGATGTTCTTACACCACCCCCTCTCAG 82182  
gi | 114795057 | ref | NC\_006483.2 | N CTTTGGTGTTCAGTG  
AGGGGGCAAGGATGTTCTTACACCACCCCCTCTCAG 88910  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGTG  
AGG-----TCAGTTCTCACAACACCCCCTCTCGG 51284  
gi | 194719394 | ref | NC\_007316.3 | N -----CAGTA  
AGG-----TCAGTTCTCAGCACCCTC-CTCAG 66752  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCACCCAGGGGCA  
 GGAGCTGGGCCTGGCTTCTGTGCCACAGAAACAGAG 82232  
 gi | 114795057 | ref | NC\_006483.2 | N ATCACCCAGGGGCA  
 GGAGCTGGCCCTGGCTTCTGTGCCACCGAAACAGAG 88960  
 gi | 73957561 | ref | NW\_876316.1 | Cf AACACCTGTCCCTA  
 GGAGCCTGGCCTGGCTTCTGTGCCACCGAAACAGGG 51334  
 gi | 194719394 | ref | NC\_007316.3 | N AACATCG-TCCCGA  
 G---CTGGGCCTGGCTTCTGTGCTGCTGAAACATGG 66798  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----CTGCCTTGTGTGACCTAGGTTGTTG- 48897

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gi | 51473102 | ref | NT\_010498.15 | \_ TCAAGGCCCAGGGC  
 AAGCTCACAGCAAGAGTCCCCTCAGCTGGGTTGCTC 82282  
 gi | 114795057 | ref | NC\_006483.2 | N TCAAGGCCCAGGGC  
 AAGTTCACAGCAAGAGTCCGCTCAGCTGGGTTGCTC 89010  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCAAGGCCAGG---  
 -----ATGAGCC 51352  
 gi | 194719394 | ref | NC\_007316.3 | N TCCTCTCACCT---  
 -----GTGTTCC 66816  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCCACACCCAT---  
 ----- 48908  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTGTCAATTTTT  
 CTTAACCTCTGTACCGCGCCCCAAGACTGCTGGAG 82332  
 gi | 114795057 | ref | NC\_006483.2 | N CCCTGTCAATTTTT  
 CTTAACCTCTGTACTGCGGCCCAAGACTGCTGGAG 89060  
 gi | 73957561 | ref | NW\_876316.1 | Cf AACAGTCAGAGTAC  
 TCTTACCTG----CAGTGCCCTCCTGTGCATTTTCT 51398  
 gi | 194719394 | ref | NC\_007316.3 | N TCCCGCACACTTTT  
 CGTGACTIONGGTAGCTGCCACCCCAAGTCTGCTGGCA 66866  
 gi | 149361523 | ref | NC\_000074.5 | \_ -CCTTCCCTGTCTA  
 GAGCGCCTG----TGTTGCCCAAGAGACACAGTA 48952  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATGACAAGATGAGT  
TAGCACAGAGCAAATGAGGGCAAGAACTGTTAGAAA 82382  
gi | 114795057 | ref | NC\_006483.2 | N ATGACAAGATGAGT  
TAGCACAGAGCAAATGAGGGCAAGAACTGTTAGAAA 89110  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCCCTGGGGCAG-  
----GTGACAATACGAGAGACAAAAAACCATTTGGAA 51443  
gi | 194719394 | ref | NC\_007316.3 | N GTGACCGAGAAGG-  
----GCAGAGCAATTAGAGACAGCAGGCTGTCGAAA 66911  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGCTTG-----  
-----CTAGGGACAAAAGATG----- 48975

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gi | 51473102 | ref | NT\_010498.15 | \_ CGTCCCATCCTGCT  
CCACCTCACATGTCCCATTCTGGGCCAGCTCACAGG 82432  
gi | 114795057 | ref | NC\_006483.2 | N TGTCCCATCCTGCT  
CCACCTCACATGTCCCATTCTGGGCCAGCTCACAGG 89160  
gi | 73957561 | ref | NW\_876316.1 | Cf AT-----GTG  
CCACTCCACAGATTTCTTCTGG----- 51471  
gi | 194719394 | ref | NC\_007316.3 | N CATCCCG---TGTG  
CCAGCCCACAGACGTTCCCCTGG----- 66945  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
---CTCCCAGCTCCCACCAAG----- 48994

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTCTGCAGCCACT  
TTTGTGGGAAGTGGGGTGGGTCTTATACCATGAGT 82482  
gi | 114795057 | ref | NC\_006483.2 | N TTTCTGCAGCCACT  
TTTGTGGGAAGTGGGGTGGGTCTTATACCATGAGT 89210  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCACT  
CTCATTGGGGT----- 51487  
gi | 194719394 | ref | NC\_007316.3 | N -----CCGCT  
TCCCTTGGGTG----- 66961  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CT  
GTCCTT----- 49002

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGTATTAGTTTA  
TTTTCATGCTACTGATAAAGACAGACCTGAGACTAG 82532

gi | 114795057 | ref | NC\_006483.2 | N GGTGTATTAGTCTA  
TTTTCATGCTACTGATAAAGACAGACCTGAGACTAG 89260  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTAATTTACAAAGA  
AAAAGAGGTTGAATGGACTCAGTTCCACGTGGCTGG 82582  
gi | 114795057 | ref | NC\_006483.2 | N GTAATTTACAAAGA  
AAAAGAGGTTGAATGGACTCAGTTCCACGTGGCTGG 89310  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCGGTTGGCATGTAGACCACCG 51509  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GGACACCGCTGCCGGTGGACAG 66983  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGCCTTGCAAT  
CATGGCAGAAGGTGAAAGGCACGTCTTACATGGCAG 82632  
gi | 114795057 | ref | NC\_006483.2 | N GGAGGCCTTGCAAT  
CATGGCAGAAGGTGAAAGGCATGTCTTACATGGCAG 89360  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
-----TGGACAAATGTCTTGCTTT 51529  
gi | 194719394 | ref | NC\_007316.3 | N G-----  
-----GTCCCGTTTCTCATGGGAC 67003  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTTCTCT----- 49010

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGGCAAGAGAGAA  
TGAGAGCCAAGCCTAAGGGGAAACCCCTCATAAAAC 82682  
gi | 114795057 | ref | NC\_006483.2 | N CCGGCAAGAGAGAA  
TGAGAGCCAAGCAAAGGGGAAACCCCTCATAAAAC 89410  
gi | 73957561 | ref | NW\_876316.1 | Cf CTG-----

----- 51532  
gi | 194719394 | ref | NC\_007316.3 | N GTG-----  
----- 67006  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATCAGCTCTCCTG  
AGATGTATTCACTACCACAGAGCATTGTGGGGAAAA 82732  
gi | 114795057 | ref | NC\_006483.2 | N CATCAGCTCTCGTA  
AGACGTATTCACTACCACAGAGCATTGTGGGGAAAA 89460  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCACCCCATGATTC  
AATTATCTCCCACTGGGTCCCTCCCACAACACGTGG 82782  
gi | 114795057 | ref | NC\_006483.2 | N CCACCCCATGATTC  
AATTATCTCCCACTGGGTCCCTCCCACAACACGTGG 89510  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTGGTCAGGTTTCCTCTCCTAGCTTG----- 51558  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTGTCACTGGCCCTGCTCCCCATCGT----- 67032  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAATTATGGGAGCT  
ACAGTTCAAGATGAGATTTGGGTGGGGACACAGCCA 82832  
gi | 114795057 | ref | NC\_006483.2 | N GAATTATGGGAGCT  
ACAGTTCAAGATGAGATTTGGGTGGGGACACAGCCA 89560  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GGGCCGG----- 51565  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----GGGTGAG----- 67039

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AACCATATCAAGCA  
GACAGCAGTGGTATTTTCTGCTATGCAGCTGTTTCT 82882  
gi | 114795057 | ref | NC\_006483.2 | N AAGCATATCAAGCA  
GACAGCAGTGGTATTTTCTGCTATGCAGCTGTTTCT 89610  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCTTCCTTCTCCA  
TCTGTTGTGCACCTGCGCAGGCCTGAGAGCCGCTGG 82932  
gi | 114795057 | ref | NC\_006483.2 | N GGCTTCCTTCTCCA  
TCTGTTGTGCACCTGCGCAGGCCTGAGAGCCGCTGG 89660  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CCTTCAAGA  
GCTGCTG---CCCCTCACAGGCACAGAGGGACGTGG 51607  
gi | 194719394 | ref | NC\_007316.3 | N -----CTGTCAAAA  
GCTGCTG---CCCTGCGTGGGCCTGAGGACCACTGA 67081  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCATCTCTGCCC  
TCCCTTTCAGGCTAGGGACTTGTTCCTGAGCCCTC 82982  
gi | 114795057 | ref | NC\_006483.2 | N AGGCATCTCTGCCC  
TCCCTTTCAGGCTAGGGACTTGTTCCTGAGCCCTC 89710  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N G-----AATACCT  
TCCCTT-----CCCAC 67100  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCAGACCGAGGAG  
GATCTGGGCCATGGTGGGGGCTGGCTAACAAAGGGC 83032  
gi | 114795057 | ref | NC\_006483.2 | N TGCAGACCGAGGAG  
GATCTGGGCCATGGTGGGGGCTGGCTAACAAAGGGC 89760  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GATGCGG----  
-----AAGGGC 51620  
gi | 194719394 | ref | NC\_007316.3 | N TGTGGTCCAGG---  
-----AACTTAGGGC 67121  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TGCGCACGTTGCCT  
CACACCTGTAATCCCAGCACTTGGGGAGGCTGAGGT 83082  
gi | 114795057 | ref | NC\_006483.2 | N TGCGCACGTTGCCT  
CACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGT 89810  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGGCTG-----  
-----ACTGAGGCCACCATCGC 51644  
gi | 194719394 | ref | NC\_007316.3 | N CCAGCCA-----  
-----CTCGTGGATGCGGTGGG 67145  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCAGATCACCTG  
AGGTCAGGAGTTTGTAGACCAGCCTGGCCAACATGGT 83132  
gi | 114795057 | ref | NC\_006483.2 | N GGGCAGATCACCTG  
AGGTCAGGAGTTTGTAGACCAGCCTGGCCAACATGGT 89860  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCTTGGCCCCGG  
TGGAC----- 51663  
gi | 194719394 | ref | NC\_007316.3 | N GGCCGGGCCGACTG  
GGGACGAAAGTT----- 67171  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAATCCTGTCTCT

ACTAAAAATACAAAAATTAGCTGGGCCTGGAGGCGC 83182  
gi | 114795057 | ref | NC\_006483.2 | N GAAATCCTGTCTCT  
ACTAAAAATACAAAAATTAGCTGGGCCTGGAGGCGC 89910  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ATGCCCGTAATCCC  
AGCTACTCAAGAGGCTGAGGCAGGAGAACGGTTTGA 83232  
gi | 114795057 | ref | NC\_006483.2 | N ATGCCTGTAATCCC  
AGCTACTCAAGAGGCTGAGGCAGGAGAACGGTTTGA 89960  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACCCAGGAGGCAGA  
GGCTGCAGTGAGCCAACATTACACCCTGCACTCCA 83282  
gi | 114795057 | ref | NC\_006483.2 | N ACCCAGGAGGCAGA  
GGCTGCAGTGAGCCAACATTACACCCTGCACTCCA 90010  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACCTGGGCGATAAG  
AACAAAACCTCTCTTAAAAACAACAACAACAACCA- 83331  
gi | 114795057 | ref | NC\_006483.2 | N ACCTGGGCAATAAG  
AACAAAACCTCTCTTAAAAACAACAACAACAAC 90060

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ --ACAACAAAAAAC  
GACGGCCCCTAAGCCCCCGGTGACCCCTCCTTACTC 83379  
gi | 114795057 | ref | NC\_006483.2 | N AAACAACAAAAAAC  
GATGGCCCCTAAGCCCCCGGTGACCCCTCCTTACTC 90110  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTTCTGTGGCTCTGG----- 51678  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----TTCCAAACCTTCCTG----- 67186  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCCCTCTCTCCTCA  
GTGCTGGCCCTGGCTTCTGGGCCCGAGCTGGGGCGG 83429  
gi | 114795057 | ref | NC\_006483.2 | N CCCCTCTCTCCTCA  
GTGCTGGCCCTGGCTTCTGGGCCCGAGCTGGGGCGG 90160  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GTCTCTCCTCA  
GTGCTGGCCCTGGCTTCTGGGCCCGAGCTGGGGAAG 51725  
gi | 194719394 | ref | NC\_007316.3 | N ---CTCTGTCCACA  
GTGCTGGCCCTGGCCTCCGGGCCCGAGCTGGGGAAG 67233  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTCA  
GTGCTGGCCCTGGCGTCTGGACCTGAGCTGGGGAGA 49050

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGACGTTTCTCGG  
TCTTGTGGGCATCATTGACCCCCCGAGAGTTGGCGT 83479  
gi | 114795057 | ref | NC\_006483.2 | N CTGACGTTTCTAGG  
TCTTGTGGGCATCATCGACCCCCCGAGAGCTGGCGT 90210  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGACTTTTCTGGG  
TCTCGTCGGGATCATCGACCCTCCGAGGGCTGGCGT 51775  
gi | 194719394 | ref | NC\_007316.3 | N CTGACGTTTCTGGG

TCTCATCGGAATCATCGACCCTCCCAGGGCTGGCGT 67283  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGACATTCTGGG  
TCTCGTGGGCATCATCGACCACCAAGGGCTGGTGT 49100  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAAGGAAGCAGTCC  
AGGTTCTCTCCGAGTCTGGTGTGTCTGTGAAGATGA 83529  
gi | 114795057 | ref | NC\_006483.2 | N GAAGGAAGCAGTCC  
AGGTTCTCTCCGAGTCTGGTGTGTCTGTGAAGATGA 90260  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAGGAAGCGGTGA  
AGGTTCTCTGTCAGTCGGGAGTGTCTGGTGAAGATGA 51825  
gi | 194719394 | ref | NC\_007316.3 | N GAAGGAAGCAGTCC  
AGGTTCTCTCGGAGTCGGGCTTGTCTGTGAAGATGA 67333  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGGAAGCGGTCC  
AGGTCCTCTCTGAGTCTGGTGTGTCTGGTTAAGATGG 49150  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAACGGGGGATGCC  
CTGGAGACGGCCTTGGCCATAGGTAAGTGGGACAGG 83579  
gi | 114795057 | ref | NC\_006483.2 | N TAACGGGAGATGCC  
CTGGAGACGGCCTTGGCCATAGGTAAGTGGGACAGG 90310  
gi | 73957561 | ref | NW\_876316.1 | Cf TAACAGGCGATGGC  
CTGGAGACTGCCTCAGCCATAGGTAAGCAGGGATGG 51875  
gi | 194719394 | ref | NC\_007316.3 | N TAACGGGGGATGCT  
CTGGAGACGGCCTTGGCGATAGGTACCCGGGGAGGG 67383  
gi | 149361523 | ref | NC\_000074.5 | \_ TGACAGGGGATGCT  
CTGGAGACCGCCTTGGCCATAGGTAACCAGGGTGAG 49200  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCGGGGGTGAGGA  
CGAAAGGACCCATCCATCCTTTACGATGGGGGGCTG 83629  
gi | 114795057 | ref | NC\_006483.2 | N GTCGGGGGTGAGGA  
CGAAAGGACCCATCCATCCTTTACGATGGGGGGCTG 90360  
gi | 73957561 | ref | NW\_876316.1 | Cf --CAGGGTTGGG--  
-----GGGGCTTG 51893  
gi | 194719394 | ref | NC\_007316.3 | N --CTGGAGGGCA--  
-----CGGGCCAC 67401  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGCAGGGAGGG--  
----- 49212

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gi | 51473102 | ref | NT\_010498.15 | \_ CTACCAAAGGGAAG  
 CCTCCGCAAACCTCGGTCAGGAGTGCTCACGCCT-AG 83678  
 gi | 114795057 | ref | NC\_006483.2 | N CTACCAAAGGGAAG  
 CCTCAGCAAACCTCGGTCAGGAGTGCTCACGCCT-AG 90409  
 gi | 73957561 | ref | NW\_876316.1 | Cf CCAGGACTG----C  
 ACACGGCGACCATG----ACCTTTCACAGGCCAGCG 51935  
 gi | 194719394 | ref | NC\_007316.3 | N CACCAGCGCTTATT  
 CCTCGAGGGACCTGGTCAGCAGAGCTCACGCCTGCC 67451  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 ----AAGGGGCCTCGTGCCAGTGTTCCCTGCTCCG 49244

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCTACAGGCTTAG  
 AAAAGACGCTGAGTATTCGTGTGCCAGCATTCCAAT 83728  
 gi | 114795057 | ref | NC\_006483.2 | N CCCTACGGGCTTAG  
 AAAAGACACTGAGTATTCGTGTGCCAGCATTCCAGT 90459  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTCTGCCTTCAGAG  
 ACGG----TCGGCCCTAAAATGTTGGCAGGCCCTCC 51981  
 gi | 194719394 | ref | NC\_007316.3 | N TTCCACGTGCTAGG  
 GAGAGATTTCTGAGGCTCAAGGACCCACATCCCACC 67501  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCTTGTGTCCGAAA  
 GGGG-----AAAAGTCTACATGTAAACGGTGGACC 49288

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTGAG-GTGTTT  
 TCGTTTCTGAAATGTTGGCAGGTTCTGCAAAGGG- 83776  
 gi | 114795057 | ref | NC\_006483.2 | N TTCTGAG-GTGTTT  
 TCGTTTCTGAAATGTTGGCAGGTTCTGCAAAGGG- 90507  
 gi | 73957561 | ref | NW\_876316.1 | Cf GAAGGGGGCGGAG-  
 -----CCCTTGCGACCCCTGACAACCTCGCAAGGG 52024  
 gi | 194719394 | ref | NC\_007316.3 | N GCCCGAGTGGGTGT  
 TTGTCTCTCAAACGTCAGCAGGTTCTCCCAAAGAGG 67551  
 gi | 149361523 | ref | NC\_000074.5 | \_ TACTATG-----  
 -----TATTTAGAGGCTTTGCAGCTGTG- 49318

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gi | 51473102 | ref | NT\_010498.15 | \_ --AAGTTCTCATGG  
ATACTGAGGACCTACTGTGTGTCAGGGGCTTTTCAT 83824  
gi | 114795057 | ref | NC\_006483.2 | N --AAGTCCTCATGG  
ATACTGAGGACCTACTGTGTGTCAGGGGCTTTTCAT 90555  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGG-----A  
GAGGGGGGGTGCTTTTCATTCT-CGAGCTCACTTCCT 52064  
gi | 194719394 | ref | NC\_007316.3 | N GAAGGACCTCAAGC  
GCACTGAGAAGCTTCTGTGTG-CTCGGGCTGTCCGT 67600  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATGTCAATG----- 49327

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gi | 51473102 | ref | NT\_010498.15 | \_ CCGCTGTCTTCACA  
GGCAGCATCATGGCCATGTACAGTTTCAGTCTGCCT 83874  
gi | 114795057 | ref | NC\_006483.2 | N CCGCCGTCTTCACA  
GGCAGCATCATGGCCATGTACAGTTTCAGTCTGCCT 90605  
gi | 73957561 | ref | NW\_876316.1 | Cf CT-----TCCCA  
GGCAATGCCATTCCCAAGTTTACCCCGGGGCGGCT 52107  
gi | 194719394 | ref | NC\_007316.3 | N CC-----ACCCA  
CG-ATCACACCTCATCTCCACAGGCCAGTCTGCCT 67642  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CACA  
AGTGACATCCCACACCG-TGTAGTTCCAGTCTGGCT 49366

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGCCTCTAGCTG  
TGTACCCTTGGCAAACCATTTGAACCACTCTGACCCT 83924  
gi | 114795057 | ref | NC\_006483.2 | N TCTGCCTCTAGCTG  
TGTACCCTTGGCAAACCATTTGAACCACTCTGACCCT 90655  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTGCCATGAGCTG  
TGGGCCCTTGGCACGTCCTGAGCCACTCTGACCCTC 52157  
gi | 194719394 | ref | NC\_007316.3 | N TGTGCCACTAGCCA  
TGTGCCCTGAGCAAACCACTGAGCCACTCTGACCCT 67692  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTCCATTGGCTG  
GGCATCTTTGACAAGCCATAGGACCATCTGATGCTT 49416

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTCTCTTCATCA  
ATAGAGGGCTAGCAG-CCCTTCTCCTCTAGTTACTT 83973  
gi | 114795057 | ref | NC\_006483.2 | N CAGTCTCTTCATCA

GTAGAGGGCTAGCAG-CCCTTCTCCTCTAGTTACTT 90704  
gi | 73957561 | ref | NW\_876316.1 | Cf CCGGCTCTTCGTCC  
GCAGAGGGCTAGCTAGCAACCCTCCTCCTGTAATTC 52207  
gi | 194719394 | ref | NC\_007316.3 | N CAGGCTCTTCCTCG  
GCAGAGGACCAGCT---CCCCCCTCCTCCTCCTACTG 67740  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGTCTCTTCATCA  
GCAGTGGGCCAGCAG----GCCTCCTCTGCCTCCTC 49462

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gi | 51473102 | ref | NT\_010498.15 | \_ TTTTTTTTTTTTTTTT  
TTT-----GAGATGGAGTCTTGTTCTGTTGCC 84014  
gi | 114795057 | ref | NC\_006483.2 | N TTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTGAGATGGAGTCTTGTTCTGTTGCC 90754  
gi | 73957561 | ref | NW\_876316.1 | Cf GACTTAACGCTGTA  
ATG-----AGGG-CATCACACCTTG-CTTTCCTCC 52249  
gi | 194719394 | ref | NC\_007316.3 | N CGTTTATTACTGTT  
GGG-----AGGGGTGTCGCACCTTGGTCTTCTTCC 67784  
gi | 149361523 | ref | NC\_000074.5 | \_ CCATCATTATGGTT  
TGG-----GGCAGTCATGTTG----- 49492

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGCTGGAGTGCA  
GTAGTGCAATCTTGGCTCACTGCAACCTCCACCTCC 84064  
gi | 114795057 | ref | NC\_006483.2 | N TGGGCTGGAGTGCA  
GTGGTGCAATCTTGGCTCACTGCAACCTCCACCTCC 90804  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCACTGTGTCTCAAGGCG-CCCGGCACCGT 52278  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCTCTTGTCTTGAGGCAGCCTGGCACTGG 67814  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----ATTCTGTCCCACCTAAGGTCTGGTGCTGT 49520

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGTTCAAGCAAT  
TCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACA 84114  
gi | 114795057 | ref | NC\_006483.2 | N TGGGTTCAAGCAAT  
TCTCCTGCCTCAGCCTCCTGAGTAGCTGGAACTACA 90854  
gi | 73957561 | ref | NW\_876316.1 | Cf GAA-----CAGA  
TCAGAGGCTCTGGAATCAGACAAAACCACGCCTG-- 52319

gi | 194719394 | ref | NC\_007316.3 | N GGG-----AAGA  
TCTCAGACTCTGGAATCAGACAGAAAGAACCATGGC 67857  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAG-----  
TCACAGGCCAAAGTATCGGGGTTGGTCATGTCAG-- 49558

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCACCCACCACCG  
CGCCCAGCTAATTTTTTTGTATTTTAGTAGAGACGGG 84164  
gi | 114795057 | ref | NC\_006483.2 | N GGCACCCACCACCA  
CGCCCAGCTAATTTTTTTGTATTTTAGTAGAGACGGG 90904  
gi | 73957561 | ref | NW\_876316.1 | Cf -GTTCCAGCATTGC  
CACTCAGCAGCTCTGTGACCTTGGGGAAATCCCTTC 52368  
gi | 194719394 | ref | NC\_007316.3 | N AGGTCCAGTCTTAG  
CACTTACCTGCCCTGTGACCTTGAGAAAACCACCTC 67907  
gi | 149361523 | ref | NC\_000074.5 | \_ GTGCCAGTAATAAC  
CACTTCCCAGAAGTGTGGCCTCAGGGAAGCCAATTC 49608

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gi | 51473102 | ref | NT\_010498.15 | \_ G-TTTCACTGTGTT  
GCCCAGGCTGGTCTTGAACCTCCTGAACCTCAGGGAAT 84213  
gi | 114795057 | ref | NC\_006483.2 | N G-TTTCACTGTGTT  
GCCCAGGCTGGTCTTGAACCTCCTGAACCTCAGGGAAT 90953  
gi | 73957561 | ref | NW\_876316.1 | Cf T---TCCCTTCCCT  
CACCTTTAGAGCAGGGATAACGGG-GCTCTGTGGGA 52414  
gi | 194719394 | ref | NC\_007316.3 | N CCTCTCAGTTGCCT  
CATCTCTAAAGTGGGGATCATAAGGCCTTTGTTGCC 67957  
gi | 149361523 | ref | NC\_000074.5 | \_ T---TGCATAGCTT  
CCTTGTCGTGGGTATAAACGTAGGTTACCGTGGTT 49655

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGCCCACCTCGGC  
CTCACAAAGTGCTGGGATTACAGGCATGAGCCACTG 84263  
gi | 114795057 | ref | NC\_006483.2 | N CTGCCCACCTCG--  
-----GGATTACAGGCATGAGCCACTG 90987  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGTACTTCCTTG-  
-----GATGGAGTTGAGACCGTGTGACGTAG 52453  
gi | 194719394 | ref | NC\_007316.3 | N AGTTTGTTCCTGTG-  
-----GATGGAATTAAGGTCACATACCGTAG 67996  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTCAGACATAG-



-----TGAAGACGGGCTAAAGTCAGT- 49689

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gi | 51473102 | ref | NT\_010498.15 | \_ CGCCCAGCCCCTCT  
AGTTACTATTATATGGGTGGTCTCAGCCTGGTGCTG 84313

gi | 114795057 | ref | NC\_006483.2 | N CGCCCAGCCCCTCT  
AGTTACTATTATATGGGTGGTCTCAGCCTGGTGCTG 91037

gi | 73957561 | ref | NW\_876316.1 | Cf CAGGTG-----  
----- 52459

gi | 194719394 | ref | NC\_007316.3 | N CAGGTGGGGCCAGG  
GGTAAAGAATCAGCCTGCAGTGCGGGAGACGCAAGA 68046

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAAAGGTTTCACG  
GGCTTTGGAATCAGAGCCGTGTCAG-GTTCCAGTGT 84362

gi | 114795057 | ref | NC\_006483.2 | N GGAAAAGGTTTCACG  
GGCTTTGGAATCAGAGCCGTGTCAG-GTTCCAGTGT 91086

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTTGGTGGCTG--GTGG 52474

gi | 194719394 | ref | NC\_007316.3 | N GACGCAGGTTCAAT  
CCCTGGGTCAGGAAGACCGCCTGGAGAAGGGAGTGG 68096

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ TACTCCTTACCAGC  
TGTGTGTCCTCGGCAAAGTCACTTCTGTTTCCCCAT 84412

gi | 114795057 | ref | NC\_006483.2 | N TACTCCTTACCAGC  
TGTGTGTCCTCGGCAAAGTCACTTCTGTTTCCCCAT 91136

gi | 73957561 | ref | NW\_876316.1 | Cf CTGCCG----AGGC  
TTTTCTTCTTG-----TCATTCTCTGTGGCCC 52511

gi | 194719394 | ref | NC\_007316.3 | N CAACCCGCTCCAGT  
ATTCCTGCCTGG--AGAATCCCATGCACAGAGGAGC 68144

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTGTGTCAA 49698

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTAAAGTGGGGA  
TAATGAGGCGTTTGGTGTAAGTTAATCCTGTGGATA 84462  
gi | 114795057 | ref | NC\_006483.2 | N CTTTAAAGTGGGGA  
TAATGAGGCGTTTGGTGTAAGTTAATCCTGTGGATA 91186  
gi | 73957561 | ref | NW\_876316.1 | Cf AGG-----  
----CAGG-----GACTGAGGT-- 52527  
gi | 194719394 | ref | NC\_007316.3 | N CTGGCGGGCTGCAG  
TCCACAGGGCCTCAGAGTCAGACACGACTGAGGG-- 68192  
gi | 149361523 | ref | NC\_000074.5 | \_ ATG-----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GAACCGAGGCCGTG  
CAGCATGGTAGGTCCTCAG-TAAACCGTCTCCAGCA 84511  
gi | 114795057 | ref | NC\_006483.2 | N GAACCGAGGCCGTG  
CAGCATGGTAGGTCCTCAG-TAAACCGTCTCCAGCA 91235  
gi | 73957561 | ref | NW\_876316.1 | Cf CACACGGTGGAGT-  
-----GAGGGGCGGGCA 52552  
gi | 194719394 | ref | NC\_007316.3 | N CACGCACAGCATAG  
CAGCATAGCTCTCCAAGTGGAGCAGAGGAGCCTGGC 68242  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCGGGAGGGTC 49712

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGTTTTATTCTTG  
GTGTTCCCATGGCCGAGGTGGGGCCGGGAGTGAGG 84561  
gi | 114795057 | ref | NC\_006483.2 | N TGGTTTNNNNNNNNN  
NNGCGTCATTGGCTCAGTGTGTCATGACTACTTGGAGG 91285  
gi | 73957561 | ref | NW\_876316.1 | Cf CGG-----GAG  
CAGTCTCAGG--CTTGGGAGCAAGCCCTCAGAACGG 52592  
gi | 194719394 | ref | NC\_007316.3 | N GGG-----CTG  
CAGTCCACGGGGCCGCAGAGTCAGACACGACTGAGG 68284  
gi | 149361523 | ref | NC\_000074.5 | \_ AGG-----G  
CCACCGTTCAGGCCCGGGAGCCACTCCTCAGCCCTG 49752

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGGGGACGCGGG  
CCTCAGAG-CAGGCCCTCAGAACAGGTTCTTCTGAA 84610

gi | 114795057 | ref | NC\_006483.2 | N CACGCCAGCCCCAT  
CTTTGGTGTTCAGTGAGTGGGCATGGGATGTTCTTAC 91335  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATTCTCT  
GTACCATG-CAGGAAGGAACATCGGCCTGTGCAACG 52634  
gi | 194719394 | ref | NC\_007316.3 | N -----GCACGCA  
CAGCATAG-CAGCATAGCTCTCCAACCTGGAGCAGAG 68326  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACTCTCT  
CAAAGG-----AAGAACCATCGGCCTGTGCAACG 49788

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGAAACATCGG  
CCTGTGCAACGGGAAGCTGCAAGCCATGTCCGGGGA 84660  
gi | 114795057 | ref | NC\_006483.2 | N CCCACCCCTCTCA  
GATCACCAGGGGCAGGAGCTGGCCCTGGCTTCTGT 91385  
gi | 73957561 | ref | NW\_876316.1 | Cf GG---AAGCTGAAA  
GCCATGTCCGGGGAAGAGGTGG---AGAGCATGGA 52677  
gi | 194719394 | ref | NC\_007316.3 | N GAGCCTGGCGGGCT  
GCAGTCCACGGGGCCGCAGAGT---CAGACACGAC 68372  
gi | 149361523 | ref | NC\_000074.5 | \_ AG---AAACTGAAA  
GCTATGTCCGGGGAGGAGGTGG---AAGGCACGGA 49831

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGTGGACAG--  
--CGTGGAGAAGGGCGAGCTGGCCGACCGCGTGG-- 84704  
gi | 114795057 | ref | NC\_006483.2 | N GCCACCGAAACAGA  
GTCAAGGCCAGGGCAAGTTCACAGCAAGAGTCCGC 91435  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAGG-----  
-----AGGAGCTGGCCAACCTGCATCGGG---- 52705  
gi | 194719394 | ref | NC\_007316.3 | N TGAGGGCACGCACA  
GCATAGCAGCATAGCTCTCCAACCTGGAGCAGAGGAG 68422  
gi | 149361523 | ref | NC\_000074.5 | \_ GCAGG-----  
-----GTGCACTAGCAGCCCGAGTGAGG---- 49859

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gi | 51473102 | ref | NT\_010498.15 | \_ ---GGAAGGTGGGT  
CCCCGG--AGGCTTGGCTGGCAGTGGGGCTGGG--- 84746  
gi | 114795057 | ref | NC\_006483.2 | N TCAGCTGGGTTGCT  
CCCCTGTCAATTTTTGTTAACCTCTGTACTGCGGCC 91485  
gi | 73957561 | ref | NW\_876316.1 | Cf -AAGGTGGGGTCTCT

--CCCGGGGGGCGGGGGGAGAGTGTCAGCTCCG--- 52749  
gi | 194719394 | ref | NC\_007316.3 | N CCTGGCGGGCTGCA  
GTCCACGGGGCCGCAGAGTCAGACACGACTGAGGGC 68472  
gi | 149361523 | ref | NC\_000074.5 | \_ -CAGGTGGGTTCCC  
--CCCGGGGGGAGACAGGGCAGGGATGGAGGGGGTC 49906

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACAGCT--TTGA  
AATCTGATTCTTCGTCTTCCCCGTCTCCGTGT---- 84790  
gi | 114795057 | ref | NC\_006483.2 | N CCAAGACTGCTGGA  
GATGACAAGATGAGTTAGCACAGAGCAAATGAGGGC 91535  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGGTCAC----CA  
ACTCTGCTCTTCTGTGCCTCTATATCCAGG----- 52788  
gi | 194719394 | ref | NC\_007316.3 | N ACGCACAG----CA  
TAGCAGCATAGCTCTCCAAGTGGAGCAGAGGA---- 68514  
gi | 149361523 | ref | NC\_000074.5 | \_ CTCCATCG----CC  
CATGTCCACTGATGGCTCTTTGACTCCCTATG---- 49948

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gi | 51473102 | ref | NT\_010498.15 | \_ -CCAGGTGTCCGTG  
TTCTTCAGGACCAGCCCAAAGCACAAGCTCAAAATC 84839  
gi | 114795057 | ref | NC\_006483.2 | N AAGAAGTGTTAGAA  
ATGTCCCATCCTGCTCCACCTCACATGTCCCATTTCT 91585  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TATCTGTC  
TTCT-----TCAGGACCAGCCCA 52814  
gi | 194719394 | ref | NC\_007316.3 | N --GCCTGGCGGGC  
TGCAGTCCACGGGGCCGCAGAGTCAGACACGACTGA 68561  
gi | 149361523 | ref | NC\_000074.5 | \_ -CCAGGTGTCTGTG  
TTCT-----TCAGGACCAGCCCA 49979

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCAAGGTTTCGCTG  
GGCAAGGCAGGCACAGGCTGCG-CTGCTGGGGCCGG 84888  
gi | 114795057 | ref | NC\_006483.2 | N GGGCCAGCTCACAG  
GTTTCTGCGGCCACTTTTGTGGGAAGTGGGGGTGG 91635  
gi | 73957561 | ref | NW\_876316.1 | Cf A----AGCACAAGC  
TCAAAATCATAAAG-----GTA 52841  
gi | 194719394 | ref | NC\_007316.3 | N G----GGCACGCAC  
AGCATAGCAGCATAGCTCTCCAAGTGGAGCAGAGGA 68607

gi | 149361523 | ref | NC\_000074.5 | \_ A----AGCACAAGG  
TTAAAATCATAAAG-----GT 50005

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCAGAGACACTGT  
GGCTCGAGGAGCTCATGCGTCCGTCCGGTGACAGTG 84938

gi | 114795057 | ref | NC\_006483.2 | N GTCTTATACCATGA  
GTGGTGTATTAGTCTATTTTCATGCTACTGATAAAG 91685

gi | 73957561 | ref | NW\_876316.1 | Cf AGCTGTGGGCCT--  
---CATCTGTCCTTCAGGGTCAGTCCAGGACGATGG 52886

gi | 194719394 | ref | NC\_007316.3 | N GCCTGGCGGGCTGC  
AGTCCACGGGGCCGCAGAGTCAGACACGACTGAGGG 68657

gi | 149361523 | ref | NC\_000074.5 | \_ AACTGGG-----  
--CCAAATGACAGGGGCGGGCCGTCCAGGGTGGGAC 50046

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGGCCCG-----  
-ACCGTGGCTTCCTTCTCTAGGTCCAGGG----- 84975

gi | 114795057 | ref | NC\_006483.2 | N ACAGACCTG-----  
-AGACTAGGTAATTTACAAAGAAAAGAGGTTGAAT 91729

gi | 73957561 | ref | NW\_876316.1 | Cf CGG-----  
-----TGGCTCTGCTCCAGGG----- 52905

gi | 194719394 | ref | NC\_007316.3 | N CACGCACAGCATAG  
CAGCATAGCTCTCCAAGTGGAGCAGAGGAGCCTGGC 68707

gi | 149361523 | ref | NC\_000074.5 | \_ CATCCGGGG-----  
-----TGGCAGGCTCTCAGCTGG----- 50073

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gi | 51473102 | ref | NT\_010498.15 | \_ ---CAGCTGCCCCG  
GGAGTTACCTTTTCATAGCCAGGGGGAGGGGAGGAG 85022

gi | 114795057 | ref | NC\_006483.2 | N GGAATCAGTTCCAC  
GTGGCTGGGGAGGCCTTGCAATCATGGCAGAAGGTG 91779

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
AGTGACCCGGGGCCGGAGCTGGCGGGAGCCTCGGCC 52941

gi | 194719394 | ref | NC\_007316.3 | N GGGCTGCAGTCCAC  
GGGGCCGCAGAGTCAGACACGACTGAGGGCACGCAC 68757

gi | 149361523 | ref | NC\_000074.5 | \_ -----CCAA  
GCAACAGGATTGATCCAAGGGGCAGGCTACTCAGCT 50113

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTGAGCAGGGGCG  
CGTGGGCAGCTCCCTTGGAGAGGACGAGG-CTCTGA 85071  
gi | 114795057 | ref | NC\_006483.2 | N AAAGGCACGTCTTA  
CATGG-CAGCCGGCAAG-AGAGAATGAGAGCCAAGC 91827  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCCTT-----  
-----AAACAG-----CGGGTGGGGAGC 52965  
gi | 194719394 | ref | NC\_007316.3 | N AGCATAGCAGCATA  
GCTCTCCAAGTGGAGCAGAGGAGCCTGGCGGGCTGC 68807  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCCTTGGCTGTAG  
CTTTCTTCTCTCGGTTCTAGGCAGCTGCATGTATCC 50163

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gi | 51473102 | ref | NT\_010498.15 | \_ AGTTGCCAGCAACA  
CTTGCGCTGACAGCCCCTTG----- 85105  
gi | 114795057 | ref | NC\_006483.2 | N CAAAGGGGAAACCC  
CTCATAAAACCATCAGCTCT----- 91861  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAACAGAGGGACA  
TT----- 52981  
gi | 194719394 | ref | NC\_007316.3 | N AGTCCACGGGGCCG  
CAGAGTCAGACACGACTGAGGGCACGCACAGCATAG 68857  
gi | 149361523 | ref | NC\_000074.5 | \_ CATGGACCCATCCC  
CACTTATAG----- 50186  
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gi | 51473102 | ref | NT\_010498.15 | \_ -GCCAGAACACAGT  
CACGGGCCAGGTTTAGCTGCAGGGGATGCTGGGAA 85154  
gi | 114795057 | ref | NC\_006483.2 | N -CGTAAGACGTATT  
CACTACCACAGAGCATTGTGGGGAAAACCCAT 91910  
gi | 73957561 | ref | NW\_876316.1 | Cf -TGCCATGTTCACC  
AAAAACAGGAGTGGG-AATTACATGGTGCAG---AG 53026  
gi | 194719394 | ref | NC\_007316.3 | N CAGCATAGCTCTCC  
AACTGGAGCAGAGGAGCCTGGCGGGCTGCAGTCCAC 68907  
gi | 149361523 | ref | NC\_000074.5 | \_ -GGCAGGATTTGCC  
ATCACGTGTTTAGCTACCAAGGATG-----C 50225

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGTCATCTGTAGC

TGGGCGGACACGAGCCCCACCAAACCTGGGGATAAT 85204  
gi | 114795057 | ref | NC\_006483.2 | N GATTCAATTATCTC  
CCACTGGGTCCCT--CCCACAACACGTGGGAATTAT 91958  
gi | 73957561 | ref | NW\_876316.1 | Cf GGAAAAACAGAAAG  
CAACAAGCCT-----CCACTAGTCAATGCTCTTTG 53070  
gi | 194719394 | ref | NC\_007316.3 | N GGGGCCGCAGAGTC  
AGACACGACTGAGGGCACGCACAGCATACAGCATAG 68957  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGAAGCACCATC  
TCTCCTGGGATAGGTACTTCACAGCTAAAGCAGGAG 50275

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gi | 51473102 | ref | NT\_010498.15 | \_ -----TTTAAAG  
AAGATGGGAGAACTGGGGGACCTTTGCTACATACAG 85247  
gi | 114795057 | ref | NC\_006483.2 | N GGGAGCTACAGTTC  
AAGATGAGATTTGGGTGGAGACACAGCCAAAGCATA 92008  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GCATCG  
TTCTTG-----CTACTTACCTGCAGGCCTC 53101  
gi | 194719394 | ref | NC\_007316.3 | N -----CTCTCC  
AACTGGAGCAGAGGAGCCTGGCGGGCTGCAGTCCAC 68999  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGGG  
CCCTATAAAGGTGGTTGTGGGAAAGCCAGGGTCCAC 50315

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gi | 51473102 | ref | NT\_010498.15 | \_ TGAAAACCTGGGAGC  
TGT--AATTGGATAACGTAGAGGGAAAACTAAAAG 85295  
gi | 114795057 | ref | NC\_006483.2 | N T-CAAGCAGACAGC  
AGTGGTATTTTCTGCTATGCAGCTGTTTCTGGCTTC 92057  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTTCCCCCGTCTG  
T----AACTGGGGGCAG-----TATGGGTGAT 53139  
gi | 194719394 | ref | NC\_007316.3 | N GGGGCCGCAGAGTC  
AGACACGACTGAGGGCACGCACAGCATAGCAGCATA 69049  
gi | 149361523 | ref | NC\_000074.5 | \_ TGACCACAGACACT  
GGAAAAGGCAGGGGGAGCTACATGCTGTAAAAAGAA 50365

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAAGCTATCTTTT  
TTTTTTCTGG-----GGGTGGGGTTGTAGGTAC 85337  
gi | 114795057 | ref | NC\_006483.2 | N CTTCTCCATCTGTT  
GTGCACCTGCGCAGGCCTGAGAGCCGCTGGAGGCAT 92107

gi | 73957561 | ref | NW\_876316.1 | Cf GTTGGCTAGATG--  
-----TCGGCTACT--TCACAA 53166  
gi | 194719394 | ref | NC\_007316.3 | N GCTCTCCAAGTGG  
GCAGAGGAGC-----CTGGTGGGCTGCAGTCCACGG 69094  
gi | 149361523 | ref | NC\_000074.5 | \_ AATATTCAGGTGGC  
CCACACGGAGCTGGCCTGGTTTTTCTTTGTTCAGCCA 50415  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGTCTTGCTCTG  
TCA--CCTAGGCTGCAGTG-----CAGTGGCACAAT 85380  
gi | 114795057 | ref | NC\_006483.2 | N CTCTGCCCTCCCTT  
TCAGGCTAGGGACTTGTG-----CCTGAGCCCTCT 92152  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCTGCTGAG-----  
-----AGGGTTATAGG-----AGGCCAGGCTGC 53199  
gi | 194719394 | ref | NC\_007316.3 | N GGCCGCAGAGTCAG  
ACACGACTGAGGGCACGCA-----CAGCATAGCAGC 69139  
gi | 149361523 | ref | NC\_000074.5 | \_ GAAGCCTGTGAGTC  
TCAGGCCTTGCCCCACATCTGTTCTGGAAGTTTGC 50465  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTCGGCTTACTTCA  
ACCTCTGCCT-----CCCAGGGTT 85413  
gi | 114795057 | ref | NC\_006483.2 | N GCAGACCGAGGAGG  
ATCTGGGCCATGGTGGGGGCTGGCTAACAAAGGGCT 92202  
gi | 73957561 | ref | NW\_876316.1 | Cf GAAGCTC-----CT  
GGCACAGAG-----CCTGGCA 53224  
gi | 194719394 | ref | NC\_007316.3 | N ATAGCTCTCCAAGT  
GGAGCAGAGG-----AGCCTGGCG 69172  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAGCTCTCTGGTA  
GCTGCATTGTG-----TCCTTTGGG 50499  
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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCGATTCTCCTG  
CCTCAGTCTCCCAAGTAGCTGGGATTGCGGTGTGC 85463  
gi | 114795057 | ref | NC\_006483.2 | N GCGCACGTTGCCTC  
ACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTG 92252  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCAGCAG-----  
GTGCCTAG-----CA 53242  
gi | 194719394 | ref | NC\_007316.3 | N GGCTGCAGTCCACG



GGGCCGCAGAGTCAGACACGACTGAGGGCACGCACA 69222  
gi | 149361523 | ref | NC\_000074.5 | \_ GGATGTTTGGGGGG  
GGGGGTCTGGGTTGTTTAGGTTTTAGTG----CTAA 50545

gi | 51473102 | ref | NT\_010498.15 | \_ ACCAGCACACCCGG  
CTAATGTTTGTAATTTTAGTAGAGGCAGGGTTTCGC 85513  
gi | 114795057 | ref | NC\_006483.2 | N GGCAGATCACCTG-  
---AGGTCAGGAGTTTGAGACCAGCCTGGCCAACAT 92298  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGAGTTGATGTGG  
TTTTTTGCTG-----GTGCCAGGAGG--AGGGT 53282  
gi | 194719394 | ref | NC\_007316.3 | N GCATACAGCATAGC  
TCTCCAACCTGGAGCAGAGGAGCCTGGCGGGCTGCAG 69272  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAATTTATAGTGG  
CTCATGGCTGTCATCCCAGTATCCAGAAGGCAGAGG 50595

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gi | 51473102 | ref | NT\_010498.15 | \_ CATGTTGGCCAGGC  
TGGTCTCAAACCTCCTGACCTCAGGTGATCCG----- 85558  
gi | 114795057 | ref | NC\_006483.2 | N GGTGAAATCCTGTC  
TCTACTAAAAATACAAAAATTAGCTGGGCCTGGAGG 92348  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTATGGGTGTGCC  
CTGTCTCCTGCACGTGGGCACTAGAAGATGCACT-- 53330  
gi | 194719394 | ref | NC\_007316.3 | N TCCACGGGGCCGCA  
GAGTCAGACACGACTGAGGGCACGCACAGCATAG-- 69320  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGGAGGATCATGA  
GAGCCAAGATAGCCTGAGCTACATAGAAAGATG--- 50642

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gi | 51473102 | ref | NT\_010498.15 | \_ -----CCT---AT  
CTTCGCCTCCCAAAGTGCTGGG-----TGCTTTT 85592  
gi | 114795057 | ref | NC\_006483.2 | N CGCATGCCTGTAAT  
CCCAGCTACTCAAGAGGCTGAGGCAGGAGAACAGTT 92398  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTGTAGCT  
CTCTCCTATTTTATCCTTTATGCCA----- 53363  
gi | 194719394 | ref | NC\_007316.3 | N -----CAGCATAG  
CTCTCCAACCTGGAGCAGAGGAGCCTGGCGGGCTGCA 69364  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
CTATTCAGAGAGAGAGAGAAAGAGAG----AGGTTT 50674

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGCTTTATTCCTT  
 TTACTCAACTCCGTGCCTCCGTTTCCTCATCTGTAA 85642  
 gi | 114795057 | ref | NC\_006483.2 | N TGAACCCAGGAGGC  
 AGAGGCTGCAGTGAGCCAAC-ATTACACCACTGCAC 92447  
 gi | 73957561 | ref | NW\_876316.1 | Cf -TTTTTCAGGGTTTT  
 TAGTTCTAGGGAGTAAATCTCCATGCACG----- 53405  
 gi | 194719394 | ref | NC\_007316.3 | N GTCCACGGGGCCGC  
 AGAGTCAGACACGACTGAGGGCACGCACAGCATAGC 69414  
 gi | 149361523 | ref | NC\_000074.5 | \_ ATATATATGAATGT  
 GGGTACACATGCGCCCCAGTGCACGTGTGTGTAAAT 50724

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gi | 51473102 | ref | NT\_010498.15 | \_ AATGGGGGAACTAT  
 TAATG-CCGTCAGCTGATTCACAGGGTTG-GTAGAG 85690  
 gi | 114795057 | ref | NC\_006483.2 | N TCCAACCTAGGCAA  
 TAAGA-ACAAAACCTCTCTTAAAAAACAAC-AACAAC 92495  
 gi | 73957561 | ref | NW\_876316.1 | Cf ----TTATTCCTAA  
 GAGAA-AACATTCATACTTATTGGGCA-----CCAC 53445  
 gi | 194719394 | ref | NC\_007316.3 | N AGCATAGCTCTCCA  
 ACTGG-AGCAGAGGAGCCTGGCGGGCTGCAGTCCAC 69463  
 gi | 149361523 | ref | NC\_000074.5 | \_ CACATGACAACCCG  
 TTGAAGTCCATTCTCTCCTACTGACCATGTGGGTCC 50774

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gi | 51473102 | ref | NT\_010498.15 | \_ AATTAAACAAAGCC  
 AGGCCCATGAATCTCTTGGCACACAGCAGGAGCCCA 85740  
 gi | 114795057 | ref | NC\_006483.2 | N AACAAACAACAACA  
 AAAAACGATGGCCCCTAAGCCCCCGGTGACCCCTCC 92545  
 gi | 73957561 | ref | NW\_876316.1 | Cf GTGGTCTCAGGG--  
 -----GTAAGCTGT 53466  
 gi | 194719394 | ref | NC\_007316.3 | N GGGGCCGCAGAGTC  
 AGACACGA----CTGAGGGCACGCACAGCATAACAGC 69509  
 gi | 149361523 | ref | NC\_000074.5 | \_ TGGGAATCACACTT  
 GGG-----GCATCAAGA 50800

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gi | 51473102 | ref | NT\_010498.15 | \_ ATAAAGAGCTGATG  
TGATTTTT-CTGACTCTGAATACCAAAAAAAGGTAG 85789  
gi | 114795057 | ref | NC\_006483.2 | N TTACTCCCCCTCTC  
TCCTCAGTGCTGGCCCTGGCTTCTGGGCCCGAGCTG 92595  
gi | 73957561 | ref | NW\_876316.1 | Cf TGACTTTTACTTCT  
----TAGTGGAGACGG-----ACAACACG--- 53500  
gi | 194719394 | ref | NC\_007316.3 | N ATAGCTCTCCA  
GGAGCAGAGGAGCCTGGCGGGCTGCAGTCCACGGGG 69559  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGTGACAAAGCT  
GCTTTGCTTGATGAGGCATCTTGCTAGCCCCAACAA 50850

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATGTGCTTGGT  
TTTCTCGCCTGTG-CTCTGAAAGTTTGCTCTTGAGC 85838  
gi | 114795057 | ref | NC\_006483.2 | N GGGCGGCTGACGTT  
TCTAGGTCTTGTGGGCATCATCGACCCCCCGAGAGC 92645  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AATAAGCC  
TTCACTATGGGCTTG-----GTGCCGTCACACCC 53537  
gi | 194719394 | ref | NC\_007316.3 | N CCGCAGAGTCAGAC  
ACGACTGAGGGCACGCACAGCATAGCAGCATAGCTC 69609  
gi | 149361523 | ref | NC\_000074.5 | \_ TATTGGCTTAGTTT  
ACTGCTAACAGTGCCTTTGACGAGCCACCTGTGTTG 50900

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTTTAGTAGACG  
GGCTTTCTTCTTTCATGTTATTTTTAGCTCTACAGA 85888  
gi | 114795057 | ref | NC\_006483.2 | N TGGCGTGAAGGAAG  
--CAGTCCAGGTTCTCTCCGAGTCTGGTGTGTCTGT 92693  
gi | 73957561 | ref | NW\_876316.1 | Cf GCCTTCTT-----  
-----ACTGTAGCTCTCACAGAAGGAGG 53568  
gi | 194719394 | ref | NC\_007316.3 | N TCCA  
AGGAGCCTGGCGGGCTGCAGTCCACGGGGCCGCAGA 69659  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCTAGTTGGG---  
-----GTCTCACGGCAGCCCGTGAGGCCAG 50936

gi | 51473102 | ref | NT\_010498.15 | \_ GTAAATCCCTATGT  
GAGTTACTCCT-CAAAGAAGGTAGTAATACTTACCA 85937  
gi | 114795057 | ref | NC\_006483.2 | N GAAGATGATAACGG

GAGATGCCCTGGAGACGGCCTTGGCCATAGGTA ACT 92743  
gi | 73957561 | ref | NW\_876316.1 | Cf GACGGTCGC-----  
-----CCCCACTTTGCAGATGG---AGAAGCT 53601  
gi | 194719394 | ref | NC\_007316.3 | N GTCAGACACGACTG  
AGGGCACGCACAGCATAGCAGCATAGCTCTCCA ACT 69709  
gi | 149361523 | ref | NC\_000074.5 | \_ GATGGTGACTG---  
-----TCATTTGCTTTGTAGATAAAGTAAC 50972  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTACCCCATGGTT  
TCCAGGGCCGCACTGTTGATTACTG--TTTATTACT 85985  
gi | 114795057 | ref | NC\_006483.2 | N GGGACAGGGTCGGG  
GGTGAGGACGAAAGGACCCATCCATCCTTTACGATT 92793  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGGTTGAGAGGTT  
CAGGG-----CTTACCCAGTTCCCACAGCG----- 53640  
gi | 194719394 | ref | NC\_007316.3 | N GGAGCAGAGGAGCC  
TGGCGGGCTGCAGTCCACGGGGCCGAGAGTCAGAC 69759  
gi | 149361523 | ref | NC\_000074.5 | \_ TGAGCTGAGTAGTT  
CAGGG-----CCATGCTCCTGCAGTAG----A 51009  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGGACTGGATAACC  
TTTATGAG----CCTTTACTGACCGTGCTGGGCACC 86031  
gi | 114795057 | ref | NC\_006483.2 | N GCCCTCCTATTGCC  
CTTACCTTGAGCCCTACAAACAGCCAACCTACCACT 92843  
gi | 73957561 | ref | NW\_876316.1 | Cf GCAAGTG-----  
-----TGAGCAGGGCTGGGATTCAGAC 53669  
gi | 194719394 | ref | NC\_007316.3 | N ACGACTG-----  
-----AGGGCACGCACAGCATACAGCA 69788  
gi | 149361523 | ref | NC\_000074.5 | \_ GCCACTG-----  
-----TGACTAGGCCAGTTAGCCCCG 51037  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTCACATCCGTCAT  
CTCAGTTTGGGCCTCA-CAACAGCCCTGGGAAGAAG 86080  
gi | 114795057 | ref | NC\_006483.2 | N AATAGTCACATCAT  
CCAAAGGGAAGCCTCAGCAAACCTCGGTCAGGAGTGC 92893  
gi | 73957561 | ref | NW\_876316.1 | Cf TT--CAGCCAGCTG  
ACTCCAGAGAGGCGCCTCTGCTGTGCGCCGTGTGAT 53717

gi | 194719394 | ref | NC\_007316.3 | N TAGCTCTCCA ACTG  
GAGCAGAGGAGCCTGGCGGGCTGCAGTCCACGGGGC 69838  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTTCTGGAGGATA  
GG--TGGTCTGCTGCCCATGGTACAACAGGGAGGA 51085

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gi | 51473102 | ref | NT\_010498.15 | \_ AACTGTTGCTCCC  
ACTTTGCAGATAGGGAACTGAGGTCAAGAGGGTCA 86130  
gi | 114795057 | ref | NC\_006483.2 | N TCACGCCTAGCCCT  
ACGGGCTTAGAAAAGACACTGAGTATTCGTGTGCCA 92943  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGAGAGCCAGAGC  
ATCCAGAGGGGAAGGAAGG---AAGGTTCTTCACTCA 53764  
gi | 194719394 | ref | NC\_007316.3 | N CGCAGAGTCAGACA  
CGACTGAGGGCACGCACAGCATAGCAGCATAGCTCT 69888  
gi | 149361523 | ref | NC\_000074.5 | \_ CGCCAGAAAAGGTC  
TAAGAGTGCCCTTGGGCCACGTGTGAGCCTCCACCG 51135

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGGCTCGCCCAAT  
TCCCACAG---CTAATGTGGGTGAAGCTG---GGAT 86174  
gi | 114795057 | ref | NC\_006483.2 | N G---CATTCCAGTT  
TCTGAGGTGTTCTCGTTTCTGAAATGTTGGCAGGTT 92990  
gi | 73957561 | ref | NW\_876316.1 | Cf T-----CTCTTCTT  
TCCAAAGG-CTTTGCAG----- 53789  
gi | 194719394 | ref | NC\_007316.3 | N C-----CAACTGGA  
GCAGAGGAGCCTGGCGGGCTGCAGTCCACGGGGCCG 69933  
gi | 149361523 | ref | NC\_000074.5 | \_ C-----CTGCTCTT  
CACACAGG-CGTTGCAG----- 51160

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGAATTCCGGGTG  
CCCTCCAG---ACAGAG-----GTGTCTGTG 86211  
gi | 114795057 | ref | NC\_006483.2 | N CTGCAAAAGGGAAG  
TCCTCATGGATACTGAGGACCTACTGTGTGTCAGGG 93040  
gi | 73957561 | ref | NW\_876316.1 | Cf --GAATCAGGGACG  
ATCGTGG----- 53808  
gi | 194719394 | ref | NC\_007316.3 | N CAGAGTCAGACACG  
ACTGAGGGCACGCACAG----- 69964  
gi | 149361523 | ref | NC\_000074.5 | \_ --GAGTCGGGGGCA

ATTGTAG----- 51179  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCTGGCCACAG--G  
GTGTGCATGGCCGGGCACTGGGAGGTGGTTCG---TC 86256  
gi | 114795057 | ref | NC\_006483.2 | N GCTTTTCATCCGCC  
GTCTTCACAGGCAGCATCATGGCCATGTACAGTTTC 93090  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
----CCATGACAGGGGACGGGGTG----- 53828  
gi | 194719394 | ref | NC\_007316.3 | N ---CATAGCAGCAT  
AGCTCTCCAAGTGGAGCAGAGGTGGTTTTGTTCTTG 70011  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----CCATGACGGGGGATGGTGTG----- 51199

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGCTGCAGGCCTT  
CATTGCCTGCTCTTTCCAAAGGCTCTGCAGGAGTCA 86306  
gi | 114795057 | ref | NC\_006483.2 | N AGTCTGCCTTCTGC  
CTCTAGCTG--TGTACCCTTGGCAAACCATTTGAACC 93138  
gi | 73957561 | ref | NW\_876316.1 | Cf AATGACGCAGTCGC  
CCTGAAGTCTGCGGACATCGGGATTGCCAT----- 53872  
gi | 194719394 | ref | NC\_007316.3 | N TTTCTCCCAGTGGC  
CAAGGAAGGGCCAGATGTCAGGCAGGCGCAGTGAGG 70061  
gi | 149361523 | ref | NC\_000074.5 | \_ AATGACTCCGTTGC  
CCTGAAGTCTGCGGACATCGGGATCGCCAT----- 51243

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGCGATCGTGG-  
-CCATGACTG---GGGATGGGGTGAACGACGCAGT 86350  
gi | 114795057 | ref | NC\_006483.2 | N ACTCTGACCCTCAG  
TCTCTTCATC---AGTAGAGGGCTAGCAGCTCTTC 93184  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGGCAGACAGGGA  
CAGATG-----TGAGCAAAGAGGCTGCCAACATGAT 53917  
gi | 194719394 | ref | NC\_007316.3 | N GGTGAGGGCAGGGA  
CCACAGGCTCAGGCCCTCAGAAGGGACCATCCCCTT 70111  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGACAGACAGGGA  
CAGATGTCAG-----CAAAGAGGCAGCCAACATGAT 51288

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCCTGAAGTCTG  
CAGACATTGGGATCGCCAT-----GGGGCAGACA 86393  
gi | 114795057 | ref | NC\_006483.2 | N TCCTCTAGTTACTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCT 93234  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTGGTGGACGATG  
ACTTCTCG-----GCCATC-----ATGTAAGT 53953  
gi | 194719394 | ref | NC\_007316.3 | N CCCGTCCCAGGAAG  
GAACGTCGGTCTGTGCAATG-----GGAAGCTG 70153  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGGTGGATGACG  
ACTTCTCG-----GCCATC-----ATGTGAGT 51324

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGACGGACGTCAG  
CAAAGAGGCCGCCAACATGATCCTGGTGGATGATGA 86443  
gi | 114795057 | ref | NC\_006483.2 | N TGTTCTGTTGCCTN  
NN 93284  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCTCAGTAGCTGG  
GTTTTTTTTTTTAGTGG----- 53983  
gi | 194719394 | ref | NC\_007316.3 | N AGCGCCATGTCCGG  
GGAAGAGGTGGAAAGCGCCGAGCAGGGAGAGCTGGC 70203  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCCATACCTGCAT  
CCCAGAATGCACTGTGGTGGATATGAGGGGGTTCTT 51374

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTCTCAGCCATCA  
TGTAAGCTG----- 86466  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 93334  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CAGAA  
AG----- 53990  
gi | 194719394 | ref | NC\_007316.3 | N CGAGCACATCGGGA  
AGGTGGGGT----- 70226  
gi | 149361523 | ref | NC\_000074.5 | \_ GTAGGGTTCAGGGA  
AGTCTCTGG----- 51397

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 93384  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 93434  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 93484  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 93534  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN

NN 93584

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN

NN 93634

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN

NN 93684

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 94034

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 94084

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----CCCTTCTGGTTGTTTTTCAGTTGCAAAA 86495

gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NNNNNNNTCCTGCCTCAGCCTCCTGAGTAGCTGGAA 94134

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCCTGGGGTAACCAGCTG----- 54008

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCCCCCCGGGGCTCGCCGGCGGGGCAG 70255

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGAGAGAGCTACATCCCAGACATAT 51422

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCCTGGGGTCACC  
AGCTTCTCCCTGGAACCTGCTACTGTGGAGATAGAG 86545

gi | 114795057 | ref | NC\_006483.2 | N CTACAGGCACCCAC  
CACCACGCCAGCTAATTTTTTTGTATTTTAGTAGAG 94184

gi | 73957561 | ref | NW\_876316.1 | Cf -----CCCCCCA  
ACCGGCATCTGTTGTGCTAG-----A 54037  
gi | 194719394 | ref | NC\_007316.3 | N GCGGGGCTGCCCCG  
GTCCTCAGCACTGATGCTCTGTCCTCTCCGGCTCCG 70305  
gi | 149361523 | ref | NC\_000074.5 | \_ CACTGTGGCAGGGG  
TCCCCACCCCAGATGTATGGAGCCTCTCAGGGAAG 51472

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGGGGGTCTCGCG  
GAGTCCCCAGGGAGAGCTGAATCTCG-GGGCTCG-- 86592  
gi | 114795057 | ref | NC\_006483.2 | N ACGGGGTTTCACTG  
TGTTGCCAGGCTGGTCTTGAACCTCCTGAACTCAGG 94234  
gi | 73957561 | ref | NW\_876316.1 | Cf GATAGGAGTGTCCC  
AGGCCCATAG---GGCACCCAGGGGGATGTTACAG 54083  
gi | 194719394 | ref | NC\_007316.3 | N GCTCCAGGTGTCCG  
TCTTCTACAGGACCAGCCCAAAGCACAACTCAAAA 70355  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTCAGGGCTGTCC  
TGTCCTCACTGAGGAACATAAAGGACGCCTAGCCCG 51522

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gi | 51473102 | ref | NT\_010498.15 | \_ ---TCAGTGTGGCA  
GG---TGCCCCAACCCEAAGTACCAACAGCCTCT 86635  
gi | 114795057 | ref | NC\_006483.2 | N GAATCTGCCCAACT  
CGGGATTACAGGCATGAGCCACTGCGCCCAGCCCCT 94284  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAACATG-----  
CAGCAGACCCTGCTTGAGCCTGAGGGTGCATCTGAC 54127  
gi | 194719394 | ref | NC\_007316.3 | N TCATCAAGGTCAGT  
CATGCGCCTCTTCTGGTCCCTCGGGGCACAGCTCGA 70405  
gi | 149361523 | ref | NC\_000074.5 | \_ G---TGGGTCTCA  
ACCTTCCTAATGCTGAGCACCTTTAACAGAGCTCCT 51568

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gi | 51473102 | ref | NT\_010498.15 | \_ CATAGCAGGGTCAT  
G-GGGTCCATGATGCCTGGGGCTAGTCACATGCTGC 86684  
gi | 114795057 | ref | NC\_006483.2 | N CTAGTTACTATTAT  
ATGGGTGGTCTCAGCCTGGTGCTGGGAAAAGGTTCA 94334  
gi | 73957561 | ref | NW\_876316.1 | Cf GGG---AAAGCCA  
GGATCGGGGCACTGATGGAGG-----CATATG---- 54164  
gi | 194719394 | ref | NC\_007316.3 | N GGTGGGTGGGGGGC

GGGTGGCGGCTCTGCTCACGGGTGGCCCAGTGGGGG 70455  
gi | 149361523 | ref | NC\_000074.5 | \_ CGT-----ATTGTG  
GTGACCCCCCCCATCATAAAGTTATTGTGTTGCTAC 51613

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gi | 51473102 | ref | NT\_010498.15 | \_ C---CCCAGGGGAA  
TGTTACGGATATG-AAGCAGAGATGGGATTTGCTGC 86730  
gi | 114795057 | ref | NC\_006483.2 | N CGGGCTTTGGAATC  
AGAGCCGTGTCAGGTTCCAGTGTTACTCCTTACCAG 94384  
gi | 73957561 | ref | NW\_876316.1 | Cf ----CCAGCGGGCC  
TGCTGCG-GCCCCATTTATGGGGAAAGCCTAGACGG 54209  
gi | 194719394 | ref | NC\_007316.3 | N C---CCCAGGGCAGC  
TGCCCCG-GCCTCTGGGGAGAGGAGAACTGGGGAGG 70502  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCATAACTATAAT  
TGTGCTGGTTCTGAATTGTGATGTAAATATTTATGG 51663

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGTGGGTGCATTT  
CATGTGGTACTGGGAATGCCCGCCTGGCTCAGGCTG 86780  
gi | 114795057 | ref | NC\_006483.2 | N CTGTGTGTCTCGG  
CAAAGTCACTTCTGTTTCCCCATCT--TTAAAGTGG 94432  
gi | 73957561 | ref | NW\_876316.1 | Cf CCCTAGG-----  
-----AGGAGTACGACAGGGGCA----- 54234  
gi | 194719394 | ref | NC\_007316.3 | N CCCTGTG-----  
-----CTGCGTCCACCAAAGGCAGGGAG 70532  
gi | 149361523 | ref | NC\_000074.5 | \_ AGATATTT-----  
-----TGGAGTTTGCCAAATGCAAG--- 51691

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gi | 51473102 | ref | NT\_010498.15 | \_ GTGGGCAGCAGCTG  
AATATGTAAGGAAAACCTGTGGCCAAATACGTGCTC 86830  
gi | 114795057 | ref | NC\_006483.2 | N GGATAATGAGGCGT  
TTGGTGTAAAGTTAATCCTGTGGATAGAACCGAGGCC 94482  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TGGGAACTGGGTGG  
TGGAAAGGGAGGAATGCAGAGGCCAGCCTTGGTTAG 70582  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ ACACCTTGAGTGTGG  
G-----GTGAGAAAGGATTAAAATGA 86865  
gi | 114795057 | ref | NC\_006483.2 | N GTGCAGCATGGTAG  
GTCCTCAGTAAACCGTCTCCAGCATGGTTTTATTCT 94532  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TTAAAATC 54242  
gi | 194719394 | ref | NC\_007316.3 | N TCGGGTGCTTCTTG  
GTGTA-----TTAATTTGGTGTATTA ACTCC 70622  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GGGGTCG 51698

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gi | 51473102 | ref | NT\_010498.15 | \_ ACATCTTCCGTTTG  
-----AGGCCTG-----CGTGTGATAACATA 86900  
gi | 114795057 | ref | NC\_006483.2 | N TGGTGTTCATG  
GCCGAGGTAGGGCCGGGAGTGAGGGGTGGGGACGGG 94582  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGTCTTG-----  
-----AGGAATATATCAA 54263  
gi | 194719394 | ref | NC\_007316.3 | N AGGCCTTAGTTTCC  
-----TCATCTGTAAACTGGGGAGAATGTGAG 70663  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCCGACAGATTG  
-----GGACCCACAGTCCTAG 51728

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gi | 51473102 | ref | NT\_010498.15 | \_ TATCTCAGGCATTG  
CAAAGAGACCTG-----GGCAGAAACACCCCA 86942  
gi | 114795057 | ref | NC\_006483.2 | N GGCCTCAGAGCAGG  
CCCTCAGAACAGGTTCTTCTGAAGGAAGAAACATCG 94632  
gi | 73957561 | ref | NW\_876316.1 | Cf AGACACGGAAATGC  
TCACGCTGCAGTGTTAAGTGAGGGGGAGAAATGTCT 54313  
gi | 194719394 | ref | NC\_007316.3 | N CAATACCAGCTAAT  
TCACAAGGCAGGAGAGAAGAGGGTGAAATGAAGCCA 70713  
gi | 149361523 | ref | NC\_000074.5 | \_ AGCCACTTAACTAA  
CCAGGAACCAGAGGCAGCTGTTAGAAACCATGGTTG 51778

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gi | 51473102 | ref | NT\_010498.15 | \_ TCGCTG---ACCAC  
GG--AGGTGCTCTCTAGGTTCTGGGGCTTGCACAAA 86987  
gi | 114795057 | ref | NC\_006483.2 | N GCCTGT---GCAAC  
GGGAAGCTGCAAGCCATGTCCGGGGAGGAGGTGGAC 94679  
gi | 73957561 | ref | NW\_876316.1 | Cf GCG-----  
-----TCCCTGGCACTGACATGATCTCG----- 54339  
gi | 194719394 | ref | NC\_007316.3 | N GCCCGTGAAGCCTT  
TACAGCTGCCTGGCCCACAGCAGTGCCCAGGAAGAA 70763  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTTGAG-----  
--GGAGGGGCTCGGTCACCAAAGTGCTCGG----- 51813

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTATTTGTTCTGT  
TTCACTTTTCTGTATTTTTTTCTTAATACATTTACC 87037  
gi | 114795057 | ref | NC\_006483.2 | N GGCGTGGAGAAGGA  
CGAGCTGGCCGACCGCGTGGGGAAGGTGGGTCCCCG 94729  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AG  
CTGCCAAGATGACAGGGCG-----CCTG 54364  
gi | 194719394 | ref | NC\_007316.3 | N CTGGTGTGACGGTG  
CTTCAAAAACAACAGGGCTGGAGTGAGAGGCTCCTG 70813  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CCTG  
CAAGCATGGGGACATGAATG-----TGGTACCCT 51846

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gi | 51473102 | ref | NT\_010498.15 | \_ TT--CCTAATTTTA  
ATTAGTTCTGAGACTCTCCTCATAAG----- 87075  
gi | 114795057 | ref | NC\_006483.2 | N GAGGCTTGGCTGGC  
GGTGGGGCTGGGTCACAGCTTTGAAATCTGATTCT- 94778  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCTCTTGTG--TC  
GCTTTTTTCTGTTTTCTTAATAAAGTTGC----- 54405  
gi | 194719394 | ref | NC\_007316.3 | N CAGACGTGTGCTTT  
TCCTGTACACGGATGCTTTGAAAAGTTGCTCTTTAA 70863  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGTCGGCATGAAA  
ACTTGCCAGGCAGGATGGTAGAGG----- 51885

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gi | 51473102 | ref | NT\_010498.15 | \_ -----CTAA  
TCGCAGTGGTTAGTTGGGGGTGAGGGAAAACTTTT- 87114  
gi | 114795057 | ref | NC\_006483.2 | N -----TCGTCT



TCCCCGTCTCCGTGTCCAGGTGTCCGTGTTCTTCAG 94820  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-CTGCCCTCTAGCTCTAATTTTAATTAGTTCTAATG 54440  
gi | 194719394 | ref | NC\_007316.3 | N TGCTTGTGTTTTTC  
TCTTCTGTGTTACTTGGGGGTTTTTTTAGTTCTACAG 70913  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-CTGTCAGGGAGACCCTGGGCTCATGAGCCAGCCGA 51920

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gi | 51473102 | ref | NT\_010498.15 | \_ --TAAGCCTGATAC  
AAAAAATCCAAATAAACAAATATTGAGG--CTAGGT 87160  
gi | 114795057 | ref | NC\_006483.2 | N GACCAGCCCAAAGC  
ACAAGCTCAAATCATCAAGGTTTCGCTGGGCAAGGC 94870  
gi | 73957561 | ref | NW\_876316.1 | Cf A-----  
--AGTCTTTCCTCATATGTGAATTTAAAGAATTTGG 54475  
gi | 194719394 | ref | NC\_007316.3 | N AGTGAATCTCTGTA  
CCAGTCATTCTTCAAAGAAAATATTAATACCTGTTG 70963  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTCGACCAGTTGG  
CGAGCTCCAGGCCAGTCAGAGATCTTGTCTCACAGG 51970

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gi | 51473102 | ref | NT\_010498.15 | \_ GG--ATCGTGCACT  
TTACAAAGGTGTCTCCACAGTTGATTCGCCATAGGA 87208  
gi | 114795057 | ref | NC\_006483.2 | N GGGCACAGGCTGCG  
CTGCTGGGGCCAGGCCAGAGACACTGTGGCTCCAGG 94920  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
-----TTGGGAGAAAAT-----TTTGCTCAAG- 54498  
gi | 194719394 | ref | NC\_007316.3 | N GGCATGACATGGAT  
TCACATGGGGACAAACTGATTATTCTTTGTTAATGG 71013  
gi | 149361523 | ref | NC\_000074.5 | \_ GAG----GGCAGT  
CTTCCTGGGGATGACATCTGGGGTTGTTCTCTGGCC 52015  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCCTTAACACACT  
TAGAAAAAAGTTCATAGATAGCTCTTATT 87258  
gi | 114795057 | ref | NC\_006483.2 | N AGCTCATGCGTCCG  
TCGGGTGACAGGGCAGGGCCCGACCGTGGCTTCCTT 94970  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CCTGGTACCAA  
AAATCTGAACAAAATTGAAGTTTGGTGTGGTTTCT 54545

gi | 194719394 | ref | NC\_007316.3 | N TTGTCAACTGAAAA  
AAATCAAGCACACCATGGGAGTTGTGAGTTTTACTT 71063  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCACACTAATCAA  
CACTTGCATAAATAAAAGCCATGGTTGGAAGTTCAA 52065

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gi | 51473102 | ref | NT\_010498.15 | \_ ATTTTG-----A  
AATACGTCCCATCAATACCTAATTTATT---GAGA 87297  
gi | 114795057 | ref | NC\_006483.2 | N CTCTAGGTCCAGGG  
CAGCTGCCCGGGAGTTACCTTTTCATAGCCAGGGG 95020  
gi | 73957561 | ref | NW\_876316.1 | Cf GACTTTACAGAAGG  
AGGCTTTTCTTTATAAA-----T 54577  
gi | 194719394 | ref | NC\_007316.3 | N GAGGCAGAATGAGG  
ATGATAGCCCAGAGATAGCACCTCGGGTAGCGCTGA 71113  
gi | 149361523 | ref | NC\_000074.5 | \_ CAAAGAAGCACATA  
CGTGTGACTCCTGAATTCAG-----GA 52101

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gi | 51473102 | ref | NT\_010498.15 | \_ GTTTTTTAGCATGAA  
GGGTTGTTGAATTTTGTCAAAGGCTTTTTTCTGCATC 87347  
gi | 114795057 | ref | NC\_006483.2 | N GAGGGGAGGAGGAT  
GAGCAGGGGCGCGTGGGCTCTGAAGTTGCCAGCAAC 95070  
gi | 73957561 | ref | NW\_876316.1 | Cf GGATGCACCATAGG  
-----AATCCTTA 54599  
gi | 194719394 | ref | NC\_007316.3 | N GGAACCGCCCCAGA  
GCGGGGAGGACAGATGGAGGGACTCTGTGACACCAG 71163  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCAGAGGCAGGGG  
GATTGAAG-----TTGCCCTTC 52132

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gi | 51473102 | ref | NT\_010498.15 | \_ TATTGAGATAATCA  
TGTGGT-----TTTTGTCTTTGGCTCTG-TTTA 87388  
gi | 114795057 | ref | NC\_006483.2 | N ACTTGCGCTCACAG  
CCCGTTGGCCAGAACACAGTCACGGGCCAGGTTTA 95120  
gi | 73957561 | ref | NW\_876316.1 | Cf GCATGCTTCTCCCT  
T-----AGGGGGTG 54622  
gi | 194719394 | ref | NC\_007316.3 | N ACATGCAACTCTGG  
TGCCGTGCTGACAGCACACATTATAGCGGAGGCTTG 71213  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTGGATTTAATGT

AACCAG-----CTGA 52156  
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gi | 51473102 | ref | NT\_010498.15 | \_ TATGCTGG-----  
-----ATTACATTTATTGATTTGCGTATATTGAAC 87426  
gi | 114795057 | ref | NC\_006483.2 | N GCTGCAGGGGATGC  
TGGGAAGTGTTCATCTGTAGCTGGGCGGACACGAGCC 95170  
gi | 73957561 | ref | NW\_876316.1 | Cf AAAAAAGT-----  
-----CATAAGATGCAGTT-AATAAGTAACT 54655  
gi | 194719394 | ref | NC\_007316.3 | N GTGCTAGT-----  
-----CACGAGGAGCTGATGTCTCTGTTGAT 71247  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGACTTT-----  
-----AAGACTTTGCTCTTAAGTAAATCACA 52190  
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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCCTTGCAT---  
-----CCCAGGGATGAAG-----CCCA 87454  
gi | 114795057 | ref | NC\_006483.2 | N CCACCAAACCTGGG  
GATAATTTTAAAGAAGATGGGAGAACTGGGGGACCT 95220  
gi | 73957561 | ref | NW\_876316.1 | Cf GTAATTTTAGT---  
-----TCTT 54670  
gi | 194719394 | ref | NC\_007316.3 | N GACTTTTTTAGT---  
-----GCTT 71262  
gi | 149361523 | ref | NC\_000074.5 | \_ ATACTTAAAGC---  
-----A 52202  
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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGATCATGGTGG  
ATAAGCTTTTTGATGTGCTG-----CTGGA 87493  
gi | 114795057 | ref | NC\_006483.2 | N TTGCTACATACT  
GAAAAGTGTGAGCTGTAATTGGATAGCGTAGAGGGA 95270  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAAAAATTTTAG  
GAGAAAAAAGGGCTAAGCAG----- 54704  
gi | 194719394 | ref | NC\_007316.3 | N TTCTGGATATGGAA  
GGATGTAAGAATCGAGGCTTG-----TA 71299  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGCACACTTAGAA  
GGTTGTTTTTAACAACAAAG----- 52237  
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gi | 51473102 | ref | NT\_010498.15 | \_ TTCGGTTTGCCAGT  
ATTTTATTGAGGATTTTGCATCAATGTTTCATCAAG 87543  
gi | 114795057 | ref | NC\_006483.2 | N AAAACTAAAACAGA  
AGCTATCTTTTTTTTTTTGTGGGGTGGGGTTGTAG 95320  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TATTCTGTGTTAGTGA CTACTAGAT 54728  
gi | 194719394 | ref | NC\_007316.3 | N ACATCTGCTCCTGA  
AAATAGCTAGCCTGTTCTGTGGGTTTCTCCCTCACT 71349  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CACCATTGTAGCAAAGTTTCTCTGCCA 52264

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gi | 51473102 | ref | NT\_010498.15 | \_ GATATTGGTCTAAA  
ATTCTCTTTTTTGGT--TGTGTCTCTGCCCGGCTTT 87591  
gi | 114795057 | ref | NC\_006483.2 | N GTACGGAGTCTCGC  
TCTGTCACCTAGGCTGCAGTGCAGTGGCACAATCTC 95370  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAGTTTTT-----  
TAAAGGACTTTTGCAG-AGTTT-----TCAAAAAA 54766  
gi | 194719394 | ref | NC\_007316.3 | N CCTCATCTAGACCC  
TGAGCTGCTTTTGGGG-TGTGTGGAAGGTCAGCGGC 71398  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAAAAATACTCTT  
CCAAGCATGATTGGGTATGGGTG-----TCTGTCTG 52309

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTATCAGAATGAT  
GCTGGCCTCAT--AAAATGAGTTAGGGAGGATTCCC 87639  
gi | 114795057 | ref | NC\_006483.2 | N GGCTTACTTCAACC  
TCTGCCTCCAGGGTCAAGCGATTCTCCTGCCTCAG 95420  
gi | 73957561 | ref | NW\_876316.1 | Cf TACAATAGAGG-TT  
AAAACCTCCTGATT----- 54793  
gi | 194719394 | ref | NC\_007316.3 | N TGCAGTGGCTGGTT  
ACTTCATCCTTGTAGAAGCAGGTGGCCAG----- 71441  
gi | 149361523 | ref | NC\_000074.5 | \_ TCAGTCTGTGTAGC  
CCTCGGACATAGGAG----- 52338

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTTTTTTCTATTGA  
TTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTC 87689

gi | 114795057 | ref | NC\_006483.2 | N TCTCCCAAGTAGC  
TGGGATTGCGGTGTGCACCAGCACACCCGGCTAATG 95470  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCTCCCTCTTG-- 54806  
gi | 194719394 | ref | NC\_007316.3 | N --TTTTTGTGTCA  
TGGTGACAGATGACACAGGCACTGTCCCCTCTGTGG 71489  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TACCTATAACCCTGGTACTG 52358

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGTACCTCTGGT  
AGAATTCGG-----CTGTGAATCCATCTGGTCC 87731  
gi | 114795057 | ref | NC\_006483.2 | N TTTGTATTTTTAGT  
AGAGACAGGGTTTCGCCATGTTGGCCAGGCTGGTCT 95520  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
---CCATGC-----CCCT----- 54816  
gi | 194719394 | ref | NC\_007316.3 | N TCTTAGTTTAGGGC  
TCACCACAG-----CCCTGAAAAGGAGGGGCT 71530  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
----TGAGG-----AGCAGAGACAGTTGGATCC 52382

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGACTCTTTTTGG  
TTGGTAAACTATTGATTATTGTCACAATTTTCAGAG- 87780  
gi | 114795057 | ref | NC\_006483.2 | N CAAACTCCTGACCT  
CAGGTGATCCGCCTATCTTCGCCTCCCAAAGTCTG 95570  
gi | 73957561 | ref | NW\_876316.1 | Cf --GCGTCTAATTAG  
CAGGTTGGATTGCTGTG----- 54845  
gi | 194719394 | ref | NC\_007316.3 | N GTGATCCCACTTTG  
CAGATGGAAAAGCTGAGGCCGAGAGGGTTCATGGCTC 71580  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGGACTTGCTGG  
CTGTTAGCTTTGCTTCAG----- 52414

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGTTATTGGTCT  
ATTCAGAGATTCAACTTCTTCCTGGTTTAG--TCTT 87828  
gi | 114795057 | ref | NC\_006483.2 | N GGTGCTTTTTGGCT  
TTATTCCTGTTATTCAACTCCGTGCCTCCGTTTCCT 95620  
gi | 73957561 | ref | NW\_876316.1 | Cf -CCTCTTGTGG---

-----GTGAATCAGCGAGGTGTG----- 54873  
gi | 194719394 | ref | NC\_007316.3 | N GCCTGATGTGG---  
-----AGGGAGATGAGGGGCGATGGCAGAGAAGGGT 71622  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTCCATGAAG---  
---CACTGATTCACAGGAGTAACACAG----- 52449

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGAGAGTGTATGT  
GTCCACAGCCAATATCATACTGAATGGGCAAAACT 87878  
gi | 114795057 | ref | NC\_006483.2 | N CATCTGTAAAATGG  
GGGAACTATTAATGCCGTCAGCTGATTCACAGGGTT 95670  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N CTGGAAGGCAGGTG  
CTCAGGCTGCAGCCCCCTCCTCTCCGGGCTCCTCTT 71672  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGCATTCCCTT  
TGAAAACCTGGCACAAGACAGGGATGCCCTCTCTCAC 87928  
gi | 114795057 | ref | NC\_006483.2 | N GGTAGAGAATTAAA  
CAAAGCCAGGCCCGTGAATCTCTTGGCACACAGCAG 95720  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TTAGGTGCTTC  
CGGAGTCCCAGGCTTGGGTG-----GGAGGATG 54912  
gi | 194719394 | ref | NC\_007316.3 | N TGTGAAGGCTCTGC  
AGGAGACAGGGGCGATTGTGGCCATGACCGGGGATG 71722  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AGAAACAGC  
AGGACATCCAACATG-----CTTAAGTAC 52482

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gi | 51473102 | ref | NT\_010498.15 | \_ CGCTCCTATTCAAC  
ATAGTGTTGGAAGTTCTGGCCAGGGCAATCAGGCAG 87978  
gi | 114795057 | ref | NC\_006483.2 | N GAGCCCAGTAAAGA  
GCTGATGTGATTTTTCTGACTCTGAATACCAAAAAA 95770  
gi | 73957561 | ref | NW\_876316.1 | Cf ATGT-----  
-----ACAGTTCTT 54925  
gi | 194719394 | ref | NC\_007316.3 | N GGGTGAACGACGCA  
GTCGCCCTGAAGTCGGCGGACATCGGCATCGCCATG 71772

gi | 149361523 | ref | NC\_000074.5 | \_ ATAT-----  
-----ACACAAGAC 52495

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGAAGGAAAT--A  
AAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG 88026  
gi | 114795057 | ref | NC\_006483.2 | N AGGTAGAAAATGTG  
CTTGGTTTTCTCGCCTGTGCTCTGAAAGTTTGCTCT 95820  
gi | 73957561 | ref | NW\_876316.1 | Cf GGACAG-----  
AAGGGTGATCTTTTGGGCTGGCAGTCCAGTCCCCAG 54967  
gi | 194719394 | ref | NC\_007316.3 | N GGGCAG-----  
ACGGGGACGGATGTCAGCAAGGAGGCCGCCAACATG 71814  
gi | 149361523 | ref | NC\_000074.5 | \_ AGACAG-----  
ACAGACGGTGATGTGTCTTCTGAACCTCTTTCTCTG 52537

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gi | 51473102 | ref | NT\_010498.15 | \_ T---CCCTGTTTGC  
AGACG-----ACATGATTGTTTATCTAG----- 88060  
gi | 114795057 | ref | NC\_006483.2 | N TGAGCTCTTTTAGT  
AGACGGGCTTTCTTCTTTCATGTTATTTTATAGCTCT 95870  
gi | 73957561 | ref | NW\_876316.1 | Cf TG---CCTGGTGGT  
G----- 54979  
gi | 194719394 | ref | NC\_007316.3 | N AT---CCTGGTGGGA  
CGACGAGTTCTCGGCCATCATGTAAGCCCCCTTC- 71860  
gi | 149361523 | ref | NC\_000074.5 | \_ CC---TCCAGTGGA  
G----- 52549

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gi | 51473102 | ref | NT\_010498.15 | \_ -----AAAACCC  
CATGG-----TCTCAGCCCAAATCTCCTTAAGCTG 88098  
gi | 114795057 | ref | NC\_006483.2 | N ACAGAGTAAATCCC  
TATGTGAGTTACTCCTCAAAGAAGGTAGTAATACTT 95920  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCGGGCAGGGCGTCATCAC 54998  
gi | 194719394 | ref | NC\_007316.3 | N -----GGGTGGTTC  
CTTAGTCACAGAAACACCTGGGGTGGCGGCCCGCTG 71905  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTTGGGTTCTTTCTGCTG 52567

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gi | 51473102 | ref | NT_010498.15 | _          ATAAGCAACTTCAG
-----CAAAGTCTCAG-GATACAAAATCAATGTAC 88141
gi | 114795057 | ref | NC_006483.2 | N          ACCGGGTACCCCAT
GGTTTCCAGGGCCGCACTGTTGATTACTGTTTATTA 95970
gi | 73957561 | ref | NW_876316.1 | Cf         CTCTGCTGATGTG-
----- 55011
gi | 194719394 | ref | NC_007316.3 | N          CTCTGCTGCGGTGG
ATGTACATGGCGTCCCCAGGCCACCTACAGAAAG 71955
gi | 149361523 | ref | NC_000074.5 | _          CCAAGCTGCAGGTG
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gi | 51473102 | ref | NT_010498.15 | _          AAAAATCACAAGCA
TTCTTATACACCAACAACAGACAAACAGAG-----A 88186
gi | 114795057 | ref | NC_006483.2 | N          CTGGGACTGGATAA
CCTTTATGAGCCTTTACTGACCGTGCTGGG-----C 96015
gi | 73957561 | ref | NW_876316.1 | Cf         -----
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gi | 194719394 | ref | NC_007316.3 | N          CAGGGTCAGGGGCC
CGTTCTCTTGGGTGAATCGCCAAGGGGCAGGAGGCA 72005
gi | 149361523 | ref | NC_000074.5 | _          -----
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gi | 51473102 | ref | NT_010498.15 | _          GCCAAATCATGAGT
GAACTCCCATT---CACAAATTGCTTCAAAGAGAATA 88233
gi | 114795057 | ref | NC_006483.2 | N          ACCGTCACATCCGT
CATCTCAGTTTGGGCCTCACAACAGCCCTGGGAAGA 96065
gi | 73957561 | ref | NW_876316.1 | Cf         -----
-----TCCTGAGCATG----- 55022
gi | 194719394 | ref | NC_007316.3 | N          CTTTGGGAGTCCTG
GGTGAGGGCTGGGGTCCCAGGGCTTGGATGAGAGAA 72055
gi | 149361523 | ref | NC_000074.5 | _          -----T
ATTGAACCCTCAACACCCTAAGCACAGGTGGAGCCC 52618

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gi | 51473102 | ref | NT_010498.15 | _          AAATACCTAGGAAT

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CCAACTTACAAGGGATGTGAAGGACCTCTTCAAGGA 88283  
gi | 114795057 | ref | NC\_006483.2 | N AGAAACTGTTGCTC  
ATACCTTGCAGATGGGGAAACTGAGGTCGAGAGGGT 96115  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N TGATCTGTGTGCAA  
TCTTCAGACAGAAGGGTGATCGTGGCTCGGGGA--- 72102  
gi | 149361523 | ref | NC\_000074.5 | \_ TG-----  
----- 52620

gi | 51473102 | ref | NT\_010498.15 | \_ GAA-----CTA  
CAAACCACTGCTCAAGGAAATAAAAGAGGACACAAA 88325  
gi | 114795057 | ref | NC\_006483.2 | N CAAGGGCTCGCCCA  
ATTCCCACAGCTAATGTGGGTGAAGCTGGGATTCGA 96165  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCAGCGAGAGGAAACAGAGCAGTG----- 55046  
gi | 194719394 | ref | NC\_007316.3 | N -----C  
CCGTCCCCAGGGGCTGGTGACACCTATGAGGACA-- 72137  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
--GCTCCAGTTGACAGGGGTACACACATGATTTG- 52653

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gi | 51473102 | ref | NT\_010498.15 | \_ CAAATGGAAGAACA  
TTCCATGCTCATGGGTAGGAAGAAT-CAATATCGTG 88374  
gi | 114795057 | ref | NC\_006483.2 | N ATTCCG--GGTGCC  
CTCCAGACAGAGGTGTCTGTGGCTGGCCACAGGGTG 96213  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GCCAAGCATGAGGGCATCTTTGGTGAC 55073  
gi | 194719394 | ref | NC\_007316.3 | N -----TCC  
CCCTCCTCTGCCATTCTGAGAATGCCAGCAAGGAG 72176  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
CACAGGAGTGACACACCTACCAGTGTGTCCCGGGTG 52689

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAATGGCCATACT  
GCCCAAGGTAATTTACAG-----ATTCAATGC 88415  
gi | 114795057 | ref | NC\_006483.2 | N TGCATGGCCGGGCA  
CTGGGAGGTGGTCCTCAGGCTGCAGTCCTTCATTGC 96263

gi | 73957561 | ref | NW\_876316.1 | Cf ACAGT-----CGCT  
TCCTTCAG-GGCTGGCGG-----AGGTAC 55105  
gi | 194719394 | ref | NC\_007316.3 | N ACCAT-----CGCT  
TCCTTTAGCAACCGACGG-----AGCTGG 72209  
gi | 149361523 | ref | NC\_000074.5 | \_ TACCTGCCCCATTG  
CACCTGGGCTGACCACTCT-----ATGTGG 52728  
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gi | 51473102 | ref | NT\_010498.15 | \_ CATCCCCATCAAGC  
TAC-----CAATGACTTTCTTCACAG---- 88450  
gi | 114795057 | ref | NC\_006483.2 | N CTGCTCTTTCCAAA  
GGCTCTGCAGGAGTCAGGGGCGATCGTGCCATGAC 96313  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGAACCCTTCCAC  
CCG-----GCCCTCTTTGTGA---- 55135  
gi | 194719394 | ref | NC\_007316.3 | N CTGACCCTTCCCAC  
CCT-----GCCGTCTTTGTCA---- 72239  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGAGGCACCCCCA  
GAC-----CTCTTACCCA---- 52755  
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gi | 51473102 | ref | NT\_010498.15 | \_ ---AATTGGAAAAA  
ACTACTTTAAAGTTCATATGGAAGCAAAAAGAG-C 88496  
gi | 114795057 | ref | NC\_006483.2 | N TGGGGATGGGGTGA  
ACGACGCAGTGGCCCTGAAGTCTGCAGACATTGGGA 96363  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATAA  
ACGCCCTCTCCTCTCTTGCAGGAATGCGGTGGAGGA 55175  
gi | 194719394 | ref | NC\_007316.3 | N -----GTAA  
ACGCTTTCTCCTCTCTTGCAGGAACGCAGTGGAGGA 72279  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CAA  
ATGCTCTTGCCTCCCTTTCAGGAGCGCAGTGGAGGA 52794  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCGCATCG-----  
-CCAAGTCAATCCTAAGCCAAAAGAACAAAG----- 88534  
gi | 114795057 | ref | NC\_006483.2 | N TCGCCATGGGGCAG  
ACAGGGACGGACGTCAGCAAAGAGGCCCGCCAGCATG 96413  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGCAAGG-----  
---GGATTTTTTCATAACATCAAAAACCTTTGTCCGC 55215  
gi | 194719394 | ref | NC\_007316.3 | N AGGCAAGG-----

---GGATTTTTCATAACATCAAGAACTTTGTCCGC 72319  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGCAAGG-----  
---GCATCTTCTACAACATCAAGAACTTTGTCCGT 52834  
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gi | 51473102 | ref | NT\_010498.15 | \_ ---CTGGAGGCATC  
ACACTACCTGACTTCAAACATACTACAAGGCT--- 88578  
gi | 114795057 | ref | NC\_006483.2 | N ATCCTGGTGGATGA  
TGACTTCTCAGCCATCATGTAAGCTGCCCTTCTGGT 96463  
gi | 73957561 | ref | NW\_876316.1 | Cf TTTCAGCTGAGCAC  
GTAAGTCAAGGCCAGCCTTTCTCCCAGTGCCGT--- 55262  
gi | 194719394 | ref | NC\_007316.3 | N TTTCAGCTGAGCAC  
GTAAGTCCAGGCCGGCG--CCCCCTAGTG----- 72360  
gi | 149361523 | ref | NC\_000074.5 | \_ TTCCAGCTGAGCAC  
GTAAGCAGAGACAGACCTTCCCTCATACTGGCTGGG 52884  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----ACAGTAAC  
CAAAACAGCATGGTACTGGTACCAAACAGAGATAT 88622  
gi | 114795057 | ref | NC\_006483.2 | N TGTTTTTCAGTTGC  
AAAAATGCCTGGGGTCACCAGCTTCTCCCTGGAACC 96513  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CGGGTGC  
CGCGTGCGTGTCTGGCAAGCGGCCATGGACAGTCCC 55305  
gi | 194719394 | ref | NC\_007316.3 | N -----GC  
CAGGTCTGGGAGCAGCTGGTGACCTG-----C 72389  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGTTGCAT  
CTAGTGCACGATTGACAAGCTGTCTG----- 52918

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gi | 51473102 | ref | NT\_010498.15 | \_ AGATCAATGG-----  
AACAGAACAGAGCCCTCAGAAATAATGCCGCATATC 88668  
gi | 114795057 | ref | NC\_006483.2 | N TGCTACTGTGGAGA  
TAGAGGGGGGGGTCTCACGGAGTCCCAGGGAGAGC 96563  
gi | 73957561 | ref | NW\_876316.1 | Cf TGTGTGTGTG-----  
-CCCCGCAGGAGCATCTCAGCCTTGAGCCTCATCAC 55350  
gi | 194719394 | ref | NC\_007316.3 | N CGTGTGTGTG-----  
-CCCTGCAGGAGCATCTCGGCCTTGAGCCTCATCAC 72434  
gi | 149361523 | ref | NC\_000074.5 | \_ -TCACCTGTG-----  
-CCCGACAGGAGCATCGCAGCCCTGAGCCTCATCAC 52962

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gi | 51473102 | ref | NT\_010498.15 | \_ TACAAC TATCTGAT  
 CTTTGACAAACCTGAGAAAAACAAGCAATGGGGAAA 88718  
 gi | 114795057 | ref | NC\_006483.2 | N TGAATCTCGGGGCT  
 CGTCAGTGTGGCAGGTGCCCCCAACCCCAAGTACCA 96613  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCTATCCACCG--T  
 GTGCAACCTGCCTAGCCCCCTCAATGCCATGCAGAT 55398  
 gi | 194719394 | ref | NC\_007316.3 | N GCTGTCCACCG--T  
 GTGCAACCTGCCCAACCCCTCAACGCCATGCAGAT 72482  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCTGTCCACCG--T  
 GTGTAACCTGCCAGCCCCCTCAACGCCATGCAGAT 53010

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gi | 51473102 | ref | NT\_010498.15 | \_ GGATTCCCTATTTA  
 ATAAATGGTG----CTGGGAAA ACTGG--CTAGCCA 88762  
 gi | 114795057 | ref | NC\_006483.2 | N ACAGCCTCTCATAG  
 CAGGGTCATGGGGTCCATGATGCCTGGGGCTAGTCA 96663  
 gi | 73957561 | ref | NW\_876316.1 | Cf CCTGTGGATCAACA  
 TCATCATGGACGGGACCAGCGCAGAGGTGAG--- 55445  
 gi | 194719394 | ref | NC\_007316.3 | N CCTGTGGATCAACA  
 TCATCATGGACGGGCGCCGGCGCAGAGGTGAGGCA 72532  
 gi | 149361523 | ref | NC\_000074.5 | \_ CCTGTGGGTCAACA  
 TCATCATGGACGGGCGCCAGCGCAGAGGTGAGACG 53060

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gi | 51473102 | ref | NT\_010498.15 | \_ TATGTAGAAAGCTG  
 AACTGGATCCCTTTCCTTACACCTTATACAAAATC 88812  
 gi | 114795057 | ref | NC\_006483.2 | N CATGCTGCCCCCAG  
 GGAATGTTACGGACATGAAGCAGAGATGGGATTTG 96713  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 --ATGCCATTTCCACCAGGCTCTG-----CCCCCA 55473  
 gi | 194719394 | ref | NC\_007316.3 | N GTGGGCTGGCGGGG  
 ACGTGCCGGGGGCACACGACAAGGGGTACACACCGA 72582  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 --GTGGGCTGCGGGCAGGACCCCGTGGGCTCCCTCT 53094

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gi | 51473102 | ref | NT\_010498.15 | \_ AATTCAAGATGGAT  
TAAAGATTTAAACGTTAGACCTAAAACCATAAAAAC 88862  
gi | 114795057 | ref | NC\_006483.2 | N CTGCCTGTGGGTGC  
ATTTTCATATGGTACTGGGAATGCCCGCCTGGCTCAG 96763  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCTG-----  
-----CAG 55482  
gi | 194719394 | ref | NC\_007316.3 | N GCACGGGAGGAGGC  
ATCTGGTGGGCTGGCCGGGCGGTGGCAAACCTCTCTG 72632  
gi | 149361523 | ref | NC\_000074.5 | \_ CAGAAAG-----  
-----GAA 53104

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTAGAAGAAAACC  
TAGG---CATTACCATTTCAGGACATAGGCATGGGCA 88909  
gi | 114795057 | ref | NC\_006483.2 | N GCTGGTGGGCAGCA  
GCTG---AATCTGTAAGGAAAACCTGTGGCCAAATA 96810  
gi | 73957561 | ref | NW\_876316.1 | Cf CTTTCAGG-----CC  
CCTG-----CACAGAGCACGGGT 55509  
gi | 194719394 | ref | NC\_007316.3 | N CCTCAAAGGCTCTC  
CCTGGGCTACCTGCATTCTGGTCACTGCCTCCAAGA 72682  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTCCGGG-----  
----- 53112

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGACTTCATGTCC  
AAAACACCAAAGCAATGGCAACAAAAGCCAAAATT 88959  
gi | 114795057 | ref | NC\_006483.2 | N CGTGCTCACACTTG  
AGTGTGGGGTGAGAAAGGATTAAAATGAACATCTTC 96860  
gi | 73957561 | ref | NW\_876316.1 | Cf G-----  
-----CAAACACAGCCGCTGTC 55527  
gi | 194719394 | ref | NC\_007316.3 | N AGTCCTCCCTGATT  
ACCCTAGCAGCAGCCTCCTCCCTCCAGCCACTTTA 72732  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GACAAATGGGAT-C  
TAATTAACCTAAAGAGCTTCTGCACAGCAAAG--- 89005  
gi | 114795057 | ref | NC\_006483.2 | N AGTTTGAGGCCCGC

ATGTTGATACATACATCTCAGGCACTGCAAAGAGAC 96910  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTTGGAGTCTAGA  
AGACTTGAGTG----- 55552  
gi | 194719394 | ref | NC\_007316.3 | N CCCTGCTTTATTTT  
TGCCCTAGAGGGGAAA-CTATTTTCATTGTTTATC--- 72778  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----AAAC  
TACCATCAGAGTGAACAGG----CAACCTACAACAT 89041  
gi | 114795057 | ref | NC\_006483.2 | N CTGGGCAGAAACAC  
CCCCATCGCTGACCACGGAGGTGCTCTCTAGGTTCT 96960  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TGGTCCACGGGGG-----TTGTG 55570  
gi | 194719394 | ref | NC\_007316.3 | N -----TGAT  
CATAATCCATCTCCTCTGTAGGATGTCAGCTTTGTG 72818  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGCTGGAG----- 53121

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGAGAAAATTTTC  
ACAACCTACTCA-TCTGACAAAGGGCTAATATCCAG 89090  
gi | 114795057 | ref | NC\_006483.2 | N GGGGGTTGCACAAA  
ACTATTTGTTCTGTTTCACTTTTCTGTATTTTTTTTC 97010  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGGGTGGGGAAAC  
AGCCAGCG-----ATGTGCCCTG 55602  
gi | 194719394 | ref | NC\_007316.3 | N GGGGAAGGCTTTGT  
TCCCTGCAGGGTCTCGGCTCTGCAGTGGTGCTCGG 72868  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TGTGAACAG 53130

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gi | 51473102 | ref | NT\_010498.15 | \_ AATCTACAATGAAC  
TCAAACAAATTTACAAG-AAAAAACAACAACCCC 89139  
gi | 114795057 | ref | NC\_006483.2 | N TTAATACATTTACC  
TTCCTAATTTTAATTAGTTCTGAGACTCTCCTCATA 97060  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCATGGGAG----  
-----GAAGCGCCT 55621

gi | 194719394 | ref | NC\_007316.3 | N CACACAGCAGGCAC  
TTAGGGAATTAGTGGCTGGATGAGTGAGAAGGGGAT 72918  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCTAGAGG----  
-----GGGCAGA 53147

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCAAAAAGTGGGC  
GAAG-----GACATGAACAGACACTTCTCAAAGA 89183  
gi | 114795057 | ref | NC\_006483.2 | N AGCTAATCGCAGTA  
GTTAGTTGGCGGTGAGGTAAAACCTTTTAAAGCCTGA 97110  
gi | 73957561 | ref | NW\_876316.1 | Cf TCGTGGGCAGCCAG  
GGTTGATGGGGGGAAG-----CTCTCCCGGTGCGG 55665  
gi | 194719394 | ref | NC\_007316.3 | N GTGAGGCCAGCAGA  
GTGACACAGGAGGCAGGATGGGCTCTGGAGGTGGGG 72968  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGAGCTCCCTGG  
GTTACATTG-----CACTCCTGGGGCCC 53184

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gi | 51473102 | ref | NT\_010498.15 | \_ AGACATTTATGCAG  
CCAAAAACACATGAAAAAATGCTCATCAT-CACTG 89232  
gi | 114795057 | ref | NC\_006483.2 | N TACAATTGATCCTT  
ATAAGACAATATTGAGGCTATGTGGATCCTGCACTT 97160  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCCATGGCTCAGC  
CCTT-----CTCCTCCAGTCACCACCTCTGGGAAG 55709  
gi | 194719394 | ref | NC\_007316.3 | N AGGCCTGCGTGAGC  
ATGCGAGGGGCTTCTCTGTGTCTGAGCACAGGGTAG 73018  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGGCTCGGTCCCA  
CTGT-----AAAGTCAGGCCACCGCATCCAGGCAG 53228

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCATCAGAGAAAT  
GCAAATCAAACCCTATGAGATATCATCTCACACC 89282  
gi | 114795057 | ref | NC\_006483.2 | N TACAAACGTGTCTN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97210  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TCCTCCCTG  
--ATTACTCTAACAG-----CAGCCTCCTGGCTC 55745  
gi | 194719394 | ref | NC\_007316.3 | N GTGGGGCCACTGAA  
GTGTTACTATTACTGATCTAATCATCGCCAGTGACA 73068  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCCTCTCTG





gi | 51473102 | ref | NT\_010498.15 | \_ AGAAATACCATTTG  
ACCCAGCCATCCCATTACTGGGTATATACCCAAAGG 89482  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97410  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAGTTTGTGGGTT  
TGTTGACTGTAG-----TATCCCAG-- 55871  
gi | 194719394 | ref | NC\_007316.3 | N TGATCCTATTTTCAG  
AGTTGGCTGAAGGCAGGCTGAAGGCAGATCCCATT 73268  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGTTATCATGGAC  
TAGCTGG-----TTACCAAGG- 53368

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTATAAATCATGC  
TGCTATAAAGACACATGCACACGTATGTTTATTGCG 89532  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97460  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCCCAG-----  
-ACCAGTG-----CTTGGCACCCCGTAG----- 55900  
gi | 194719394 | ref | NC\_007316.3 | N CTCCAGG-----  
-CCAAGTGGGACGAGGCCAGGCCCCAGATGGGGAGG 73310  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCACTATTCAACAAT  
AGCAAAGACTTGGAACCAACCCAAATGTCCAACAAT 89582  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97510  
gi | 73957561 | ref | NW\_876316.1 | Cf -----CTG  
ACTGGGGAGTT-----ATTGCTGGAT 55925  
gi | 194719394 | ref | NC\_007316.3 | N CCCATCACCTCCAG  
GCCAGGTGATGGGGTGGCCAGGCGCTGTTTCAGGAT 73360  
gi | 149361523 | ref | NC\_000074.5 | \_ -----ACTA  
GCTTAG-----CTGGTTACCAT 53389

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gi | 51473102 | ref | NT\_010498.15 | \_ GATAGACTGGATTA  
AGAAAATGTGGCACATATACACCATGGAATACTATG 89632

gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 97560  
gi | 73957561 | ref | NW\_876316.1 | Cf GGATGAGAAGGCAG  
TGTGAGGCTGGCTGGATGGTGCCGGAG----- 55966  
gi | 194719394 | ref | NC\_007316.3 | N CCTTAGGTTCGGCCG  
AGGGCGGGCTTTTCTATGGCCCCGCAGGTGGAGGAC 73410  
gi | 149361523 | ref | NC\_000074.5 | \_ GGAATTGATGCCCC  
CTTGACCCTTAGGATGCTGCTCGCGTG----- 53430

gi | 51473102 | ref | NT\_010498.15 | \_ CAGCCATAAAAAAT  
GATGAGTTCATGTCCTTTGTAGGGACATGGATGAAA 89682  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 97610  
gi | 73957561 | ref | NW\_876316.1 | Cf ---AAAGTATGACC  
TCGGGAGTTGGGGAAACCGGCCTCCACGAGCAG--- 56010  
gi | 194719394 | ref | NC\_007316.3 | N CTGCAGGGCTGTCC  
ACGGGGTCCAGGCCATGAGGGGTACCCAGGAAGGAA 73460  
gi | 149361523 | ref | NC\_000074.5 | \_ --ACATGGATGCTC  
ACTGGTGTG-----CAGGAATCCATGGGAAG--- 53469

gi | 51473102 | ref | NT\_010498.15 | \_ TTGGAAACCATCAT  
TCTCAGTAAACTATTGCAAGAACAAAAACCAAACA 89732  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 97660  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GGAGGCACT  
GCACTGTGTTTGGGCACAGGG-----TAT 56043  
gi | 194719394 | ref | NC\_007316.3 | N CGGAGGGGAGCTGG  
GCGATGAGGGAGGGGGCAGAGGATCAAGACGACCTG 73510  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGAAGTGTG  
GGCTAGCTGGAGGGTACAGAAG-----GC 53502

gi | 51473102 | ref | NT\_010498.15 | \_ CCACATATTCTCAC  
TCATAGGTGGGAATTGAACAATGAGATCACATGGAC 89782  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNNN  
NN 97710  
gi | 73957561 | ref | NW\_876316.1 | Cf GTGTGGTTTCAGCT

GATTATTATTTATTGATACATAG---TATCTATGTT 56090  
gi | 194719394 | ref | NC\_007316.3 | N GAGGCGCTGCACAC  
GCCCATCCAGGCCTTCGACGTGG---ACCCTGGCGC 73557  
gi | 149361523 | ref | NC\_000074.5 | \_ CCGTGTGCCAGCA  
GCCTTGGTAGCTCACACAGGGAGGTGTCATTACAAA 53552

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGGAAGGGGAAT  
ATCACACTCTGGGGACTGTGGTGGGGTCTGGGGGAGG 89832  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97760  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCACTTCAGTATC  
ACCTGTTACAGCTGCCAAGGGCAAGAGCCCTACTTT 56140  
gi | 194719394 | ref | NC\_007316.3 | N GTCACTTCACCATG  
ACCTTGTGCATTTCGACCTTTGCACGTCTCTTCAGTG 73607  
gi | 149361523 | ref | NC\_000074.5 | \_ CACACTGATGCTTC  
TGTTAGTGTCTCTATCATCATCTGTGGTCCACAGAG 53602

gi | 51473102 | ref | NT\_010498.15 | \_ GGGGGAGGGATAGC  
ATCGGGAGATATACTAATGCTAGATGACACGTTAG 89882  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97810  
gi | 73957561 | ref | NW\_876316.1 | Cf GTG---TCCACCCC  
CTCC-----CCCACCCTGCC-----CC 56168  
gi | 194719394 | ref | NC\_007316.3 | N GTTTATTTCAAAGC  
GTCCGGTTTTGTCCCGAGCAGCCTGGGTGTGGAGCC 73657  
gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAGCCCAGCCT  
GTTT-----CCCCAGAGCCCAG-----C 53634

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGGTGCAGCGCAC  
CAG----- 89899  
gi | 114795057 | ref | NC\_006483.2 | N NNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 97860  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGGGAGGGTG---  
----- 56179  
gi | 194719394 | ref | NC\_007316.3 | N GGTGGACAAGG---  
----- 73668



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gi | 51473102 | ref | NT\_010498.15 | \_ TTTAGTAAAATCTG  
 GCGGTGG-GGGCACCCACGGTGC GTAATTGTTTTTC 90083  
 gi | 114795057 | ref | NC\_006483.2 | N TCAAAAATTTATAA  
 TCTGCGG-GGGGCGCCGCGG-GCAAGATGTTTTTTTC 98058  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTATTTTCACAGCTG  
 GCTGGGGGCGGGGGTCCCTCCGCCCATGGG--GGGC 56333  
 gi | 194719394 | ref | NC\_007316.3 | N CGCGGGCTCAGTTA  
 GGCACGGCGGTCAGGCCCCCGCCCCGGGGCTCAGGC 73853  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCCTGATGTTTCTG  
 GGTGACAGAGCTGGGCCCTG-----TTTC 53754

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gi | 51473102 | ref | NT\_010498.15 | \_ TACATTAGTGACCC  
 CAGGTCAAGGTTTAAAAGGGCTTCCGCGAAGAGCCT 90133  
 gi | 114795057 | ref | NC\_006483.2 | N ATATG-----CC  
 CCAGTCAGG--TTAAAAGGGTTCCG--GAAGAGCTT 98097  
 gi | 73957561 | ref | NW\_876316.1 | Cf TCTGTGG-----  
 -TGGGCAGGG-----CGTGGATCC---- 56358  
 gi | 194719394 | ref | NC\_007316.3 | N TCCATGGG----GT  
 GTGGGCGGAGGTGGCAGAGAAAGAAGGGGACC---- 73895  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCCAG-----  
 ----- 53759

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTAAAGACAGAAG  
 CAGGCGATGTCCTTCAGCCTCCCCATCCCTCCCTCC 90183  
 gi | 114795057 | ref | NC\_006483.2 | N T---AAGACAGAAG  
 CAG--GGAGTCGTTTCAGCCTCCCCATCCCTCCCTCC 98142  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----CATT--  
 -TCTCCAGCCCGCTAGAGGTCCCCTGG----- 56388  
 gi | 194719394 | ref | NC\_007316.3 | N -----CGGTGC  
 CTCTCTGGCTTGCTG--TTACCCCTGGGAAACAACC 73935  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----  
 -----GCCCCACTTAGGGCCCCTTATGG----- 53782

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gi | 51473102 | ref | NT\_010498.15 | \_ TTACCGTCCTCCGG

ACCTCATTTTTAGG--CCGAACTGGTTTTGCTGCGT 90231  
gi | 114795057 | ref | NC\_006483.2 | N T--ACGTCATCCG-  
ACCTCATTTTTAGG--CCGAACTGGTTTTGCTGTGT 98187  
gi | 73957561 | ref | NW\_876316.1 | Cf -----TGATAGA  
AGCTG-----CCCGGGCATGAGGTAGGGG- 56420  
gi | 194719394 | ref | NC\_007316.3 | N TCAGCTCTGAGAGA  
AACTCCTGTTTTAGTCCCAGGAGGTGGCTATTTGGG 73985  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TAATAGG  
AACGCATG-----GGGGTTAGAAGG- 53809

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gi | 51473102 | ref | NT\_010498.15 | \_ CTCTCTCTCCTCTT  
TGGTAAATCGCGGAGATGCACGGCGCACTTCGGGAG 90281  
gi | 114795057 | ref | NC\_006483.2 | N CTCTCTCTCCTCTT  
TGGTAAATCGCGGAGATGCACGGCGCGCTTCGGGAG 98237  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----ACTCGGGGTGCTTCCAGGA 56439  
gi | 194719394 | ref | NC\_007316.3 | N AGACCTTACCTTTT  
TTAAAAACT---TTTATCTTGGAGTACAGCTGATT 74031  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGTGA 53815

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gi | 51473102 | ref | NT\_010498.15 | \_ TCTGGGCAGGGATG  
GGGCCCCCTGGGCTCGGCCGAGAGTAATTCATGGT 90331  
gi | 114795057 | ref | NC\_006483.2 | N TCTGGGCAGGGATG  
GGGCCCCCTGGGCTCGGCCAGAGAGTAATTCATGGT 98287  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTCGGTGTGGCCA  
G--CCCTG-----AGGGAGGTT----- 56468  
gi | 194719394 | ref | NC\_007316.3 | N CATCAGTTGTGTTA  
G--CCTCAGGTGTACAGCAGAGTGGTTCAGTCATAC 74079  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGGGAAAGGCTG  
AAGCCCAG----- 53837

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGATTGGAGGCAT  
CAGGTG-----TACCCTTGGCACAGAA 90367  
gi | 114795057 | ref | NC\_006483.2 | N CTAATTGGAGGCAT  
CAGGTG-----TACCCTTGGCACAGAA 98323

gi | 73957561 | ref | NW\_876316.1 | Cf -----TTCCTTCCC  
CATG-----CTCAGGGAGGGA 56493  
gi | 194719394 | ref | NC\_007316.3 | N ATACATTCATTCAT  
CCTTTTTCAGATTTTTTTTTTTTACCTTATAGTTTAT 74129  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TGCTGGCC  
CTTG-----CTCGGTTCTTTG 53861

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCGAACATGGCT  
CAAGGATCAGTTCCCAGTGGCCGAGGGGCACCTGTT 90417  
gi | 114795057 | ref | NC\_006483.2 | N GGGCGAACATGGCT  
CGAGGATCACTTCCCAGTGGCCAAGGGGCACCTGTT 98373  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGAGGGGGTAGGG  
----- 56507  
gi | 194719394 | ref | NC\_007316.3 | N TATAGGATATTGAG  
TAGAGTTCCCGTGCTGTATACAGTAAGTCCTTATAT 74179  
gi | 149361523 | ref | NC\_000074.5 | \_ G-----  
----- 53862

gi | 51473102 | ref | NT\_010498.15 | \_ AGAACACCACCGTC  
TCCTACAAATGTGTCCCCAAGAATGCCAGCAAGGGG 90467  
gi | 114795057 | ref | NC\_006483.2 | N AGAACACCACCGTC  
TCCTACAAATGTGTCCCCAAGAATGCCAGCAAGGGG 98423  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CTCCCATAGGGCCAGGCT 56527  
gi | 194719394 | ref | NC\_007316.3 | N ATAAATTCATCCCA  
AAGTCCCAATTTATCCCTCCACATTTCCCCTTTGGT 74229  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCTCTCCACATCTGGATATTTGGAG 53887

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gi | 51473102 | ref | NT\_010498.15 | \_ AACCAGCAGGGGCC  
CAAGTATAACATCAATCTGGGCGAGTCACCACTGCC 90517  
gi | 114795057 | ref | NC\_006483.2 | N AACCAGCAGGGGCC  
CAAGTATAACATCAATCTGGGCGAGTCACCACTGCC 98473  
gi | 73957561 | ref | NW\_876316.1 | Cf GAGGGTGGAGACCG  
TGGAAGGAGCTGGACAGTTGGTTAGGGCAGAGG--- 56574  
gi | 194719394 | ref | NC\_007316.3 | N AACCATTAAGTTTG

TTTTTGAAGTCTGCAAGTCTGTTTCGTTAATGAGTT 74279  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTGATGAGTAGAG  
AGAGCTATGGCTACCTGTGGGATAG----- 53926

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTTGCAGCAACCG  
ATGCACTGGTCCAGCCCTCACGCAGGCCCGCTCCGT 90567  
gi | 114795057 | ref | NC\_006483.2 | N CCTTGCAGCAACCG  
ATGCACTGGTTCGAGCCCTCCCGCAGGCCCGCTCCGT 98523  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
AGGTGAGGGGCGGGCATCCAGCGCAGAG----- 56602  
gi | 194719394 | ref | NC\_007316.3 | N CATTGAATAATTT  
TTTTTTAGATTCCACACCCAGCAACATCGTATTTGT 74329  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TTGCTCAGGGACAAGAGCAGCCCGG----- 53951

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGTAAATGGCTCT  
CTTCTCTTG-----CAGGAATGCAGTGGAGGAA 90609  
gi | 114795057 | ref | NC\_006483.2 | N GAGTAAATGGCTCT  
CTTCTCTTG-----CAGGAATGCAGTGGAGGAA 98565  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATGTCCCT  
GTAAGCATG-----GGATCAGCCAG--GCT 56634  
gi | 194719394 | ref | NC\_007316.3 | N CTTTCTCTGTCCGA  
CTTAGGATGGTCATCTCTAGGTCCATCCATGTTGCT 74379  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTTACAGG  
CAACACTTTG-----GAGAACAAGTCTGAGTCC 53987

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCAAGGGTATTTT  
TTACAACATCAAAAACCTTTGTCCGATTCCAGCTGAG 90659  
gi | 114795057 | ref | NC\_006483.2 | N GGCAAGGGGATTTT  
TTACAACATCAAAAACCTTTGTCCGATTCCAGCTGAG 98615  
gi | 73957561 | ref | NW\_876316.1 | Cf CACGTGGACAG---  
-----CCCAAATGTG 56655  
gi | 194719394 | ref | NC\_007316.3 | N GTCAATGGCATTAT  
TTCATTCTTTATGGCTGAGTAATAGTCCATTATATA 74429  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGCCAGGTATCCT  
T-----TTTTAAATAT 54012



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gi | 51473102 | ref | NT\_010498.15 | \_ CACGTAAGTAGAGG  
 CCAGCATTCCGAGTGTCATTAAGCACCACGCCTGGC 90709  
 gi | 114795057 | ref | NC\_006483.2 | N CACGTAAGTAGAGG  
 CCGGCATTCCGAGTGTCATTAAGCACCACGACTGGC 98665  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTCGGCCCAAGGTC  
 CCCCCGACCCTCCCGGCACTGG---CCGGGCCTCCG 56702  
 gi | 194719394 | ref | NC\_007316.3 | N TAACATATATGCAC  
 ATACACACCACACCTTCTTTAT---CCATTCCTCTG 74476  
 gi | 149361523 | ref | NC\_000074.5 | \_ TTCATTTTTTTTTTTT  
 TTTGAAAGCTCTCAGTGTGTAG--TCTAGGCTGGCC 54060

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGCGGCCGCTGAC  
 TGGCTGCGTGTGCCCCGCAG-----GAGCATCTCC 90753  
 gi | 114795057 | ref | NC\_006483.2 | N GGGCGGCCACTGAC  
 TGGCTGCGTGTGCCCCGCAG-----GAGCATCTCT 98709  
 gi | 73957561 | ref | NW\_876316.1 | Cf GAGCTG-----ACC  
 TGAGAGCCTGGAAAG-----CTCA 56730  
 gi | 194719394 | ref | NC\_007316.3 | N CTGATACGAACATC  
 AGGGTACATGTATCTTTTCAAATTGTGATTTTCTCC 74526  
 gi | 149361523 | ref | NC\_000074.5 | \_ TGGGGGATTTACTA  
 TGTAACCCAG-----ACT 54087

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCCTGAGTCTCAT  
 CACTCTGTCCACCGTGTTCAACCTGCCAGCCCCCT 90803  
 gi | 114795057 | ref | NC\_006483.2 | N GCCCTGAGTCTCAT  
 CACTCTGTCCACCGTGTTCAACCTGCCAGCCCCCT 98759  
 gi | 73957561 | ref | NW\_876316.1 | Cf GCACTCCACCTCAG  
 GTGTG-----CTTGCCCAGCCG----- 56761  
 gi | 194719394 | ref | NC\_007316.3 | N AGATATATGCCAG  
 GAATGG-GACTGCTGGATCTTAAGGTAATTCTATTT 74575  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGCCTTGAACCCAG  
 AGATC-----CTCCTGCCTCCACCT----- 54121

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gi | 51473102 | ref | NT\_010498.15 | \_ CAACGCCATGCAGA  
TCCTATGGATCAACATCATCATGGATGGGCCACCGG 90853  
gi | 114795057 | ref | NC\_006483.2 | N CAACGCCATGCAGA  
TCCTATGGATCAACATCATCATGGATGGGCCACCGG 98809  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--CCACCCGGCTG-TTTGACATG----- 56781  
gi | 194719394 | ref | NC\_007316.3 | N TTAGTTTTTTAAGG  
AACTTCCATACTG-TTCTCCATAGTGGCTGCACTAA 74624  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
--CCTGAAAGCTGGGGTTACAGG----- 54142

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gi | 51473102 | ref | NT\_010498.15 | \_ CGCAGAGGTGAGGC  
AGGGCCGGCTGGGAGCCCTGTGTCTCTTTACCCACC 90903  
gi | 114795057 | ref | NC\_006483.2 | N CGCAGAGGTGAGGC  
CGGGCCGGCTGGGAGCCCTGTGTCTCTTTACCCACC 98859  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ACCCTTC  
CCAGTGGTTTGTG--TCAAGGTGCCCGTGCCTTGT 56822  
gi | 194719394 | ref | NC\_007316.3 | N TTTACATTCCCATC  
CACAGTGTAAGAGGGCTGCCCTCCTCCATACCTTTC 74674  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTGTGTAC  
CACCTGGGCCAGCTTCCAAGTGACTGTTGTCTTTTC 54186

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gi | 51473102 | ref | NT\_010498.15 | \_ TGCGGGG-----  
---CTTCCTCCAGGGGCTGCTGGCTGTGCCCCAAG 90942  
gi | 114795057 | ref | NC\_006483.2 | N TGCGGGG-----  
---CTTCCTCCAGGGGCTGCTGGCTGTGCCCCAAG 98898  
gi | 73957561 | ref | NW\_876316.1 | Cf TCCT-----  
-----CACAGCCTGGGGG----- 56839  
gi | 194719394 | ref | NC\_007316.3 | N TCCAGTGTGTACAG  
ACTTCTTGATGATGGGCATTCTGACTGGTGGGAGGT 74724  
gi | 149361523 | ref | NC\_000074.5 | \_ TGCA-----  
-----CAGCCTTGGGG----- 54201

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTATAGGGATGAA  
CAAATACAG-----CCACTTTCCATCAGGAGTTCC 90986  
gi | 114795057 | ref | NC\_006483.2 | N GCTATAGGGATGAA

CAAATACAG-----CCACTTTCCATCAGGAGTTCC 98942  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TG 56841  
gi | 194719394 | ref | NC\_007316.3 | N AGTATCTGATTGTA  
GTTTTGATTTACATTTCTCTAATAATTAGCAATGTT 74774  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TG 54203

gi | 51473102 | ref | NT\_010498.15 | \_ CAGAAAACCTGAAGT  
GTGTTGCACTGCAGTGAGACTGGGAGTAGAAGGCAG 91036  
gi | 114795057 | ref | NC\_006483.2 | N CAGAAAACCTGAAAT  
GTGTTGCACTGGAGTGAGACTGGGAGTAGAAGGCAG 98992  
gi | 73957561 | ref | NW\_876316.1 | Cf GAACCAGTTGACAA  
AGACACCCT--CCAGCAGCCACCACG----- 56879  
gi | 194719394 | ref | NC\_007316.3 | N GAGCATATTTTCAT  
GTGCCTCTTGGCCATCTATCTGTACGTTGTCTTTGG 74824  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGCCTGTGGACAG  
AGACGCCCTG--CGGAGGCCTCCACG----- 54241  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGGAGAAAGTACCT  
GGGCCGGCAGAGCTGGGTGAGGATGGAACCTTTCTGC 91086  
gi | 114795057 | ref | NC\_006483.2 | N AGGAGAAAGTACCT  
GGGCCGGCAGAGCTGGGCGAGGATGGAACCTTTCTGC 99042  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----GAA 56882  
gi | 194719394 | ref | NC\_007316.3 | N GAAAATGTCTATTT  
GGTTCTTCTATCCATTTTTTTTATTGGGTTTTTTTGTA 74874  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----GAG 54244

gi | 51473102 | ref | NT\_010498.15 | \_ TCCCTCTGCCTGGA  
TGCTCTCTCTGG--GCAACCTGCATGGCTCATTCTC 91134  
gi | 114795057 | ref | NC\_006483.2 | N TCCCTCTGCCTGGA  
TGCTCTCTCTGG--GCAACCTGCATGGCTCATTCTC 99090  
gi | 73957561 | ref | NW\_876316.1 | Cf CATCAGGGACACCA  
TCCT-----CAGTAG-----ATCC 56910

gi | 194719394 | ref | NC\_007316.3 | N TATTTTGGAGACTG  
ATCTGTTATTGGTTGCTTCAGTTGAAAATATTTTCT 74924  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTCGGGGACACGA  
TCCTG-----AACAGAG-----CC 54272

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gi | 51473102 | ref | NT\_010498.15 | \_ ATGCTTCATTCCAG  
TCACCAGTCACTGCCTTCAGGAAGTCTTCCCTGATT 91184  
gi | 114795057 | ref | NC\_006483.2 | N ATGCTTCATTCCAG  
TCACCAGTCACTGCCTTCAGGAAGTCTTCCCTGATT 99140  
gi | 73957561 | ref | NW\_876316.1 | Cf CTCATCCTGAAGAT  
CCTCCTGTCAGCTGCCG-----TCATCATCAGTGG 56954  
gi | 194719394 | ref | NC\_007316.3 | N CCCATTCTGAGGGT  
TGTCTTTTCATCTGCTGATGACTTCCTTTGCTGTGC 74974  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGATCCTGAGGGT  
CCTCATGTCGGCCGCTG-----TCATCATAGGGGG 54316

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gi | 51473102 | ref | NT\_010498.15 | \_ GCACTCCCCTCAA  
TCCCCTCACCCTG--CTGTATTTTTCCCTAGAGAGG 91232  
gi | 114795057 | ref | NC\_006483.2 | N GCACTCCCCTCAA  
TCCCCTCACCCTG--CTGTATTTTTCCCTAGAGAGG 99188  
gi | 73957561 | ref | NW\_876316.1 | Cf GACCCTCTTTATCT  
TCTGGAAG-----GAGGTGAGC 56985  
gi | 194719394 | ref | NC\_007316.3 | N AAAATTGTTTTCTT  
TCTTGAAATACAGAATTTTAGAACTAAAGTAGAAA 75024  
gi | 149361523 | ref | NC\_000074.5 | \_ GACCCTCTTTATCT  
TCTGGAGAG-----AGGTGAGC 54347

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGATACA-CACAG  
ACACACTTTTCCTTATGGATCTGATTGTGATCTG-- 91279  
gi | 114795057 | ref | NC\_006483.2 | N AAGATACA-CACAG  
ACACACTTTTCCTTATGGATCTGATTGTGATCTG-- 99235  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAGTCCT-CACTG  
GCTCGCTTGGCCAGG----- 57013  
gi | 194719394 | ref | NC\_007316.3 | N AAAAAAAA-TCCTG  
TCAAGAAATACCAGGTGGAAAATGCGGGCTTCCAAT 75073  
gi | 149361523 | ref | NC\_000074.5 | \_ AAGGCAGGGCATTG



gi | 51473102 | ref | NT\_010498.15 | \_ AGTGGTGTGGGGGA  
AGGAATGCGCTTTGGAGTCAGGGGACCCATCTGGCC 91470  
gi | 114795057 | ref | NC\_006483.2 | N AGTGGTATGGGGGA  
AGGAATGCGCTTTGGAGTCAGGGGACCCATCTGGCC 99431  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCATTGGGGATG-  
-----GTCCCTGCGTG-----GGTGTAGGGCT 57097  
gi | 194719394 | ref | NC\_007316.3 | N CACAACAGCTTTTAT  
CATAAAATGCCTGCTTGTACACACATTTTAGGTCA 75269  
gi | 149361523 | ref | NC\_000074.5 | \_ CATAACACACACGGG  
GGGGTGGGGGTGGGGAGCTTGGTGCTGTTAGAGGCC 54476

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gi | 51473102 | ref | NT\_010498.15 | \_ ACGTGTGCGTAACC  
G--TATGAGCACAGAGCCAGTGCTTCCGCTGGAGCT 91518  
gi | 114795057 | ref | NC\_006483.2 | N ATGTGTGCGTAACC  
G--TATGAGCACAGAGCCAATGCTGCTGCTGGAGCT 99479  
gi | 73957561 | ref | NW\_876316.1 | Cf TG-----GGTTCC  
C--AGGGGGGAGACACATGTACATGTAGAGGGGGC 57139  
gi | 194719394 | ref | NC\_007316.3 | N AG-----CTACCG  
C--CAGAAACAAATCAATAGCAATACATCAGGGACC 75311  
gi | 149361523 | ref | NC\_000074.5 | \_ AGAGAGTGGGTACA  
GGGTGGGGAGAAATAGGAAGGTCAAGTGCTGGGGCA 54526

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGTGCTGCTGTTA  
TCACCAGTGATAGCTGCCAAGG---GAAAGAGAGT 91564  
gi | 114795057 | ref | NC\_006483.2 | N CAGTGCTGCTGTTA  
TCACCAGTGACAGCTGCCAAGGGAAAGAAAGAGAGT 99529  
gi | 73957561 | ref | NW\_876316.1 | Cf AG-----  
GGGCAGACAGGGCAGAAG----- 57160  
gi | 194719394 | ref | NC\_007316.3 | N GAGCAATCTCAGTG  
GTGGGTGACGTTGCAGAATTCTGCCAAATGAAGGAA 75361  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGTACTGCAGACC  
CTGGGTTTTGGGGGAGGGG-----GTCAC 54564

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCATTTGTGTCC  
CCAAAGCCAAGTGTGAGGGTTACCTCTCCTGCCAGC 91614

gi | 114795057 | ref | NC\_006483.2 | N CCTCATTTGTGTCC  
CCAAAGCCAAGTGTGAGGGTTACCTCTCCTGCCAGC 99579  
gi | 73957561 | ref | NW\_876316.1 | Cf ---GATAGGAGGCC  
TCCTGGGCACGTGG-----AGGA 57189  
gi | 194719394 | ref | NC\_007316.3 | N CATACTAGGCTGCA  
AGCAAAGCAAATGGGGGAGTTAAGAA-----AGGA 75405  
gi | 149361523 | ref | NC\_000074.5 | \_ CATCTTTATTGTCA  
CAGGAAGCTACAGG----- 54592

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTCCCTGGGAGCA  
GAAGTGGGACCAGGAAGCTGGCCTCAGCTGTGTCTG 91664  
gi | 114795057 | ref | NC\_006483.2 | N TCTCCCTGGGAGCA  
GAAGTGGGACCAGGAAGCTGGCCTCAGCTGTGTCTG 99629  
gi | 73957561 | ref | NW\_876316.1 | Cf AATCAGGTTTTACT  
CCAAACGAGACTTGATGATGCTTCCTCCTGTCACCA 57239  
gi | 194719394 | ref | NC\_007316.3 | N AATATTTTAAATGT  
TTGTTAGTAATTAATTCAGACATTGTACTATCTCCA 75455  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCCCTTCCAGTC  
TGAGTCCATCTTAGCACGGGTAAACTTCTGGCCCAT 54642

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGGCAGGGCCTC  
ACCCGGCCACTCCCACCATAACCGCCTGCTGCGGGTC 91714  
gi | 114795057 | ref | NC\_006483.2 | N AGCGGCAGGGCCTC  
ACCCGGCCACTCCCACAGTACCGCCCGCTGCTGGTC 99679  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAACAATTAGTA  
ATCTATAAAAGG----- 57265  
gi | 194719394 | ref | NC\_007316.3 | N A--AGAGATTAGTG  
CACTGGCAAAGGGTTCCGAGCACAGTGGAGGGCTGT 75503  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGGCCCGGGAAGC  
CTCTGGCAAGGTTGG----- 54671

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGCCTCAACCCTG  
CTGTGTGGAGTTGGCTGGAGGCTGGTCTCTCTCAGC 91764  
gi | 114795057 | ref | NC\_006483.2 | N TAGCCTCAACCCTG  
CTGTGTGGAGTTGGCTGGAGGCTGGTCTCTCTCAGC 99729  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

TAGTACTTGTTTCCTGG-----AGGTGATG----- 57290  
gi | 194719394 | ref | NC\_007316.3 | N GGCAGCACGCACC  
AAGAACACCCAGCCTTGGTGGGAGTGGTGGTCTTC 75553  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CT  
ATGGCCAAGATGAGGAATTAGGTGGTCATAG----- 54704

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gi | 51473102 | ref | NT\_010498.15 | \_ TGATGAGGGGCTCT  
GCGGAGGGCGGAGCCTGGAGCCTGTTTCTCCAGGCG 91814  
gi | 114795057 | ref | NC\_006483.2 | N CGATGAGGGGCTCT  
GCGGAGGGCGGAGCCTGGAGCCTGTTTCTCCAGGTG 99779  
gi | 73957561 | ref | NW\_876316.1 | Cf -----AT  
TTGTGGG-----ACTTCATGGGTCACCTGTTG 57319  
gi | 194719394 | ref | NC\_007316.3 | N CCACTCACTCCCTT  
TTGCCAG-----AGGTCCAGAAAGAACTGGCA 75594  
gi | 149361523 | ref | NC\_000074.5 | \_ -----GAGCCACC  
TGGTAGG-----CTGAGGAATCCCTGCTG 54736

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gi | 51473102 | ref | NT\_010498.15 | \_ CAACGTTGGGGGGG  
GTCCCCTCGGGGTGATGGAGATCATCTGGGTGT-AT 91863  
gi | 114795057 | ref | NC\_006483.2 | N CAACGTTGGGGGGG  
GTCCCCTCGGGGTGATGGAGATCATCTGGGTGT-AT 99828  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GTG  
GCCCCCGTGCCAACATTCAGTGCT-CTAGCTGG-AG 57356  
gi | 194719394 | ref | NC\_007316.3 | N GCACCGTCACCCTG  
CCTGCTGAGCCTCCACTCTAAGCGGCAAACCTGT-AA 75643  
gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTGTAGGCATG  
CCCTCCAGGGCATCCAGATGGCGACTTAGTTCTGAA 54786

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGTGTGTGTGG  
TTGGCCTTACGGGGTGGTCTTCCTTCACTGTCTGCG 91913  
gi | 114795057 | ref | NC\_006483.2 | N GGAAGTGTGTGTGG  
TTGGCCTTACTGGGTGGTCTTCCTTCACTGTCTGCG 99878  
gi | 73957561 | ref | NW\_876316.1 | Cf AGCCGGGCAGGTG-  
-CCACGTG-----C 57377  
gi | 194719394 | ref | NC\_007316.3 | N GGCAAGAGAGGAG-  
-TCCCCAAGGGGAGCAGAGATCACTGTAAGCTTCTA 75691



gi | 149361523 | ref | NC\_000074.5 | \_ AGCCGGCCTGGCAG  
CTGGGCTGGAGGG-----AT 54815

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gi | 51473102 | ref | NT\_010498.15 | \_ GGACAGATGGAGGG  
GCACAGCTGCCCATGGACCCAGGCTCTGGGGCTTCT 91963

gi | 114795057 | ref | NC\_006483.2 | N GGACAGATGGAGGG  
GCACAGCTGCCCATGGACCCAGGCTCTGGGGCTTCT 99928

gi | 73957561 | ref | NW\_876316.1 | Cf AGGAAGGAGGATGG  
GACACGGGGCCACCT----CTGG----GTTTCTCCA 57419

gi | 194719394 | ref | NC\_007316.3 | N AGACAGGAAGATGG  
GCCATGAGTCCCATT----CAAATCCCAGAGATGGG 75737

gi | 149361523 | ref | NC\_000074.5 | \_ ATACACGGGACTGG  
GCTGTGTTCCAGACTGGAGAGGATTCCATAGGGTTG 54865

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAAGGTGCCGAGG  
AGG----GCAGGTGCGATGCCTGGGGGCGTTCAGCA 92009

gi | 114795057 | ref | NC\_006483.2 | N GGAAGGTGCCGAGG  
AGG----GCAGGTGCGATGCCTGGGGGCGTTCAGCA 99974

gi | 73957561 | ref | NW\_876316.1 | Cf GCCTCGCCCCCAGA  
GG-----AGCGGCTTTGCTTTT----CCCCAAA 57457

gi | 194719394 | ref | NC\_007316.3 | N GCCAAGTCCCCAGA  
AGTAGCTGTGGAGACTTGAAAACCTGGACACTCCTCA 75787

gi | 149361523 | ref | NC\_000074.5 | \_ GGGGAGGGGAAACT  
GAGG--CAAAAATGCCTGAAAACCTTGACCCCCAAA 54913

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gi | 51473102 | ref | NT\_010498.15 | \_ AATGCCTGGCCCTG  
CCCCCTGTGCCAACTTGGCCTGGGAGGCTCAGGCAC 92059

gi | 114795057 | ref | NC\_006483.2 | N AATGCCTGGCCTTGC  
CCCCTGTGCCAACTTGGCCTGGGAGGCTCAGGCAC 100024

gi | 73957561 | ref | NW\_876316.1 | Cf TT----CTCAACTA  
CCTGGGGAGGTGGTGAGGCCCCACCTGTACCCAGCC 57503

gi | 194719394 | ref | NC\_007316.3 | N TTGCATAGAAATAT  
CCAGGACAACCTGGAAAAGTCCTCAGAGAAATGTTCC 75837

gi | 149361523 | ref | NC\_000074.5 | \_ TC-----ATCTC  
ACGGGGACTCCAGCCGGTCCTTGTGCTGAGCCAGCC 54956

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTGTTTCAAG--  
 ---GGTCCTTTATTTTCATTCCTGGTTCATTTCAAAG 92104  
 gi | 114795057 | ref | NC\_006483.2 | N AGCTGTTTCAAG---  
 --GGTCCTTTATTTTCATTCCTGGTTCATTTCAAAG 100069  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGTG-----T  
 GCTGGAAGAGGACCCAAACCCTCCTGTGCTCC---- 57540  
 gi | 194719394 | ref | NC\_007316.3 | N GTGAGAATCCAGCT  
 CTTGGAAGCAGCACTAAAACATCCACTTTACCGGTG 75887  
 gi | 149361523 | ref | NC\_000074.5 | \_ TGGACAGACATG--  
 ---GTTAGGTGGACAGATGCACTTACCATGCCGAGT 55001

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTCTGTGTCTTGT  
 TCGGAGCAGCTTGGGGGTAGAGCCCGTTG----ACA 92150  
 gi | 114795057 | ref | NC\_006483.2 | N TGTCTGTGTCTTGT  
 TGGAGCAGCTTGGGGGTAGAGCCCGTTG----ACA 100115  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----CACAGCAGCATCACCT-----CT 57559  
 gi | 194719394 | ref | NC\_007316.3 | N TCAGACAGACATGT  
 AGTGGGACGCTGCGGCGTAGCTCAGGGAGCTCAGCT 75937  
 gi | 149361523 | ref | NC\_000074.5 | \_ TATCTCTG-----  
 --AGGTCAGCTGTCCCGCCCTCCTCATAG---GACA 55040

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGACGCCTTCAGG  
 CAGCCACCACGGAGTGTGCGGGACACCATCCTCAGC 92200  
 gi | 114795057 | ref | NC\_006483.2 | N AAGACGCCTTCAGGC  
 AGCCACCACGGAGTGTGCGGGACACCATCCTCAGC 100165  
 gi | 73957561 | ref | NW\_876316.1 | Cf CTGGGACCTTGTAG  
 GAAATGCAGATTCTGGGGCT----- 57593  
 gi | 194719394 | ref | NC\_007316.3 | N CTGTGACGATCTAG  
 ACGGGTAGGATGGTGGTGCAGGAGGGAGGCAGCATG 75987  
 gi | 149361523 | ref | NC\_000074.5 | \_ CAGGTCCTGGTCTG  
 TGGGCTTGTGTAGTGGGATG----- 55074

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGCCCTCATCCT

GAAGATCCTCATGTCCGCGGCCATCATCATCAGCGG 92250  
gi | 114795057 | ref | NC\_006483.2 | N AGAGCCCTCATCCTG  
AAGATCCTCATGTCCGCGGCCATCATCATCAGTGG 100215  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TTCCCCACG--  
-----ACTGTGGAGTCGGGCT----- 57618  
gi | 194719394 | ref | NC\_007316.3 | N TGCCTACTCACGGC  
CAATTCACGGCGCTGTACGGCAGAAATCAACAGT-- 76035  
gi | 149361523 | ref | NC\_000074.5 | \_ ----ACCTGTCAGG  
CAGTTACCTGCAAGGCATGGTGGTTCTCAACCTTCC 55120

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gi | 51473102 | ref | NT\_010498.15 | \_ -GACCCTCTTTATC  
TTCTGGAAGGAGGTGAGCGAGGGTCACCCCGGCCTG 92299  
gi | 114795057 | ref | NC\_006483.2 | N -GACCCTGTTTATCT  
TCTGGAAGGAGGTGAGTGAGGGCCACCCAGCCTG 100264  
gi | 73957561 | ref | NW\_876316.1 | Cf -CTCACTCATGCCC  
CCCAGTGGAGTCCACAGAGACCCCTAGTCCAGCATG 57667  
gi | 194719394 | ref | NC\_007316.3 | N -TTAGCAATTACCC  
TCCAATTAACACATGGGAAAAAATTCAAGCTCT 76084  
gi | 149361523 | ref | NC\_000074.5 | \_ TAATACTGAGCCCC  
TTTAATACAGTTCCTTGTGTTCTGGTGACCCCCCCC 55170

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gi | 51473102 | ref | NT\_010498.15 | \_ TTCTCCAAGCCCTG  
GTGCGGTGCAGACGCTGGGGACTGCAGTCCCTGCCC 92349  
gi | 114795057 | ref | NC\_006483.2 | N TTCTCCAAGCCCTGG  
TGCAGTGCAGACGCTGGGGACTGCAGTCCCTGCCC 100314  
gi | 73957561 | ref | NW\_876316.1 | Cf CAAGCCCAGG----  
-TGGGAAGGGGTCACCTCCACCTCCCCTCCAGGCCT 57712  
gi | 194719394 | ref | NC\_007316.3 | N TTGACTCAGGGTCT  
CAGGGCTGGAAGCAACCCTCTATTCATCCAGGCAA 76134  
gi | 149361523 | ref | NC\_000074.5 | \_ CCAACCATAG----  
-----AATTTTTTTTTGTTGGTATGTCATGAATGTAA 55211

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCTGCCACAGCTC  
ACATCTGGGAGAGG-CAAACATGTACACACACCGGA 92398  
gi | 114795057 | ref | NC\_006483.2 | N TCCTGCCACAGCTCA  
CATCTGGGAGATTTTTTACATGTACACTCCCCA 100364

gi | 73957561 | ref | NW\_876316.1 | Cf ---GGCC----CTA  
CGATGTCAAGGGGAATGAG-----ACCCTG 57744  
gi | 194719394 | ref | NC\_007316.3 | N ---CGACGCCTCTT  
GCATCTCAGCAGGAATGAGGTCGGTCAAGGACACTA 76181  
gi | 149361523 | ref | NC\_000074.5 | \_ TTTTGCTACTGTTG  
TGAATTGGAAATATCTGATG-----GTC 55248

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gi | 51473102 | ref | NT\_010498.15 | \_ CAATGTGATGCCAT  
CAGAGGCGTGGGGTGCATGAGGCAAAGGGACTGGGT 92448  
gi | 114795057 | ref | NC\_006483.2 | N CCATGTTGTGGCAGC  
AGAGGGGTGGGGTGCATGAGGCAAAGGGACTGGGT 100414  
gi | 73957561 | ref | NW\_876316.1 | Cf CCACGGG---TCGG  
AGCAGCAGAG----CCAAGAG--CCAGGGAAGGTGT 57785  
gi | 194719394 | ref | NC\_007316.3 | N AAATGGCTTTACGA  
AGCAACAGACTT-ACCTTTTGGACCAAGGTCTGCTG 76230  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAAGTGGTCCCTG  
TGAAAGGGTCAT----TTGTCCCCAAAGGGGTCACA 55294

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gi | 51473102 | ref | NT\_010498.15 | \_ GACCCTTGAAAGAA  
GGGAGGTCGCCAGGTGTGT-GCCTGGGAACTACAGA 92497  
gi | 114795057 | ref | NC\_006483.2 | N GACCCCTGAAAGAAG  
GGAGGTCGCCAGGTGTGT-GCCTGGGAACTGCAGA 100463  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCATCTAGGAAGT  
GATGTTCTG----CTCTGT-GGATG-TAGCTGAAGC 57829  
gi | 194719394 | ref | NC\_007316.3 | N GGCCTGAGGGTCAG  
CCAGCCCTGGGAGGCCTGG-GCCAG-CAGCTGCCAA 76278  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCACAGTAGAAG  
GTACCTTTTTTCTTCTCTGCTACCTTCCAGCTGTGCT 55344

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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCAGCGGGGTGG  
AGATGACTTTGCCGAGACGG-----GAGTTGAAA 92540  
gi | 114795057 | ref | NC\_006483.2 | N GGCCAGCGGGGTGGA  
GATGACTTTGCCGAGATAG-----GAGTTGAAA 100506  
gi | 73957561 | ref | NW\_876316.1 | Cf AGTGTCAT-----  
-----CTCCAGGAAG-----CAATGTCA 57856  
gi | 194719394 | ref | NC\_007316.3 | N AGCTTCCAGGTGCG

GGCCCTTCCTTCCGGGACGTCAAACCTCACAAAAGCC 76328  
gi | 149361523 | ref | NC\_000074.5 | \_ GGCAACTG-----  
--ACACTCCTCCCAGGGTGG-----CCTCC 55375

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gi | 51473102 | ref | NT\_010498.15 | \_ TGTACATGAGGACA  
GGCTGCCCCCTGTTCCCTTGTCACCAGGAAACAATT 92590  
gi | 114795057 | ref | NC\_006483.2 | N TGTACATGAGGACAG  
GCTGCCCCCG-TTCCCTTGTCACCAGGAAACAATG 100555  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTGCTGGAGGAAG  
GGGCATTCCCTTTATCTG---TGCAAGGGAGCCTGG 57903  
gi | 194719394 | ref | NC\_007316.3 | N CCTGCTGTGTTACA  
TTTCGCACTCTGAAGCAAGTTTACTGAGGCCCCACG 76378  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGGGGCCAGCACA  
GCACATGGCTCAAAGCCAGCTTCTAGTGTGTACCTG 55425

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gi | 51473102 | ref | NT\_010498.15 | \_ TG-AAATCTGCTAA  
ATATCCTCCTGTGTTACTACTCTAGAGGTGATTGTTT 92639  
gi | 114795057 | ref | NC\_006483.2 | N TG-AAATCTGCTACA  
GATCCTCCTGTGTTACTACTCTAGAGGTGACTGTTT 100604  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGGAGCATGGGGG  
GCAGCCACAAT-----CCCTGAG--GAAGGGCT 57943  
gi | 194719394 | ref | NC\_007316.3 | N TGTTTATTTCCGTT  
GTTACTTCCATTGAGGAGCATCAGAG--AAAGTGTT 76426  
gi | 149361523 | ref | NC\_000074.5 | \_ TAGGGCTGGGCTGA  
CCAGCCATCCTCGGGCAGCACCTGCGGGCCACCCTG 55475

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gi | 51473102 | ref | NT\_010498.15 | \_ GCTTTGGATCTAGG  
CCTGGG----TCACCTTTTTCATGGCCTGCAGGTTCA 92685  
gi | 114795057 | ref | NC\_006483.2 | N GCTTTGGATCTACGC  
CTGGG----TCACCTTTTTCATGGCCTGCAGGTTCA 100650  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGG-----  
-----CCCCTCCACCTGCCGGGGTTG---- 57969  
gi | 194719394 | ref | NC\_007316.3 | N GCTGTGGTTTATGT  
CAAGTGTTTTTTCCTGTTCTCCTCTCGGATTTTACA 76476  
gi | 149361523 | ref | NC\_000074.5 | \_ GCACACTG-----  
-----CGCCCCTTCCCTCCCT----- 55499

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gi | 51473102 | ref | NT_010498.15 | _      GGG-----
-----AGCTCTATGCCAGGACGGGCCACGATCTAG  92718
gi | 114795057 | ref | NC_006483.2 | N      GGG-----
-----AGCTCTGAGCCAGGACGGGCAACGATCTAG  100683
gi | 73957561 | ref | NW_876316.1 | Cf      -----
-----GCTGG 57974
gi | 194719394 | ref | NC_007316.3 | N      GTATCCAGTCTTAC
ATTTACATCTTTAATCCATTTTGAGTTTATCTCTGT  76526
gi | 149361523 | ref | NC_000074.5 | _      -----
-----GCCAT 55504

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gi | 51473102 | ref | NT_010498.15 | _      GTGGGAAATGAGGC
AGGTGACCCATGTGACCACACCACAGATTGCCCATG  92768
gi | 114795057 | ref | NC_006483.2 | N      GTGGGAAATGAGGCA
GGTGACCCATGTGACCACAGCGCAGACTGCCCATG  100733
gi | 73957561 | ref | NW_876316.1 | Cf      GTTGGGGGGTCGTG
AAA-----CA 57993
gi | 194719394 | ref | NC_007316.3 | N      GTGTGGTGTTAGAG
AATGTTCTGATTTCACTCTCTTGCCTATAGCCATCC  76576
gi | 149361523 | ref | NC_000074.5 | _      GCGTGTGCCTAATA
CTG-----CA 55523

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gi | 51473102 | ref | NT_010498.15 | _      TGCAGGAAGCGGGA
GGGGACCCTGGCCGGGTACCCTGCCTCCATTTTCCC  92818
gi | 114795057 | ref | NC_006483.2 | N      TGCAGGAAGCGGTAG
GGGACGCTGGCCGGGTACCCTGCCTCCATTTTCCC  100783
gi | 73957561 | ref | NW_876316.1 | Cf      TGTCT-----
-----CCCCTTACAAGACCGAGAGGAGGTTTCAGG  58027
gi | 194719394 | ref | NC_007316.3 | N      AGTCTGAAGAGACT
GTCTTTTCTCCTCTGTAGGCAGGGGGTCTTTCCAC  76626
gi | 149361523 | ref | NC_000074.5 | _      TTCCAG-----
-----ATCCCAGCGAACGGCACCAGCACCCACGTA  55560

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCAGCTCTCCCTC  
TACTACTGACGGCCATCCTTCAGCCTTCCTTGTAGG 92868  
gi | 114795057 | ref | NC\_006483.2 | N TCCAGCTCTCCCTCT  
ACTACTGAAGGCCATCCTTCAGCCTTCCTTGTAGG 100833  
gi | 73957561 | ref | NW\_876316.1 | Cf TCAGTTCCTAGTAA  
GGCCCCCGCTGGAGTTCCTGCTCCCTCTGGCT---- 58073  
gi | 194719394 | ref | NC\_007316.3 | N GGGTCACCTTTCTG  
TGGCCCCGCAG--GTTTCAGGCACCCCTGTGCTGAG- 76673  
gi | 149361523 | ref | NC\_000074.5 | \_ CAACCACCATGGCC  
TTCACCTGCTTCGTGTTTTTCGACCTCTTCAATG-- 55608

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gi | 51473102 | ref | NT\_010498.15 | \_ AAATGACCTTCACT  
CTGGGTTTAACTGGAGTGGCATCACCTCCCAGGGAG 92918  
gi | 114795057 | ref | NC\_006483.2 | N AAATGACATTCACTC  
TGGGTTTAACTGGAGTGGCATCACCTCCATGGGAG 100883  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
CTGGGTGAAGGACAAAT-----TCATCTTGGGAA 58102  
gi | 194719394 | ref | NC\_007316.3 | N --AGCGCCAGTGAC  
CTAGGTAGAGAATCGGG-----CAGGCATGTGAG 76714  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CC  
CTGAGCTGTTCG-----CTCTCAGGTGA 55632

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gi | 51473102 | ref | NT\_010498.15 | \_ ACAGTTACTTCCTG  
GAGGAAGTGGTGTTCCTCCACCCATAGGTGCCCTG 92968  
gi | 114795057 | ref | NC\_006483.2 | N ACAGTTACTTCCTGG  
AGGAGGTGGTGTTCCTCCACCCATAGGTGCCCTG 100933  
gi | 73957561 | ref | NW\_876316.1 | Cf ACAC--ATGCCCT-  
--CCCTGGACATGCTCATCCCGCGCCTTTG----TG 58143  
gi | 194719394 | ref | NC\_007316.3 | N GCAG--GCACCCTG  
GGTGCAGGAGAGGGGCTGGCCGGGACGCTGGATCAC 76762  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTG-----AGCAG  
GCCGGGCCTGAAGCCCCGCCCCGACTGAGGTCCCG 55677

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gi | 51473102 | ref | NT\_010498.15 | \_ CCCCCATCCTCATG  
GTGGCAGCAAATCAGCATGTGCTGGGGAGACCCTGG 93018  
gi | 114795057 | ref | NC\_006483.2 | N CCCCCATCCTCATGG

TGGCAGCAAACCAGCATGTGCTGGGGAGACCCTGG 100983  
gi | 73957561 | ref | NW\_876316.1 | Cf TTCCAGATCCCCG-  
----CAGACAAG--GCCAGCACCCCGCGCACCACAA 58186  
gi | 194719394 | ref | NC\_007316.3 | N CCCCACTTCTCAG-  
----CTTTTCTCGAGCGTGCCCCCATCCCACCCCAA 76807  
gi | 149361523 | ref | NC\_000074.5 | \_ CCCAG-----  
-----CCTGAAGCCCCGCCTCTGCGGACCCACG 55711  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTAGCAGCCACTG  
ACCTCACACCTGGAGGAAGCTGTGTGACCGATTCAT 93068  
gi | 114795057 | ref | NC\_006483.2 | N GGTAGCAGCCACTGA  
CCTCACACCTGGAGGAAGCTGTGTGACCGATTCAT 101033  
gi | 73957561 | ref | NW\_876316.1 | Cf CC-----AT  
GACTTTCACCTGTTTTGTGTTCTTTG----- 58216  
gi | 194719394 | ref | NC\_007316.3 | N GAGG--TGCAGATT  
GCCTCCTTCCTGCATCCTGAGCTCAGGAAGGTGGAG 76855  
gi | 149361523 | ref | NC\_000074.5 | \_ ACAG-----G  
GACGCACTGTGGACAGGG----- 55734

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gi | 51473102 | ref | NT\_010498.15 | \_ GAGCTTGTAAGTGG  
CTCCCAGCCATGCCCCAGGAGCAGTGAGGCAGGCCT 93118  
gi | 114795057 | ref | NC\_006483.2 | N GAGCTTGTAAGTGGC  
CCCCAGCCATGCCCCAGGAGCAGTGAGGCAGGCCT 101083  
gi | 73957561 | ref | NW\_876316.1 | Cf --ACCTCTTCAATG  
--CCTTGACCTGCCGCTCC----- 58245  
gi | 194719394 | ref | NC\_007316.3 | N AGGCCCCACCTTTG  
--TCCAGCCCAGGCGCTCAGCCAGGCGCAGGTTCTA 76903  
gi | 149361523 | ref | NC\_000074.5 | \_ ACCCTGCAGCATTG  
TGTCTCTACACTCCAGGCAGAGGTTTGGGGAGAGGG 55784  
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gi | 51473102 | ref | NT\_010498.15 | \_ GTGCCCTTTGGTTC  
AGGATGGAGGTTGTCTCTTCCCGCCTAACCTCTCAC 93168  
gi | 114795057 | ref | NC\_006483.2 | N GTGCCCTTTGGTTCA  
GGATGGAGGATGGCTCTTCCCGCCTAACCTCTCAC 101133  
gi | 73957561 | ref | NW\_876316.1 | Cf ---CAGGTGAGCCC  
AGGGCTG-----TCCTCCCCTCCCCTCCC 58280



gi | 194719394 | ref | NC\_007316.3 | N ACACAGTGGTCCCG  
AGAGCGGGGTCCCCCGTCTCCCTCACACCTCCTCAC 76953  
gi | 149361523 | ref | NC\_000074.5 | \_ GTACAGCTTTCATT  
CCATCAGGGGCTCCAACCCACCTCAGCACCTGCCAT 55834

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTTG-TGCTCACC  
TTCCAGATGCCTGAAGACAGAGCAAGCACTCCCCGC 93217  
gi | 114795057 | ref | NC\_006483.2 | N CTTTG-TGCTCACCT  
TCCAGATGCCTGAAGACAGAGCAAGCACTCCCCGC 101182  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCAGGACCCCAT-  
--CCTGTTCCCCGTGGGAAGTGCTGGGGCCAGGG-- 58325  
gi | 194719394 | ref | NC\_007316.3 | N CCCGCGCACTCGTG  
TTCCAGATGCCCGAGGACAGGGCAAGCACCCCTCGC 77003  
gi | 149361523 | ref | NC\_000074.5 | \_ TCTGCCAGCTGCC  
AACTTGGAGGGCGGGGAAGGGGCGGAGCACAGACTG 55884

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gi | 51473102 | ref | NT\_010498.15 | \_ ACCACGACGATGAC  
GTTCACTTGT TTTGTG TTTTTCGATCTCTTCAACGC 93267  
gi | 114795057 | ref | NC\_006483.2 | N ACCACGACGATGACG  
TTCACCTTGT TTTGTG TTTTTCGATCTCTTCAACGC 101232  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----TCCTAGC 58332  
gi | 194719394 | ref | NC\_007316.3 | N ACCACAACCATGGC  
CTTCACCTGCTTCGTGTTCTTCGACCTCTTCAACGC 77053  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CATGGTGTC 55893

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGACCTGCCGCT  
CTCAGGTGAGACCCGGGCTGACCCTCCTCGCTGCAG 93317  
gi | 114795057 | ref | NC\_006483.2 | N CTTGACCTGCCGCTC  
TCAGGTGAGACCCGGGCTGACCCTCCTCGCTGCAG 101282  
gi | 73957561 | ref | NW\_876316.1 | Cf CACTCCGTGCCTCT  
GCTTG-----GATGGTGGCA- 58361  
gi | 194719394 | ref | NC\_007316.3 | N CTTGACCTGCCGCT  
CCCAGGTGAGCCCCCGGCAGGACGGGATCGCAGCC- 77102  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGGGGCCCAGCT

CCTGA-----ACCCACCA- 55920  
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gi | 51473102 | ref | NT\_010498.15 | \_ AGCTGCTGTGTGTT  
CTCGACAGCAGCGCCCCGACCCTGCCCGCAGCATTG 93367  
gi | 114795057 | ref | NC\_006483.2 | N AGCTGCTGTGTGTTC  
TCGACAGCAGCGCCCCGGCCCTGCCACAGCATTG 101332  
gi | 73957561 | ref | NW\_876316.1 | Cf -----T  
CCG--TGAATGTGACCCAGC----- 58380  
gi | 194719394 | ref | NC\_007316.3 | N -----T  
CCCGGCCCCAGTGCTCCAGCGGC----- 77126  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
CACTGTGTGCTCACACCAGC----- 55940

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gi | 51473102 | ref | NT\_010498.15 | \_ AGCGGCTCTGGCTC  
AGCGTGGGCAGTCAGAGCTCCCCTGCCTGTACCTGG 93417  
gi | 114795057 | ref | NC\_006483.2 | N AGCGGCTCTGGCTCA  
GCGTGGGCAGACAGAGCTCCCCTGCCTGTACCTGG 101382  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CAACATGTGCCCTTCTG----- 58397  
gi | 194719394 | ref | NC\_007316.3 | N -----T  
CTCGTGCCTGACTATGCCCTTCT----- 77151  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCACTCCTGCCTCTCAT----- 55957

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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGTGGACAGCAC  
ACAATCCCCCGTGTGACCTTCTCCCTGCAGACCAAG 93467  
gi | 114795057 | ref | NC\_006483.2 | N GGTGTGGACAGCACA  
CAATCCCCCGTGTGACCTTCTCCACAGACCAAG 101432  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCCACAGACCAAG 58412  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----CCCCACAGACCAAG 77166  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CCCCACAGACCAAG 55972

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gi | 51473102 | ref | NT\_010498.15 | \_ CTGATATTTGAGAT  
CGGCTTTCTCAGGAACCACATGTTCTCTACTCCGT 93517  
gi | 114795057 | ref | NC\_006483.2 | N CTGATATTTGAGATC  
GGCTTTCTCAGGAACCACATGTTCTCTACTCCGT 101482  
gi | 73957561 | ref | NW\_876316.1 | Cf TTGATATTCGAGAT  
CGGCTTCCTCCGGAACCCCATGTTCTGTACTCAGT 58462  
gi | 194719394 | ref | NC\_007316.3 | N CTGATCTTCGAGAT  
CGGCTTCCTCCGGAACCGCACGTTCTCTACTCTGT 77216  
gi | 149361523 | ref | NC\_000074.5 | \_ CTGATATTTGAGAT  
TGGCTTTTTCCGGAACCGCATGTTCTGTACTCAGT 56022

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTGGGGTCCATCC  
TGGGGCAGCTGGCGGTCATTTACATCCCCCGCTGC 93567  
gi | 114795057 | ref | NC\_006483.2 | N CCTGGGGTCCATCCT  
GGGGCAGCTGGCAGTCATTTACATCCCCCGCTGC 101532  
gi | 73957561 | ref | NW\_876316.1 | Cf GCTGGGCTCAATCC  
TGGGGCAGCTGGCTGTGATTTACGTCCCGCCCCTAC 58512  
gi | 194719394 | ref | NC\_007316.3 | N GCTCGGCTCCATCC  
TGGGACAGCTGGCTGTTCATTTACACGCCGCCCTGC 77266  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTTGGGTCCCTCC  
TGGGGCAGCTGGCCGTGATCTATGCCCGCCCCTAC 56072

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGGGTCTTCCAG  
ACGAGAACCTGGGAGCGCTTGGTGAGTGGTGGGGA 93617  
gi | 114795057 | ref | NC\_006483.2 | N AGAGGGTCTTCCAGA  
CGGAGAACCTGGGAGCGCTTGGTGAGTGGTGGGGA 101582  
gi | 73957561 | ref | NW\_876316.1 | Cf AGAAGGTCTTCCAG  
ACAGAGAACCTGGGTGCACTCGGTGAGTGGG----- 58557  
gi | 194719394 | ref | NC\_007316.3 | N AGAGGGTCTTCCAG  
ACAGAGAGCCTGGGGGCGCTGGGTGAGTCTG----- 77311  
gi | 149361523 | ref | NC\_000074.5 | \_ AAAAGGTCTTCCAG  
ACTGAAAACCTGAGCGCGCTCGGTGAGTGTATG---- 56118

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gi | 51473102 | ref | NT\_010498.15 | \_ CGGGAACGACAGGT  
GACCTCGACCAGGGCCATGGGGGGCGGCAGCTGCCA 93667

gi | 114795057 | ref | NC\_006483.2 | N TGGGAACGACAGGTG  
ACCTCGACCAGGGCCATGGGGGGCTGCAGCTGCCG 101632  
gi | 73957561 | ref | NW\_876316.1 | Cf AGGGGATGTTGGGG  
-----GGGGGT----- 58578  
gi | 194719394 | ref | NC\_007316.3 | N AGGGCTCATGGGGG  
CTGTCCTCACTGCCTGCCCGGGGCGTGAAGTCCCCT 77361  
gi | 149361523 | ref | NC\_000074.5 | \_ -GGAGCCGAGACTG  
G----- 56132  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGTGGGGAGCTGCA  
GCCCAGGAGGGGTCAGTGCGGGAAAGCAGAGCTCAC 93717  
gi | 114795057 | ref | NC\_006483.2 | N GGTGGGGAGCTGCAG  
CCCAGGAGGGGTCAGTGCGGGAAAGCGGAGCTCAC 101682  
gi | 73957561 | ref | NW\_876316.1 | Cf -----A  
GTCCT-CAGGGATCTG----- 58594  
gi | 194719394 | ref | NC\_007316.3 | N CGAGGGGCCATCCT  
GTCCC-CAGGGGACTGGGC----- 77393  
gi | 149361523 | ref | NC\_000074.5 | \_ -----C  
CACCAACTGGGGTGAAG----- 56150

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGGGGCCGGCTCT  
GTCTTCAGGGCCCTTCTGTCCTCACAGGAAGGGACT 93767  
gi | 114795057 | ref | NC\_006483.2 | N CAGGGGCCAGCTCTG  
TCTTCAGGGCCCTTCTGTCCTCACAGGAAGGGACT 101732  
gi | 73957561 | ref | NW\_876316.1 | Cf ---TGCCCTGCAGG  
GTACACTGGGTGG---GAGGGCGATGTGATGGGGGC 58638  
gi | 194719394 | ref | NC\_007316.3 | N TCGTGCCTGAACAT  
GAGCACCGGGCAGGATGGGGGGGACGCCACGCAGGC 77443  
gi | 149361523 | ref | NC\_000074.5 | \_ -----CTGTGAA  
GACCACAGGAGGAGCTTGGAGTCTGG----GCCACC 56189

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gi | 51473102 | ref | NT\_010498.15 | \_ CTAACGTGGGTGAT  
GTGACGGATGCACAGAAACCCCTAGGAAGAGGCCTG 93817  
gi | 114795057 | ref | NC\_006483.2 | N CTAACGTGGGTGATG  
TGAGGGATGCACAGAAACCCCTAGGAAGAGGCCTG 101782  
gi | 73957561 | ref | NW\_876316.1 | Cf CTGGGGCACACAAG

-AACCATAGGAAGAGGCACCTCTG---CCAGGAAG 58683  
gi | 194719394 | ref | NC\_007316.3 | N GTGGAGAAGGCGCG  
-AGACTCAGGGGCTGGAGCCCCTG---CTGGGAG- 77487  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTGAGCGGCAGGC  
TAGTCCACAGGCTTCTGTTCTGTG----- 56227  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCACTCAAGAGTAG  
TAGGGTCTGGGGCCCAAGG--GGCACCGGCATCCCA 93865  
gi | 114795057 | ref | NC\_006483.2 | N TCACTCAAGAGTAGT  
AGGGTCTGGGGCCCAAGG--GGCACCGGCATCCCA 101830  
gi | 73957561 | ref | NW\_876316.1 | Cf ACCACCAAGGGCAG  
AAGGGGACGTGGCCTCCTGGAGGCTCAGAGTACACA 58733  
gi | 194719394 | ref | NC\_007316.3 | N TCAGGGGAGGGCAG  
AGGGG--TCACAACACCCGG--GCCACACCCCTCCCC 77534  
gi | 149361523 | ref | NC\_000074.5 | \_ -GCACTTAGGGTAG  
GAAGG----TGACATGCAG--ACACAGGGAACACA 56269  
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gi | 51473102 | ref | NT\_010498.15 | \_ GCGTCGGGCTGGA  
GGCTCAGAGCACGTGCAGGGAGGAAGGAGGGAGCAA 93915  
gi | 114795057 | ref | NC\_006483.2 | N GCGTCGGGCTGGAG  
GCTCAGAGCATGTGCAGGGAGGAAGGAGGGAGCAA 101880  
gi | 73957561 | ref | NW\_876316.1 | Cf CGGCAGGTACAGCC  
AGGCCTGGGGCTGCCCCGGCGTGGGCATCACTCTGG 58783  
gi | 194719394 | ref | NC\_007316.3 | N ATCCCGGGACAGGA  
GGCCCCGGGGCAGCCGG--ATGGACCACGGTCTAT 77581  
gi | 149361523 | ref | NC\_000074.5 | \_ GAGGAAGTGCAAAA  
GG--AAGTCACTGTGCAG--AGAGTCCTGGGGCTAG 56315  
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gi | 51473102 | ref | NT\_010498.15 | \_ GGCCTGTACTCAGC  
CTGGGAGGTACCCAGCTGGGGAG-----CCTG 93957  
gi | 114795057 | ref | NC\_006483.2 | N GGCCTGGACTCAGCC  
TGCGATGTACCCAGCTGGGGAG-----CCTG 101922  
gi | 73957561 | ref | NW\_876316.1 | Cf GTCATTCTGCCCC  
C-----CCAA 58802  
gi | 194719394 | ref | NC\_007316.3 | N GCTGGCTCAGCCTC  
TGACGTGCTGCCTGGGCCTAGGAGTGTGTCAGCCTG 77631

gi | 149361523 | ref | NC\_000074.5 | \_ GACTGGGTAGCAGC  
A----- 56330  
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gi | 51473102 | ref | NT\_010498.15 | \_ GACTTGACCCTGGG  
GCCAGTAATGTGACTTAGAGATCTGGTCACCTGAAG 94007  
gi | 114795057 | ref | NC\_006483.2 | N GACTTGACCCTGGGG  
CCAGTAGTGTGACTTAGAGATCTGGTCACCTGAAG 101972  
gi | 73957561 | ref | NW\_876316.1 | Cf CGGG-----TAG  
TGGGCTGGTGTGTCTTGGACACCCACTTACCTCAAG 58845  
gi | 194719394 | ref | NC\_007316.3 | N CTGGGGGCTGTAAT  
GGGCCTGTGTGACAGGGAC-CCTGCTTACCTGGAG 77680  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----TCCTGAACCTCAGGACACACACAGTCTGGGG 56361

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gi | 51473102 | ref | NT\_010498.15 | \_ GCAGGGAGCTGGGC  
TGTCTTCCAGTTTTGGCTGAAAGGGACATGATTCAG 94057  
gi | 114795057 | ref | NC\_006483.2 | N ACAGGGAGCTGGGCT  
GTCTTCCAGTTTTGGCTGAAAGGGACATGATTCAG 102022  
gi | 73957561 | ref | NW\_876316.1 | Cf CCAGGGAGCAAG-C  
CAGCTCATGGTTCTTGCCAGAAAGAACATGGTTTTA 58894  
gi | 194719394 | ref | NC\_007316.3 | N ATCGG-ACTGTG-C  
CGGCCGGCAGTTCCTGCTGAGAAGGCCACACG-TAG 77727  
gi | 149361523 | ref | NC\_000074.5 | \_ GCTTG-ACTGGGGC  
TGGTGTGCAGTTCTTGCTGAAAGGGACATAATGTAG 56410  
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gi | 51473102 | ref | NT\_010498.15 | \_ TCACCGTGGTTTTTC  
CAAGG-----GCACACGCCCTGGTGTGGAGCCCA 94100  
gi | 114795057 | ref | NC\_006483.2 | N TCACCGTGGTTTTTC  
AAAG-----GCACACGCCCTGGTGTGGAGCCCA 102065  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCCCGTGGCTGTC  
CCAGACCTGAGCACACCTGCCCAGGTATAGAATCCT 58944  
gi | 194719394 | ref | NC\_007316.3 | N ARACTGCGGCCCTC  
CAGGTCCCAAGCACACCTGCCCCAGGCGGAGCCCA 77777  
gi | 149361523 | ref | NC\_000074.5 | \_ CGGTCAGGGATG--  
-----GGGACAGGAAGTAAAGAGCCCCTA 56446

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gi | 51473102 | ref | NT\_010498.15 | \_ GG-GGACTCCCCGA  
 CATTGTCAGCCAAGCGAG-TGTGGCACCTTTCTCTG 94148  
 gi | 114795057 | ref | NC\_006483.2 | N GG-GGACTCCCCGAC  
 ACTGTCAGCCAAGCAAG-TGTGGCACCTTTCTCTG 102113  
 gi | 73957561 | ref | NW\_876316.1 | Cf G--GGGCTCCCCTG  
 CACCCCCACCCAGGCTGAGTGAGGAGCCAAG----- 58987  
 gi | 194719394 | ref | NC\_007316.3 | N GGCGTGCTCCCCTG  
 CG-TCCTCCCCAGGCTTCTGGCAGCCCCACCGTCT- 77825  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGCCTGCAGCGAAA  
 CTAGTCCAAGAACAGCGGTTGCAGGTCCCCG----- 56491

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gi | 51473102 | ref | NT\_010498.15 | \_ AAGCTGCGGTTATG  
 GCAGGCATGGGGCAAGGGGAGGGAGCCAGGGACAAG 94198  
 gi | 114795057 | ref | NC\_006483.2 | N AAGCTGCAGTTATGG  
 CAGGCACGGGGCGAGGGGAGGGAGCCAGG-GTAAG 102162  
 gi | 73957561 | ref | NW\_876316.1 | Cf ----TGCTTTGCAA  
 TATGCCCTGGGTAATGGAGG-----CT 59019  
 gi | 194719394 | ref | NC\_007316.3 | N ----TTCCGTGAAA  
 GCTGTGCAGGGTGACTGGGC-----CT 77857  
 gi | 149361523 | ref | NC\_000074.5 | \_ -----ACCTTTTCT  
 TCTGTCCCATGTTGG----- 56515

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gi | 51473102 | ref | NT\_010498.15 | \_ TCATCGACCCCACC  
 CTTTTCCCCAGTGTGCTGAGAGCCAACCCCAACCCG 94248  
 gi | 114795057 | ref | NC\_006483.2 | N TCATCGACCCCACCC  
 TTTTCCCCAGGGTGCTGAGAGCCACCCCAACCCCTG 102212  
 gi | 73957561 | ref | NW\_876316.1 | Cf CCTTCATCAGAAAC  
 AGAGCTGACCATCAGCAGAAGTG----- 59056  
 gi | 194719394 | ref | NC\_007316.3 | N CCTATGCCTGAAAC  
 ACTGACGGGCGGGAACAGAGAGGGAGGAAGAGGCCT 77907  
 gi | 149361523 | ref | NC\_000074.5 | \_ -TCACTCACTGGCC  
 ACCTCTATCCAGGAGCAGGGGACAG----- 56553

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gi | 51473102 | ref | NT\_010498.15 | \_ GAATAGAGGACGAG

GG--AGGCCAGTGAGGCAG---CCCCCATGGGCCCA 94293  
gi | 114795057 | ref | NC\_006483.2 | N GAATAGAGGACGAGG  
G--AGGCCAGTGAGGCAG---CCCCCACGGGCCCA 102257  
gi | 73957561 | ref | NW\_876316.1 | Cf -----GGAAGAG  
GGGAAAGTCAGGGAGAGGAGGTCACCCAAGAAGCAA 59099  
gi | 194719394 | ref | NC\_007316.3 | N GGGGAGCGGCAGTG  
AGCAGAGCCTGTGCGGGGAGGGCTCCGGGGTGACCA 77957  
gi | 149361523 | ref | NC\_000074.5 | \_ ----AGGGTCAGCT  
CTCAGATCTAGTGCAGAGCAGGCCATTGCACCAGCG 56599

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gi | 51473102 | ref | NT\_010498.15 | \_ CCG--CCTCCCCGC  
CGGCAGGGCCCAGAGTGGGTTCATGGCTCAG--ATCT 94339  
gi | 114795057 | ref | NC\_006483.2 | N CCG--CCTCCCCGCC  
GGCAGGGCCCAGAGTGGGTTCATGGCTCAG--ATCT 102303  
gi | 73957561 | ref | NW\_876316.1 | Cf CAG-----T  
AACCAGGGCCCCCGGTGTGGGGTGAGCCGTGCCCTG 59139  
gi | 194719394 | ref | NC\_007316.3 | N CCGGCCAGCCTTC  
CACTGGGGACCTCAGACCCCCGTGGGCAAGGGGGCT 78007  
gi | 149361523 | ref | NC\_000074.5 | \_ CAG-----ATCA  
CTACAGGCCCAAGATGGTTACATGGGTGTG----CA 56638

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gi | 51473102 | ref | NT\_010498.15 | \_ GGAGGGTCATGGGA  
TTATGCATCAGACCTGAGG-CTGCAGTGACAACGGT 94388  
gi | 114795057 | ref | NC\_006483.2 | N GGAGGGTCATGGGAT  
TATGCAGCAGACCTGAGG-CTGCAGTGACAACCGT 102352  
gi | 73957561 | ref | NW\_876316.1 | Cf GGCACATCCCCAGG  
CCATGACACAGGTCAGG-----TCTGAGGCAGTG-- 59182  
gi | 194719394 | ref | NC\_007316.3 | N GGTGAGACTGCCGG  
CCCTGCCAGGATCTGAGGACCATAAAACCATTTGGT 78057  
gi | 149361523 | ref | NC\_000074.5 | \_ GATATGCAAATAGA  
GCAAGCACTTG----- 56663

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gi | 51473102 | ref | NT\_010498.15 | \_ CCTATGACCTCCAG  
GCAAGACTGGGATGGTCAACTCTGCCTTGTCTCCA 94438  
gi | 114795057 | ref | NC\_006483.2 | N CCTGTGACCTCCAGG  
CAAGACTGGGATGGTCACTCTGCCTTGTCTCCA 102402



gi | 73957561 | ref | NW\_876316.1 | Cf -GACACGGATGCAC  
TGGAGCCCTTGGTGGGCAAGGCT--CAGGACCACTT 59229  
gi | 194719394 | ref | NC\_007316.3 | N TGTGTCTGAGGTGG  
TGGAGACAAGGATGCTAAATACC--TGGGGACTCTC 78105  
gi | 149361523 | ref | NC\_000074.5 | \_ ----AGACCTCAG  
AACAGGCCAGGAAGGGGCAGCCCTCCCTGTGACCTG 56708

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gi | 51473102 | ref | NT\_010498.15 | \_ AAAAGCAGTGTCAG  
TGTGGGTCACCAGTGAATGCCCTGTAGGAACAGACA 94488  
gi | 114795057 | ref | NC\_006483.2 | N AAAAGCAGTGTCAGT  
GTGGGTCACCAGTGAATGCCCTGTAGGAACAGAAA 102452  
gi | 73957561 | ref | NW\_876316.1 | Cf G-TTCTTTCTTCCT  
CAAAATCTAGCAG-CAGGGTCCTGTGGG----- 59269  
gi | 194719394 | ref | NC\_007316.3 | N AGCTTTTCTTCCC  
CGAAATCTAAAAAGCAGGGTCACTGGGAGTGCAGAC 78155  
gi | 149361523 | ref | NC\_000074.5 | \_ AAATCCGGGTCCCG  
TGGGG--CCCCAGTGAGCGCTCTATGGG----- 56748

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gi | 51473102 | ref | NT\_010498.15 | \_ AGAGGACCCCCCAA  
AACACTCTGCTCACTGGCTGTTTCCACCCGCCGGGA 94538  
gi | 114795057 | ref | NC\_006483.2 | N ACAGGACCCCCCAA  
A-ACACTGCTCACTGGCTGTTTCCACCCGCCGGGA 102501  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----CCCCGTAGG 59278  
gi | 194719394 | ref | NC\_007316.3 | N AAAAGAAAAAACA  
ATGTTTTT----ACAGCTGTTTCCATCCACTGGGA 78200  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----AGCGAGCAGTG 56759

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gi | 51473102 | ref | NT\_010498.15 | \_ AGGAAGTCGGCTTC  
CCACGCCTGAAGGGGTTGTGCTTGGGCAGCCCGTAC 94588  
gi | 114795057 | ref | NC\_006483.2 | N AGGAAGTCGGCTTCC  
CACGGCTGAAGGGGTTGTGCTTGGGCAGCCCGTAC 102551  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCCCTGCCGCTAC  
AGGCAAGAAGTAAAAAT-----TATGG-CTGTTC 59320  
gi | 194719394 | ref | NC\_007316.3 | N ATTCCATCAGCTTA

CCTCGTCTAAAGAAGTG-----CGAGGTCTGTGC 78243  
gi | 149361523 | ref | NC\_000074.5 | \_ AAAGGGAGGCCTGG  
CCTAGGGCCAGGAGCTG-----GGGACACAGGTC 56802

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gi | 51473102 | ref | NT\_010498.15 | \_ ATCAGGAATCATCA  
ACAGGGAGCCAGGGATGGTTCCTCAAAACAGCATGT 94638  
gi | 114795057 | ref | NC\_006483.2 | N ATCAGGAATCATCAA  
CAGGGAGCCAGGGATGGTTCCTCAAAACAGCATGT 102601  
gi | 73957561 | ref | NW\_876316.1 | Cf CT-----CCCA  
ACAG-----CTTTACCAAATCTCCAGGAATG----- 59352  
gi | 194719394 | ref | NC\_007316.3 | N CAGG-----CACC  
ACGG-----CTGTCACGAATCCTCGACAACAGGG-- 78280  
gi | 149361523 | ref | NC\_000074.5 | \_ AG-----CA  
TGAG-----GACCCAGGCTACTGCTGGG----- 56829

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gi | 51473102 | ref | NT\_010498.15 | \_ GACAGGAGCAGAGG  
GAGACGCTGGGAATTCATCCCAGGGAACATGTCTGCT 94688  
gi | 114795057 | ref | NC\_006483.2 | N GACAGGAGCAGAGGG  
AGACGCTGGGAATTCATCCCAGG----- 102639  
gi | 73957561 | ref | NW\_876316.1 | Cf ----CCCTGGATGG  
G----GATGGTTTGGGCACCAT----- 59380  
gi | 194719394 | ref | NC\_007316.3 | N ---AGCCACGCAGA  
GGCTCGGGGGCCAGGCCACCTG----- 78313  
gi | 149361523 | ref | NC\_000074.5 | \_ ----GACTTGATGG  
AGCTCAGTGGCCAGCCTGCCTAG----- 56862

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gi | 51473102 | ref | NT\_010498.15 | \_ GGGAATTCATCCCA  
GGGAACATGTCTGGGGTGCACACTGGACAGGGAGCCCAG 94738  
gi | 114795057 | ref | NC\_006483.2 | N -----  
-GAACACGTTGGGGTGCACAGGACAGGGAGCCCAG 102673  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
--GCTTGTAATGAATCGTTGGCAACAGGGAGCCGGG 59414  
gi | 194719394 | ref | NC\_007316.3 | N -----  
--GATGAGTCGGGGTGGGGCTGGACTGGGAGCCACG 78347  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----CTGAAAATGGTGACCTCCAGGTTTCAGTG 56890

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gi | 51473102 | ref | NT\_010498.15 | \_ ACTGGTCACTCAGG  
 ACATTTGCAAGCAGCAGGGCACTGGGACAGCTGCTG 94788  
 gi | 114795057 | ref | NC\_006483.2 | N ACTGGTCACTCAAGA  
 CATTTGCAAGCAGCAGGGCACTGGGACAGCTGCTG 102723  
 gi | 73957561 | ref | NW\_876316.1 | Cf GAAGG----TTCTG  
 ACAGTAAGATCCT-ATGGGGTCAG---CGGAGGTTC 59456  
 gi | 194719394 | ref | NC\_007316.3 | N GCCTGGGGCGTCTG  
 CCCAGGAGGGCT-CTCTTCACAG---CCGAAGTTG 78393  
 gi | 149361523 | ref | NC\_000074.5 | \_ AGAAGTGCTGTCTC  
 ACAAAGGAAGGTGGAAAGCAGAGG---CGGCCAGAG 56938

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gi | 51473102 | ref | NT\_010498.15 | \_ TAGGGAAAGGAAAC  
 TCATTCCCCTTCCAGCCCGAGTCCATAACATGCTCC 94838  
 gi | 114795057 | ref | NC\_006483.2 | N TCGGGAAAGGAAACT  
 CATTCTCCTTCCAGCCCGAGTCCATAACATGCTCC 102773  
 gi | 73957561 | ref | NW\_876316.1 | Cf TAGGGATTG-----  
 -----ACCCCTGCACAG----- 59478  
 gi | 194719394 | ref | NC\_007316.3 | N GCAGGCCTG-----  
 -----CTGCCCGGCTCTGTTGTGGAGACA 78426  
 gi | 149361523 | ref | NC\_000074.5 | \_ TCCATCTCTG----  
 -----GCCTTTGCCTG----- 56959

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCTGCCTGCCAG  
 ACCCACCCTGTGCTCTGGAGCTGCCTGGTGTGTTGCC 94888  
 gi | 114795057 | ref | NC\_006483.2 | N CAGCTGCCTGCCAGA  
 CCCACCCTGTGCTCTGGAGCTGCCTGGTGTGTTGCC 102823  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----GGAGCCAAG-----GTGGAGATCG 59498  
 gi | 194719394 | ref | NC\_007316.3 | N CTCAGTCGTGCCCA  
 ACTCTTTGCAACCCATGGA----CTGTAGCCCTCC 78471  
 gi | 149361523 | ref | NC\_000074.5 | \_ ----AACATTCACG  
 TGCAAAGAAAATCCTTGGG-----ATGGGGCTCCAT 57000

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gi | 51473102 | ref | NT\_010498.15 | \_ TGGAACCACAGGCA  
GGCCCTTCTGGAAGTGCAGCATTTTGGATTCTGGGT 94938  
gi | 114795057 | ref | NC\_006483.2 | N TGGAACGACAGGCAG  
GCCCTTCTGGAAGTGCAGCATTTTGGATCCTGGGT 102873  
gi | 73957561 | ref | NW\_876316.1 | Cf GGGCATCTG-----  
-----CCTTCAGGATAGGG-----GGGT 59525  
gi | 194719394 | ref | NC\_007316.3 | N AGGCTCCTCTGTCC  
ATGGGATTTTCCAGGCAGGAATATG-----GGAG 78515  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCAAAGCATTCG  
TTTGGCTCCACCCCAAGTTCCACGTG-----ACCT 57044  
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gi | 51473102 | ref | NT\_010498.15 | \_ TAGGAAGATCTCCC  
TGCCTTCAGGGGAATGAAAAGGGCTGGTCCTCCGCA 94988  
gi | 114795057 | ref | NC\_006483.2 | N TAGGAAGATCTCCCT  
GCCTTCAGGGGAATGAAAAGGGCTGGTCCTCCGCA 102923  
gi | 73957561 | ref | NW\_876316.1 | Cf TGAGGGTTCTGTTA  
AAGCTGAAGTGGG-----CAACACCCCC 59562  
gi | 194719394 | ref | NC\_007316.3 | N TGGGTTGCCATTTTC  
CTTTTCCAGGGGATCTTCCCGGCCACATCTCCTGC 78565  
gi | 149361523 | ref | NC\_000074.5 | \_ AGGCAGGCCTGTAA  
TCCCAGCACTGGCACTGGTAAGGTGCAGGTAGGGGG 57094  
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gi | 51473102 | ref | NT\_010498.15 | \_ CCT-----CTCAC  
TTTATCAGGAGGACTGGCAGGGAAGGCGCTTCCTG- 95031  
gi | 114795057 | ref | NC\_006483.2 | N CCT-----CTCACT  
TTATCAGGAGGACTGGCAGGGAAGGCGCTTCCTG- 102966  
gi | 73957561 | ref | NW\_876316.1 | Cf ACT-----  
-----TGGGCCCCCTGGAAAGG----- 59582  
gi | 194719394 | ref | NC\_007316.3 | N ACTGCAGGCAGATT  
CTTTACCGCTGAGCCACCAGGGAAGCCAGATCAGA 78615  
gi | 149361523 | ref | NC\_000074.5 | \_ ACTAGGGGTACGAG  
GTCCTCCGCTGCACGACCTGTGACGCACCTCAG--- 57141  
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gi | 51473102 | ref | NT\_010498.15 | \_ -CCGGCGCAACAGA  
GCTGCAGCCCGTCCTGAATCTT-TTCTGTTTTCTCC 95079  
gi | 114795057 | ref | NC\_006483.2 | N -CCGGCGCAACAGAG

CTGCAGCCCGTCCTGAATCTT-TTCTGTTTTCTCC 103014  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-CAGGTGGTCCTTGTGGAGCTGGCTCTGTAGCATT 59617  
gi | 194719394 | ref | NC\_007316.3 | N GCCGCCTGCACAGA  
CCAGTAGGTCCTGGTGGAGCTGGCTCTGCAGTGTT 78665  
gi | 149361523 | ref | NC\_000074.5 | \_ -----AAAG  
ACAGGGAACCCACAGGCAACTTTCTAAGCAGCCTTT 57181

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gi | 51473102 | ref | NT\_010498.15 | \_ CTTGGCAGATTTGC  
TGTTTTTAACTG-----GATTGGCCTCAT 95117  
gi | 114795057 | ref | NC\_006483.2 | N TTTGGCAGATTTGCT  
GTTTTTAACTG-----GATTGGCCTCAT 103052  
gi | 73957561 | ref | NW\_876316.1 | Cf CCTGTCCTGGGTTG  
AG----- 59633  
gi | 194719394 | ref | NC\_007316.3 | N TGCATCCCGGTTG  
GAGAGATCTCTGCCCCCTCAGTGGGCATGGACAGTC 78715  
gi | 149361523 | ref | NC\_000074.5 | \_ TCCACGGAGGGGAA  
AAG----- 57198

gi | 51473102 | ref | NT\_010498.15 | \_ CCGTCTTCATTTTG  
TCAGAGCTCCTCAAACCT-ATGTGAAAAATACTGTTG 95166  
gi | 114795057 | ref | NC\_006483.2 | N CCGTCTTCATTTTGT  
CAGAGCTCCTCAAACCT-ATGTGAAAAATACTGTTG 103101  
gi | 73957561 | ref | NW\_876316.1 | Cf -----ATTTGCTCC  
CGGGTCCTCCCCACTCACCTCTG-CTGTCTCTGTGA 59677  
gi | 194719394 | ref | NC\_007316.3 | N TGGCCCTCAGCTCC  
TGGGTCTGGCCCTCACCTCTGTCTGCAACTG--C 78763  
gi | 149361523 | ref | NC\_000074.5 | \_ -----TCAGCTTG  
CCAAAGCCACGGTGACTTGTTTG--AGCATCTG--- 57237

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gi | 51473102 | ref | NT\_010498.15 | \_ CAGCCCAAGAGAG  
TCCAGATGCACCCTGAAGATGTGTAGTGGACCGCAC 95216  
gi | 114795057 | ref | NC\_006483.2 | N CAGCCCAAGAGAGT  
CCAGATGCACCCTGAAGATGTGTAGTGGACCTCAC 103151  
gi | 73957561 | ref | NW\_876316.1 | Cf CAACAGATAAAATG  
TAGAGAAGGAAGCCAGGCTG-----TGGCCC 59718

gi | 194719394 | ref | NC\_007316.3 | N CCAAAACTAGAGGA  
CAGAGCTCCGTGGCCACGCCGGGCATTG--TGCCAG 78811  
gi | 149361523 | ref | NC\_000074.5 | \_ ATGTCACAGGAGGA  
CCCTGGCCCTTTCAAGGGTGG-----CAAAGCCC 57280

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gi | 51473102 | ref | NT\_010498.15 | \_ TCCGCGGCACCTTC  
CCTAATCATCTCGATCTGGTTGTGACTGTGGCCCCT 95266  
gi | 114795057 | ref | NC\_006483.2 | N TCCGCGGCACCTTCC  
CTAATCATCTTGATCTGGTTGTGACTGTGGCCCCT 103201  
gi | 73957561 | ref | NW\_876316.1 | Cf TGCTGGGCTCAG-C  
GCCTCTTCTGGGCAGCAG-----CCTGTGCTCTCT 59761  
gi | 194719394 | ref | NC\_007316.3 | N TGCTGGGCATCG-A  
GGGCTAGGGACCAGAGGGTATGCCGTGCACTCTCT 78860  
gi | 149361523 | ref | NC\_000074.5 | \_ CTTAGGGTGAAGAG  
GAAAGCAGAGAATGTGGCGGGTGACCTATGGGTGGG 57330

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gi | 51473102 | ref | NT\_010498.15 | \_ GCCGTG--TCTCCT  
CGTCAGGGGAGACTTTTAGGAGGCCGCAGCCTTCCA 95314  
gi | 114795057 | ref | NC\_006483.2 | N GCCATG--TCTCCTC  
TTCAGGGGAGACTTTTAGGAGGCCGCAGCCTTCCG 103249  
gi | 73957561 | ref | NW\_876316.1 | Cf GACTCCTTTTTTCT  
TTCACCTTTTTTGCAGATTTGTTGTTTTTAACTGGAT 59811  
gi | 194719394 | ref | NC\_007316.3 | N GACCTTTTTTCTCTT  
TTTGTCTGTTGGTAGATTTATTGCTTTTAAACCGGAT 78910  
gi | 149361523 | ref | NC\_000074.5 | \_ CACTACTGTCTGGG  
ACTCTCTTCCCACAGACCTGCTGCTGCTGACGGGCC 57380

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gi | 51473102 | ref | NT\_010498.15 | \_ TCACCGGATCAGTT  
TTTCTCTTAGGAAAGCTGCAGGAACCTCGTGGGCT 95364  
gi | 114795057 | ref | NC\_006483.2 | N TCACCGGATCAGTTT  
TTCCTCTTCGGAAAGCTGCAGGAACCTCGTGGGCT 103299  
gi | 73957561 | ref | NW\_876316.1 | Cf TGGCCTCATCCG-T  
GTTCATTTTGTCAGAGCTCCTCAAAGTGGTGAATA 59860  
gi | 194719394 | ref | NC\_007316.3 | N TGGCCTCGTCTG-T  
GTTCACTTTGTCAGAGCTCTTCAAGCTGTGTGAAAA 78959  
gi | 149361523 | ref | NC\_000074.5 | \_ TGGCCTCGTCTG-T

CTTCATTCTGTCGGAGCTGCTCAAGCTCTGGGAAA 57429

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gi | 51473102 | ref | NT\_010498.15 | \_ CCAGGGACCCAGGC  
 CCACATCCATCCAGCGTTCCCGCTGGCTGTGGGACA 95414  
 gi | 114795057 | ref | NC\_006483.2 | N CCAGGGACCCAGGCC  
 CACATCCATCCAGCGTTCCCGCTGGCTGTGGGACA 103349  
 gi | 73957561 | ref | NW\_876316.1 | Cf ATTCTTTTCCAGAG  
 CCAAGAAAGCCCAGATTCACC-----AAGACGA 59902  
 gi | 194719394 | ref | NC\_007316.3 | N GTTCTGCTGCAGAG  
 CCCAGAAAGCCCAGACCCCC-----AGGAAGA 79001  
 gi | 149361523 | ref | NC\_000074.5 | \_ GTTCTTGTCCAGAG  
 CCAGGCCACTCAGATGCTCC-----CGGAAGC 57471

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gi | 51473102 | ref | NT\_010498.15 | \_ GACAGGGAGGGGCC  
 TGTACAGAAACACCACACTGTTTATTAAAT-CACAA 95463  
 gi | 114795057 | ref | NC\_006483.2 | N GACAGGGAGGGGCCT  
 GTACAGAAACATCACACTATTTATTAAAT-CACAA 103398  
 gi | 73957561 | ref | NW\_876316.1 | Cf TGTATAG-----  
 ----- 59909  
 gi | 194719394 | ref | NC\_007316.3 | N CGCATAGTGGACCC  
 TGACCCGTGGGAAGGTCCTAAATCTCTAT-TTTCA 79050  
 gi | 149361523 | ref | NC\_000074.5 | \_ TGTGTAACGGAACC  
 AG---TGTGTCAAGGCCCTGACTGACCTGTGTGCTT 57518

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gi | 51473102 | ref | NT\_010498.15 | \_ TGATTTTTTATTAAC  
 CATGTCTAACTACGTATCTGTGCCACAGCTTGCAGT 95513  
 gi | 114795057 | ref | NC\_006483.2 | N TGATTTTTTATTAACC  
 ATGTCTAACTACGTATCTGTGCCACAGCTTGCAGT 103448  
 gi | 73957561 | ref | NW\_876316.1 | Cf -----  
 -----  
 gi | 194719394 | ref | NC\_007316.3 | N T-ATGACTGTGGCC  
 CTCCGCCTGCCCCGTCCCT--TCCGAGACGTGCCTG 79097  
 gi | 149361523 | ref | NC\_000074.5 | \_ GGGTGCCTCTGGCC  
 TGTCCCATCCATCTGTACTAACCCTCCAAGGGGC 57568

gi | 51473102 | ref | NT\_010498.15 | \_ GAGGCAGGCCACTC  
GTGG-CAGATACAAGGGGCTCCTGAGAGGCAGTGGG 95562  
gi | 114795057 | ref | NC\_006483.2 | N GAGGCAGGCCACTCG  
TGG-CAGATACAAGGGGCTCCTGAGAGGCAGTGGG 103497  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N AGGACACGCCAGTG  
TCGGGTCCGCTCACCTGGCTGTTCTGGGGAGCCGG 79147  
gi | 149361523 | ref | NC\_000074.5 | \_ AATTCTCAGGACCG  
TGCAGCATCGGACGCTGGCTCCACCTGTCCTCCTGG 57618

gi | 51473102 | ref | NT\_010498.15 | \_ TAGGATGGTCACAC  
TCTGCCCATTGCCCTCCTGGAGGCCCCATTTCTCA 95612  
gi | 114795057 | ref | NC\_006483.2 | N TAGGATGGTCACACT  
CTGCCCATTGCCCTCCTGGAGGCCCCATTTCTCA 103547  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N TGGGGCGTGCAGGC  
CCAGCCCCGAGTCCTCGG-----TCCCTGTGTGCA 79191  
gi | 149361523 | ref | NC\_000074.5 | \_ CCTGCTGGGCCATG  
TCCCGCACAGGACAGGGTG-----GAGCT 57656

gi | 51473102 | ref | NT\_010498.15 | \_ TCATAAAATGAGGG  
ACTTTTAAATAAAGTGCTATGCCGGGGGATAATTA- 95661  
gi | 114795057 | ref | NC\_006483.2 | N TCATAAAATGAGGGA  
TTTTTAAATAAAGTGCTATGCCGGGGGATAATTAT 103597  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N TCCGCCGCTCCGTG  
CTGCCGGGCCCTGGGACGATCCATGAGGAGCCGGCA 79241  
gi | 149361523 | ref | NC\_000074.5 | \_ TATTATACTGAAAC  
GTGGCGCTATTTATTAAACCACCGTGGTTTTTTTAT 57706

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TTTGATGTGTTTACC  
TAGGGTTTTTCATACAAGGGACCAGGTTGGAAACC 103647  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N CTATTTATTAAATG  
ATGGTGATTTTTTATGAA----- 79272  
gi | 149361523 | ref | NC\_000074.5 | \_ TTAA-----  
----- 57710

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N CACAGCCATGTGTTA  
ATGGCCACGTGGGGTGAGCAGCAATCCATCATGAA 103697  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TGGCCTACAGGAAGG  
CCTAGGCTTTTGGAGATAAAGAGTAGGGCTGGGCA 103747  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TGGTGGCTCACGCCT  
GTAATCCCAGCACTTTGCAAGGCCAAGGCAGGCAC 103797  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N

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gi | 149361523 | ref | NC\_000074.5 | \_  
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gi | 51473102 | ref | NT\_010498.15 | \_  
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gi | 114795057 | ref | NC\_006483.2 | N ATCACTTGAGGCCAG  
CCTGGCCAACACAGCAAAACCCTGTCTGTCTCTAC 103847

gi | 73957561 | ref | NW\_876316.1 | Cf  
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gi | 194719394 | ref | NC\_007316.3 | N

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gi | 149361523 | ref | NC\_000074.5 | \_  
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gi | 51473102 | ref | NT\_010498.15 | \_  
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gi | 114795057 | ref | NC\_006483.2 | N TAAAAGTTTAAAAAA  
AAAAAAACCAGTTGCCAGGCGTGATGATGCACACC 103897

gi | 73957561 | ref | NW\_876316.1 | Cf  
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gi | 194719394 | ref | NC\_007316.3 | N

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gi | 149361523 | ref | NC\_000074.5 | \_  
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gi | 51473102 | ref | NT\_010498.15 | \_  
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gi | 114795057 | ref | NC\_006483.2 | N TGTTAATCCCAGCTA  
CTCGGGAGGCTGAGGCAGGAGAATGGCTCGAGTCC 103947

gi | 73957561 | ref | NW\_876316.1 | Cf  
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gi | 194719394 | ref | NC\_007316.3 | N  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N AGGAGGCGGAGATTG  
TACCACTGCACTGCAGCATGGGCAACAAAGGAAGA 103997  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TTCTCTCTCAAAAAG  
TGGCCCTTCTCTCCGGAACCAGGAACTGTAGTATC 104047  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N TCCTGCTGCCTGCAG  
ACAAGCTTGATTTCCCACTGCCCAAAGACTTCCA 104097  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----

gi | 194719394 | ref | NC\_007316.3 | N -----  
-----

gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N AAAACCGATCTGCTC  
TTCCACATGACAGATGGCAGAGGAGAGAGGTCTCC 104147  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N ATGCTGTTCTTCTGC  
CTGAAGCCACGCCAGAACCACCAAAGAGAACCAGA 104197  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
-----  
gi | 114795057 | ref | NC\_006483.2 | N AGGGGAACTCCGTCC  
CCATCTCTCAGGAAATAAGGCCAGAGCTAGAACCC 104247  
gi | 73957561 | ref | NW\_876316.1 | Cf -----  
-----  
gi | 194719394 | ref | NC\_007316.3 | N -----  
-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N            CCCAGTTACTAGTCA  
GGCCTCACTAGAGAAACAGAACCAACAGGATGGAG    104297

gi | 73957561 | ref | NW\_876316.1 | Cf            -----  
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gi | 194719394 | ref | NC\_007316.3 | N            -----  
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gi | 149361523 | ref | NC\_000074.5 | \_            -----  
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gi | 51473102 | ref | NT\_010498.15 | \_            -----  
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gi | 114795057 | ref | NC\_006483.2 | N            GGAGATGCAGAGATT  
TGTTTTAAGGAACCTGGCTCATAGGATTTTGGGGGC    104347

gi | 73957561 | ref | NW\_876316.1 | Cf            -----  
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gi | 194719394 | ref | NC\_007316.3 | N            -----  
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gi | 149361523 | ref | NC\_000074.5 | \_            -----  
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gi | 51473102 | ref | NT\_010498.15 | \_            -----  
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gi | 114795057 | ref | NC\_006483.2 | N            TGGCAAGTCTAACAT  
CTTGAGGGCAGGCCAGCATCCTGGAGACCCAGGGA    104397

gi | 73957561 | ref | NW\_876316.1 | Cf            -----  
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gi | 194719394 | ref | NC\_007316.3 | N            -----  
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gi | 149361523 | ref | NC\_000074.5 | \_            -----  
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gi | 51473102 | ref | NT\_010498.15 | \_            -----  
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gi | 114795057 | ref | NC\_006483.2 | N            AGAGCTGGGGATGCA  
GGCTGGAGGCAGAATTTCTCCTCCTCAAGGGAGT    104447

gi | 73957561 | ref | NW\_876316.1 | Cf -----

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gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

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gi | 114795057 | ref | NC\_006483.2 | N TCAGCCTTTTCCTCT  
TATAGTCCTCACCTGATTGGATGAGGCCCACTCAC 104497

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N GTTATGAAGGATAAT  
CTGTTTTACTTCAAGTCTACGGACTTACATGTTAG 104547

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

-----  
gi | 149361523 | ref | NC\_000074.5 | \_ -----

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gi | 51473102 | ref | NT\_010498.15 | \_ -----

-----  
gi | 114795057 | ref | NC\_006483.2 | N TTACACAGCGCCATC  
TAGACCAGTGTTTGACAAAATCAACTTGGCCTGG 104597

-----  
gi | 73957561 | ref | NW\_876316.1 | Cf -----

-----  
gi | 194719394 | ref | NC\_007316.3 | N -----

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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
-----

gi | 51473102 | ref | NT\_010498.15 | \_ -----  
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gi | 114795057 | ref | NC\_006483.2 | N CCAAGTTGTCAGATA  
AAAGTAAGTAACCATTCACCC 104633

gi | 73957561 | ref | NW\_876316.1 | Cf -----  
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gi | 194719394 | ref | NC\_007316.3 | N -----  
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gi | 149361523 | ref | NC\_000074.5 | \_ -----  
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