

CLUSTAL 2.0.11 multiple sequence alignment

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gi|19705557|ref|NP_599245.1|           -----  
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gi|292619798|ref|XP_696654.4|           -----  
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gi | 189526284 | ref | XP_700189.3 | -----

gi | 292619722 | ref | XP_001919836. -----

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gi | 27229028 | ref | NP_080265.2 | -----
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gi | 19705557 | ref | NP_599245.1 | -----
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gi | 292619783 | ref | XP_697381.4 | -----
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gi | 292619798 | ref | XP_696654.4 | -----
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gi | 292619743 | ref | XP_696708.4 |          ARSK-----
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gi | 292619724 | ref | XP_002664067.          MYSC-----
-----GAQGP 68
gi | 292619728 | ref | XP_001919793.          PG-----
-----24
gi | 292619730 | ref | XP_001919770.          PH-----
-----9
gi | 189526282 | ref | XP_001341980.          -----
-----
gi | 292619718 | ref | XP_001919849.          -----
-----
gi | 189526284 | ref | XP_700189.3 |          NICS-----
-----YNTGS 37
gi | 292619722 | ref | XP_001919836.          -----
-----
gi | 292619720 | ref | XP_002664066.          NICS-----
-----YNTGS 40
gi | 292619726 | ref | XP_001919821.          -----
-----
gi | 292619745 | ref | XP_001341329.          -----
-----
gi | 125832061 | ref | XP_001342081.          MYSC-----
-----GAQGP 19
gi | 292619732 | ref | XP_001922656.          LS-----
-----17
gi | 292619753 | ref | XP_001341931.          PH-----
-----9
gi | 292619747 | ref | XP_697240.4 |          ISGG-----

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-----GESFF 159
gi | 292619739 | ref | XP_002664070. PETT-----
-----TEETT 115
gi | 292626791 | ref | XP_700475.4 | VLAYNVHRSFVFIY
YGDIAETGQPWQVNNNGLLTFKPPSDCIPFLNSGR 10550
gi | 292619737 | ref | XP_002664069. PETT-----
-----TDTTI 109

gi | 119220569 | ref | NP_001007241. -----

gi | 114661340 | ref | XP_001155840. -----

gi | 50979234 | ref | NP_001003371.1 -----

gi | 115495209 | ref | NP_001069418. -----

gi | 27229028 | ref | NP_080265.2 | -----

gi | 19705557 | ref | NP_599245.1 | -----

gi | 292619796 | ref | XP_001921135. -----
-----MRFFISLCVSLLLIH 15
gi | 292619783 | ref | XP_697381.4 | -----
-----MRFFISLCVSLLLIH 15
gi | 292619798 | ref | XP_696654.4 | -----
-----HWGSNCCYFQSNPIQVKACP 106
gi | 292629831 | ref | XP_001346047. -----
-----MRFLILLCVSLLAIS 15
gi | 292619785 | ref | XP_001920157. -----
-----MQDMFCL 7
gi | 131888908 | ref | NP_001076476. -----
-----MKCLILLCVLLING- 14
gi | 189526326 | ref | XP_001920209. -----
-----MG----- 2
gi | 189526321 | ref | XP_001922875. -----
-----MKFLILLCVSLLLIIH 15
gi | 292619792 | ref | XP_696966.4 | SHPIRVKACPGDYY
VYELVRPAVCGAFCIVNQSSTSVSRTTQSISLIES- 159
gi | 292619701 | ref | XP_001344258. -----

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gi | 189526377 | ref | XP_001334197. -----
-----MKFFILLCVSLLLIH 15
gi | 189526324 | ref | XP_001344696. -----
-----MKFLISLCVSLIIH 15
gi | 292619789 | ref | XP_001344844. -----
-----MKFLISLCVLLIIG- 14
gi | 189526319 | ref | XP_001344566. -----
-----MNNWFKVVLKIVLVP 15
gi | 189526375 | ref | XP_001334286. -----
-----MRFLILLCISLLMIH 15
gi | 189526379 | ref | XP_001921195. -----
-----MKFLISLCVSLIIH 15
gi | 292610053 | ref | XP_002660620. -----
-----MGCAAFQLATFVHIKGS 18
gi | 292614050 | ref | XP_002662118. -----
-----MRFLISMCLLLQMIN 15
gi | 292619755 | ref | XP_002664077. LWLSGGHPTIQDGV
VNRSICATNGINCCGFQSDPIKVKACPGGYVYEFV 355
gi | 292619749 | ref | XP_001341823. -----RTQ---
-----VTEFFTTALEMTT----- 33
gi | 292619743 | ref | XP_696708.4 | RITAGGDFGRAQRE
DETLKHCWPQTDGLVERFNKTLKQMLRRVVEEDGRD 117
gi | 292619724 | ref | XP_002664067. LWLSGGHPTVQDGV
VTRDVCARDTS-CCNVKARPIRVKACPGGYVYELV 117
gi | 292619728 | ref | XP_001919793. -----
-----SNGSSVSNLNTSSNINVPGRW----- 46
gi | 292619730 | ref | XP_001919770. -----
-----PLVFISVFSLTRTQTSTPSTS----- 30
gi | 189526282 | ref | XP_001341980. -----
-----IIIIIMGSFLVLP--H----- 24
gi | 292619718 | ref | XP_001919849. -----
-----

gi | 189526284 | ref | XP_700189.3 | SYTNNCTTNTISSN
KSSNNTTDNYNFSKITNNSSKNNCNN----ISDI 83
gi | 292619722 | ref | XP_001919836. -----
-----

gi | 292619720 | ref | XP_002664066. SYTNNCTTNTNSSN
KSSNNTTDNYNFSKNTNNSSKNNCNN----ISDI 86
gi | 292619726 | ref | XP_001919821. -----
-----ELFHLNKKLDDDSP----- 24
gi | 292619745 | ref | XP_001341329. -----
-----MHPST----- 5

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gi | 125832061 | ref | XP_001342081. LWLSEGHPTVQDGVV
TRDVCARDTS-CCNVKAHPIRVKACPGGYVYELV 68
gi | 292619732 | ref | XP_001922656. -----RTQ---
-----VTEFFTTALEMTT----- 33
gi | 292619753 | ref | XP_001341931. -----
-----PLVFISVFSLTRTQTSTPSTS----- 30
gi | 292619747 | ref | XP_697240.4 | LLNYGDCASLNEIT
EAGFDTINSISNFVIPDSVNGNYQNLKNTTNVNVPG 209
gi | 292619739 | ref | XP_002664070. TTTPETTTTEETTTT
T--PETTTTEETTTTTTPETTTTEET--TTTPETTTEDT 161
gi | 292626791 | ref | XP_700475.4 | DLIAPLWTHFDNRQ
GGTISCREDITSSDVLAQVNAAIKQNSPNANFTASSA 10600
gi | 292619737 | ref | XP_002664069. PETTDTTTTPETTTD
TTIPETTTDTTTPETTTTDTTIPETTTDTTTPETTTTDTT 159

gi | 119220569 | ref | NP_001007241. -----

gi | 114661340 | ref | XP_001155840. ---MHQLRRDTWVGN
CNKKTAAHSRLHSHGWPEEEERFVFSSELHGKSA-- 45
gi | 50979234 | ref | NP_001003371.1 -----

gi | 115495209 | ref | NP_001069418. -----

gi | 27229028 | ref | NP_080265.2 | -----

gi | 19705557 | ref | NP_599245.1 | -----

gi | 292619796 | ref | XP_001921135. G-----EIS
SGQTT-VHTTSSFDPC HQYNTLDEYWRNIR----- 48
gi | 292619783 | ref | XP_697381.4 | G-----EIS
SGQTT-VHTTSSFDPCY EYTTLDEYGRNIR----- 48
gi | 292619798 | ref | XP_696654.4 | GGFYVYEFVRPTTC
NLAYCA-VHTTSSFDPC HQYTTLDEYWRNIR----- 150
gi | 292629831 | ref | XP_001346047. -----
-EAAP-----TSIDPCYNYTILDEYWRDIRQS--- 41
gi | 292619785 | ref | XP_001920157. K-----
PEECCR-MHTTSSFDPC HQYNTLDEYWRNIR----- 37
gi | 131888908 | ref | NP_001076476. -----EII
NGQTT-EITTSSFDPCYDYNITDDSWRDIRQIP-- 49
gi | 189526326 | ref | XP_001920209. -----

-GVIG--RTTSSFDPCYAYNTLDDYWRNIH-----	29
gi 189526321 ref XP_001922875.	G-----KIT
SGQTT-VSTTSSFDPCYEYTTLDEYWRDIR-----	48
gi 292619792 ref XP_696966.4	-----IT
PPITTT-ENTASSFDPCFDYNIIDDYWRDIQQNL--	194
gi 292619701 ref XP_001344258.	-----
--MTN-----DLALEVS-----	10
gi 189526377 ref XP_001334197.	G-----EIT
NGQTTGLYTTSSFDPCYQYNLNNFWRTIR-----	49
gi 189526324 ref XP_001344696.	G-----EIT
SGQTT-VYTTSSFDPCYEYTTLDDYWRDIR-----	48
gi 292619789 ref XP_001344844.	-----EII
NAQTT-ENTNSSIDPCYNYTITDDYWRDIRQSP--	49
gi 189526319 ref XP_001344566.	G-----KILL
QHLTS-VSTTSSFDPCYEYTTLDEYWRDMR-----	49
gi 189526375 ref XP_001334286.	G-----EIT
SGQTT-VYTTSSFDPCYEYTTLDDYWRNIR-----	48
gi 189526379 ref XP_001921195.	G-----EIT
SGQTT-VYTTSSFDPCYEYTTLDEYGRDIR-----	48
gi 292610053 ref XP_002660620.	EGIRGRALFSCNSSC
FTQSYIEIEANLTDPCNNYTVLNDAWRSVN-----	63
gi 292614050 ref XP_002662118.	-----
-GCS-----SYDPCFNyttLDQYWRDITPN---	39
gi 292619755 ref XP_002664077.	K-----
---PSI-CNTAYCAAPDIFYPFG-----	375
gi 292619749 ref XP_001341823.	-----
-----EATTVLPGSFYSFG-----	47
gi 292619743 ref XP_696708.4	WDLMIP-----
--YVLFGIREVPQASTGSFYSG-----	144
gi 292619724 ref XP_002664067.	N-----
---PSIGCYNAYCAAPGIFYTFG-----	138
gi 292619728 ref XP_001919793.	-----
---VFRVDGGPSTGSGIFYPFG-----	65
gi 292619730 ref XP_001919770.	-----
-----VATTLAAPQIFYPFG-----	46
gi 189526282 ref XP_001341980.	-----
---LLVFISVFLRSRIFYPFG-----	43
gi 292619718 ref XP_001919849.	-----
-----MAAPDIFYPFG-----	11
gi 189526284 ref XP_700189.3	T-----
---TAR-ENGRGLKSPQIFYPFG-----	103
gi 292619722 ref XP_001919836.	-----

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-----MAAPGIFYSFG----- 11
gi | 292619720 | ref | XP_002664066.      T-----
---TAR-ENGRGLKSPQIFYPF----- 106
gi | 292619726 | ref | XP_001919821.      -----
-----EVKETGSGIFYPF----- 38
gi | 292619745 | ref | XP_001341329.      -----
-----GSRIFYPF----- 14
gi | 125832061 | ref | XP_001342081.      N-----
--PSIGCYNAYCAAPGIFYTF----- 89
gi | 292619732 | ref | XP_001922656.      -----
-----EATTVLPGSFYSFG----- 47
gi | 292619753 | ref | XP_001341931.      -----
-----VATTLAAAPQIFYPF----- 46
gi | 292619747 | ref | XP_697240.4 |      R-----
----WAFNATSGSAPAIIFYPF----- 228
gi | 292619739 | ref | XP_002664070.      T---TT-----
--ESTTIASTTAWTAPAIIFYPF----- 185
gi | 292626791 | ref | XP_700475.4 |      FVATWDNVPYYDGR
GVATFQVVLASSVQRSFILLNYGNISQLGQTLWLAGY 10650
gi | 292619737 | ref | XP_002664069.      IPEPFT-----
--FSTVVASTTAWTAPAIIFYPF----- 186

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gi | 119220569 | ref | NP_001007241.      -----
-----M 1
gi | 114661340 | ref | XP_001155840.      -----
-----YSKVTCM 52
gi | 50979234 | ref | NP_001003371.1      -----
gi | 115495209 | ref | NP_001069418.      -----
-----M 1
gi | 27229028 | ref | NP_080265.2 |      -----
gi | 19705557 | ref | NP_599245.1 |      -----
gi | 292619796 | ref | XP_001921135.      -----
-----IRHYLDH 55
gi | 292619783 | ref | XP_697381.4 |      -----
-----IRYYFDH 55
gi | 292619798 | ref | XP_696654.4 |      -----
-----IKYYLDH 157

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gi 292629831 ref XP_001346047.	-----
-----QYQSYGH	48
gi 292619785 ref XP_001920157.	-----
-----IRQYLDH	44
gi 131888908 ref NP_001076476.	-----
-----YQYYFNN	56
gi 189526326 ref XP_001920209.	-----
-----QWYYSGH	36
gi 189526321 ref XP_001922875.	-----
-----QWYYNDH	55
gi 292619792 ref XP_696966.4	-----
-----DQHSYDH	201
gi 292619701 ref XP_001344258.	-----

gi 189526377 ref XP_001334197.	-----
-----PMYYNDR	56
gi 189526324 ref XP_001344696.	-----
-----QWHYYEY	55
gi 292619789 ref XP_001344844.	-----
-----YQYYTEH	56
gi 189526319 ref XP_001344566.	-----
-----QRYYYYH	56
gi 189526375 ref XP_001334286.	-----
-----IRYYYYDH	55
gi 189526379 ref XP_001921195.	-----
-----HWHYYEY	55
gi 292610053 ref XP_002660620.	-----
-----NTYNTY	69
gi 292614050 ref XP_002662118.	-----
-----PYINT-Y	45
gi 292619755 ref XP_002664077.	-----
-----SAA	378
gi 292619749 ref XP_001341823.	-----
-----SAA	50
gi 292619743 ref XP_696708.4	-----
-----SAA	147
gi 292619724 ref XP_002664067.	-----
-----SSA	141
gi 292619728 ref XP_001919793.	-----
-----LSA	68
gi 292619730 ref XP_001919770.	-----
-----SSA	49

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gi | 189526282 | ref | XP_001341980.          -----
-----LSA 46
gi | 292619718 | ref | XP_001919849.          -----
-----SAA 14
gi | 189526284 | ref | XP_700189.3 |          -----
-----SAA 106
gi | 292619722 | ref | XP_001919836.          -----
-----SAA 14
gi | 292619720 | ref | XP_002664066.          -----
-----SAA 109
gi | 292619726 | ref | XP_001919821.          -----
-----LSA 41
gi | 292619745 | ref | XP_001341329.          -----
-----SSA 17
gi | 125832061 | ref | XP_001342081.          -----
-----STA 92
gi | 292619732 | ref | XP_001922656.          -----
-----SAA 50
gi | 292619753 | ref | XP_001341931.          -----
-----SSA 49
gi | 292619747 | ref | XP_697240.4 |          -----
-----STV 231
gi | 292619739 | ref | XP_002664070.          -----
-----SAA 188
gi | 292626791 | ref | XP_700475.4 |          DTVDSANSFTIKVS
NASELSSSSNTNVNGRSTFPVDGSTKVPSNFLPSDD 10700
gi | 292619737 | ref | XP_002664069.          -----
-----SAA 189

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gi | 119220569 | ref | NP_001007241.          PHLMERMVGSGLLWL
ALVSCILTQASA--VQRGYGNPIEASSYGLDLDCG 49
gi | 114661340 | ref | XP_001155840.          PHLMERMVGSGLLWL
ALVSCILTQASA--VQRGK-----YSAHLDCG 92
gi | 50979234 | ref | NP_001003371.1          --MVG----SYVLWL
ALASCILTLASP--EQQGNRNLINTRS----- 34
gi | 115495209 | ref | NP_001069418.          SQLLERM--TSVLWL
ALASYILTLSSST--EQQGYRNSTNTGSYEKDLDCG 47
gi | 27229028 | ref | NP_080265.2 |          --MKRMVGCDLLWL
AAASCVLTLVSPSTIHQGYGRPRNSSN--LDLDCG 45
gi | 19705557 | ref | NP_599245.1 |          -----MVACDLLWL

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AAASCLLTLVFPSTTHQGYGNPRNTSN--VDLDCG 42
gi | 292619796 | ref | XP_001921135. DDTMVEWNGWYRLY
LTGQSAQMSEWCMSMGC GGYTGLYLNGSHPTLEDG 105
gi | 292619783 | ref | XP_697381.4 | NDTMVEWSGWYRLY
LTGQSAQMSEWCVSNMGC GGYTGLYLNGSHPTLEDG 105
gi | 292619798 | ref | XP_696654.4 | DDTMVEWSGWYRLY
LTGQSAQMSEWCMSMGC GGYTGLYLNGSHPTLEDG 207
gi | 292629831 | ref | XP_001346047. NDSLVEWSGWYRLYL
NGQSVQMSEWCVSYIGCGGDVGLNLNGSHPRLEDG 98
gi | 292619785 | ref | XP_001920157. DDTMVEWSGWYRLYL
TGQSAQMSEWCMSMGC GGHTGLYLNGSHPTLEDG 94
gi | 131888908 | ref | NP_001076476. DDTLVEWSGWYRLY
LNGQSAQMSEWYVSNMGC GGYTGLYLNGSHPTLEDG 106
gi | 189526326 | ref | XP_001920209. DDTLNEWSGWYRLYL
NRQSAQMSEWCVSRGCGGHTGLYLNGSHPTLEDG 86
gi | 189526321 | ref | XP_001922875. NDTMVEWSGWYRLY
LTGQSAQMSEWCVSYMGCGGDTALYLNGSHPTLGDG 105
gi | 292619792 | ref | XP_696966.4 | DDNLVEWSGWYRLY
LNGQSAQMSEWCVSYMSCGGYTALYLNGSHPTLEDG 251
gi | 292619701 | ref | XP_001344258. -----

gi | 189526377 | ref | XP_001334197. DDTLLEWSGWYRLY
LSGQSAQMSEWCVTDMSCGGYTGLYLNGSHPTLEDG 106
gi | 189526324 | ref | XP_001344696. NDTMVEWSGWYRLY
LSGQSAKMSDWCINYMGC GGGETGLYLNGSHPTLEDG 105
gi | 292619789 | ref | XP_001344844. DDTLIEWSGWYRLY
LNGQSAQMSEWCVSYMGCGGYTGLYLNGSHPTLEDG 106
gi | 189526319 | ref | XP_001344566. NDTMVEWSGWYRLY
LSGQSAQMMSGWCASYMGCGGHTGLYLNGSHPTLEDG 106
gi | 189526375 | ref | XP_001334286. NDTMVEWSGWYRLY
LSGQSAQMSEWCVSYMGCGGETGLYLNGSHPTLEDG 105
gi | 189526379 | ref | XP_001921195. NDTMVEWSGWYRLY
LSGQSAKMSEWCINYKGC GGGETGLYLNGSHPTLEDG 105
gi | 292610053 | ref | XP_002660620. CDQSVSWSGWYRLF
INGLSAHIPDTCVAMSRCGTSFPLWIRGGHPTVQDG 119
gi | 292614050 | ref | XP_002662118. DDTLVEWSGWYRLYL
YRQSAQMSEWCVSATHCGGETGLSLNGSHPTLEEG 95
gi | 292619755 | ref | XP_002664077. GDSINPAVEDGSSS
LITLLSPFLFFGRTYQQIYVNNNGHLTF SQASSEYV 428
gi | 292619749 | ref | XP_001341823. GDLLNPAADDGSSS
VIPLLSPFQYFGLTYQQIYVNNNGFLTFNQASSQFA 100
gi | 292619743 | ref | XP_696708.4 | GDLLNPAADDGSSS

VIPLLSPFQYFGLTYQQIYVNNNGFLTFNQASSQFA 197
gi | 292619724 | ref | XP_002664067. GDAINPADDDGGSS
AITLLSPFQFFGRTYQQIYVNNNGHLTFSSQASSEFV 191
gi | 292619728 | ref | XP_001919793. GDSKNTAADDASSS
AITLLSPFLFFGRTYQQIYVNNNGHLTFSSQASSQYV 118
gi | 292619730 | ref | XP_001919770. GDAINPAIDDGGSSV
NTLS-PFLFFGQTYQQIYVNNNGDLTFSSQALPQYV 98
gi | 189526282 | ref | XP_001341980. GDSKTTADDDASSSA
ITLLSPFLFFGRTYQQIYVNNNGDLTFSSQALPQFV 96
gi | 292619718 | ref | XP_001919849. GDSINPAVEDGGSSL
ITLLSPFLFFGRTYQQIYVNNNGHLTFSSQASSEYV 64
gi | 189526284 | ref | XP_700189.3 | GDSINPADDDGGSS
VIPLLSPFPLYFGRTYQQIYVNNNGDLTFSSQNLEQYV 156
gi | 292619722 | ref | XP_001919836. GDTINPADDDGFSSA
ITLLSPFQFFGHTHQQICA----- 48
gi | 292619720 | ref | XP_002664066. GDSINPAADDGGSS
VIPLLSPFPLYFGRTYQQIYVNNNGDLTFSSQNLEQYV 159
gi | 292619726 | ref | XP_001919821. GDSKNTAADDASSSA
ITLLSPFLFFGRTYQQIYVNNNGHLTFSSQASSQYV 91
gi | 292619745 | ref | XP_001341329. RDTINPAIDDGSSSV
ITLLSPFLFFGRTYQQIYVNNNGYLTFSEASSVFT 67
gi | 125832061 | ref | XP_001342081. GDTINPAVDDGGSS
VITLLSPFQFFGLTYQQIYVNNNGHLTFSSQASSEFV 142
gi | 292619732 | ref | XP_001922656. GDLLNPAADDGSSS
VIPLLSPFQYFGLTYQQIYVNNNGFLTFNQASSQFA 100
gi | 292619753 | ref | XP_001341931. GDAINPAIDDGGSSV
ITLI-PFLFFGQTYQQIYVNNNGDLTFSSQALPQYV 98
gi | 292619747 | ref | XP_697240.4 | GDTEHNVNYDESSY
PVALSTPFTFFGHTYNSLYVIYNGLLTFITITSTS-G 280
gi | 292619739 | ref | XP_002664070. GDTGYTEVGYESYQ
YVTFSTPFTFFTRNYSSIYVNNNGLLTFNQPLPEAN 238
gi | 292626791 | ref | XP_700475.4 | GQAVNSTANDGSSD
AISLQQPFKFFGRTYSQIYMNSNGYLTFTKPLPASN 10750
gi | 292619737 | ref | XP_002664069. GDSEHLESGFETYQ
YVAFSTPFTYFGRKYSNIFVNYNGLLTFNQPLVETF 239

gi | 119220569 | ref | NP_001007241. APGTPEAHVC-----
----- 59
gi | 114661340 | ref | XP_001155840. APGTPEAHVC----
----- 102

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gi | 50979234 | ref | NP_001003371.1      -----
-----
gi | 115495209 | ref | NP_001069418.      APGTPEAQLC-----
----- 57
gi | 27229028 | ref | NP_080265.2 |      SPDSPSSGIC-----
----- 55
gi | 19705557 | ref | NP_599245.1 |      APGSSSAGIC-----
----- 52
gi | 292619796 | ref | XP_001921135.      VVTRDVVGRN-----
MWSNQ-CGKYRSSSIRVKACPGDYVYELVKPDL SI 150
gi | 292619783 | ref | XP_697381.4 |      VVTRDVLGGD-----
IWSNQ-CGKYRSTSIQVKACLGDYVYELVKPDL SI 150
gi | 292619798 | ref | XP_696654.4 |      VVTRDVVGRN-----
MWSNQ-CGKYRSSSIRVKACPGDYVYELVKPDL SI 252
gi | 292629831 | ref | XP_001346047.      VVTREVFSG-----
YMNSYQCGGYRSASIQVKACPGDYVYKLVKPDL SI 143
gi | 292619785 | ref | XP_001920157.      VVTRDVVGRN-----
MWSNQ-CGKYRSSSIQVKACPGDYVYKLVKPDL SI 139
gi | 131888908 | ref | NP_001076476.      VVTRDVVGT-----
QWTYQ-GGSYRSKSIQVKACPGDYVYELVKPDL SI 150
gi | 189526326 | ref | XP_001920209.      VVTRDVVGTN-----
KNSNQ-CGLYRSTSIRVKSCPGNYVYELVKPDL SI 131
gi | 189526321 | ref | XP_001922875.      VVTRDVLGTR-----
IWYNE-CGSYRSLPIQIKACPGDYVYELVKPDL SI 150
gi | 292619792 | ref | XP_696966.4 |      VVTRDVLGTN-----
EGTWQOCGRYRSKSIQVKACPGDYVYELVKPEA ME 297
gi | 292619701 | ref | XP_001344258.      ----EVIATG----F
AFNN----- 21
gi | 189526377 | ref | XP_001334197.      VVTRDVLGSR-----
IQYNQ-CGKYRSTSIQVKACPGDYVYELVRPDL SI 151
gi | 189526324 | ref | XP_001344696.      VVTRDVLGSD-----
MWTNN-CTKYRSTSIQVKACPGDYVYELVKPDL SI 150
gi | 292619789 | ref | XP_001344844.      VVTRDVLGTH-----
KWQNQ-WGSYRSTSIQVKACPGDYVYELVKPDPL I 151
gi | 189526319 | ref | XP_001344566.      VVTRDVLGGD-----
FWSNN-CTKYRSTSIQVKACPGDYVYELVKPDL SI 151
gi | 189526375 | ref | XP_001334286.      VVTRDVVGGD-----
FWSDQ-CGKYRSTPIRIKACPGDYVYELVKPDL SI 150
gi | 189526379 | ref | XP_001921195.      VVTRDVLGSD-----
MWTNN-CTKYRSTSIQVKACPGDYVYELVKPDL SI 150
gi | 292610053 | ref | XP_002660620.      VVTRDVCANA-----
---YTYCCFYGSYPPIRVKACPGNYVYELLKPT ICN 162

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gi 292614050 ref XP_002662118.	IVTRKVVGTNDWWW
TWSSSSCGSYKSKPIRVKACPGNYVYEFVKPNTTI	145
gi 292619755 ref XP_002664077.	PYLFPAYKSK-----
-----	438
gi 292619749 ref XP_001341823.	PNSFPANGSQ-----
-----	110
gi 292619743 ref XP_696708.4	PNSFPANGSQ-----
-----	207
gi 292619724 ref XP_002664067.	PYSFPAFGSQ-----
-----	201
gi 292619728 ref XP_001919793.	PYSFPANGSR-----
-----	128
gi 292619730 ref XP_001919770.	PYSFPANGSR-----
-----	108
gi 189526282 ref XP_001341980.	PSSFPANGSQ-----
-----	106
gi 292619718 ref XP_001919849.	PYLFPAYKSK-----
-----	74
gi 189526284 ref XP_700189.3	PYVFPNGSQ-----
-----	166
gi 292619722 ref XP_001919836.	-----

gi 292619720 ref XP_002664066.	PYVFPNGSQ-----
-----	169
gi 292619726 ref XP_001919821.	PYSFPANGSR-----
-----	101
gi 292619745 ref XP_001341329.	PYSFPAYRSQ-----
-----	77
gi 125832061 ref XP_001342081.	PYSFPAFASQ-----
-----	152
gi 292619732 ref XP_001922656.	PNSFPANGSQ-----
-----	110
gi 292619753 ref XP_001341931.	PYSFPANGSR-----
-----	108
gi 292619747 ref XP_697240.4	PNYSPFRGQE-----
-----	290
gi 292619739 ref XP_002664070.	PVPFPSNGNE-----
-----	248
gi 292626791 ref XP_700475.4	SSLNP---KR-----
-----	10757
gi 292619737 ref XP_002664069.	PYSFPTYENE-----
-----	249

gi | 119220569 | ref | NP_001007241. -----
-----FDPCQNYTLLDEPFRSTENSAGSQG-C 85
gi | 114661340 | ref | XP_001155840. -----
-----FDPCQNYTLLDEPFRSTENSEGSQG-C 128
gi | 50979234 | ref | NP_001003371.1 -----
-----YDPCQNYTLLDEPSRSTENTEGSQV-C 60
gi | 115495209 | ref | NP_001069418. -----
-----FDPCQNYTLLNEPFRSTENTEDIQG-C 83
gi | 27229028 | ref | NP_080265.2 | -----
-----FDPCQNHTVNLNDPTRSTENNDSSVAWC 82
gi | 19705557 | ref | NP_599245.1 | -----
-----FDPCQNHTVNLNDPSRSTENTVSSEE-C 78
gi | 292619796 | ref | XP_001921135. P-----KPSY
CAVVIPSISSDPCYNYESLDRPWRANN--ESGDSL 189
gi | 292619783 | ref | XP_697381.4 | P-----RPSY
CAVAFPSISSDPCYNYESLDRPWRANN--ETADYIC 189
gi | 292619798 | ref | XP_696654.4 | P-----KPSY
CAVVIPSISSDPCYNYEPLDRPWRANN--ESGDSL 291
gi | 292629831 | ref | XP_001346047. Y-----KPSY
CAVAFQNISSDPCDSYESMDRPWRANN--ESGEYIC 182
gi | 292619785 | ref | XP_001920157. P-----KPSY
CAVVIPSISSDPCYNYEPLDRPWRATN--ETGDSL 178
gi | 131888908 | ref | NP_001076476. S-----RPSY
CAVAFPSISSDPCYNYASMDRPWRANN--ESGDYFC 189
gi | 189526326 | ref | XP_001920209. S-----SPSY
CAAAPPSISSDPCYNYESVDRPWRANN--ETGDSIC 170
gi | 189526321 | ref | XP_001922875. P-----RPSY
CAVVFQSISSDPCYNYESMDRPWRANN--ETGDYIC 189
gi | 292619792 | ref | XP_696966.4 | SFLFY----KPSY
CAVVIQNISSDPCYNYASMDRPWRANN--ETLDYFC 340
gi | 292619701 | ref | XP_001344258. -----
-----ISADPCYNYEPLDRPWRATN--ESGSDIC 48
gi | 189526377 | ref | XP_001334197. P-----RPSY
CAVAFPSISSDPCYNYESLDRPWRGNN--LTGDYIC 190
gi | 189526324 | ref | XP_001344696. P-----RPSY
CAVALPNISSDPCYNYESLDRPWRANN--ESTDVVC 189
gi | 292619789 | ref | XP_001344844. P-----RPSY
CAVVFQNISSDPCYNYESLDRPWRATN--ETGDFFC 190
gi | 189526319 | ref | XP_001344566. P-----RPSY

CAVVFQSISSDPCYNYESLDRPWRATN--ESGDYIC 190
gi | 189526375 | ref | XP_001334286. P-----RPSY
CAVVIPSISSDPCYNYESLDRPWRANN--ESGDYIC 189
gi | 189526379 | ref | XP_001921195. P-----RPSY
CAVALPNISSDPCYNYESLDRPWRANN--ESTDVVC 189
gi | 292610053 | ref | XP_002660620. LAYCADVGSVIISS
TAATPVVVTDPDCYTYTVLDDPWRANSSQKSGIYKR 212
gi | 292614050 | ref | XP_002662118. P-----KPMY
CAVAYQNITSDPCNNYQSLDRPWRGNN--ESGDDIC 184
gi | 292619755 | ref | XP_002664077. -----
-----DIIAGLWTDLDNRERGVVSYNQYTNGSVLT 468
gi | 292619749 | ref | XP_001341823. -----
-----DVIAGLWTNIDNSARGVVSYNQYTSGSVLA 140
gi | 292619743 | ref | XP_696708.4 | -----
-----DVIAGLWTNIDNSARGVVSYNQYTSGSVLA 237
gi | 292619724 | ref | XP_002664067. -----
-----DIIAGLWTDLDNRVRGVISYHQYTNGSVLT 231
gi | 292619728 | ref | XP_001919793. -----
-----DIIAGFWADLDNRASGVISYHQYTNGSVLT 158
gi | 292619730 | ref | XP_001919770. -----
-----DIIAGFWTDLNNGASGVISYNQYTIGSVLT 138
gi | 189526282 | ref | XP_001341980. -----
-----DIIAGFWADLNNNGASGVISYNQYANGSVLT 136
gi | 292619718 | ref | XP_001919849. -----
-----DIIAGLWTDLDNRERGVVSYHQYTNGSVLT 104
gi | 189526284 | ref | XP_700189.3 | -----
-----DIIAGLWTDLDNRERGVVSYNQYTNGSVLT 196
gi | 292619722 | ref | XP_001919836. -----

gi | 292619720 | ref | XP_002664066. -----
-----DIIAGLWTDLDNRERGVVSYNQYTNGSVLT 199
gi | 292619726 | ref | XP_001919821. -----
-----DIIAGFWADLNNNGASGVISYHQYSNGSVLT 131
gi | 292619745 | ref | XP_001341329. -----
-----DIIAGLWTDLNNGARGVISYNQYTNGSVLT 107
gi | 125832061 | ref | XP_001342081. -----
-----DLIAGLWTDLDNRVRGVISYHQYTNGTVLT 182
gi | 292619732 | ref | XP_001922656. -----
-----DVIAGLWTNIDNSARGVVSYNQYTSGSVLA 140
gi | 292619753 | ref | XP_001341931. -----
-----DIIAGFWADLNNNGASGVISYNQYTNGSVLT 138
gi | 292619747 | ref | XP_697240.4 | -----

-----DFIAALWPDFDDYYTGLISYQQYTNGSVLD 320
gi | 292619739 | ref | XP_002664070. -----
-----DYIAALWTELD DMGYGNYWFHEYINGSVLD 278
gi | 292626791 | ref | XP_700475.4 | -----
-----DIIAPLWTQLDSRRGGSISYINKPSSNVLA 10787
gi | 292619737 | ref | XP_002664069. -----
-----DYIAALWSELDDYGFGKYWYQEYTNNGSVLD 279

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----- 97
gi | 114661340 | ref | XP_001155840. DNNM--SGWYRFVG
----- 140
gi | 50979234 | ref | NP_001003371.1 DKDK--HGWYRFVG--
----- 72
gi | 115495209 | ref | NP_001069418. DSDK--HGWYRFVG--
----- 95
gi | 27229028 | ref | NP_080265.2 | DDNL--HGWYRFVG--
----- 94
gi | 19705557 | ref | NP_599245.1 | DSHL--RGWYRFVG--
----- 90
gi | 292619796 | ref | XP_001921135. DDSFTWRGWYRLFY
----- 203
gi | 292619783 | ref | XP_697381.4 | DEPFGWSGWYRLFY
----- 203
gi | 292619798 | ref | XP_696654.4 | DDSFTWRGWYRLFY
----- 305
gi | 292629831 | ref | XP_001346047. DESFSWGGWYRLFY
----- 196
gi | 292619785 | ref | XP_001920157. DDSFTWSGWYRLFY
----- 192
gi | 131888908 | ref | NP_001076476. DDYLIWSGWYRLFY
----- 203
gi | 189526326 | ref | XP_001920209. DFYFNWSGWYRLFY
----- 184
gi | 189526321 | ref | XP_001922875. DNYFSWSGWYRLFY
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gi | 292619792 | ref | XP_696966.4 | DEYLIWSGWYRLFY
----- 354
gi | 292619701 | ref | XP_001344258. EEEFSWSGWYRLFY--
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gi 189526377 ref XP_001334197.	DETFSSWSGWYRLFY
-----	204
gi 189526324 ref XP_001344696.	DNLFSWSGWYRLFY
-----	203
gi 292619789 ref XP_001344844.	DHFFSWSGWYRLFY
-----	204
gi 189526319 ref XP_001344566.	DYFSSWRGWYRLFY
-----	204
gi 189526375 ref XP_001334286.	DNYFSWSGWYRLFY
-----	203
gi 189526379 ref XP_001921195.	DNLFSWSGWYRLFY
-----	203
gi 292610053 ref XP_002660620.	DIFVYWSGWYRLFY
-----	226
gi 292614050 ref XP_002662118.	DGGFSSWNGWYRLFY
-----	198
gi 292619755 ref XP_002664077.	HATQDINNYFP---
-----	479
gi 292619749 ref XP_001341823.	SATQDINNYFP---
-----	151
gi 292619743 ref XP_696708.4	SATQDINNYFP---
-----	248
gi 292619724 ref XP_002664067.	RATQDINSYFP---
-----	242
gi 292619728 ref XP_001919793.	RTTQDINNYFP---
-----	169
gi 292619730 ref XP_001919770.	RATQDINNYFPNLP
FTASWVFWATWDKVPYISSTAAGFDTINSTNYFVIP	188
gi 189526282 ref XP_001341980.	RATQDINSYFP---
-----	147
gi 292619718 ref XP_001919849.	RATQDINSYFP---
-----	115
gi 189526284 ref XP_700189.3	RATQDINNYFP---
-----	207
gi 292619722 ref XP_001919836.	-----

gi 292619720 ref XP_002664066.	RATQDINNYFP---
-----	210
gi 292619726 ref XP_001919821.	RTTQDINNYFP---
-----	142
gi 292619745 ref XP_001341329.	RATQDINNYFP---
-----	118

gi | 125832061 | ref | XP_001342081. RATQDINNYFP---
----- 193
gi | 292619732 | ref | XP_001922656. SATQDINNYFP---
----- 151
gi | 292619753 | ref | XP_001341931. RATQDINNYFP---
----- 149
gi | 292619747 | ref | XP_697240.4 | RATQDINQHFS---
----- 331
gi | 292619739 | ref | XP_002664070. RATKDINQYFP---
----- 289
gi | 292626791 | ref | XP_700475.4 | QVTA AVKQYFPNIP
FAAASAFVATWKSVPYNNSSGGVVNFQVVLAYNVHRS 10837
gi | 292619737 | ref | XP_002664069. RATQDINQYFP---
----- 290

gi | 119220569 | ref | NP_001007241. -----

gi | 114661340 | ref | XP_001155840. -----

gi | 50979234 | ref | NP_001003371.1 -----

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gi | 19705557 | ref | NP_599245.1 | -----

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gi | 292629831 | ref | XP_001346047. -----

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gi | 292619789 | ref | XP_001344844. -----

gi | 189526319 | ref | XP_001344566. -----

gi | 189526375 | ref | XP_001334286. -----

gi | 189526379 | ref | XP_001921195. -----

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gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. -----

gi | 292619730 | ref | XP_001919770. GSNNGSSVSNLNTS
SNVNVPGRWVFRVDGGPQTGSGIFYPFGLSAGDAIN 238
gi | 189526282 | ref | XP_001341980. -----

gi | 292619718 | ref | XP_001919849. -----

gi | 189526284 | ref | XP_700189.3 | -----

gi | 292619722 | ref | XP_001919836. -----

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gi | 292619745 | ref | XP_001341329.          -----
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gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619753 | ref | XP_001341931.          -----
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gi | 292619737 | ref | XP_002664069.          -----
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gi | 50979234 | ref | NP_001003371.1          -----
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gi | 115495209 | ref | NP_001069418.          -----
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gi | 27229028 | ref | NP_080265.2 |          -----
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gi | 19705557 | ref | NP_599245.1 |          -----
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gi | 292619798 | ref | XP_696654.4 |          -----
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gi | 189526321 | ref | XP_001922875. -----

gi | 292619792 | ref | XP_696966.4 | -----

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gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. -----

gi | 292619730 | ref | XP_001919770. -----

PAIDDSSSSVITLL

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gi | 292619718 | ref | XP_001919849. -----

gi | 189526284 | ref | XP_700189.3 | -----

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gi | 292619753 | ref | XP_001341931. -----

gi | 292619747 | ref | XP_697240.4 | -----

gi | 292619739 | ref | XP_002664070. -----

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gi | 292619737 | ref | XP_002664069. -----

gi | 119220569 | ref | NP_001007241. -----

gi | 114661340 | ref | XP_001155840. -----

gi | 50979234 | ref | NP_001003371.1 -----

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gi | 27229028 | ref | NP_080265.2 | -----

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gi | 292619798 | ref | XP_696654.4 | -----

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gi | 292619785 | ref | XP_001920157. -----

gi | 131888908 | ref | NP_001076476. -----

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gi | 292619789 | ref | XP_001344844. -----

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gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. -----

gi | 292619730 | ref | XP_001919770. -----
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gi | 189526282 | ref | XP_001341980. -----

gi | 292619718 | ref | XP_001919849. -----

gi | 189526284 | ref | XP_700189.3 | -----

gi | 292619722 | ref | XP_001919836. -----

gi | 292619720 | ref | XP_002664066. -----

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gi | 292619745 | ref | XP_001341329. -----

gi | 125832061 | ref | XP_001342081. -----

gi | 292619732 | ref | XP_001922656. -----

gi | 292619753 | ref | XP_001341931. -----

gi | 292619747 | ref | XP_697240.4 | -----

gi | 292619739 | ref | XP_002664070. -----

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gi | 292619737 | ref | XP_002664069. -----

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-EGG-VRMSETCVQVHRCQTDAP-----MWLNGTH 125
gi | 114661340 | ref | XP_001155840. -----
-EGG-VRMSETCVQVHRCQTDAP-----MWLNGTH 168

gi | 50979234 | ref | NP_001003371.1 -----
-DGG-VRMPETCVPMYRCQTDAP-----LWLNGTH 100
gi | 115495209 | ref | NP_001069418. -----
-DGG-VRMPEDCVPTFRCQTSAP-----LWLNGTH 123
gi | 27229028 | ref | NP_080265.2 | -----
-DGG-VKMPETCVSVFRCHTSAP-----MWLSGSH 122
gi | 19705557 | ref | NP_599245.1 | -----
-DGG-VKMPETCVNVYRCHTYAP-----MWLSGSH 118
gi | 292619796 | ref | XP_001921135. -----
-FGMDIRMPETCTTGLNCNTYTN-----LVLGDGPH 232
gi | 292619783 | ref | XP_697381.4 | -----
-YGMDIRMPETCATGFSCNTYTN-----LVLGDGPH 232
gi | 292619798 | ref | XP_696654.4 | -----
-YGMDIRMPETCTTGLNCNTYTN-----LVLGDGSH 334
gi | 292629831 | ref | XP_001346047. -----
-NGMDIRMSETCVSEFMCNAFLS-----LSLSGPH 225
gi | 292619785 | ref | XP_001920157. -----
-YGMDIRMPETCTTGLNCNTYTN-----LVLGDGSH 221
gi | 131888908 | ref | NP_001076476. -----
-NGMNIQMPETCITRLNCNTGID-----LYLNGPH 232
gi | 189526326 | ref | XP_001920209. -----
-YGMNIQMPETCTTGLECNTVVS-----LFLDGHH 213
gi | 189526321 | ref | XP_001922875. -----
-YGMDIRMPETCTNGFSCNTYMN-----LVLGDGPH 232
gi | 292619792 | ref | XP_696966.4 | -----
-YGM DITMPETCTNGYTCNTYVS-----LSLNGPH 383
gi | 292619701 | ref | XP_001344258. -----
NGLDIRMPESCVCSEYSCNAEHS-----LWLNGPH 91
gi | 189526377 | ref | XP_001334197. -----
-NGMNIQMPETCTTLYSCNAYVG-----LWLNGHH 233
gi | 189526324 | ref | XP_001344696. -----
-NGMNIRMPETCATGFNCRTQMN-----LVLGDGPH 232
gi | 292619789 | ref | XP_001344844. -----
-YGMNIRMPETCITQPSCNAYMN-----LVLNGLH 233
gi | 189526319 | ref | XP_001344566. -----
-NGLDIRMPETCINGFSCNTYIN-----LALDGPH 233
gi | 189526375 | ref | XP_001334286. -----
-YGMDIRMPESCCTTGFTCNTGMN-----LVLGDGPH 232
gi | 189526379 | ref | XP_001921195. -----
-NGMNIRMPETCATGFNCRTQMN-----LVLGDGPH 232
gi | 292610053 | ref | XP_002660620. -----
-NGLSAHIPDTCVAVYSCGTLIP-----LWIRGGH 255

gi | 292614050 | ref | XP_002662118. -----
-YGMIDIQIPETCVLSDRCNTYIT-----LTLNGPH 227
gi | 292619755 | ref | XP_002664077. -----
----NLTFTASWV FVATW D K V A Y-----YALTNTE 505
gi | 292619749 | ref | XP_001341823. -----
----NLTFTASWV FVATW D K V A-----YFN SYTE 176
gi | 292619743 | ref | XP_696708.4 | -----
----NLTFTASWV FVATW D K V A-----YFN SNTE 273
gi | 292619724 | ref | XP_002664067. -----
----NLTFTASWV FVATW D K V A Y-----FSLT NTE 268
gi | 292619728 | ref | XP_001919793. -----
----NLPFTASWV FV A S W D K V P-----Y L S S - T E 193
gi | 292619730 | ref | XP_001919770. INGSVLTRATQDIN
SYFPNLPFTASWV FVATW D K V P-----YHLSTAE 359
gi | 189526282 | ref | XP_001341980. -----
----NLPFTASWV FVATW D K V P-----Y L S S I A E 172
gi | 292619718 | ref | XP_001919849. -----
----NLTFTASWV FVATW D K V A Y-----YALTNTE 141
gi | 189526284 | ref | XP_700189.3 | -----
----Y L T F N A S W V F V A T W D K V A Y-----Y P V T D T K 233
gi | 292619722 | ref | XP_001919836. -----

gi | 292619720 | ref | XP_002664066. -----
----Y L T F T A S W V F V A T W D K V A Y-----Y P V T D T K 236
gi | 292619726 | ref | XP_001919821. -----
----NLPFTASWV FVATW D K V P-----Y L S S - T E 166
gi | 292619745 | ref | XP_001341329. -----
----N L N F T A S W F F V A T W D K V P-----H H L S T A E 143
gi | 125832061 | ref | XP_001342081. -----
----NLTFTASWV FVATW D K V A Y-----Y S L T N T E 219
gi | 292619732 | ref | XP_001922656. -----
----NLTFTASWV FVATW D K V A-----YFN SNTE 176
gi | 292619753 | ref | XP_001341931. -----
----NLPFTASWV FVATW D K V P-----YHLSTAE 174
gi | 292619747 | ref | XP_697240.4 | -----
----P V N F Q A S W V F V A T W R Y N-----L Q P N P Q 354
gi | 292619739 | ref | XP_002664070. -----
----D R G F A A S W V F V V T W D Y V F T T D F Y T L N N H----- 317
gi | 292626791 | ref | XP_700475.4 | TSSDVLAQVNAAIK
QNSPNANFTASSAFVATW D N V P-----Y Y D G R G V 11030
gi | 292619737 | ref | XP_002664069. -----
----N R G F T A S W V F V V T W D Y M L T T D W N T F N L H S E P A 322

gi | 119220569 | ref | NP_001007241. PALGDGITNHTACA
HWS---GNCCFWKTEVLVKACP---GGYHVYRLEGT 169
gi | 114661340 | ref | XP_001155840. PALGDGIINHTACA
HWS---GNCCFWKTEVLVKACP---GGYHVYRLEGT 212
gi | 50979234 | ref | NP_001003371.1 PTLAEGIVNRTACA
HWS---GNCCLWKTIVVQVKACP---GEFHVYRLEGT 144
gi | 115495209 | ref | NP_001069418. PGLGEGIVNRTACA
HWS---GNCCLWKTEVLVKACP---GPYYVYRLEGT 167
gi | 27229028 | ref | NP_080265.2 | PILGDGIVSHTACA
NWN---ENCCFWRSEVQVKACSEELGEYHVYKLQGT 169
gi | 19705557 | ref | NP_599245.1 | PILGDGIVNRTACA
NWN---ENCCFWSSEVQVKACLGESGEYHVYKLQGT 165
gi | 292619796 | ref | XP_001921135. PQIEDGVVTREVCG
SSYWSG-CCDSKSIPIRVKACP---GNYYVYELVRP 278
gi | 292619783 | ref | XP_697381.4 | PQIEDGVVTREVCA
SSFWSG-CCTSKSSPIRVKACP---GNYYVYELVNP 278
gi | 292619798 | ref | XP_696654.4 | PQIEDGVVIREVCG
SSYWSG-CCDSKSIPIRVKACP---GNYYVYELVRP 380
gi | 292629831 | ref | XP_001346047. PQTEDGVVIREVQT
GASMRG-SCQYRSKPIRVKACP---GNYYVYELVNP 271
gi | 292619785 | ref | XP_001920157. PQIEDGVVIREVCG
SSYWSG-CCDSKSIPIRVKACP---GNYYVYELVRP 267
gi | 131888908 | ref | NP_001076476. PQIEDGVVIREVCG
SSYWSG-CCDIKSSPIRVKACP---GNYYVYELVRP 278
gi | 189526326 | ref | XP_001920209. PQIEDGVVTRVVCG
NYDRNE-CCDYKTNLIRVKACP---GNYYVYELVNT 259
gi | 189526321 | ref | XP_001922875. PQIEDGVVTREVCA
SSYWSS-CCEYKEVPIRVKACP---GNYYVYELVRP 278
gi | 292619792 | ref | XP_696966.4 | PQIQDGVVTREVCG
SPYWGD-CCSYKIKPIRVKACP---GNYYVYELVNP 429
gi | 292619701 | ref | XP_001344258. PKIEDGVVTRDVCG
VE--GSSCCEYVSLPIKVKACP---GNYYVYEFVKT 136
gi | 189526377 | ref | XP_001334197. PQIEDGVVIREVCG
NNYWGG-SCDFKTKPIRVKACP---GNYYVYELVNP 279
gi | 189526324 | ref | XP_001344696. PQIEDGVVIREVCG
SNYWSRGCCDSKSVPIRVKACP---GNYYVYELVFP 279
gi | 292619789 | ref | XP_001344844. PQIEDGVVTREVCA
TFYFSG-CCEQKTNPPIRVKACP---GNYYVYELIKP 279
gi | 189526319 | ref | XP_001344566. PQIEDGVVIREVCA

SSYWSS-CCEYKAVPIRVKACP---GNYYVYELESP 279
gi | 189526375 | ref | XP_001334286. PQIEDGVVIREVCG
SYYWSRGCCDSKSIPIRVKACP---GNYYVYELVSP 279
gi | 189526379 | ref | XP_001921195. PQIEDGVVIREVCG
SNYWSRGCCDSKSVPIRVKACP---GNYYVYELVFP 279
gi | 292610053 | ref | XP_002660620. PTVKDGVVTRDVCG
NDGSGY-CCYFGSFSIRVKACP---GNYYVYELRSP 301
gi | 292614050 | ref | XP_002662118. PQIEDGVVIRQVCG
AAYNTR-CCVYKPKPIRVKACP---GNYYVYELVNP 273
gi | 292619755 | ref | XP_002664077. TLFQVILISGSNYS
FTLMNYGDIAATVFPVEAGFETMNSTNYFVIPGSDS 555
gi | 292619749 | ref | XP_001341823. TSFQVVLISGSGYS
FILMNYGDVAATGYPVQAGYDTAYSTDYFVISGSDS 226
gi | 292619743 | ref | XP_696708.4 | TFFQVVLISGSGYS
FILMNYGDVAATGYPVQAGYDTAYSTDYFVISGSNS 323
gi | 292619724 | ref | XP_002664067. TSFQVVLISGGNYS
FILMNYGDIAVTRHQVEAGYDTVTSTNYFVIPGSIN 318
gi | 292619728 | ref | XP_001919793. TSFQVVLISGSNYS
FILMNYGNIAATGRTVEAGYDTINSTNYFVIPGSNN 243
gi | 292619730 | ref | XP_001919770. TTFQVVLISGSNYS
FILMNYGNIAATERTVEAGFDTISSTNYFVIPGSNN 409
gi | 189526282 | ref | XP_001341980. TSFQVVLISGSNYS
FILINYGDIAATERKVEAGYDTINSTNYFVIPGSNN 222
gi | 292619718 | ref | XP_001919849. TSFQVVLISGSNYS
FTLMNYGDIAATVFPVEAGFDTMNSTNYFVIPGSDS 191
gi | 189526284 | ref | XP_700189.3 | TSFQMVLISDSSNS
FVLMNYGDIAVAGQQVEAGYDTINSTNYFVIPGSNN 283
gi | 292619722 | ref | XP_001919836. -----
-----GYDTINSTNYFVIPGSDS 66
gi | 292619720 | ref | XP_002664066. TSFQMVLISDSSNS
FVLMNYGDIAVAGQQVEAGYDTINSTNYFVIPGSNN 286
gi | 292619726 | ref | XP_001919821. TSFQVALISGSNYS
FILMNYGNIAATGRTVETGYDTINSTNYFVIPGSNN 216
gi | 292619745 | ref | XP_001341329. TSFQVVLISGSKYS
FILMNYGNIAATERTVEAGFDTISSTNYFVIPGSNI 193
gi | 125832061 | ref | XP_001342081. TSFQVVLISGSNYS
FILMNYGDIAVTRHQVEAGYVTVTSTNYFVIPGSIN 269
gi | 292619732 | ref | XP_001922656. TSFQVVLISGSGYS
FILMNYGDVAATGYPVQAGYDTAYSTDYFVISGSDS 226
gi | 292619753 | ref | XP_001341931. TSFQVVLISGSNYS
FLLMNYGDIAATGRTVEAGFDTINSTNYFVIPGSNN 224
gi | 292619747 | ref | XP_697240.4 | ILFQVVLISGSGGS

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gi | 292619739 | ref | XP_002664070. -----
-----LGQKVIRVTN----- 327
gi | 292626791 | ref | XP_700475.4 | ATFQVVLASSVQRS
FILLNYGNISQLGQTWLAGYDTVDSANSFMIKVSNA 11080
gi | 292619737 | ref | XP_002664069. ITFQAVLISGGGLS
FILMNYGDCAAITFPVESGYDTINSTDYVILNDYY 372

gi | 119220569 | ref | NP_001007241. PWCNLRVCTV-----
----- 179
gi | 114661340 | ref | XP_001155840. PWCNLRVCT-----
----- 221
gi | 50979234 | ref | NP_001003371.1 PKCSLRVCT-----
----- 153
gi | 115495209 | ref | NP_001069418. PQCSLRVCT-----
----- 176
gi | 27229028 | ref | NP_080265.2 | PECSLRVCT-----
----- 178
gi | 19705557 | ref | NP_599245.1 | PECSLRVCT-----
----- 174
gi | 292619796 | ref | XP_001921135. QMGCSGYCIDVSTI
SQVVSTASPDIIPGSTITSNYDPCNNYNTLDNDWRS 328
gi | 292619783 | ref | XP_697381.4 | QMGCSGYCIDVSTI
SQVVSTASPDIIPGSTITSNYDPCNNYNTLDNYWRS 326
gi | 292619798 | ref | XP_696654.4 | QMGCSGYCIDVSTI
SQVVSTASPDIIPGSTITSNYDPCNNYNTLDNDWRS 430
gi | 292629831 | ref | XP_001346047. NFWCSGYCTDVSTI
SQSVPTISPNIITGSGNITINNDPCINYNILSDDWRS 321
gi | 292619785 | ref | XP_001920157. QMGCSGYCIDVSTI
SQVVSTASPDIIPGSTITSNYDPCNNYNTLDNDWRS 317
gi | 131888908 | ref | NP_001076476. PTGCSGYCTDINTI
SQVASTTSPQIITESSVTLNYDPCSNYKTLDSYCRS 328
gi | 189526326 | ref | XP_001920209. QSICAGYCTDVSAI
SQVVSTASPNVITGSTITINYDPCSNYNTLDNYWRS 309
gi | 189526321 | ref | XP_001922875. NYWCSGYCTDVSTI
SQVVSTASPDLIIGSTVTFNYDPCNNYNILNDYWRS 328
gi | 292619792 | ref | XP_696966.4 | HNWCSGYCTDVNTI
SQVVLTS-PKIITGSSITTNNDPCSNIYILDNYWRS 478
gi | 292619701 | ref | XP_001344258. S-----
----- 137

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gi|189526377|ref|XP_001334197. QSWCSGYCTDVSNI
SQVVSTASPDITTGSTITSNYDPCSNTIDNYWRN 329
gi|189526324|ref|XP_001344696. HIGCSGYCTDVSTI
SQVDSTASPDILTGSTITFNYPDPCNNYNIIDDDWRS 329
gi|292619789|ref|XP_001344844. DDRCSGYCTDISTI
SQVTLTVSPQTITGSSIVLNYDPCSNTLDNDWRS 329
gi|189526319|ref|XP_001344566. QIGCSGYCIDVSTI
SQVVSTASPDILITGSTITFNYPDPCNNYNTLNDYWRS 329
gi|189526375|ref|XP_001334286. QIWCSGYCTDVSTI
SQVVSTASPDIIIPGYTINFNYDQCNNYEILNDYWRS 329
gi|189526379|ref|XP_001921195. HIGCSGYCTDVSTI
SQVDSTASPDILTGSTITFNYPDPCNSYNIIDDDWRS 329
gi|292610053|ref|XP_002660620. SLESSVYCAE----
----SSSSWVLITAGVIGAAFVMCIIVMVFMLIRRK 343
gi|292614050|ref|XP_002662118. DGWCAGYCT-----
-----NYDPCTNYKTINDNWRN 299
gi|292619755|ref|XP_002664077. GSSISNLNTSSNVN
VPG----- 572
gi|292619749|ref|XP_001341823. GSSISDLKTFNSNVN
VPG----- 243
gi|292619743|ref|XP_696708.4| GSSISDLKTFNSNVN
VPG----- 340
gi|292619724|ref|XP_002664067. GSSILNLNTSSNVG
VQG----- 335
gi|292619728|ref|XP_001919793. GSSVSNLNTSSNVN
VPGRWVFRVDGGLPTGSGIFYPFGLSAGDSKNTAAD 293
gi|292619730|ref|XP_001919770. GSSVSSLNTSSNVN
VPGRWAFRVDGQLTGTVFFNSNNNYCNTYNNYYHN 459
gi|189526282|ref|XP_001341980. GSSVSNLKNSSNVN
VPG----- 239
gi|292619718|ref|XP_001919849. GSSISNLNTSSNVN
VPG----- 208
gi|189526284|ref|XP_700189.3| GISISNLQNSSNVN
DPG----- 300
gi|292619722|ref|XP_001919836. GSSITNLNTSSNVNV
PG----- 83
gi|292619720|ref|XP_002664066. GISISNLQNSSNVS
DPG----- 303
gi|292619726|ref|XP_001919821. GSSVSNLNTSSNVN
VPG----- 233
gi|292619745|ref|XP_001341329. GSSISLNTSSNVN
VRGRWAFRVDGPGPTGVFFNSNNNYCNTYNN-YCHN 242

gi 125832061 ref XP_001342081.	GSSISNLNTSSNVG
VQG-----	286
gi 292619732 ref XP_001922656.	GSSISDLKTFSNVN
VPG-----	243
gi 292619753 ref XP_001341931.	GSSVS-----
-----	229
gi 292619747 ref XP_697240.4	G-NYRNLKNTTNVN
VPGRWAFNATSGSETTTFTTVPPVAMTSAQPWTAP	453
gi 292619739 ref XP_002664070.	-----ERARRG
AEG-----	336
gi 292626791 ref XP_700475.4	SELSSSSNTNVNGR
STFPVDGSTKVPSNFLPSDDGQAVNSTANDGSSDAI	11130
gi 292619737 ref XP_002664069.	GSYTPNLQNTTNVN
VPG-----	389

gi 119220569 ref NP_001007241.	-----

gi 114661340 ref XP_001155840.	-----

gi 50979234 ref NP_001003371.1	-----

gi 115495209 ref NP_001069418.	-----

gi 27229028 ref NP_080265.2	-----

gi 19705557 ref NP_599245.1	-----

gi 292619796 ref XP_001921135.	TYTYWPVYNDVNGY
DN-NYEWDGWYRLFMNGLSAQMPDWCASYMTCGGVT	377
gi 292619783 ref XP_697381.4	TSIYRSVYNDVNGY
DN-NHEWDGWYRLLMNGLSAQMPPEWCATYMECGGVT	375
gi 292619798 ref XP_696654.4	TYTYWPVYNDVNGF
DN-NYEWDGWYRLLMNGLSAQMPDWCASYMTCGGVT	479
gi 292629831 ref XP_001346047.	TINYWYQGDYIAEH
DDTLVSWDGWYRLYLKGLSAQMPPEWCASYMACGGFS	371
gi 292619785 ref XP_001920157.	TYTYWPVYNDVNGY
DN-NYEWDGWYRLLMNGLSAQMPDWCASYMTCGGVT	366
gi 131888908 ref NP_001076476.	TLGSWYWESYICGY
DDTLVEWDGWYRLFINESSAQMPDWCASHMSCGGFT	378
gi 189526326 ref XP_001920209.	TLN-WDVYNEVNGH

DN-DHEWDGWYRLFMNGLSAQMPDWCASYMTCGGFT 357
 gi | 189526321 | ref | XP_001922875. TSSYWYEYNYVNGF
 DN-EHEWDGWYRLFMNGLSAQMPDWCATYMTCGGVT 377
 gi | 292619792 | ref | XP_696966.4 | TS--RFINNYANGH
 DDTLVEWDGWYRLFMNGLSAQMPEWCVSYMTCGGLT 526
 gi | 292619701 | ref | XP_001344258. -----

 gi | 189526377 | ref | XP_001334197. IHTPSSVYTNVNGF
 DY-NYEWDGWYRLFMNGLSAQMPDWCATYMTCGGFT 378
 gi | 189526324 | ref | XP_001344696. TGSFLSLNNDVNGH
 DS-NHEWDGWYRLLLLNGLSAQMPDWCASYMTCGGVT 378
 gi | 292619789 | ref | XP_001344844. TANTYFMHGYVNAH
 DDTLVEWDGWYRLFINGSSAQMLEWCASYMDCGGFS 379
 gi | 189526319 | ref | XP_001344566. TSNYLPMYNDVNGF
 DN-DHEWDGWYRLYLNGLSAQMPDWCATYMTCGGFT 378
 gi | 189526375 | ref | XP_001334286. TQVYWSVYNDVNGY
 DN-NHEWDGWYRLLLDGLSAQMPEWSVTFMTCGGVT 378
 gi | 189526379 | ref | XP_001921195. TGSFLSLNNDVNGH
 DS-NHEWDGWYRLYLNGLSAQMPDWCASYMTCGGVT 378
 gi | 292610053 | ref | XP_002660620. RVTPSAEQTSKEPQ
 PQ-----HSAVEPPE----- 367
 gi | 292614050 | ref | XP_002662118. VIGYGHTNGLNADY
 DDTHGNWDGWYRLYLNGLSAQMPECPFHRSKCRPLQ 349
 gi | 292619755 | ref | XP_002664077. -----

 gi | 292619749 | ref | XP_001341823. -----

 gi | 292619743 | ref | XP_696708.4 | -----

 gi | 292619724 | ref | XP_002664067. -----

 gi | 292619728 | ref | XP_001919793. DASSSAITLLSPFL
 FFGRTYK----- 314
 gi | 292619730 | ref | XP_001919770. YNNTYYNTFYNISS
 IYNTASIPVLSF--KTAPQIFYPFGSSAGDAINPAI 507
 gi | 189526282 | ref | XP_001341980. -----

 gi | 292619718 | ref | XP_001919849. -----

 gi | 189526284 | ref | XP_700189.3 | -----

 gi | 292619722 | ref | XP_001919836. -----

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gi | 292619720 | ref | XP_002664066.          -----
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gi | 292619726 | ref | XP_001919821.          -----
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gi | 292619745 | ref | XP_001341329.          YNNTYYNNFYNISS
IYNTARN----- 263
gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619753 | ref | XP_001341931.          -----
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gi | 292619747 | ref | XP_697240.4 |          AIFYPFGSAVGDTE
QTVYNDESLSVGLSTPFTFFGHTYTMLYLMHTGLL 503
gi | 292619739 | ref | XP_002664070.          -----
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gi | 292626791 | ref | XP_700475.4 |          SLQQPFKFFGRTYS
QIYMNSNGYLTF TKPLPAS----- 11163
gi | 292619737 | ref | XP_002664069.          -----
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gi | 119220569 | ref | NP_001007241.          -----
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gi | 114661340 | ref | XP_001155840.          -----
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gi | 50979234 | ref | NP_001003371.1          -----
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gi | 115495209 | ref | NP_001069418.          -----
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gi | 27229028 | ref | NP_080265.2 |          -----
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gi | 19705557 | ref | NP_599245.1 |          -----
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gi | 292619796 | ref | XP_001921135.          ALWLHGSHPRLEDG
VVTREYVGSRDNLCSRYRSNPIQVKACPGYYYVYKF 427
gi | 292619783 | ref | XP_697381.4 |          ALWLHGSHPQLEDG
VVTREYVGCNRNECNRYRSNPIQVKACAGEYYVYKF 425
gi | 292619798 | ref | XP_696654.4 |          ALWLHGSHPRLEDG
VVTREYVGSRDNLCSRYRSNPIQVKACAGDYYVYKF 529

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gi | 292629831 | ref | XP_001346047. ALWLGGSHPQLEDG
VVTRDIYGSYYDEGSYYRSDPIQVKACPGEYYVYKL 421
gi | 292619785 | ref | XP_001920157. ALWLHGSHPQLEDG
VVTREYVYGSRDNLCSRYRSNPIQVKACAGDYYVYKF 416
gi | 131888908 | ref | NP_001076476. ALWLHGSHPRLQDG
VVTREVFSGSNYYDCSHYRSNPIQVKACAGDYYVYKF 428
gi | 189526326 | ref | XP_001920209. ALWLHGSHPRLEDG
VVTREYVYGSRDDQSSHYRSNPIQVKACPGDYYVYKF 407
gi | 189526321 | ref | XP_001922875. ALWLHGSHPRLEDG
VVTLEVYGSRNDQCSRYRSNPIQVKACPGDYYVYKF 427
gi | 292619792 | ref | XP_696966.4 | GLWLHGSHPQLEDG
VVTRDIFGSYYYQSTRYKSDSIQVKACPGDFYVYNF 576
gi | 292619701 | ref | XP_001344258. -----
-----LFVM 141
gi | 189526377 | ref | XP_001334197. GLWFHGSHPRLEDG
VVTREVFSGSRNAQCSRYRSNPIQVKACPGDYYVYKF 428
gi | 189526324 | ref | XP_001344696. ALWLHGSHPQLEDG
VITREYVYGSLNDDCSRYKSNPIQVKACPGDYYVYKF 428
gi | 292619789 | ref | XP_001344844. SLWLHGSHPQLEDG
VVTREYVYGSHNYQCSDHYRSDPIQVKACPGDYYVYKF 429
gi | 189526319 | ref | XP_001344566. ALWLHGSHPRLEDG
VVTREYVYGCRNDLSSRYRSNPIQVKACPGDYYVYKF 428
gi | 189526375 | ref | XP_001334286. ALWLHGSHPQLEDG
VVTREYVYGCRNDLSSRYRSNPIQVKACPGDYYVYKF 428
gi | 189526379 | ref | XP_001921195. ALWLHGSHPRLEDG
VVTREYVYGSLNDDCSRYKSNPIQVKACPGDYYVYKF 428
gi | 292610053 | ref | XP_002660620. -----
-----VSYMT 372
gi | 292614050 | ref | XP_002662118. QI-----
----- 351
gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. -----
-----QIYVNNNGHLTFNQAFSQQYVPYSFPANGS 343
gi | 292619730 | ref | XP_001919770. DDGGSSVNTLSPFL
FFGRTYQQIYVNNNGDLTFSQASSVFTPYSFPAYGS 557

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gi | 189526282 | ref | XP_001341980. -----
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gi | 292619718 | ref | XP_001919849. -----
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gi | 189526284 | ref | XP_700189.3 | -----
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gi | 292619722 | ref | XP_001919836. -----
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gi | 292619720 | ref | XP_002664066. -----
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gi | 292619726 | ref | XP_001919821. -----
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gi | 292619745 | ref | XP_001341329. -----
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gi | 125832061 | ref | XP_001342081. -----
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gi | 292619732 | ref | XP_001922656. -----
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gi | 292619753 | ref | XP_001341931. -----
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gi | 292619747 | ref | XP_697240.4 | TFTITSVATSGPNY
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gi | 292619739 | ref | XP_002664070. -----
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gi | 292626791 | ref | XP_700475.4 | -----
-NSSLNPKRDIIAPLWTQLDSRRGGSISYINKPSSN 11198
gi | 292619737 | ref | XP_002664069. -----
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gi | 119220569 | ref | NP_001007241. -----
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gi | 114661340 | ref | XP_001155840. -----
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gi | 50979234 | ref | NP_001003371.1 -----
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gi | 115495209 | ref | NP_001069418. -----
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gi | 27229028 | ref | NP_080265.2 | -----
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gi | 19705557 | ref | NP_599245.1 | -----
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gi | 292619796 | ref | XP_001921135.          TRPPISIQAPRYCA
VS-FTTPSVDPCCYNYTSLDEPWRSTDNP----- 468
gi | 292619783 | ref | XP_697381.4 |          TRPTLSIPAPRYCA
VLSFTTPSVDPCCYNYTSLDEPWKSTDN----- 466
gi | 292619798 | ref | XP_696654.4 |          TRPPISIQAPRYCA
VS-FTTPSVDPCCYNYTSLDEPWRSTDNP----- 570
gi | 292629831 | ref | XP_001346047.          TRPALSIPAPTYCA
VL-FTSPSVDPCCYNYTTLDEARRSTSNT----- 462
gi | 292619785 | ref | XP_001920157.          TKPTVFIQAPRYCA
VS-FPTPSVDPCCYNYTSLDEPWRSTDNP----- 457
gi | 131888908 | ref | NP_001076476.          TKPTVSLPAPVYCA
VS-SATPSVDPCCYNYTSLDEPWRSTDNYNNN---- 473
gi | 189526326 | ref | XP_001920209.          TRPPLSIPAPVYCA
VP-LPTPSVDPCCYNYNSLNETWRSTESS----- 448
gi | 189526321 | ref | XP_001922875.          TRPPLSIPAPRYCA
VS-FPTPSVDPCCYNYISLDDPWRSTDNS----- 468
gi | 292619792 | ref | XP_696966.4 |          TRPTVSIPAPVYCA
VS-FTTLSVDPCFNYSLDEPWRSTDNYYDN----- 620
gi | 292619701 | ref | XP_001344258.          TSP-----
-----PSVDPCYSYNSLDDPWRASSFLTG----- 168
gi | 189526377 | ref | XP_001334197.          TRPPLSIPGPSYCA
VS-FPTPSVDPCCYNYKSRDEPWRSTDNS----- 469
gi | 189526324 | ref | XP_001344696.          TRPPLSIPVPRYCA
VS-FPTPSVDPCCDNYISLDDPWRSTENPVNFNYYVY 477
gi | 292619789 | ref | XP_001344844.          TKPTVSIPAPVYCA
VS-YTTPSVDPCCYNYTSLNEPWRLTDTSY----- 471
gi | 189526319 | ref | XP_001344566.          TRPPLSIPGPSYCA
VS-FPTPSVDPCCYNYTSLDEPWRSTDN----- 468
gi | 189526375 | ref | XP_001334286.          TRPPISIPAPRYCA
VS-FPTPSVDPCCYNYNSLDEPWRSTDNF----- 469
gi | 189526379 | ref | XP_001921195.          TRPPLSVPVPRYCA
VS-FPTPSVDPCCDNYISLDDPWRSTEN----- 468
gi | 292610053 | ref | XP_002660620.          LDPNSTCPEYNTLD
IMKRSTNLTDPCCNSYTVLNDAWRSVNNTNNTN---- 418
gi | 292614050 | ref | XP_002662118.          -----
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gi | 292619755 | ref | XP_002664077.          -----
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gi | 292619749 | ref | XP_001341823.          -----
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gi | 292619743 | ref | XP_696708.4 |          -----

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gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. RDIIAGFWADLNG
ASGVISYHQYTNGSVLTRATQDINSYFPNLPFTASW 393

gi | 292619730 | ref | XP_001919770. QDIIAGLWTDLNG
ASGVISYHQYTNGSVLTRATQDINSYFPNLPFTASW 607

gi | 189526282 | ref | XP_001341980. -----

gi | 292619718 | ref | XP_001919849. -----

gi | 189526284 | ref | XP_700189.3 | -----

gi | 292619722 | ref | XP_001919836. -----

gi | 292619720 | ref | XP_002664066. -----

gi | 292619726 | ref | XP_001919821. -----

gi | 292619745 | ref | XP_001341329. -----

gi | 125832061 | ref | XP_001342081. -----

gi | 292619732 | ref | XP_001922656. -----

gi | 292619753 | ref | XP_001341931. -----

gi | 292619747 | ref | XP_697240.4 | LDRATQDINQYFST
TNFSASWVFWVTWKYGSQPNPAILFQAVLISGSGES 603

gi | 292619739 | ref | XP_002664070. -----

gi | 292626791 | ref | XP_700475.4 | VLAQVTA AVKQYFP
NIPFAAASAFVATWKSVPYNNSSGGVVNFQVVLAYNV 11248

gi | 292619737 | ref | XP_002664069. -----

gi | 119220569 | ref | NP_001007241. -----

-----PRDPSTV 186

gi | 114661340 | ref | XP_001155840. -----

-----DPSTV 226

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gi | 50979234 | ref | NP_001003371.1          -----
-----DASTA 158
gi | 115495209 | ref | NP_001069418.          -----
-----DPATA 181
gi | 27229028 | ref | NP_080265.2 |          -----
-----DPSTA 183
gi | 19705557 | ref | NP_599245.1 |          -----
-----DPSTA 179
gi | 292619796 | ref | XP_001921135.          -----ANYYG---
-----NHFDWSVAWNGWYRLFYNSQSAQM 497
gi | 292619783 | ref | XP_697381.4 |          -----SYYN---
-----NYRCDYTEWNGWYRLFYNNQSTQM 494
gi | 292619798 | ref | XP_696654.4 |          -----ANYYG---
-----NHFDWSVAWNGWYRLFYNNQSAQM 599
gi | 292629831 | ref | XP_001346047.          -----VYYG---
-----MCDYNVKWNGWYRLLLSGQNAQM 489
gi | 292619785 | ref | XP_001920157.          -----ANYYG---
-----NHFDWSVAWNGWYRLFYNNQSAQM 486
gi | 131888908 | ref | NP_001076476.          -----YYYYYHS--
-----LCDYNVEWNGWYRLFYNGQNAQM 503
gi | 189526326 | ref | XP_001920209.          -----FFDYNS---
-----HMCDHNEWNGWYRMFYNGQNAQM 477
gi | 189526321 | ref | XP_001922875.          -----YNYNS---
-----YNCDCNVAWNGWYRLFYNNQSAQM 497
gi | 292619792 | ref | XP_696966.4 |          -----IFYNY--
-----MCDFNVEWNGWYRLFYNNQSAQM 648
gi | 292619701 | ref | XP_001344258.          -----DHNN---
-----TRCDSDIPLNGWYRLFYNNQSAQM 196
gi | 189526377 | ref | XP_001334197.          -----YYYPD--
-----KCDWNEEWNGWYRLFYNSQSAQM 497
gi | 189526324 | ref | XP_001344696.          ESTENPANYYS---
-----FCDWGDWNGFYRLFYNSQSAQM 511
gi | 292619789 | ref | XP_001344844.          -----YYNHYNA--
-----MCDYNVEWNGWYRLFYNNQSAQM 501
gi | 189526319 | ref | XP_001344566.          -----SYYSNLS
-----NYRCDYTEWNGWYRLFYNSQSSQM 499
gi | 189526375 | ref | XP_001334286.          -----YNYNG---
-----YNCDSVAWNGWYRLFYNNQSAQM 498
gi | 189526379 | ref | XP_001921195.          -----PANYYS---
-----FCDWGDWNGFYRLFYNSQSAQM 497
gi | 292610053 | ref | XP_002660620.          -----
-----VCDRSVSWSGWYRLFINGLSAHI 441

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gi | 292614050 | ref | XP_002662118.          -----
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gi | 292619755 | ref | XP_002664077.          -----
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gi | 292619749 | ref | XP_001341823.          -----
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gi | 292619743 | ref | XP_696708.4 |          -----
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gi | 292619724 | ref | XP_002664067.          -----
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gi | 292619728 | ref | XP_001919793.          VFVASWDKVPYLSS
TAAGFDTINSTNYFVIPGSNNGSSVSNLNTSSNVNV 443
gi | 292619730 | ref | XP_001919770.          VFVATWDKVPYISS
TAAGFDTINSTNYIVITGSLNGSPISNLNTSSNVNV 657
gi | 189526282 | ref | XP_001341980.          -----
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gi | 292619718 | ref | XP_001919849.          -----
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gi | 189526284 | ref | XP_700189.3 |          -----
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gi | 292619722 | ref | XP_001919836.          -----
-----
gi | 292619720 | ref | XP_002664066.          -----
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gi | 292619726 | ref | XP_001919821.          -----
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gi | 292619745 | ref | XP_001341329.          -----
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-----YNYCNTYHSSY 274
gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
-----
gi | 292619753 | ref | XP_001341931.          -----
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-----NLNTSSNVNV 239
gi | 292619747 | ref | XP_697240.4 |          FFLLNYGDCAVLYE
AVEAGFDTINSISKFIIPDSVNGNYRNLKNTTNVNV 653
gi | 292619739 | ref | XP_002664070.          -----
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gi | 292626791 | ref | XP_700475.4 |          HRSFVFIYYGDIAE
TGQPWQAGYSTVDSASSFLVPARSVSELSSSSNIKV 11298
gi | 292619737 | ref | XP_002664069.          -----
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gi 119220569 ref NP_001007241.	EDKC-----
-----	190
gi 114661340 ref XP_001155840.	EDKC-----
-----	230
gi 50979234 ref NP_001003371.1	TDKC-----
-----	162
gi 115495209 ref NP_001069418.	EDKC-----
-----	185
gi 27229028 ref NP_080265.2	PKNC-----
-----	187
gi 19705557 ref NP_599245.1	PKKC-----
-----	183
gi 292619796 ref XP_001921135.	PDSCVNEGMCCTYY
PLWLNGSHPELEDGVVLRQVCVSAWNGCCTFTSHPI	547
gi 292619783 ref XP_697381.4	PESCVNQFMCGTYN
PLWLNESHQPQLEDGVVLRHVLCASGSNGCCTYTSHP	544
gi 292619798 ref XP_696654.4	PDSCVNEGMCCTYY
PLWLNGSHPELEDGVVLRQVCVSAWNGCCTFTSHPI	649
gi 292629831 ref XP_001346047.	PESCVNRTMCGTEE
PFWLNSSHPQPEDGVVTRQVCVSSSEGCCGYTSHPI	539
gi 292619785 ref XP_001920157.	PDSCVNEGMCCTYY
PLWLNGSHPELEDGVVLRQVCVSAWSGCCTFTSHPI	536
gi 131888908 ref NP_001076476.	PESCVNPYMCGTYN
PMWFNESHQPQLEDGVVFRQICISDFRGCCSYTSKAI	553
gi 189526326 ref XP_001920209.	PESCVNQYICGAIY
PMWLNGSHQPQLEDGVVLRQVICASGYSGCCSFKSHPI	527
gi 189526321 ref XP_001922875.	PESCVNEGMCCTYY
PLWLNGSHPDLEDGVVLRQVCASGWSGCCSYTSHPI	547
gi 292619792 ref XP_696966.4	PESCVDQNSCGSFN
PMWLNRSHPQLEDGVVLRHICVSSYSGCCAFTSHPI	698
gi 292619701 ref XP_001344258.	PESCVKSGTCGTLY
PLWLDGPHPLLEDGVVTRKVCQSQWDCCGISSHPI	246
gi 189526377 ref XP_001334197.	PESCVNAGMCCTYY
PIVLNESHPKLEDGVVLRHVLCASGWSGCCCEYTTEPI	547
gi 189526324 ref XP_001344696.	PESCANEGMCCTYN
PLSLNGSHPKLEDGVVLRQVCAPGWRGCCSFAPHPI	561
gi 292619789 ref XP_001344844.	PESCVNQYMCGSYN
PLWLNGSHQPQLEDGVVLRHVLCASGWSGCCAYTSQAI	551
gi 189526319 ref XP_001344566.	PESCVYEGMCCTYY

PLWLNESHQPQLEDGVVLRHVCAHGWRGCCTYTSSPV 549
 gi | 189526375 | ref | XP_001334286. PESCVNQGMCCTYY
 PLWLNGSHPQVEDGVVLRHVCASGYSGCCTYTSHPI 548
 gi | 189526379 | ref | XP_001921195. PESCANEGMCGTYN
 PLSLNGSHPKLEDGVVLRQVCAPGWRGCCSFAPHPI 547
 gi | 292610053 | ref | XP_002660620. PDTCVALSSCGTSTF
 PLWIRGGHPTVQDGVVTRDVCANAYTYCCFFPSYPI 491
 gi | 292614050 | ref | XP_002662118. -----

 gi | 292619755 | ref | XP_002664077. --RWAFRVDSELET
 S----- 585
 gi | 292619749 | ref | XP_001341823. --RYVFRVDTGSNT
 NKNEIVG----- 262
 gi | 292619743 | ref | XP_696708.4 | --RYVFR-----
 ----- 345
 gi | 292619724 | ref | XP_002664067. --RWAFRVDSGPRS
 N----- 348
 gi | 292619728 | ref | XP_001919793. PGRWAFRVDGGPLT
 GSGIFYPFGLSAGDSKNTAADDASSSAITLLSPFLF 493
 gi | 292619730 | ref | XP_001919770. PGRWAFRVDGGPQT
 GMSTAH--RLRTYNSKYNNNTYCNNYYSTYNS---- 701
 gi | 189526282 | ref | XP_001341980. --RWVFRVDGGP--
 ----- 249
 gi | 292619718 | ref | XP_001919849. --RWAFRVDSELET
 S----- 221
 gi | 189526284 | ref | XP_700189.3 | --RWVFRVDGGPET
 NRDPFFDPCYNYTVLDDSWRSTKNIHTSFDSYKTMC 348
 gi | 292619722 | ref | XP_001919836. --RWAFRVDGGSQS
 NTIINFINFL----- 105
 gi | 292619720 | ref | XP_002664066. --RWVFRVDGGPET
 NRE----- 318
 gi | 292619726 | ref | XP_001919821. --RWAFRVDGGPST
 GSGIFYPFGLSAGDSKNTAADDASSSAITLLSPFLF 281
 gi | 292619745 | ref | XP_001341329. YNKTYNNNYGKYY
 NNSYCNN--YYSAYNSKYNNNTYNNYYSTDNNNYNS 323
 gi | 125832061 | ref | XP_001342081. --RWAFRVDSGPRS
 N----- 299
 gi | 292619732 | ref | XP_001922656. --RYVFRVDTGSNT
 NKNEIVG----- 262
 gi | 292619753 | ref | XP_001341931. PGRWVFRVDGGPQT
 GMSTAN--RLRTYNSKYNNNTYCNNYYSTYNS---- 283
 gi | 292619747 | ref | XP_697240.4 | SGRWAFNATSGSVY

STPNTPTVTPAPAIIFYPFSGAVGDTEQTVYNDESLSYS 703
gi | 292619739 | ref | XP_002664070. --RS-----
----- 338
gi | 292626791 | ref | XP_700475.4 | TGCWAFQVDGSPKL
PDFIFPFGNGEMVTPRLDNGSSEAIILQQPFKYFGR 11348
gi | 292619737 | ref | XP_002664069. --RWAFLVNNGTDT
VG----- 403

gi | 119220569 | ref | NP_001007241. -----

gi | 114661340 | ref | XP_001155840. -----

gi | 50979234 | ref | NP_001003371.1 -----

gi | 115495209 | ref | NP_001069418. -----

gi | 27229028 | ref | NP_080265.2 | -----

gi | 19705557 | ref | NP_599245.1 | -----

gi | 292619796 | ref | XP_001921135. RVKACPGDYYVYEF
VQPRTHSAYCVA----- 573
gi | 292619783 | ref | XP_697381.4 | RVKACPGDYYVYEF
KQPRICSAYCVVPKS----- 573
gi | 292619798 | ref | XP_696654.4 | RVKACPGDYYVYEF
VQPRTHSAYCVA----- 675
gi | 292629831 | ref | XP_001346047. RVKACPGNYYVYEF
VRPMFCGVYCNTNYSNNIKNTNYSHTKNTNHSNNI 589
gi | 292619785 | ref | XP_001920157. RVKACPGDYYVYEF
VQPRTHSAYCVA----- 562
gi | 131888908 | ref | NP_001076476. RVKACPGDYYVYEF
VKPIICGTYCLE----- 579
gi | 189526326 | ref | XP_001920209. RVKACPGHYYVYEL
VKQRICSVYCAG----- 553
gi | 189526321 | ref | XP_001922875. RVKACPGNYYVYEL
KQPRTYSAYCIA----- 573
gi | 292619792 | ref | XP_696966.4 | KVKACPGDYYVYEF
VKPLICAAYCLG----- 724
gi | 292619701 | ref | XP_001344258. QVKACPGNYYVYEF
VRPLYCAAYCAG----- 272

gi 189526377 ref XP_001334197.	RIKACPGDYVYEL
VKPMFCGAYCAVPKA-----	576
gi 189526324 ref XP_001344696.	RVKACPGNYYVYEF
KRLRFCAAYCIVPKD-----	590
gi 292619789 ref XP_001344844.	RVKACPGDYVYEF
VKPILCAAYCVE-----	577
gi 189526319 ref XP_001344566.	RVKACPGDYVYEF
KEPLFCAAYCVVPA-----	578
gi 189526375 ref XP_001334286.	RVKACPGNYYVYEF
KQPRICSAAYCVVPA-----	577
gi 189526379 ref XP_001921195.	RVKACPGNYYVYEF
KRLRFCAAYCI---D-----	573
gi 292610053 ref XP_002660620.	RVKACPGNYYIYEL
LKPAVCNSANCADV-----	520
gi 292614050 ref XP_002662118.	-----
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gi 292619755 ref XP_002664077.	-----
-----	-----
gi 292619749 ref XP_001341823.	-----
-----	-----
gi 292619743 ref XP_696708.4	-----
-----	-----
gi 292619724 ref XP_002664067.	-----
-----	-----
gi 292619728 ref XP_001919793.	FGRTYQQIY-----
-----	502
gi 292619730 ref XP_001919770.	--KYNNNTY-----
-----	708
gi 189526282 ref XP_001341980.	-----
-----	-----
gi 292619718 ref XP_001919849.	-----
-----	-----
gi 189526284 ref XP_700189.3	DSYVHWLWYRLFI
NGQSVQMPDTCVDMWSCGTIVPLWLNGTHPTVEDGM	398
gi 292619722 ref XP_001919836.	-----
-----	-----
gi 292619720 ref XP_002664066.	-----
-----	-----
gi 292619726 ref XP_001919821.	FGRTYQQIY-----
-----	290
gi 292619745 ref XP_001341329.	YYNYYNNTYNN---
-----	334

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gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
-----
gi | 292619753 | ref | XP_001341931.          --KYYNNTY-----
-----                290
gi | 292619747 | ref | XP_697240.4 |          VGLSTPFTFFG---
-----                714
gi | 292619739 | ref | XP_002664070.          -----
-----
gi | 292626791 | ref | XP_700475.4 |          TLNQTFVNNGLLT
FAKPPSDCIPFLNSGRDLIAPLWTHFDNRQGGTISC 11398
gi | 292619737 | ref | XP_002664069.          -----
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gi | 119220569 | ref | NP_001007241.          -----
-----EKACRP-----                196
gi | 114661340 | ref | XP_001155840.          -----
-----EKACRP-----                236
gi | 50979234 | ref | NP_001003371.1          -----
-----KNLCRP-----                168
gi | 115495209 | ref | NP_001069418.          -----
-----DRTC RP-----                191
gi | 27229028 | ref | NP_080265.2 |          -----
-----EITCRP-----                193
gi | 19705557 | ref | NP_599245.1 |          -----
-----EIACRP-----                189
gi | 292619796 | ref | XP_001921135.          -----
-----TNQSSTAVTTTQPITSEEFINPPT 597
gi | 292619783 | ref | XP_697381.4 |          -----
-----TNQSSTGVTTTQPITSIDFINPPT 597
gi | 292619798 | ref | XP_696654.4 |          -----
-----TNQSSTAVTTTQPITSEEFINPPT 699
gi | 292629831 | ref | XP_001346047.          KDPNHNNNIKNTNY
SNNTKNTNHSNTKNTNHSNTKNTNHSNTKNTNH 639
gi | 292619785 | ref | XP_001920157.          -----
-----TNQSSTAVTTTQPITSEEFINPPT 586
gi | 131888908 | ref | NP_001076476.          -----
-----ATNQSTTTASIPLTQSITPSI 600
gi | 189526326 | ref | XP_001920209.          -----
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-----QSSRAVTTIQPITSIDFITPPI 575
gi | 189526321 | ref | XP_001922875. -----
-----ANQSSTAVTTTQPITSIDFT-PPT 596
gi | 292619792 | ref | XP_696966.4 | -----
-----DTSVSRTTKSIPLLESIT--- 742
gi | 292619701 | ref | XP_001344258. -----
-----KRIVLCH----- 279
gi | 189526377 | ref | XP_001334197. -----
-----ANQSSTAVTTTQPITSIDFITPPT 600
gi | 189526324 | ref | XP_001344696. -----
-----STKLSTAVTTTQPITSIDFITPPT 614
gi | 292619789 | ref | XP_001344844. -----
-----VANQITTTASIIPLIESITPPT 598
gi | 189526319 | ref | XP_001344566. -----
-----TNQSSTAVTTTQPITSIDFINPPT 602
gi | 189526375 | ref | XP_001334286. -----
-----ANQSSTAVTTTQPITSIDFITPPT 601
gi | 189526379 | ref | XP_001921195. -----
-----STKLSTAVTTTQPITSIDFITPPT 597
gi | 292610053 | ref | XP_002660620. -----
-----SVTNSSTAATPVIIITP-- 536
gi | 292614050 | ref | XP_002662118. -----
-----
gi | 292619755 | ref | XP_002664077. -----
-----
gi | 292619749 | ref | XP_001341823. -----
-----
gi | 292619743 | ref | XP_696708.4 | -----
-----
gi | 292619724 | ref | XP_002664067. -----
-----
gi | 292619728 | ref | XP_001919793. -----
-----
gi | 292619730 | ref | XP_001919770. -----
-----
gi | 189526282 | ref | XP_001341980. -----
-----
gi | 292619718 | ref | XP_001919849. -----
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gi | 189526284 | ref | XP_700189.3 | VTRGVCGTADNNCC
IIQSNPIRV-----KACPGGYVYELDQWAYGCY 441
gi | 292619722 | ref | XP_001919836. -----

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gi | 292619720 | ref | XP_002664066. -----
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gi | 292619726 | ref | XP_001919821. -----
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gi | 292619745 | ref | XP_001341329. -----
-----
gi | 125832061 | ref | XP_001342081. -----
-----
gi | 292619732 | ref | XP_001922656. -----
-----
gi | 292619753 | ref | XP_001341931. -----
-----
gi | 292619747 | ref | XP_697240.4 | -----
-----HTYTMLYLMHTGL 727
gi | 292619739 | ref | XP_002664070. -----
-----
gi | 292626791 | ref | XP_700475.4 | REDTSSDVLAQVNA
AIKQNSPNANFTASSAFVATWDNVPYYDGRGVATFQ 11448
gi | 292619737 | ref | XP_002664069. -----
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gi | 119220569 | ref | NP_001007241. -----
-----
gi | 114661340 | ref | XP_001155840. -----
-----
gi | 50979234 | ref | NP_001003371.1 -----
-----
gi | 115495209 | ref | NP_001069418. -----
-----
gi | 27229028 | ref | NP_080265.2 | -----
-----
gi | 19705557 | ref | NP_599245.1 | -----
-----
gi | 292619796 | ref | XP_001921135. TD--PPVDPCNNYI
ILDEPWRATSNQNS-SQLMCDSAVSWGWRFLFING 644
gi | 292619783 | ref | XP_697381.4 | TD--PPVDPCNNFL
ILDEPWRATSNENS--QLMCDRAVSWGWRFLFING 643
gi | 292619798 | ref | XP_696654.4 | TA--PPVDPCNNYF
ILDDPWRATSNQNS-SQLMCDRAVSWGWRFLFING 746

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gi | 292629831 | ref | XP_001346047. SHNTKNTNHSNTK
NTNHNNTKNTNHS-NNTKNTNHSNYTKSTNHSNT 688
gi | 292619785 | ref | XP_001920157. TD--PPVDPCNNYI
ILDEPWRATSNQNS-SQLMCDRAVSWSGWYRLFING 633
gi | 131888908 | ref | NP_001076476. TTTAPPVDPCYNYF
ILDEPWRATSNQNS-SQLMCDSAVSWSGWYRLFING 649
gi | 189526326 | ref | XP_001920209. TTTDPPVDPCYNYF
ILDDPWRATSNQYS-SQLMCDSAVSWSGWYRLFING 624
gi | 189526321 | ref | XP_001922875. TA--PPVDPCYNYF
ILDDPWRATSNQHS-SQLMCDSAVSWSGWYRLFING 643
gi | 292619792 | ref | XP_696966.4 | -TTAPPVDPCNNFL
ILDEPWRATSNQNS-SQLMCDSAVSWSGWYRLFING 790
gi | 292619701 | ref | XP_001344258. -----

gi | 189526377 | ref | XP_001334197. TA--PPVDPCNNYN
VLDEPWRATSNEDS-SQLMCDSAVSWSGWYRLFING 647
gi | 189526324 | ref | XP_001344696. TA--PPVDPCYNYN
VLDEPWRATSNEDS-SQLMCDRAVSWSGWYRLFING 661
gi | 292619789 | ref | XP_001344844. TTTAPPVDPCYNYN
VLDESWRATSNQNS-SQLMCDSAVSWSGWYRLFING 647
gi | 189526319 | ref | XP_001344566. TA--PPVDPCYNYL
NLDEPWRATSNQNS-SQLMCDRAVSWSGWYRLFING 649
gi | 189526375 | ref | XP_001334286. TA--PPVDPCNNFL
ILDEPWRATNNQHS-SQLMCDRAVSWSGWYRLFING 648
gi | 189526379 | ref | XP_001921195. TA--PPVDPCYNYN
VLDEPWRATSNEDS-SQLMCDRAVSWSGWYRLFING 644
gi | 292610053 | ref | XP_002660620. -----DPCFTYT
VLSDSWRANSSQPSKSVYMCDSVSVWSGWYRLIING 579
gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. -----

gi | 292619730 | ref | XP_001919770. -----

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gi | 189526282 | ref | XP_001341980.          -----
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gi | 292619718 | ref | XP_001919849.          -----
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gi | 189526284 | ref | XP_700189.3 |          VAYCAAPGIFYSFG
LAAGDSINPAVDDGGSSVIPLLSPLQYFGRTYQQIY 491
gi | 292619722 | ref | XP_001919836.          -----
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gi | 292619720 | ref | XP_002664066.          -----
-----
gi | 292619726 | ref | XP_001919821.          -----
-----
gi | 292619745 | ref | XP_001341329.          -----
-----
gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
-----
gi | 292619753 | ref | XP_001341931.          -----
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gi | 292619747 | ref | XP_697240.4 |          LTFTITSVATSGPN
YTPIRGNDDFIAALWSDIDDYYNIGHFSYQQYTNGS 777
gi | 292619739 | ref | XP_002664070.          -----
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gi | 292626791 | ref | XP_700475.4 |          VVLASSVQRSFILL
NYGNISKLGQTWLVMPSNFLPSDDGQAVNSTANDGS 11498
gi | 292619737 | ref | XP_002664069.          -----
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gi | 119220569 | ref | NP_001007241.          -----
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gi | 114661340 | ref | XP_001155840.          -----
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gi | 50979234 | ref | NP_001003371.1          -----
-----
gi | 115495209 | ref | NP_001069418.          -----
-----
gi | 27229028 | ref | NP_080265.2 |          -----
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gi | 19705557 | ref | NP_599245.1 |          -----
-----

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gi | 292619796 | ref | XP_001921135. QSVQMPDTCVDENS
CGTHAPLWLSGGHPTLEDGVVTRDVCGHWGNNCCYF 694
gi | 292619783 | ref | XP_697381.4 | QSVQMPDTCVDEYS
CGTDAPLWLSGGHPTLEDGVVSRNVCGHWGNNCCYF 693
gi | 292619798 | ref | XP_696654.4 | QSVQMPDTCVDENS
CGTHAPLWLSGGHPTLEDGVVTRDVCGHWSNNCCYF 796
gi | 292629831 | ref | XP_001346047. KNTNHSNNTKSTNH
SHNTKNTNHSNNTKNTNHSNTKNTNHSNTKNTNH 738
gi | 292619785 | ref | XP_001920157. QSVQMPDTCVDENS
CGTNAPLWLSGGHPTLEDGVVSRDVCGHWSNNCCYF 683
gi | 131888908 | ref | NP_001076476. QSVQMPDTCVDENS
CGTNAPLWLSGGHPTLEDGVVSRNFCAHWSNNCCYF 699
gi | 189526326 | ref | XP_001920209. QSVQMPDTCVDELS
CGTNAPLWLSGGHPTLEDGVVTRDVCGHWNNDCCYF 674
gi | 189526321 | ref | XP_001922875. QSVQMPDTCVDEYS
CGTNAPLWLSGGHPTLEDGVVSRNVCAHWNNDCCFF 693
gi | 292619792 | ref | XP_696966.4 | QSVQMPDTCVDEYS
CGTNAPLWLSGGHPTLEDGVVTRDVCAHWSNNCCYF 840
gi | 292619701 | ref | XP_001344258. -----

gi | 189526377 | ref | XP_001334197. QSVQMPDTCVDEYS
CGTNAPLWLSGGHPTLEDGVVSRNVCAHWSNNCCYF 697
gi | 189526324 | ref | XP_001344696. QSVQMPDTCVDEYS
CGTNAPLWLSGGHPTLEDGVVSRNVCAHWRNNCCYF 711
gi | 292619789 | ref | XP_001344844. QSVQMPDTCVDENS
CGTNAPLWLSGGHPTLEDGVVTRDVCGHWSNNCCYF 697
gi | 189526319 | ref | XP_001344566. QSVQMPDTCVDENS
CGTHAPLWLSGGHPTLEDGVVSRNVCGHWGNNCCYF 699
gi | 189526375 | ref | XP_001334286. QSVQMPDTCVDEYS
CGTNAPLWLSGGHPTLEDGVVSRNVCAHWNNDCCYF 698
gi | 189526379 | ref | XP_001921195. QSVQMPDTCVDENS
CGTNAPLWLSGGHPTLEDGVVSRNVCAHWRNNCCYF 694
gi | 292610053 | ref | XP_002660620. LSAQIPDTCVEKYS
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gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----


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gi | 292619724 | ref | XP_002664067. -----
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gi | 292619730 | ref | XP_001919770. -----
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gi | 189526282 | ref | XP_001341980. -----
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gi | 292619718 | ref | XP_001919849. -----
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gi | 189526284 | ref | XP_700189.3 | VNNNGFLTFSQASQ
NFVPYLFPDYGNEDIAGLWTDLDNREKGVVSYNQY 541
gi | 292619722 | ref | XP_001919836. -----
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gi | 292619720 | ref | XP_002664066. -----
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gi | 292619726 | ref | XP_001919821. -----
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gi | 292619745 | ref | XP_001341329. -----
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gi | 125832061 | ref | XP_001342081. -----
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gi | 292619732 | ref | XP_001922656. -----
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gi | 292619753 | ref | XP_001341931. -----
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gi | 292619747 | ref | XP_697240.4 | VLDRATQDINQYFS
TTNFSANWVFWVTWKYGSQPNPAILFQAVLISGSGE 827
gi | 292619739 | ref | XP_002664070. -----
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gi | 292626791 | ref | XP_700475.4 | SDAISLQQPFKFFG
RTYSQIYMNSNGYLTFTKPLPASNSLNPKRDIAP 11548
gi | 292619737 | ref | XP_002664069. -----
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gi | 119220569 | ref | NP_001007241. -----
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gi | 114661340 | ref | XP_001155840. -----
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gi | 50979234 | ref | NP_001003371.1      -----
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gi | 115495209 | ref | NP_001069418.      -----
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gi | 27229028 | ref | NP_080265.2 |      -----
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gi | 19705557 | ref | NP_599245.1 |      -----
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gi | 292619796 | ref | XP_001921135.      QSNPIQVKACPGGF
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gi | 292619783 | ref | XP_697381.4 |      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDTPETTTTE 743
gi | 292619798 | ref | XP_696654.4 |      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDTPETTTTE 846
gi | 292629831 | ref | XP_001346047.      NNNTKNTNHSHTQ
NTNHSHTKNTNHSHTKNTNHSHTKNTNHSHTK 788
gi | 292619785 | ref | XP_001920157.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDTPETTTTE 733
gi | 131888908 | ref | NP_001076476.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDIPETTTTE 749
gi | 189526326 | ref | XP_001920209.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDTPETTTTE 724
gi | 189526321 | ref | XP_001922875.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVGFNTSYTTDTPETTTTE 743
gi | 292619792 | ref | XP_696966.4 |      QSNPIQVKACPGGF
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gi | 292619701 | ref | XP_001344258.      -----
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gi | 189526377 | ref | XP_001334197.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVMFNTSYTTDTPETTTTE 747
gi | 189526324 | ref | XP_001344696.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDTPETTTTE 761
gi | 292619789 | ref | XP_001344844.      QSNPIQVKACPGGF
YVYEFVRPNGCNLAYCADVRFNTSYTTDTPETTTTE 747
gi | 189526319 | ref | XP_001344566.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVSFNTSYT----- 739
gi | 189526375 | ref | XP_001334286.      QSNPIQVKACPGGF
YVYEFVRPSGCNLAYCADVRFNTSYTTDMPETTTTE 748
gi | 189526379 | ref | XP_001921195.      QSNPIQVKACPGGF
YVYEFVRPTTCNLAYCADVRFNTSYTTDMPETTTTE 744
gi | 292610053 | ref | XP_002660620.      GSYPIRVKACPGNY
YVYELLTPSFCASAYCAAN----- 662

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gi | 292614050 | ref | XP_002662118.          -----
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gi | 292619749 | ref | XP_001341823.          -----
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gi | 292619743 | ref | XP_696708.4 |         -----
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gi | 292619724 | ref | XP_002664067.          -----
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gi | 292619728 | ref | XP_001919793.          -----
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gi | 292619730 | ref | XP_001919770.          -----
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gi | 189526282 | ref | XP_001341980.          -----
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gi | 292619718 | ref | XP_001919849.          -----
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gi | 189526284 | ref | XP_700189.3 |         TNGSVLTRATQDIN
NYFPNLNFTASWVFWATWNKVALSALTNTTETSFQVV 591
gi | 292619722 | ref | XP_001919836.          -----
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gi | 292619720 | ref | XP_002664066.          -----
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gi | 292619726 | ref | XP_001919821.          -----
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gi | 292619745 | ref | XP_001341329.          -----
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gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619753 | ref | XP_001341931.          -----
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gi | 292619747 | ref | XP_697240.4 |         SFFLLNYGDCAVLY
EAVEAGFDTINSISKFIIPDSVNGNYRNLKNTTNVN 877
gi | 292619739 | ref | XP_002664070.          -----
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gi | 292626791 | ref | XP_700475.4 |         LWTQLDSRRGGSIS
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gi | 292619737 | ref | XP_002664069.          -----
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gi 119220569 ref NP_001007241 .	-----

gi 114661340 ref XP_001155840 .	-----

gi 50979234 ref NP_001003371 .1	-----

gi 115495209 ref NP_001069418 .	-----

gi 27229028 ref NP_080265 .2	-----

gi 19705557 ref NP_599245 .1	-----

gi 292619796 ref XP_001921135 .	T-----
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gi 292619783 ref XP_697381 .4	TTA-----
-----	746
gi 292619798 ref XP_696654 .4	T-----
-----	847
gi 292629831 ref XP_001346047 .	NTNHSHNTKNTNHN
NNTKNTNHNNTKNTNYSNNTKITNNNIKYTKHSDNR	838
gi 292619785 ref XP_001920157 .	T-----
-----	734
gi 131888908 ref NP_001076476 .	TAA-----
-----	752
gi 189526326 ref XP_001920209 .	T-----
-----	725
gi 189526321 ref XP_001922875 .	T-----
-----	744
gi 292619792 ref XP_696966 .4	T-----
-----	891
gi 292619701 ref XP_001344258 .	-----

gi 189526377 ref XP_001334197 .	T-----
-----	748
gi 189526324 ref XP_001344696 .	TTISIF-----
-----	767
gi 292619789 ref XP_001344844 .	TAA-----
-----	750
gi 189526319 ref XP_001344566 .	-----

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gi | 189526375 | ref | XP_001334286.          TTA-----
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gi | 189526379 | ref | XP_001921195.          TTISLF-----
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gi | 292610053 | ref | XP_002660620.          -----
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gi | 292614050 | ref | XP_002662118.          -----
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gi | 292619755 | ref | XP_002664077.          -----
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gi | 292619749 | ref | XP_001341823.          -----
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gi | 292619743 | ref | XP_696708.4 |          -----
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gi | 292619724 | ref | XP_002664067.          -----
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gi | 292619728 | ref | XP_001919793.          -----
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gi | 292619730 | ref | XP_001919770.          -----
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gi | 189526282 | ref | XP_001341980.          -----
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gi | 292619718 | ref | XP_001919849.          -----
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gi | 189526284 | ref | XP_700189.3 |          LISGSGYVFVLMNY
GDIAATGHPVEAGYDTINSINYFVIPGSNNGSSIS- 640
gi | 292619722 | ref | XP_001919836.          -----
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gi | 292619720 | ref | XP_002664066.          -----
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gi | 292619726 | ref | XP_001919821.          -----
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gi | 292619745 | ref | XP_001341329.          -----
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gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619753 | ref | XP_001341931.          -----
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gi | 292619747 | ref | XP_697240.4 |          IPGRWAFNATSGSV

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YSAPNTTVTPAPAVFYFPGSAVGDTEYSETGSESQ- 926
gi | 292619739 | ref | XP_002664070. -----

gi | 292626791 | ref | XP_700475.4 | KSVPYNNSGGVVNF
QVVLAYNVHRSFVFNYYGDIAETGQPWQAGYSTVD- 11647
gi | 292619737 | ref | XP_002664069. -----

gi | 119220569 | ref | NP_001007241. -----

gi | 114661340 | ref | XP_001155840. -----

gi | 50979234 | ref | NP_001003371.1 -----

gi | 115495209 | ref | NP_001069418. -----

gi | 27229028 | ref | NP_080265.2 | -----

gi | 19705557 | ref | NP_599245.1 | -----

gi | 292619796 | ref | XP_001921135. -----

gi | 292619783 | ref | XP_697381.4 | -----

gi | 292619798 | ref | XP_696654.4 | -----

gi | 292629831 | ref | XP_001346047. NYRNNIKNIIYINN
SIHNNNTKNTNHSNNINNTIHSNNSYHSNNIKNTNH 888
gi | 292619785 | ref | XP_001920157. -----

gi | 131888908 | ref | NP_001076476. -----

gi | 189526326 | ref | XP_001920209. -----

gi | 189526321 | ref | XP_001922875. -----

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gi | 292619701 | ref | XP_001344258. -----

gi | 189526377 | ref | XP_001334197. -----

gi | 189526324 | ref | XP_001344696. -----

gi | 292619789 | ref | XP_001344844. -----

gi | 189526319 | ref | XP_001344566. -----

gi | 189526375 | ref | XP_001334286. -----

gi | 189526379 | ref | XP_001921195. -----

gi | 292610053 | ref | XP_002660620. -----

gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. -----

gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. -----

gi | 292619730 | ref | XP_001919770. -----

gi | 189526282 | ref | XP_001341980. -----

gi | 292619718 | ref | XP_001919849. -----

gi | 189526284 | ref | XP_700189.3 | -----

gi | 292619722 | ref | XP_001919836. -----

gi | 292619720 | ref | XP_002664066. -----

gi | 292619726 | ref | XP_001919821. -----

gi | 292619745 | ref | XP_001341329. -----

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gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619747 | ref | XP_697240.4 |          -----
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gi | 292619739 | ref | XP_002664070.          -----
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gi | 292626791 | ref | XP_700475.4 |          -----
-----
gi | 292619737 | ref | XP_002664069.          -----
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gi | 119220569 | ref | NP_001007241.          -----
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gi | 114661340 | ref | XP_001155840.          -----
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gi | 50979234  | ref | NP_001003371.1          -----
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gi | 115495209 | ref | NP_001069418.          -----
-----
gi | 27229028  | ref | NP_080265.2 |          -----
-----
gi | 19705557  | ref | NP_599245.1 |          -----
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gi | 292619796 | ref | XP_001921135.          -----
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-----TTTI 749
gi | 292619783 | ref | XP_697381.4 |          -----
-----
-----ESTTII 752
gi | 292619798 | ref | XP_696654.4 |          -----
-----
-----TTTI 851
gi | 292629831 | ref | XP_001346047.          SNNRNPGISTNNTS
STNKTTTRPKKFFSNDTYTNYNNQSTNGNDWYCLPLI 938
gi | 292619785 | ref | XP_001920157.          -----
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-----TNII 738
gi | 131888908 | ref | NP_001076476.          -----
-----
-----ETRTII 758
gi | 189526326 | ref | XP_001920209.          -----

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-----TTII 729
gi | 189526321 | ref | XP_001922875. -----
-----TTII 748
gi | 292619792 | ref | XP_696966.4 | -----
-----TTII 895
gi | 292619701 | ref | XP_001344258. -----
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gi | 189526377 | ref | XP_001334197. -----
-----TTII 752
gi | 189526324 | ref | XP_001344696. -----
-----YININTR 774
gi | 292619789 | ref | XP_001344844. -----
-----ESTTMT 756
gi | 189526319 | ref | XP_001344566. -----
-----I 740
gi | 189526375 | ref | XP_001334286. -----
-----ESTTII 757
gi | 189526379 | ref | XP_001921195. -----
-----YININTR 757
gi | 292610053 | ref | XP_002660620. -----
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gi | 292614050 | ref | XP_002662118. -----
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gi | 292619755 | ref | XP_002664077. -----
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gi | 292619749 | ref | XP_001341823. -----
-----
gi | 292619743 | ref | XP_696708.4 | -----
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gi | 292619724 | ref | XP_002664067. -----
-----
gi | 292619728 | ref | XP_001919793. -----
-----VN 504
gi | 292619730 | ref | XP_001919770. -----
-----YN 710
gi | 189526282 | ref | XP_001341980. -----
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gi | 292619718 | ref | XP_001919849. -----
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gi | 189526284 | ref | XP_700189.3 | -----
-----NLNTSSNVNVPGRWAFRVDTG 661
gi | 292619722 | ref | XP_001919836. -----

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gi | 292619720 | ref | XP_002664066. -----

gi | 292619726 | ref | XP_001919821. -----
-----VN 292
gi | 292619745 | ref | XP_001341329. -----
-----YNTCYN 340
gi | 125832061 | ref | XP_001342081. -----

gi | 292619732 | ref | XP_001922656. -----

gi | 292619753 | ref | XP_001341931. -----
-----YN 292
gi | 292619747 | ref | XP_697240.4 | -----
-----VSVALSTPFTFFGHTYNSLYV 947
gi | 292619739 | ref | XP_002664070. -----

gi | 292626791 | ref | XP_700475.4 | -----
-----SASSFLVPARSVSELSSSSNI 11668
gi | 292619737 | ref | XP_002664069. -----

gi | 119220569 | ref | NP_001007241. -----
EEECLALNSTWGCFCRQDLNSSDV--HSLQPQLDCG 230
gi | 114661340 | ref | XP_001155840. -----
EEECLALNSTWGCFCRQDLNSSDV--HSLQPQLDCG 270
gi | 50979234 | ref | NP_001003371.1 -----
EEACSFLNGTWDCFCRSDLNSSDV--HSLQPRLNCG 202
gi | 115495209 | ref | NP_001069418. -----
EEECRLVSGTWGCFCRQDLNVSDV--HSLQPQLDCG 225
gi | 27229028 | ref | NP_080265.2 | -----
EEECVFQNNNWSCVCRQDLHVSDS--QSLQPLLDCG 227
gi | 19705557 | ref | NP_599245.1 | -----
EEECVFQNNSWTCVCRQDLNVSDT--LSLQPLLDCG 223
gi | 292619796 | ref | XP_001921135. SDDRNPCSELNCSK
EERCGMKNGVYGCLCNKGHHKHRAAQDSFDFNETCE 799
gi | 292619783 | ref | XP_697381.4 | SDVRNPCPELNCSK
EERCGMKNGVYGCLCNKGHQKQRAAQDSFDFNETCE 802
gi | 292619798 | ref | XP_696654.4 | SDDRNPCSELNCSK
EERCGMKNGVYGCLCNKGHQKQRAAQDSFDFNETCE 901

gi | 292629831 | ref | XP_001346047. ICDTDPCSEISCSE
DEHCGEKHGVYGCLCNTNHNGSHS--DSFDFSESCE 986
gi | 292619785 | ref | XP_001920157. SDDRNPCSELNCSK
EERCGMKNVYGCLCNKGHQKQRAAQDSFDFNETCE 788
gi | 131888908 | ref | NP_001076476. FDDRNPCSELNCSK
EERCGMKNVYGCLCNKGHQKQRAAQDSFDFNETCE 808
gi | 189526326 | ref | XP_001920209. SDVRNPCSELNCSK
EERCGMKNVYGCLCNKGHQKQRAAQDSFDFNETCE 779
gi | 189526321 | ref | XP_001922875. SDDRNPCSELNCSK
EERCGMKNVYGCLCNKGHQKHRAPKDSFDFNETCE 798
gi | 292619792 | ref | XP_696966.4 | SDDRNPCSELNCSK
EERCGMKNVYGCLCNKGHQKQRAAQDSFDFNETCE 945
gi | 292619701 | ref | XP_001344258. -----CSELNCTE
DERCEEKDGIIYGCCKRKHQTY-----KFDFTETCE 318
gi | 189526377 | ref | XP_001334197. SDDRNPCSELNCSK
EERCGMKNVYGCLCNKGLQKHRAPKDSFDFNETCE 802
gi | 189526324 | ref | XP_001344696. VDDRNPCSELNCTK
EERCGMKNVYGCLCNKGHHKHRAAQDSFDFNETCE 824
gi | 292619789 | ref | XP_001344844. TGDRNPCSELNCSK
EERCGMKNVYGCLCNKGHQKQRAAQDSFDFNETCE 806
gi | 189526319 | ref | XP_001344566. SDDRNPCSELNCSK
EERCGMKNVYGCLCKKGHQKQRAAQDSFDFNETCE 790
gi | 189526375 | ref | XP_001334286. SAVRNPCSELNCSK
EERCGMKNVYGCLCNKGLQKHRAPKDSFDFNETCE 807
gi | 189526379 | ref | XP_001921195. VDVRNPCSELNCTE
EERCGMKNVYGCLCNKGHQKQRAAQDSFDFNETCE 807
gi | 292610053 | ref | XP_002660620. --LTDPCNSYTVLN
DAWRSVNNTNNTNVCDWYVSWSGWYRLFINGLSAHI 710
gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. ----THLPFDPCYK
FTVLDDPLRSTGNPFLSENSCDSSISWFGWYRLFIN 631
gi | 292619749 | ref | XP_001341823. -----LQGKL
ASFLDLTDEGNKQIVLQQIQQELVKKGLPSNMKLTI 303
gi | 292619743 | ref | XP_696708.4 | -----
-----IQQELVKKGLPSNMKLNI 363
gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. NNGHLTFSQASSQY
VPYSFPANGSRDIIAGFWADLDNRASGVISYHQYSN 554
gi | 292619730 | ref | XP_001919770. NYYSTYNSKYNTY
YNYYYNTYNSKYNNNTYCNNYYSTYNSKYNNNTYDN 760

gi | 189526282 | ref | XP_001341980. -----KDSI
VKMCMCVAG---IPVRYKSVLDLTENGNAEMKLSN 286
gi | 292619718 | ref | XP_001919849. ----THLPFDPCYK
FTVLDDPLRSTGNPFLSENSCDSSISWFGWYRLFIN 267
gi | 189526284 | ref | XP_700189.3 | PHTITNLPFDPCNK
YTVLDDPWRTTDNREPIVIGCDSTLSWFGWYRLFIN 711
gi | 292619722 | ref | XP_001919836. -CIITDLPFDPCFK
YTVLDDPWRTTDNREPIEIGCDLISWFGWYRLFIN 154
gi | 292619720 | ref | XP_002664066. -----

gi | 292619726 | ref | XP_001919821. NNGHLTFSQASSQY
VPYSFPANGSRDIIAGFWADLDNRASGVISYHQYTN 342
gi | 292619745 | ref | XP_001341329. YYYSTYNSKYNTY
NNYYYNTYNNKY--NTCYNYYSTYNSKYNN-TYNN 387
gi | 125832061 | ref | XP_001342081. -----

gi | 292619732 | ref | XP_001922656. -----LQGRL
ASFLLADEGNKQIVLQQIQQELVKKGLPSNMKLT 303
gi | 292619753 | ref | XP_001341931. NYYSTYNSKYNTY
YNYYYNTYNSKYNNNTYCNYYSTYNSKYNNNTYDN 342
gi | 292619747 | ref | XP_697240.4 | IYNGLLTFTITSTS
GPYYSFPRGREDFIAALWDFDDYLTGVISYQQYTN 997
gi | 292619739 | ref | XP_002664070. -----

gi | 292626791 | ref | XP_700475.4 | KVNNNGLLTFKLP
SDCIPFLNSGRDLIAPLWTHFDNRQGGTISCREDTS 11718
gi | 292619737 | ref | XP_002664069. -----
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gi | 119220569 | ref | NP_001007241. PREIKVKVDKCLLG
GLGLGEEVIAYLRDP--NCSSILQTEERNWVSVTSP 278
gi | 114661340 | ref | XP_001155840. PREIKVKVDKCLLG
GLGLGEEVIAYLRDP--NCSSILQTEERNWVSVTSP 318
gi | 50979234 | ref | NP_001003371.1 AKEIQVSLDKCQLG
GLGFGDEVIAYLRD--WNCSSNMQRREERNWISVTSP 250
gi | 115495209 | ref | NP_001069418. DTEIKVSLDKSLLG
SLGFGDEVHAYLRDGNWNCSSLRQSEENWISVTNP 275
gi | 27229028 | ref | NP_080265.2 | DNEIKVKLDKCLLG
GMGFKEEIIAYLNDR--NCNGTMQDEPNWVSMSTSP 275
gi | 19705557 | ref | NP_599245.1 | ANEIKVKLDKCLLG

GLGFKEDIITYLNDR--NCRGTMKDEPNWVSTTSP 271
 gi | 292619796 | ref | XP_001921135. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 843
 gi | 292619783 | ref | XP_697381.4 | SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 846
 gi | 292619798 | ref | XP_696654.4 | SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 945
 gi | 292629831 | ref | XP_001346047. SSSGFMSVSRCLFE
 AGFPADILHLNDPS-----CRGTVRNGRVEFQFD 1030
 gi | 292619785 | ref | XP_001920157. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 832
 gi | 131888908 | ref | NP_001076476. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 852
 gi | 189526326 | ref | XP_001920209. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 823
 gi | 189526321 | ref | XP_001922875. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 842
 gi | 292619792 | ref | XP_696966.4 | SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 989
 gi | 292619701 | ref | XP_001344258. SSHGSISLSRCLF
 DAGFPSDVLHLNDPS-----CRGTVRDGQVEFYFD 362
 gi | 189526377 | ref | XP_001334197. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGSVQNGRVEFNFD 846
 gi | 189526324 | ref | XP_001344696. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 868
 gi | 292619789 | ref | XP_001344844. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 850
 gi | 189526319 | ref | XP_001344566. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 834
 gi | 189526375 | ref | XP_001334286. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 851
 gi | 189526379 | ref | XP_001921195. SSSGSMSVSRCLF
 EAGFSAEHLHLNDPS-----CRGTVQNGRVEFNFD 851
 gi | 292610053 | ref | XP_002660620. PDTCVLSSCGTSF
 PLWIRGGHPTVQDGV-----VTRDVCANAYGYCCF 754
 gi | 292614050 | ref | XP_002662118. -----

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 SCGASNPMWLSGGHPTVQDGVVTRSVCGSFSFDCCF 681
 gi | 292619749 | ref | XP_001341823. KKVEKMLP-----
 ----- 311
 gi | 292619743 | ref | XP_696708.4 | KKVEKMLP-----

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gi | 292619724 | ref | XP_002664067. -----
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gi | 292619728 | ref | XP_001919793.      GSVLTRATQDINNY
FPNLPFTASWV FVASWDKVPYLSSTAAGFDTINSTN 604
gi | 292619730 | ref | XP_001919770.      NYYSTYNSKY---Y
NTYYSTYNSKYYNNTYYNNYYSTYN---NNYNTYY 803
gi | 189526282 | ref | XP_001341980.      -RIFARQDSQVT--
----- 297
gi | 292619718 | ref | XP_001919849.      GHSVQMPDTCVDIW
SCGARNPMWLSGGHPTVQDGVVTRSVCGSFSFDCCF 317
gi | 189526284 | ref | XP_700189.3 |      GHSVQMPDTCVDMN
SCGTIAPLWLSGGHPTVQDGVVTRDVCGLDNICCN 761
gi | 292619722 | ref | XP_001919836.      GHSVQMPDTCVNMN
SCGTNIPLWLSGGHPTVEDGVVTRDVCGSFDIICCL 204
gi | 292619720 | ref | XP_002664066. -----
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gi | 292619726 | ref | XP_001919821.      GSVLTRATQDINNY
FPNLPFTASWV FVASWDKVPYLSSTAV-----RSTH 387
gi | 292619745 | ref | XP_001341329.      YYYNTYNNNYNTCY
NYYYNTYNSKYYNNAAYNYYYCTYNSKYYNNTYNNYY 437
gi | 125832061 | ref | XP_001342081. -----
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gi | 292619732 | ref | XP_001922656.      KKVEKMLP-----
----- 311
gi | 292619753 | ref | XP_001341931.      NYYSTYNSKY---Y
NTYYSTYNSKYYNNTYYNNYYSTYN---NNYNTYY 385
gi | 292619747 | ref | XP_697240.4 |      GSVLNRATQDINQHF
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gi | 292619739 | ref | XP_002664070. -----
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gi | 292626791 | ref | XP_700475.4 |      SDVLAQVNAAIKQN
SPNANFTASSAFVATWDNVPYYDGRGVATFQVVLAS 11768
gi | 292619737 | ref | XP_002664069.      TEALSAGSGLVTI-
----- 439
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gi | 119220569 | ref | NP_001007241.      VQASACRNILERNQ
THAIYKN----- 299
gi | 114661340 | ref | XP_001155840.      VQASACRNILERNQ
THAIYKN----- 339

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gi 50979234 ref NP_001003371.1	TQARACGNILERNG
THAIYKN-----	271
gi 115495209 ref NP_001069418.	TQAGACGNILERNQ
THAIYIN-----	296
gi 27229028 ref NP_080265.2	VVANYCGNILEKNG
THAIYRN-----	296
gi 19705557 ref NP_599245.1	VVANDCGNILENNG
THAIYRN-----	292
gi 292619796 ref XP_001921135.	NDQHICGTNLVANG
SHFIYSN-----	864
gi 292619783 ref XP_697381.4	NDQHICGTNLVANG
SHFIYSN-----	867
gi 292619798 ref XP_696654.4	NNQHICGTNLVANG
SHFIYSN-----	966
gi 292629831 ref XP_001346047.	NDEHICGTKLVANGT
HFVYDN-----	1051
gi 292619785 ref XP_001920157.	NDQHICGTNLVANG
SHFIYSN-----	853
gi 131888908 ref NP_001076476.	NDQHICGTNLVANG
SHFIYSN-----	873
gi 189526326 ref XP_001920209.	NDQHICGTNLVANG
SHFIYSN-----	844
gi 189526321 ref XP_001922875.	NDQHICGTNLVANG
SHFIYSN-----	863
gi 292619792 ref XP_696966.4	NDQHICGTNLVANGS
HFIYSN-----	1010
gi 292619701 ref XP_001344258.	NNEHICGANIVENG
THIIYDN-----	383
gi 189526377 ref XP_001334197.	NDQHICGTNLVANG
SHFIYSN-----	867
gi 189526324 ref XP_001344696.	NDQHICGTNLVANG
SHFIYSN-----	889
gi 292619789 ref XP_001344844.	NDQHICGTNLVANG
SHFIYSN-----	871
gi 189526319 ref XP_001344566.	NDQHICGTNLVANG
SHFIYSN-----	855
gi 189526375 ref XP_001334286.	NDQHICGTNLVANG
SHFIYSN-----	872
gi 189526379 ref XP_001921195.	NDQHICGTNLVANG
SHFIYSN-----	872
gi 292610053 ref XP_002660620.	FPSYPIRVKACP-G
NYIYEL-----	774

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gi | 292614050 | ref | XP_002662118.          -----
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YYVYELV-----KPLT 706
gi | 292619749 | ref | XP_001341823.          -----
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gi | 292619743 | ref | XP_696708.4 |          -----
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gi | 292619724 | ref | XP_002664067.          -----
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gi | 292619728 | ref | XP_001919793.          YFVIPGSNNGSSVS
NLNTSSN-----VNVP 629
gi | 292619730 | ref | XP_001919770.          NTNNQSNNN-----
-YDTINQ-----SNN- 821
gi | 189526282 | ref | XP_001341980.          -----
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gi | 292619718 | ref | XP_001919849.          YQSNPIKVKACPGG
YYVYELV-----KPLT 342
gi | 189526284 | ref | XP_700189.3 |          YQSNPIKVKACPGG
YYVYKLV-----KPVS 786
gi | 292619722 | ref | XP_001919836.          YPSNPIKVKACPGG
YYVYKLV-----KPVD 229
gi | 292619720 | ref | XP_002664066.          -----
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gi | 292619726 | ref | XP_001919821.          F-----
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gi | 292619745 | ref | XP_001341329.          YSTYNNNYNTCYNY
YYTQLNS-----SPSG 462
gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619753 | ref | XP_001341931.          NTNNQSNNN-----
-YDTINQ-----SNN- 403
gi | 292619747 | ref | XP_697240.4 |          GGSFFLMNYGDCASL
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gi | 292619739 | ref | XP_002664070.          -----
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SQLGQTWLAGYDTLDSANSFTIKVSNASELSSSSNT 11818
gi | 292619737 | ref | XP_002664069.          -----
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gi 119220569 ref NP_001007241.	-----
-----TLSLVN---DFIIRDITIL	314
gi 114661340 ref XP_001155840.	-----
-----TLSLVN---DFIIRDITIL	354
gi 50979234 ref NP_001003371.1	-----
-----TLSLAN---EFIIRDITIL	286
gi 115495209 ref NP_001069418.	-----
-----TLSLVN---DFIIRDITIL	311
gi 27229028 ref NP_080265.2	-----
-----TLSLAT---DFIIRDFRV	311
gi 19705557 ref NP_599245.1	-----
-----TLSLAT---DFIIRDFLV	307
gi 292619796 ref XP_001921135.	-----
-----YIVGTPGTEGLISVRIL	882
gi 292619783 ref XP_697381.4	-----
-----YIVGTPGTEGLISVRIL	885
gi 292619798 ref XP_696654.4	-----
-----YIVGTPGTEGLISVRIL	984
gi 292629831 ref XP_001346047.	-----
-----CIQGTPRLEGVISREKAL	1069
gi 292619785 ref XP_001920157.	-----
-----YIVGTPGTEGLISVRIL	871
gi 131888908 ref NP_001076476.	-----
-----YIVGTPGTEGLISVRIL	891
gi 189526326 ref XP_001920209.	-----
-----YIVGTPGTEGLISVRIL	862
gi 189526321 ref XP_001922875.	-----
-----YIVGTPGTEGLISVRIL	881
gi 292619792 ref XP_696966.4	-----
-----YIVGTPGTEGLISVRIL	1028
gi 292619701 ref XP_001344258.	-----
-----LILGESGTGPVISRTQFL	401
gi 189526377 ref XP_001334197.	-----
-----YIVGTSETTEGLISVRIL	885
gi 189526324 ref XP_001344696.	-----
-----YIVGTPGTEGLISVRIL	907
gi 292619789 ref XP_001344844.	-----
-----YIVGTPGTEGLISVRIL	889
gi 189526319 ref XP_001344566.	-----

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-----YIVGTPGTEGLISRVRL 873
gi | 189526375 | ref | XP_001334286. -----
-----YIVGTPGREGLISRVRL 890
gi | 189526379 | ref | XP_001921195. -----
-----YIVGTPGTEGLISRVRL 890
gi | 292610053 | ref | XP_002660620. -----
-----LKPAVCNSAYCADPCYNY 792
gi | 292614050 | ref | XP_002662118. -----
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gi | 292619755 | ref | XP_002664077. CSLGYCAG-----
TGIFYTLISGAGYSTNPLSDDGSSPVIPLLSPFQFF 750
gi | 292619749 | ref | XP_001341823. -----
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gi | 292619743 | ref | XP_696708.4 | -----
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gi | 292619724 | ref | XP_002664067. -----
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gi | 292619728 | ref | XP_001919793. GRWVFRVDGGLPTA
PQTFYPPFGSAAGDSINPASDDGSSSVIPLLSLFMFF 679
gi | 292619730 | ref | XP_001919770. ---YNA-----
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gi | 189526282 | ref | XP_001341980. -----
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gi | 292619718 | ref | XP_001919849. CSLGYCAG-----
TGIFYTLISGAGYSTNPLSDDGSSPVIPLLSPFQFF 386
gi | 189526284 | ref | XP_700189.3 | CSLGYCAG-----
SGNIYTFGSEGGDSINPAVDDGSSSVIPLLSPFQFF 830
gi | 292619722 | ref | XP_001919836. CKLGYCAG-----
SGIFYTFGSEGGDSINPAVDDGSSSVIPLLSPFQFF 273
gi | 292619720 | ref | XP_002664066. -----
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gi | 292619726 | ref | XP_001919821. -----
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gi | 292619745 | ref | XP_001341329. LMMRNSQCG-----
-----LKQLNILAWEDYGYWEILRRSRLRR- 497
gi | 125832061 | ref | XP_001342081. -----
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gi | 292619732 | ref | XP_001922656. -----
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gi | 292619753 | ref | XP_001341931. ---YNA-----
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gi | 292619747 | ref | XP_697240.4 | VNVPGRWAFNAWAAP

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AIFYPFGSTVGDTEHHVNYDENSYPVALSTPFTFF 1147
gi | 292619739 | ref | XP_002664070. -----

gi | 292626791 | ref | XP_700475.4 | NVNGRSTFPVDGST
KVPSNFLPSDDGQAVNSTANDGSSDAISLQQPFKFF 11868
gi | 292619737 | ref | XP_002664069. -----

gi | 119220569 | ref | NP_001007241. NINFQCAYPLDMKV
SLQAALQPIVSSLN-VSVDGNGEFIVRMALFQDQNY 363
gi | 114661340 | ref | XP_001155840. NINFQCAYPLDMKV
SLQAALQPIVSSLN-VSVDGNGEFIVRMALFQDQNY 403
gi | 50979234 | ref | NP_001003371.1 NINFQCAYPLDMKV
SLQTALHPIVSSLN-ISVDGEGEFTVRMALFQDQSY 335
gi | 115495209 | ref | NP_001069418. SINFQCAYPLDMKV
SLQMALQPIVSSLN-ITVDGEGEFTVRMALFQDQDY 360
gi | 27229028 | ref | NP_080265.2 | NVNFQCAYPLDMSV
SLETALQPIVSSLT-VDVDGAGEFNVKMALFQDQSY 360
gi | 19705557 | ref | NP_599245.1 | NVNFQCAYPLDMNV
SLQTALQPIVSSLN-VDVGGAGEFTVTMALFQDQSY 356
gi | 292619796 | ref | XP_001921135. KLSFSCVYPQTQTL
SMNVEINPLQSTVHKVLPSPGEGVYQVRMVPYVDEEF 932
gi | 292619783 | ref | XP_697381.4 | KLSFSCVYPQTQTL
SMNAEINPVQSTVHKVLPSPGEGVYQVRMVPYVDEEF 935
gi | 292619798 | ref | XP_696654.4 | KLSFSCVYPQTQTLS
MNVEINPLQSTVHKVLPSPGEGVYQVRMVPYVDEEF 1034
gi | 292629831 | ref | XP_001346047. KLSFSCAYPQAQALS
MNMEINPLESIVHKSLPAGEGRYRVRMIPYQDDEF 1119
gi | 292619785 | ref | XP_001920157. KLSFSCVYPQTQTL
SMNVEINPVQSTVHKVLPSPGEGVYQVRMVPYVDEEF 921
gi | 131888908 | ref | NP_001076476. KLSFSCVYPQTQTL
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gi | 189526326 | ref | XP_001920209. KLSFSCVYPQTQTL
SMNVEINPLQSTVHKVLPSPGEGVYQVRMVPYVDEEF 912
gi | 189526321 | ref | XP_001922875. KLSFSCVYPQTQTL
SMNVEINPLQSTVHKVLPSPGEGVYQVRMVPYVDEEF 931
gi | 292619792 | ref | XP_696966.4 | KLSFSCVYPQTQTLS
MNVEINPLQSTVHKVLPSPGKGVYQVRMVPYVDEEF 1078
gi | 292619701 | ref | XP_001344258. KIHFCVYSLEQTF
YMN--IDPQGSTVQGIVPAVQETYKVRMIPYKDAEF 449

gi | 189526377 | ref | XP_001334197. KLSFSCVYPQTQTL
SMNVEINPLQSTVHKVLPSPGEGVYHVRMVPYVDEEF 935
gi | 189526324 | ref | XP_001344696. KLSFSCVYPQTQTL
SMNAEINPLQSTLYKVLPSGEGVYQVWMPYVDEEF 957
gi | 292619789 | ref | XP_001344844. KLSFSCVYPQTQTL
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gi | 189526319 | ref | XP_001344566. KLSFSCVYPQTQTL
SMNVEINPLQSNVHKVLPSPGEGVYQVRMVPYVDEEF 923
gi | 189526375 | ref | XP_001334286. KLSFSCVYPQTQTL
SMNVEINPLQSTVHKVLPSPGEGVYQVRMVPYVDEEF 940
gi | 189526379 | ref | XP_001921195. KLSFSCVYPQTQTL
SMNAEINPVQSTLYKVLPSGEGVYQVRMVPYVDEEF 940
gi | 292610053 | ref | XP_002660620. TVLSDSWRANSSQP
SKSVNMCDWSVSWSGWYR----LFINLSAQIPDTC 838
gi | 292614050 | ref | XP_002662118. -----

gi | 292619755 | ref | XP_002664077. SRTYQQIYVNNNGF
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gi | 292619749 | ref | XP_001341823. -----

gi | 292619743 | ref | XP_696708.4 | -----

gi | 292619724 | ref | XP_002664067. -----

gi | 292619728 | ref | XP_001919793. GRTYKQIYVNNNGH
LTFSQASVQYAPGSFPAYGSQDIIAGLWTNLDNRAS 729
gi | 292619730 | ref | XP_001919770. -----

gi | 189526282 | ref | XP_001341980. -----

gi | 292619718 | ref | XP_001919849. SRTYQQIYVNNNGF
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gi | 189526284 | ref | XP_700189.3 | GRTYQQIYVNNNGF
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gi | 292619722 | ref | XP_001919836. GLTYQQIYVNNNGF
LTFSQASSQYAPYLFPAYGSQDIIAGLWTDLDNSKR 323
gi | 292619720 | ref | XP_002664066. -----

gi | 292619726 | ref | XP_001919821. -----

gi | 292619745 | ref | XP_001341329. -----

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gi | 125832061 | ref | XP_001342081.          -----
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gi | 292619732 | ref | XP_001922656.          -----
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gi | 292619739 | ref | XP_002664070.          -----
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gi | 292626791 | ref | XP_700475.4 |          GRTYSQIYMNSNGY
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gi | 292619737 | ref | XP_002664069.          -----
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gi | 114661340 | ref | XP_001155840.          TNPYEGDAVELSVE
SVLYVGAILEQGDTSRFNLVLRNCYATPTEDKADLV 453
gi | 50979234 | ref | NP_001003371.1          ISPYEGAAAVLAVE
SMLYVGAILEKGDTSRFNLLLRNCYATPTKDKTDPV 385
gi | 115495209 | ref | NP_001069418.          TSPYEGTAVMLSVE
SMLYVGTILERGDTSRFNLVLRNCYATPTEDKADLV 410
gi | 27229028 | ref | NP_080265.2 |          TNPYEGAEVLLPVE
SILYVGVLLNRGDTSRFKLLLTNCYATPSEDRHDPV 410
gi | 19705557 | ref | NP_599245.1 |          THPYEGSKVLLPVE
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gi | 292619796 | ref | XP_001921135.          TQPFTG-RVDAELD
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gi | 292619783 | ref | XP_697381.4 |          TQPFTG-RVDAELD
QEMHVEVGVEGVDSRQFALVMDTCWATPVNDPDYSL 984
gi | 292619798 | ref | XP_696654.4 |          TQPFTG-RVDAELDQ
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gi | 292629831 | ref | XP_001346047.          TQPFNG-SVDAELDQ
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gi | 292619785 | ref | XP_001920157.          TQPFTG-RVDAELN
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gi | 131888908 | ref | NP_001076476.          TQPFTG-RVDAELD
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gi | 189526326 | ref | XP_001920209.          TQPFTG-RVDAELD

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 gi | 189526321 | ref | XP_001922875. TQPFTG-RVDAELD
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 gi | 292619792 | ref | XP_696966.4 | TQPFTG-RVDAELDQ
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 gi | 292619701 | ref | XP_001344258. SQPFGS-MVNISLN
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 gi | 189526377 | ref | XP_001334197. TQPFTG-RVDAELD
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 gi | 189526324 | ref | XP_001344696. TQPFTG-REDAELDQ
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 gi | 292619789 | ref | XP_001344844. TQPFTG-RVDAELD
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 gi | 189526319 | ref | XP_001344566. TQPFTG-RVDAELD
 QEMHVEVGVEGVDSRQFALVMDKWCWATPVNDPDYSL 972
 gi | 189526375 | ref | XP_001334286. TQPFTG-RVDAELD
 QEMHVEVGVEGVDSRQFALVMDTCWATPVNDPDYSL 989
 gi | 189526379 | ref | XP_001921195. TQPFTG-REDAELD
 QEMHVEVGVEGVDSRQFALVMDTCWATPVNDPDYSL 989
 gi | 292610053 | ref | XP_002660620. VAVYSC-GTLAPLW
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 gi | 292614050 | ref | XP_002662118. -----

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 gi | 292619743 | ref | XP_696708.4 | -----

 gi | 292619724 | ref | XP_002664067. -----

 gi | 292619728 | ref | XP_001919793. GVISYHQYTNGSVL
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 gi | 292619730 | ref | XP_001919770. -----

 gi | 189526282 | ref | XP_001341980. -----

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 gi | 189526284 | ref | XP_700189.3 | GVVSYHQYTNGSVL
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 gi | 292619722 | ref | XP_001919836. GVVSYHQYTNGSVL

TRATQDINNYFPNLNFTASWVFWATWNKMSYSLIS 373
 gi | 292619720 | ref | XP_002664066. -----

 gi | 292619726 | ref | XP_001919821. -----

 gi | 292619745 | ref | XP_001341329. -----

 gi | 125832061 | ref | XP_001342081. -----

 gi | 292619732 | ref | XP_001922656. -----

 gi | 292619753 | ref | XP_001341931. -----

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 gi | 292619739 | ref | XP_002664070. -----

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 gi | 292619737 | ref | XP_002664069. -----

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 gi | 114661340 | ref | XP_001155840. KYFIIRNSCSNQRD
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 gi | 50979234 | ref | NP_001003371.1 KYFIIRNSCPNQYD
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 gi | 115495209 | ref | NP_001069418. KYFIIRNSCPNQRD
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 gi | 27229028 | ref | NP_080265.2 | KYFIIKNRCPNQRD
 STINVRENGVSSESRSFSVQMFMFAGNYDLVFLHCEV 460
 gi | 19705557 | ref | NP_599245.1 | KYFIIRNRCPNQRD
 STINVEENGVSSSESRSFSVQMFMFAGNYDLVFLHCEV 456
 gi | 292619796 | ref | XP_001921135. RWDLITEGCPNPEDD
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 gi | 292619783 | ref | XP_697381.4 | RWDLITEGCPNPKDD
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 gi | 292619798 | ref | XP_696654.4 | RWDLITEGCPNPEDD
 TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV 1133

gi 292629831 ref XP_001346047.	RWDLIAHECPNPADE
TVDLLQNGVSMSSRFSFRMFVFNANSSRLYLHCAV	1218
gi 292619785 ref XP_001920157.	RWDLITDECPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1020
gi 131888908 ref NP_001076476.	RWDLITEGCPNPMEG
TVKLLQNGISTSSRFSFRMFIFTANSTKLYLHCAV	1040
gi 189526326 ref XP_001920209.	RWDLIIEGCPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1011
gi 189526321 ref XP_001922875.	RWDLITEGCPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1030
gi 292619792 ref XP_696966.4	RWDLITEGCPNPEDD
TVKLLQNGISTSSRFSFRMFIFTANSTKLYLHCAV	1177
gi 292619701 ref XP_001344258.	FWDLIVDKCPNP-N
SQVKVLQNGVSISSRFSFNMSIFTENATEAYLYCTV	547
gi 189526377 ref XP_001334197.	QWDLIIEGCPNPKEG
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1034
gi 189526324 ref XP_001344696.	RWDLITDECPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1056
gi 292619789 ref XP_001344844.	RWDLITEGXXXXXXXX
XVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1038
gi 189526319 ref XP_001344566.	RWDLIIDECPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1022
gi 189526375 ref XP_001334286.	RWDLIIDECPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1039
gi 189526379 ref XP_001921195.	RWDLIIDECPNPEDD
TVKLLQNGVSTSSRFSFRMFIFTANSTKLYLHCAV	1039
gi 292610053 ref XP_002660620.	RVKACQGNYYVYEL
LRPTACFSAYCAESSSSWVLITAGIIAFAFLMFVIV	934
gi 292614050 ref XP_002662118.	-----

gi 292619755 ref XP_002664077.	TESSFQVVLISGGN
YSFILMNYGDIAETGHPVKAGYDTINSTNYFVIPGS	900
gi 292619749 ref XP_001341823.	-----

gi 292619743 ref XP_696708.4	-----

gi 292619724 ref XP_002664067.	-----

gi 292619728 ref XP_001919793.	TKTSFQVVLISGSN
YSFILINYGDIAATAHAVEAGFDTVNSTNYFVIPGS	829
gi 292619730 ref XP_001919770.	-----

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gi | 189526284 | ref | XP_700189.3 |          TETSFQVVLISGSN
YSFILMNYGDIAETGHPVEAGYDTIHSTNYFVIPGS 980
gi | 292619722 | ref | XP_001919836.          TETSFQVVLISGSN
YSFILMNYGDIAETGHPVEAGYDTIHSTNYFVIPGS 423
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gi | 292619737 | ref | XP_002664069.          -----
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gi | 114661340 | ref | XP_001155840.          HLCDSLNEQCQPSC
SRSQVRSEVPAIDLAR--VLDLGPITRRGAQSPGVM 551
gi | 50979234 | ref | NP_001003371.1          HLCDSLNEQCQPCC
SRSQQRSEIVALNPAR--VLDLGPITRRSSASVDIT 483
gi | 115495209 | ref | NP_001069418.          SLCDFIKEECQPSC
SRSQLRSEGVAIDPAR--VLDLGPITRKGAGSLGVM 508
gi | 27229028 | ref | NP_080265.2 |          YLCDSTTEQCQPSC
STNRLRSSRPAIDYNR--VLDLGPITKRSAQSSATS 508
gi | 19705557 | ref | NP_599245.1 |          YLCDSTTEQCQPSC

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STSRLRSSEPAIDLTR--VLDIGPITKKSVPDTS 504
 gi | 292619796 | ref | XP_001921135. HLCLSSEQCSTSCD
 SGEQRRERRALDLHDSASLSMGPLVWSGGNTDVQL 1081
 gi | 292619783 | ref | XP_697381.4 | HLCLSSEQCSTSCD
 SGEQRRERRALDLHDSASLSMGPLVWSGGNTDVQF 1084
 gi | 292619798 | ref | XP_696654.4 | HLCLSSEQCSTSCD
 SGEQRRERRALDLHDSASLSMGPLVWSGGNTDVQF 1183
 gi | 292629831 | ref | XP_001346047. HLCLS SNHCTPSCN
 S--ERRRERSLELQDSTSISMGPLMLSGRKT DHYF 1266
 gi | 292619785 | ref | XP_001920157. HLCLSSEQCSTSCD
 SGEQRRERRALDLHDSASLSMGPLVWSGGNTDVQL 1070
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 SGEQRRERRALDLHDSVSLSMGPLVWSGGNTDVQF 1090
 gi | 189526326 | ref | XP_001920209. HLCLLFSEQCSTSCD
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 gi | 189526321 | ref | XP_001922875. HLCLLSSGQCSTSCD
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 gi | 292619701 | ref | XP_001344258. HLCSLTNSNCSVDC
 GSGRIQREIRSVNLQDNSVSVGPLRIHSNVKDIDA 597
 gi | 189526377 | ref | XP_001334197. HLCLLSSGQCSTSCD
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 gi | 189526324 | ref | XP_001344696. HLCLSSEQCSTSCD
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 gi | 292619789 | ref | XP_001344844. HLCLSSEQCSTACS
 --EQRRERRALDLHDSTSLSLGPLVWSERSSDIQT 1086
 gi | 189526319 | ref | XP_001344566. HLCLHSSEQCSTSCD
 SGEPGKFDKI----- 1047
 gi | 189526375 | ref | XP_001334286. HLCLLSSGQCSTSCD
 SGEQRRERRALDLHDSASLSMGPLVWSGGNTDVQF 1089
 gi | 189526379 | ref | XP_001921195. HLCLSSEQCSTSCD
 SGEQRRERRALDLHDSASLSMGPLVWSGGNTDVQF 1089
 gi | 292610053 | ref | XP_002660620. MVFMVIRNRVTRS
 EEQTSKEPQPQHS AVEPPEIPYYMTLYPNSTCSEYN 984
 gi | 292614050 | ref | XP_002662118. -----

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 NVNVTGRWAFRVDSGPRNIILKNTVAGIQVFS SVL 949
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 gi | 292619743 | ref | XP_696708.4 | -----

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-----IFKRVVGLQVRFSSFV 364
gi | 292619728 | ref | XP_001919793.          TNGNSISDLRNTSS
NVNVPGRWVFRVDGGPKDSIVKSSVAGIPVRYKSVL 879
gi | 292619730 | ref | XP_001919770.          -----
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gi | 114661340 | ref | XP_001155840.          NGTPSTAG-----
FLVAWPMVLLTVLPWLF----- 577

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gi 27229028 ref NP_080265.2	KGTPHTTG-----
FLLAWPMFFLPVFLALLF-----	534
gi 19705557 ref NP_599245.1	NGTPRNTG-----
FLLAWPTFFLPVFLAWLF-----	530
gi 292619796 ref XP_001921135.	LPDQVTVS----EAS
CLFASLVLLFIPLMSFFTLS-----	1112
gi 292619783 ref XP_697381.4	LPDQVMVS----EAS
CLCASLVLLFIPLMSALTLS-----	1115
gi 292619798 ref XP_696654.4	LPDQVTVS----EAS
CLCASLVLLFIPLMSVLTLS-----	1214
gi 292629831 ref XP_001346047.	LCSQISGSQKKSEAS
CICASLMALLVPLISVFIIF-----	1301
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gi 131888908 ref NP_001076476.	LPDQVTVS----EAS
CLCASLVLLFIPLMSVFTLS-----	1121
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gi 189526321 ref XP_001922875.	LPDQVKVS----EAS
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gi 189526377 ref XP_001334197.	LPDQVKVS----EAS
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gi 189526324 ref XP_001344696.	LPDQVTVS----EAS
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gi 292619789 ref XP_001344844.	V-ERVQVS----RAS
GLCGSLVILLISLVNLLAYLNI-----	1118
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CLCASLVLLFIPLMSFFTLTY-----	1120
gi 189526379 ref XP_001921195.	LPDQVTVS----EAS
CLCASLVLLFIPLMSFFTLF-----	1120
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gi 292619743 ref XP_696708.4	-----

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gi 292619722 ref XP_001919836.	DLTQSGNVQFVLQR
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