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gi | 4557701 | ref | NP_000413.1 |      ...M T T S I R Q F T S S S I K G ... S S G L G G G S S R T S C R L S G G L G A G S C R L G S A G G L G S T L G G S S Y S C Y S F G G G G G G Y G S S F G G G V D G L L A G G E K A T M O N L N D R L A 96
gi | 114667170 | ref | XP_523650.2 | ...M T T T I R Q F T S S S I K G ... S S G L G G G S S R T S C R L S G G L G A G S C R L G S A G G L G S T L G G S S Y S C Y S F G G G G G G Y G S S F G G G V D G L L A G G E K A T M O N L N D R L A 96
gi | 7106335 | ref | NP_034793.1 | ...M T T T I R Q F T S S S I K G ... S S G L G G G S S R T S C R L S G S L G A G S C R L G S A S L G S A L G S N Y S S C Y S F G G G G G G Y G G N F G G V D G L L A G G E K A T M O N L N D R L A 96
gi | 47087085 | ref | NP_997710.1 | ...M T T T I R Q F T S S S I K G ... S S G L G G G S S R T S C R L S G S L G A G S C R L G S A S L G S A L G S N Y S S C Y S F G G G G G G Y G G N F G G V D G L L A G G E K A T M O N L N D R L A 96
gi | 57091509 | ref | XP_548100.1 | ...M T T T I R Q F T S S S I K G ... S S G L G G G S S R T S C R L S G S L G A G S C R L G S A G L G S V L G G S Y S C Y S C N F N G S G S A Y G G S F G G V D G L L A G G E K A T M O N L N D R L A 96
gi | 157427776 | ref | NP_001098792.1 | ...M T T T I R H F S S G S - I K G ... S S G L A G G S S R - S C R V S G S L G G G S C R L G S A G L G S L G G S S Y S C Y S F G G S Y G G G G Y V S G G Y G G G F G V D G L L V G G E K A T M O N L N D R L A 104
gi | 130504059 | ref | NP_001076351.1 | ...M M S S S S I R - M S S G G S S R ... L S V - G G G A G R V S G V R A G S V Y G G ... A G G S G V R I S S S S A R S Y S A G G G ... A F G G G A G A G F N L ... S D A I D V S T E K A T M O N L N D R L A 94
gi | 18858519 | ref | NP_571182.1 | ...M M S S S S I R - M S S G G S S R ... L S V - G G G A S R V S G V R A G S V Y G G ... A G G S G V R I S S S S A R S Y S A G G G ... A F G G G A G A G F N L ... S D A I D V T N E K A T M O N L N D R L A 94
gi | 131888757 | ref | NP_001076574.1 | ...M M S S S S I R - M S S G G S S R ... R F T G V R A G S V Y G G ... A G G S G V R I S S S S A R S Y S A G G G ... A F G G G A G A G F N L ... S D G I D S A N E K A T M O N L N D R L A 85
gi | 62955621 | ref | NP_001017824.1 | ...M S S S S T R T Y M S S G G S S R ... V S V S G G G A G R V T G M R A G S V Y G G ... A G G S G V R I S S S S L S R S Y S G S G ... T G Y G - A G F H L ... S D A I D V S A N E K A T M O N L N D R L A 91
gi | 51010971 | ref | NP_001003445.1 | ...M S S Y S R S S F K S G G S M S G G ... S R F S M S G S G G G G R V S G M Y A G S V Y G G ... A G G Y C T R I S S S A S A S R S A G G G G G ... F G G G A G F G G G A G G G F G G G F G G G ... A G D A F D V S A N D K A T M O N L N D R L A 115
gi | 189532165 | ref | XP_001342789.2 | ...M A S S Y S T R S V M S S G S ... S I R M S S S S S Q R V S S M R A G S V Y G G ... A G G S G V R I S R A T H S A ... G G F S M S G ... S A D N S S I I G N E K T I M O S L N D R L A 85
gi | 167234796 | ref | NP_001107814.1 | ...M A T T F S S G S F V S S R S M C ... S R L S S S G G G G R I S A M R S G S V Y G G ... A G G A G V R I S S A S R S M A A G S G G N ... F G F G G G F G S A G A G A G F G A G G G F G A A A G G G F W G I G A S G A A D S I I G N E K F T I M O S L N D R L A 126
gi | 47087241 | ref | NP_998688.1 | ...M T S F S S R S V S S G G F G G G S L R G A S L G G M S S S M M M G G S R I S M R A G S V Y G G ... A G G C G V R I S S A A G G G G A G F G F G G G ... A G G G G G F G F G G G A G G G F G ... G G D M L N V I V N E K A T M O N L N D R L A 119
gi | 50539834 | ref | NP_001002383.1 | M S C V T Q S F S R K S V S S S R P F S S ... Q S L T G G Y K K R I A V G R A P S Y T A G ... A G G S - V R V Y A Q S S R - ... G G F D M S S A L A G G ... D N G F G M V V N E K T I M O N L N D R L A 91
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gi | 4557701 | ref | NP_000413.1 |      ...S Y L D K V R A L E A N T E L E V K I R D W Y Q R A P G P -- A R D Y Q Y Y R T I E E L Q N K I L A T V D N A N I L L Q I D N A R L A A D D F R K F F E T Q A L R L S V E A D I N G L R R V L D E L T L A R A D L E M Q I E N L K E E L A Y L K K N H E E M N A L R G V G G - E I N V E M D A 243
gi | 114667170 | ref | XP_523650.2 | ...S Y L D K V R A L E A N T E L E V K I R D W Y Q R A P G P -- A R D Y Q Y Y R T I E E L Q N K I L A T V D N A N I L L Q I D N A R L A A D D F R K F F E T Q A L R L S V E A D I N G L R R V L D E L T L A R A D L E M Q I E N L K E E L A Y L K K N H E E M N A L R G V G G - E I N V E M D A 243
gi | 7106335 | ref | NP_034793.1 | ...S Y L D K V R A L E A N T E L E V K I R D W Y Q R A P G P -- A R D Y S A Y Y H T I E D L K N K I L V A T V D N A S I L L Q I D N A R L A A D D F R K F F E T Q A L R M S V E A D I N G L R R V L D E L T L A R A D L E M Q I E N L K E E L A Y L K K N H E E M N A L R G V G G - E I N V E M D A 243
gi | 47087085 | ref | NP_997710.1 | ...S Y L D K V R A L E A N T E L E V K I R D W Y Q R A P G P -- A R D Y S A Y Y Q T I E D L K N K I L V A T V D N A S I L L Q I D N A R L A A D D F R K F F E T Q A L R V S V E A D I N G L R R V L D E L T L S R A D L E M Q I E N L K E E L A Y L K K N H E E M N A L R G V G G - E I N V E M D A 243
gi | 57091509 | ref | XP_548100.1 | ...S Y L D K V R A L E A N T E L E V K I R D W Y Q R A P G P -- A R D Y S H Y Y Q T I E D L K N K I L A T V D N A N I L L Q I D N A R L A A D D F R K F F E T Q A L R V S V E A D I N G L R R V L D E L T L A R A D L E M Q I E N L K E E L A Y L K K N H E E M N A L R G V G G - E I N V E M D A 243
gi | 157427776 | ref | NP_001098792.1 | ...S Y L D K V R A L E A N T E L E V K I R D W Y Q R A P G P -- A P D Y S S Y F K T I E D L R N K I H A T V D N A N I L L Q I D N A R L A A D D F R K F F E T Q A L R V S V E A D I N G L R R V L D E L T L A R A D L E M Q I E N L K E E L A Y L K K N H E E M K A L R G V G G - E I N V E M D A 251
gi | 130504059 | ref | NP_001076351.1 | ...S Y L E K V R S L E K A N A D L E L K I R F L D S K A T P N -- A R D Y S A Y Y A T I S D L Q A K I L H A T G V N G G I Y L S I D N A K L A A D D F R V K Y E N E L S M R Q S V E A D I V G L R K V L D E L I M T R S D L E Q I E G L K E E L I F L K K N H E E L L A A R T Q M S G - Q V N V E V D A 241
gi | 18858519 | ref | NP_571182.1 | ...S Y L E K V R S L E K A N A D L E L K I R F L D S K A T P N -- A R D Y S A Y Y A T I S D L Q A K I L H A T G V N G G I Y L S I D N A K L A A D D F R V K Y E N E L S M R Q S V E A D I V G L R K V L D E L I M T R S D L E Q I E G L K E E L I F L K K N H E E L L A A R T Q M S G - Q V N V E V D A 241
gi | 131888757 | ref | NP_001076574.1 | ...S Y L E K V R I L E K A N A D L E L K I R F L D S K A T P N -- A R D Y S A Y Y A T I S D L Q A K I L H A T G V N G G I Y L S I D N A K L A A D D F R V K Y E N E L S M R H A V E A D I S G L R K V L D E L I M T R S D L E Q I E G L K E E L I F L K K N H E E L L A A R T Q M G G - Q V N V E V D A 232
gi | 62955621 | ref | NP_001017824.1 | ...S Y L E K V R T L E R A N A D L E L K I R F L D S K T A P S -- A R D Y S A Y Y A T I S D L Q V R I Q H A T G I N G G I Y L S I D N A K L A A D D F R V K Y E N E L S M R Q S V E A D I A G L R R V L D E L I M T R S D L E Q I E G L R E E L I F L K K N H E E L L A V R A R M T G - Q V N V E V D A 238
gi | 51010971 | ref | NP_001003445.1 | ...S Y L E K V R S L E K A N A D L E L K I R F L D S K T S P S -- A R D Y S A Y Y A T I S D L Q N K I Q D A T R I N G G I Y L S I D N A K L A A D D F R V K Y E N E L S M R Q S V E A D I A G L R R V L D E L I M T R S D L E M Q I E G L K E E L I F L K K N H E E L L A A R G Q M S G - Q V H V E V D A 262
gi | 189532165 | ref | XP_001342789.2 | ...T Y L A K V R A L E K A N A E L K I R F L D G K A S P K -- T R D Y S A Y Y V T I E D L O T K I M A A I H L K G L H L S I D N T S L A M N D F K F F E M E H V M R Q S V E A D I V G L R R V L D E L N M S R K D I T M Q I E G L K E E L V F L K K N H E E D L L A A R A Q M S G - Q V H V E V D A 232
gi | 167234796 | ref | NP_001107814.1 | ...S Y L D K V R S L E K A N A E L K I R E F L E N K I S P T G A A R N Y S A F E T V V S D L Q A K I L A A I Q L N T V H L S I D N S S L A A D D F R I K Y E N E L S M R Q S V E A D I A G L K N V L S D L N M G Q K D L N L Q T E A L T E E L A Y M K A N H Q E D L S T S R D Q M S G - Q V N V E V D A 275
gi | 47087241 | ref | NP_998688.1 | ...S Y L D K V R S L E K A N A D L E L K I R F L E S K T S P A -- A R D Y S A Y Q A T I K D L O D K I Q D A T R V N G G V Y L A V D N A K L A A D D F R V K Y E N E L T M R Q S V E A D I A G L K R L L D E L T L A R S D L E M Q I E G L K E E L I F L K K N H E E L A A M R S Q M S G - S V N V E V D A 266
gi | 50539834 | ref | NP_001002383.1 | ...S Y L E K V R S L E K A N A E L E R I R E W Y D K R T P V S -- R D Y S H Y Y V T I E D L R K K I S V A S Q D N A R I I L Q I D N A K L A A E D F R V K Y E N E L A L R L S V E A D I A G L R R V L D D L I M T R S D L E M Q I E G L K E E L V Y L K K N H A E E L A A L R A Q M S G - S V N V E V D A 238
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gi | 4557701 | ref | NP_000413.1 |      ...A P G V D L S R I L N E M R D Y E K M A E K N R K D A E D W F F S K T E E L N R E V A T N S E L V O S G K S E I S E L R R T M Q A L E I E L O S Q L S M K A S L E G N L A E T E N R Y C V O L S Q I O G L I G S V E E O L A O L R C E M E Q Q N E Y K I L L D V K T R L E Q E I A T Y R R L L E G E D A 393
gi | 114667170 | ref | XP_523650.2 | ...A P G V D L S R I L N E M R D Y E K M A E K N R K D A E D W F F S K T E E L N R E V A T N S E L V O S G K S E I S E L R R T M Q A L E I E L O S Q L S M K A S L E N S L E E T K G R Y C M O L S Q I O G L I G S V E E O L A O L R C E M E Q Q S E Y Q I L L D V K T R L E Q E I A T Y R R L L E G E D A 393
gi | 7106335 | ref | NP_034793.1 | ...A P G V D L S R I L S E M R D Y E K M A E K N R K D A E D W F F S K T E E L N R E V A T N S E L V O S G K S E I S E L R R T M Q A L E I E L O S Q L S M K A S L E G S L A E T E N R Y C V O L S Q I O G L I G S V E E O L A O L R C E M E Q Q N E Y K I L L D V K T R L E Q E I A T Y R R L L E G E D A 393
gi | 47087085 | ref | NP_997710.1 | ...A P G V D L S R I L S E M R D Y E K M A E K N R K D A E D W F F S K T E E L N R E V A T N S E L V O S G K S E I S E L R R T M Q A L E I E L O S Q L S M K A S L E G S L A E T E N R Y C V O L S Q I O G L I G S V E E O L A O L R C E M E Q Q N E Y K I L L D V K T R L E Q E I A T Y R R L L E G E D A 393
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gi | 157427776 | ref | NP_001098792.1 | ...A P O E D L T K I M A D I R E H Y E A V S A K N R K D L E S W F Q A K S E S L N K E V A V S T E T L O T S R S E I T E V K R T L Q S L E I E L O S Q L S M K A S L E G T L A D T Q A R Y T N M L N G Y Q F Q V S S L E E O L I O L R A D L E R Q G G E Y Q M L L D I K T R L E M E I A E Y R R L L D G E A T 391
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gi | 131888757 | ref | NP_001076574.1 | ...A P O E D L T K I A D I R E H Y E A V S A K Y Q K D F Q W F Q S K S E S L N K E V A A S T E T L O S S R S E F T E L K R T L Q S L E I E L O S Q L S M K A S L E G T L A D T Q A R Y A N M L N G Y Q L Q V S S L E E O L V H L R G D L E R Q R G E Y Q M L L D I K T R L E M E I A E Y R R L L D G E A T 382
gi | 62955621 | ref | NP_001017824.1 | ...A P O E D L T K I M A E I R E H Y E S V A A K N R K D L E A W F Q A K T E T L T K E V A V S T E T L O I S R S E I T E V K R T L Q S L E I E L O S Q L S M K A S L E G T L A D T Q A R Y A A M L S G Y R F Q V S S L E E O L V L R A D L E R Q S G E Y Q M L L D I K T R L E M E I A E Y R R L L D G E A T 388
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gi | 189532165 | ref | XP_001342789.2 | ...A P H Q D L T K I L A E I R E H Y E A V A A K N R L E Q W F K T K S E S L K Q E V V A S T E T L O T S R S E I N A V K S R L Q A L E I E L O S L L A K A S L E T L S D T K N R Y S M K L S G Y O H V T V L E Q I V O L R A D L E R Q R H D Y Q M L L D I K T R L E M E I A E Y R R L L D G E A T 382
gi | 167234796 | ref | NP_001107814.1 | ...A P O E D L T R V L A D I R E H Y E T V V S S Q R E L E G W Q Q S E L L K E V V A S T E T L O T S K T E V N S V S S V Q L E I E L O S L L A M S E M E G T L N D T N R Y S M O L S G Y A Q V S G M G E Q L V O L R A D L E R Q G G E Y Q M L L D I K T R L E M E I A E Y R R L L D A E A S 425
gi | 47087241 | ref | NP_998688.1 | ...A P O V D L N H V M A E I R E Y E N V A A K N R D L E N W F Q T K S E L T K E V A A S T E T L O V S K T E L T E L R R T L Q S L E I E L O S L K A S L E G T L A D T E A R F S R O L M H L O T V T N L E E Q I V O L R A D M D R Q G G E Y Q M L L D I K T R L E M E I A E Y R R L L D G G A S 416
gi | 50539834 | ref | NP_001002383.1 | ...A P O O D L A R I M E E M R Q O V E G I T E K N K R E M E A W Y K G F D E L N K O V S T R E D L S M E R N I N E L R R T L Q A L E I E L O S Q L S L K S A L E G T L G E T E S R Y S I Q N L Q O A V I N S L E Q L E T O M R M D I E R Q A S E Y K L L L D I K T R L E M E I A E Y R R L L D G E D I 388
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450

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gi|4557701|ref|NP_000413.1|      HLT-----QYKKEPVTTRQVRT-----IVEEVQDG-----KVISSREQVHQTTR----- 432
gi|114667170|ref|XP_523650.2|    HLSS-----QQASGQSYSSREGKAPAPAPPCSPSACFHGVGAGPFSSSLPALRSPCPGVGLALRPLLSSSLSHSLHLLLVLFEPSPDPAHPGAGELIQLPPELLELSCLYHSLLPISWPHLLKAGVRTLLSWRSSQLSP 529
gi|7106335|ref|NP_034793.1|      HLT-----QYKPKKPVTTTRQVRT-----IVEEVQDG-----KVISSREQVHQTTR----- 433
gi|47087085|ref|NP_997710.1|     HLT-----QYKPKKPVTTTRQVRT-----IVEEVQDG-----KVISSREQVHQTTR----- 433
gi|57091509|ref|XP_548100.1|     HLT-----QYKPKKPVTTTRQVRT-----IVEEVQDG-----KVISSREQVHQTTR----- 433
gi|157427776|ref|NP_001098792.1| HLT-----QYKPKKPVTTTRQVRT-----IVEEVQDG-----KVISSREQVHQTTR----- 441
gi|130504059|ref|NP_001076351.1| -----IVSTSSS-----TTRKVVTT-----IVEEVVDG-----KVVSSSSKANTEIKTT----- 429
gi|18858519|ref|NP_571182.1|    -----IVSTSSS-----TTRKVVTT-----IVEEVVDG-----KVVSSSSKANTEIKTT----- 429
gi|131888757|ref|NP_001076574.1| -----IVSTSSS-----TTRKVVTT-----IVEEVVDG-----KVVSSSSKANTEIKTT----- 423
gi|62955621|ref|NP_001017824.1| -----IVSTSSS-----TTRKVVTT-----IVEEVVDG-----KVVSSSSQSSSEVVSQKH----- 430
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gi|189532165|ref|XP_001342789.2| -----IVSTSSS-----TTRKVVTT-----IVEEVVDG-----KVISS-TOAVTEEK----- 406
gi|167234796|ref|NP_001107814.1| GSLAI-----SSKSCSSSTSSSTSTTRKTAVIT-----IVEEVVDG-----KVVSSSSSTSLVK----- 473
gi|47087241|ref|NP_998688.1|    SMISLGG-----GGGGSSSISSTSSSTTKITVIT-----IVEEDVDG-----QVSSSSKK----- 463
gi|50539834|ref|NP_001002383.1| QR-----QIKVVEVVAPEKPPVVTTRVRT-----IVEEVVDG-----KVVSRTEEDVDVEVMKK----- 438
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gi|7106335|ref|NP_034793.1|      ----- 433
gi|47087085|ref|NP_997710.1|     ----- 433
gi|57091509|ref|XP_548100.1|     ----- 433
gi|157427776|ref|NP_001098792.1| ----- 441
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gi|18858519|ref|NP_571182.1|    ----- 429
gi|131888757|ref|NP_001076574.1| ----- 423
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gi|51010971|ref|NP_001003445.1| ----- 466
gi|189532165|ref|XP_001342789.2| ----- 406
gi|167234796|ref|NP_001107814.1| ----- 473
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