

QUERY 1 10 20 30 40
UniRef90_U5LG99 K S G V S R L V A V K H A P E E L K E E L L C V V R N G G R V D V I V E H P V
UniRef90_R5HJN7 F E R T V A C S H S P D D K T E E E E L N L L V D N H G G V V K D V K V I E H P V
UniRef90_B7GIR5 Q S A C Y Q R V F V K V I H T A P D D Q T V G E E L S L T I V D D N G G V V K D V F V I E H P V
UniRef90_UPI0003FE9EAF N Q K F T R I V V Q H T P A Q T A D E L L Y T L V D Y G V T I R N D V M V E H P L
UniRef90_F3ZVZ8 K Q K V S R L V A C S H S P E Q T E D E L C T I V D S L G G K V D V I I E H K V
UniRef90_J8TFU6 F E R T I A C Y H T P D E A E A E L N L L V D H G G L T V K D V K I E H P V
UniRef90_G9QQ48 R I F K V C H S P N E K T E E E L N L L V D L G G C V K N V M V N E H P V
UniRef90_D4KXC4 E R T I A C V H S P E K T E E E L N L L V D H G V T V K D V M V I E H P V
UniRef90_UPI0004790F10 S Q N C Q R I V K V C H T D D Q A E E E E L S T I V D F G G I V L D V M V N N E H R T Y
UniRef90_R5NX52 K R V F A V K H G P D R T E E E E L N L L V D N G G K V L D V V I V E H P Y
UniRef90_Q8RCB9 T G L V R R V A V Q H G P D G M E A E E L N A M V D Q G C T V V D V I V E H P L
UniRef90_R6UEL6 S S I Y E R T I A C N H S P D R T E E E E L T I L V D H G V T V R D V K I E H P L
UniRef90_N0B4G6 R Y R R V I A C K H S A E G D T E E E L M T I V D D N G G G A I V L D V S R V E H P V
UniRef90_UPI0004716860 S G V T R L I K T Y H S L A E G T A K E E L E I I V D D N G G G A I V L D V V I E H P V
UniRef90_R5JEX8 V E K T I A C K H T P E R T E E E E L N L L V D H G I L V K D V R I E H K V
UniRef90_A6CUE9 K N R Y K K V I A S K H Y F D R T E E E E L N L L V D N G G K V L D V I V E H P Y
UniRef90_D9TRQ7 K G K Y T K V I A S K H Y F D R T E E E E L N L L V D N G G K V L D V I V E H P L
UniRef90_I3VYP9 K Q P V Q R I I A C K H E P E K T E E E E L N L L V D F G V T V K D V T I E H P V
UniRef90_Q65GN0 Q E N F S R L I A C K R T S E Q T A E E E L N L L V D H G G V T V R D V I V E H P L
UniRef90_UPI000289A883 A V T A K L A C R H G R D N L A E E L A T I I D H G G K V L D V I V E H P L
UniRef90_A1HQE1 S R L F K V C H T N E Q T E E E L V T I V D L G G G T V A D V M V N H R V
UniRef90_R7PLN4 Q T E T R V F K V Y H A D E D T E K E L T T I V D D L G G T I V D V F V Y E H P V
UniRef90_R5YGX1 Q Q T V E R T F L P C I H T S E Q T E E L M T I V D C G G T V K N V M V E H P I
UniRef90_A3FL8 S N T R R V Y K V R H T D L Q I E E E L T T I V D D L G G S V Q N V Y V E H K V
UniRef90_UPI00047AB621 K K A R R L V A C C H D P S R T E E E E L L L L V D Y N G G E I V D V I V E H P L
UniRef90_UPI00035EEB9F K K G I F R K I A C C H G V E T E E E E L H T L V T N G G E I V D V I V E H P L
UniRef90_F3Y8D2 Q N G L L R R J A C T H S A G E T R D E L D A M V D C G C T V V D V I V E H P V
UniRef90_R5DE16 R V S R T I A C K H A G E S T M K E E L L L L V D H G V Q V K D V S V E H P I
UniRef90_UPI0003492898 A F E R I V C Q H A G E S T M K E E L N I L V D H G V Q V K D V V V E H P I
UniRef90_L5N9S4 K T A I E K T I V C N H P P E R V E E E L N L L V E H G V T V K D V K I E H P V
UniRef90_UPI00037A6AE8 N K Y L Q G Q L A S S A A A E T K T E L Y A V V D N G G E V V D V I V E H P I
UniRef90_F4BR62 P G V Q K V F K V C H T D A E Q T E D E L N L I V D L G G E V E D V F I Y H P V
UniRef90_R5KFB9 G V T K I F K C R H S D D Q A E D E L N C I V D Q G G T V L N V F V E H K V
UniRef90_R5VJ13 Y K R I F V C R H S P E E S Q E E L N I L V D H G I T V K D V M I E H P V
UniRef90_D6XYL8 R V S R I F K V F H T S K Q I V D E L C T I V D D L G G T V E D V F V E H K I
UniRef90_R6GZH9 R V S R I F K V F H T S K Q I V D E L C T I V D D L G G T V E D V F V E H K I
UniRef90_M3IG72 R R V I A C Q H T K R D A E K E L N T L V D Y G V S V L D V I V E H P L
UniRef90_E1QWIS A C R T F K V V R H S G D R M A D E L R L V V D L G G T V E D V V V E H R T
UniRef90_UPI000471C4AF Q Q T F E K T I V C S H S T D R M A D E L N A L V D H G V T V K D V K I E H P V
UniRef90_R5P3P7 S G A T I V V K V N H T D E Q T E D E L N T I V D D L G G A V I D V V V E H K V
UniRef90_C6LGW4 R N M C R R T V A V K H T D A Q M A D E L Y T L V D A G A R V I D V V V E H D V
UniRef90_R8FD34 T G E R R V I A V K H T K A Q A A E E L N L L V D H G V S I L D V I V E D H P I
UniRef90_R5RAX1 R V S R T V K V F H S N E E I E E E L Y S I V D L G G T A E D V F V E H K V
UniRef90_UPI000474E6E0 V T R V F K V H H T E Q T E E E L N L L V D Y G G I V Q D V F V I Y H K V
UniRef90_UPI0004059763 V E R I I A C C H S P E Q A K E E E L Y L L V D H G I L V K D V K I E H P V
UniRef90_R9C8F1 Y E R I V A C N H S P E Q A K E E E L Y L L V D H G I L V K D V K I E H P V
UniRef90_W7ZZR5 Q R K R L I A V Q H A P E D T R D E L Y T F V D N S G L T V I D V I V E H P I
UniRef90_UPI000473862E S S Q Q R I I A C H H A P E D T E K E L F L I V D H G V C I K D V I I E H P V
UniRef90_I7LFW8 N E S Y S R V I A V K H P K D I E E E L K T I I K L G G K V L D V T I E H K V
UniRef90_V2Y3U9 N T G N R R L F K V R H D D E D I E E E L T C I V D L G G T I L D V F V E H R V
UniRef90_R6LZ14 S K C Q R E F K V K H G Y D R T E E E L T I I V D Y G G V V K N V S I S H T V
UniRef90_R9IPB6 Q Q E H V R T F K V H H T N D E T E D E L N A I V D F G G T V L D V M V N H R A
UniRef90_UPI00047AECD L K R R I A C Q H L P E E T E Q E E L M I L V D H G V T V K D V M V E H P I
UniRef90_A0A024PPF2 L E R I V V C K H T P K Q T Q E E E L N I F V D H G V K V K D V I V E H A V
UniRef90_K6DZ85 F E R T I A C S H T P R D T E K E L N L L V D H G V V K D V K I E H A V
UniRef90_R5HSQ3 K Y S R V F K V Y H T D D Q V E E E L S A I V D A G G Q I R D V F V I Y H K V
UniRef90_UPI000302ECD F R Y E R T I A C C H N K E Q T E E E L N I L V D H G V Y V K D V I V E H P I
UniRef90_E0RJQ0 S R I I V C K H R P E Q T E E E L K L I V D Y G V S V Q D V I V E H P V
UniRef90_UPI0004286F92 Y I Q V I A S I H T P G Q T K D E L F T I V D H G V T V K D V M V E H P I
UniRef90_UPI000376D0F0 Q R F E R I V A V Q H G P E R T E E E L N L L V D L G V T V Q D V I V E H P V
UniRef90_UPI0004788A36 N P A F E R T I P S F H K P E D T E K E L N L L V D L G V L V K D V K I E H A I
UniRef90_R7GLX2 T I A V S F H N N D Q L E E E L N T I V D L G G K V E D V I V E H P L
UniRef90_U2RMB2 G L V R Q V A V Q H D A A G M G E E L N A M V D Q G C T V L D V I V E H P I
UniRef90_UPI000372E72E V E K I I A C R H N R S Q A E Q E E L N I V D H G V V K D V T V E H P V
UniRef90_U2CP23 K N R V K R V I A V S H R S D E I E D E L T C I V K F G G S I E N V I E H P L
UniRef90_R7ADD7 E R L F K M C H T T E Q T R E E E L N T I V D L G G E V L D V M V N H R V
UniRef90_UPI00040B7AC9 N K I R K V I I C H H T T E Q T R E E E L N T I V D L G G E V L D V M V N H P V
UniRef90_B5CMG3 S V Q R T F K V K H T D A Q V E E E L Y S I V D H G V S V K N V M V N H R V
UniRef90_Q9KDJ7 K C E R I F K V R H T A E E T E K E L Q I I V D N G G R I K D V F V E H K V
UniRef90_R5K9W2 G V E R T V A C Q H T P E R T E E E L H L L V D H G I T V K D V K I E H S I
UniRef90_UPI00040FDBC1 V E R T V A C V H A P E E M E R E L N A I V D A G G E V V D V I V E H P V
UniRef90_G9YU74 K R K C I R V F C V S H S T K D Q D E L Q T I V D Y G G H V L D V A V D H P L
UniRef90_R5IK34 T R C N R C F M V S H S T Q Q I A D E L N T I V D L G G K V L D V I I T H P I
UniRef90_U2ARX6 G T L R T I A V C H T G E Q T G T E L N T C V D N G C T V L D V M V E H P V
UniRef90_UPI0003B520F0 S G L R K T I A V D H T A E Q M M A E E L Y T I I D L G G T I L D V I V E H P I
UniRef90_U5F6Z9 Q T G Y K E M I A V K H R R D S I E E E E M N M I V D L G G H I V D V V V E H P V
UniRef90_M2Q5U8 S G V R R I F K C R H T D E Q A E D E L T C I V D L G G I V E N V F V E H K I
UniRef90_R7C8B9 S T S V K K V I A V R H D S N Q L E E E L K T V I A L G G R V L D V T S E H K I
UniRef90_A0A017RT07 T T V S A K F A C C H D S K R I E T E L A V I I D N G G C V L D V S V E H P V
UniRef90_T0IW77 T T V S A K F A C C H D S K R I E T E L A V I I D N G G C V L D V S V E H P V
UniRef90_X8GYP1 S L F E R V I A V Q H A P E Q S E E E L L L I V D Y G V G V K D V I V E H P L
UniRef90_S9UE64 Q K A I S R V F K V Q H T D E A Q M E E E L L Y E I V D L G G C V E N V M V N H R V
UniRef90_R6PI63 S I K A T I V C R H D A A M E K E L Q A V V D N G G S V L D V I V E H P V
UniRef90_C9KMU9 D A L T R V F H V S H T D E Q M E D E L N T I V D M G G R V L D V Y V E H A V
UniRef90_R7R6U4 Q Q A A E K I V A C I H G P D Q T K E E L Y L L V D H G V T V K D V R I E H P V
UniRef90_E3E043 K R V I A C I H Q P D Q T K E E L Y L L V D H G V T V K D V R I E H P V
UniRef90_UPI0003FA5107 F E K K I V C I H N A E E T E D E L L T I V D C G G T V K N V I V E H P V
UniRef90_UPI0002E46FBD S Q A T T Y T I A V K H S K D A L A D E L L Y T I V D L G G S V V D V I V D H P I
UniRef90_E7GAQ4 N K C S R V F K V Y H R D D E I I D E L N T I V D L G A K V L D V F V K H K V
UniRef90_B1CBK0 N K C S R V F K V Y H R D D E I I D E L N T I V D L G A K V L D V F V K H K V

QUERY
UniRef90_U5LG99
UniRef90_R5HJN7
UniRef90_B7GIR5
UniRef90_UPI0003FE9EAF
UniRef90_F3ZVZ8
UniRef90_J8TFU6
UniRef90_G9QQ48
UniRef90_D4KXC4
UniRef90_UPI0004790F10
UniRef90_R5NX52
UniRef90_Q8RCB6
UniRef90_R6UEL9
UniRef90_NOB4G6
UniRef90_UPI0004716860
UniRef90_R5JEX8
UniRef90_A6CUE9
UniRef90_D9TRQ7
UniRef90_I3VYP9
UniRef90_Q65GN0
UniRef90_UPI000289A883
UniRef90_A1HQE1
UniRef90_R7PLN4
UniRef90_R5YGX1
UniRef90_A3IFL8
UniRef90_UPI00047AB621
UniRef90_UPI00035EEB9F
UniRef90_F3Y8D2
UniRef90_R5DE16
UniRef90_UPI0003492898
UniRef90_L5N9S4
UniRef90_UPI00037A6AE8
UniRef90_F4BR62
UniRef90_R5KFB9
UniRef90_R5VJ13
UniRef90_D6XYL8
UniRef90_R6GZH9
UniRef90_M3IG72
UniRef90_E1QWI5
UniRef90_UPI000471C4AF
UniRef90_R5P3P7
UniRef90_C6LGW4
UniRef90_K8FD34
UniRef90_R5RAX1
UniRef90_F7V379
UniRef90_UPI000474E6E0
UniRef90_UPI0004059763
UniRef90_R9C8F1
UniRef90_W7ZZR5
UniRef90_UPI000473862E
UniRef90_I7LFW8
UniRef90_V2Y3U9
UniRef90_R6LZ14
UniRef90_R9IPB6
UniRef90_UPI00047AECD
UniRef90_A0A024PPF2
UniRef90_K6DZ85
UniRef90_R5HSQ3
UniRef90_UPI000302ECDF
UniRef90_E0RJQ0
UniRef90_UPI0004286F92
UniRef90_UPI000376D0F0
UniRef90_UPI0004788A36
UniRef90_R7GLX2
UniRef90_U2RMB2
UniRef90_UPI000372E72E
UniRef90_U2CP23
UniRef90_R7ADD7
UniRef90_UPI00040B7AC9
UniRef90_B5CMG3
UniRef90_Q9KDJ7
UniRef90_R5K9W2
UniRef90_UPI00040FDBC1
UniRef90_G9YU74
UniRef90_R5IK34
UniRef90_U2ARX6
UniRef90_UPI0003B520F0
UniRef90_U5F6Z9
UniRef90_M2Q5U8
UniRef90_R7C8B9
UniRef90_A0A017RT07
UniRef90_T0IW77
UniRef90_X8GYP1
UniRef90_S9UE64
UniRef90_R6PI63
UniRef90_C9KMU9
UniRef90_R7R6U4
UniRef90_E3E043
UniRef90_UPI0003FA5107
UniRef90_UPI0002E46FBD
UniRef90_E7GAQ4
UniRef90_B1CBK0

Y G E L T R G I D V S S E E V L K F L E K I M E M A K T E P L L T S G G G V H H L L
Y G D V L T R A D S L M V I S N T R R R R R E V V V K Q F L E K I M E M A K T E P L L T S G G G V H H L L
Y G D L T R A D S L M M V I S N T N R R R E D V V V K D E F L E K I M E M A K T E P L L T S G G G V H H L L
Y G D L T R A S L M I R S N S R R R E V V D D F F L A K E I K N K G A S S E P L L T S G G G V H H L L
Y G E L T R G L L L M L S S S N S Q D D I V D D F F M H K L K N S D T K N G A V E P L L T S G G G V H H L L
Y G D L T A S S I L M V I S N R R R R K E V V V E Q Q F M A R R L R R E T N N A A T F L L S E N L T T D G G V H H L L
Y G K L T D A S P L N I K S S R R Y D V V Q Q F M M D D L K R A T G N N A S T A P L L S E N L T T D G G V H H L L
Y G D L T A S S V M V I K S S R R Y D V V R K Q F V E D I K K Q K A S A S L L S S N T T T S G G G V H H L L
Y G K V T A P L N I K S S R R Y D V V R K Q F V E D I K K Q K A S A S L L S S N T T T S G G G V H H L L
Y G E L T K G L L L M L S S S R R Y D V V A Q K F M E V I C K K S E K D A A Q P L L S S N T T T S G G G V H H L L
Y G Q L T G P L Q L S S S R Y D V V A Q K F M E V I C K R C K K S A D A A Q P L L S S N T T T S G G G V H H L L
Y G D L T A S I M V I A S N R R K D V V K H F M D K I A R K M E T K A T Y L S S E L L T T N G G V H H L L
Y G E F T K A R L N I K S S R R P S K D D I K N V F M E T I M K E T R E G K A S P L L S E L L T T N G G V H H L L
Y G K M T A P L N I K N R K D D I K N V F M E T I M K E T R E G K A S P L L S E L L T T N G G V H H L L
Y G D L T A S I M V I S N R R R Q Q V V K Q F M D K I A R K M E T K A T Y L S S E L L T T N G G V H H L L
Y G E L T K G L L L M L S S S R R Y D V V E R F M E N C I K K N D G K A T L L L S S S Q L L T T N G G V H H L L
Y G E I K G L L L M L S S S R R Y D V V E R F M E N C I K K N D G K A T L L L S S S Q L L T T N G G V H H L L
Y G D L T A S I R V I S T R R K E V V A R D F V K E K I V S S E T N N A A S Y L L S S Q L L T T N G G V H H L L
Y G E L T R A N L M L A S R R R R F D L K R E F I L R K L S E E T S G A K P L L S L L V L V N G G V H H L L
Y G K M S A P L N I K N R R M D V V Q Q F M N N I Q T T G K S T P L L M N V L T T S G G V H H L L
Y G V L T R A D S L M V I K S S R R Y D V V R R Y F M E E R V A T A T G K A S L L L K N A V T T S G G V H H L L
Y G E L T A S I M V I S S R R R H E V I K Q F M N N I Q T T G K A S L L L K N A V T T S G G V H H L L
Y G T I T A P L Q I S S S K R D V V Q Q F L E K E R M K N S G V S S P L L S S S L L T T D D G G V H H L L
Y G E L T A L I R V I S S T R S K D D I F D R F F E R I Q N S G T N A T Y L S S E L L T T D D G G V H H L L
Y G E L T G N I H H L S S T Q S K D D I D R F M R K K Y Q K S G A T Y L S S E L L T T D D G G V H H L L
Y G Q L T A P L H H L S S S R R L D V V D D Q F M K R M D Q N G A A P L L S E Q L L T T G G G V H H L L
Y G D L T A S L M L I K S S R R L D V V D D Q F H F C K K K M E E Q N N G T Y L L S E L L T T N G G V H H L L
Y G D L T A Q L R I S A N R R R E A V A Q Q F I R H I K K K T K A S Y L L S E L L T T G G G V H H L L
Y G D L T A S I M V I S N R R R E A V A Q Q F I R H I K K K T K A S Y L L S E L L T T G G G V H H L L
Y G E L K G R L L M I Y S R R Y D A D R F M E A I K K A K K T A N S P L L K N V L T A G G V H H L L
Y G E V R A K L H H I Y S R R R D V V K N F I H H I H A T G K S T L L K N V L T A G G V H H L L
Y G R I Q A D M N I R S S R R D V V K N F I H H I H A T G K S T L L K N V L T A G G V H H L L
Y G E L T Q A G H H M V I S S R R K D A A C F V L N E E L M E K S Q S A T Y L L K M D V L T S G G V H H L L
Y G Q L T A P L H H L S S S R R R D V V E Q F I R R R L L G A T T N A M M L S S G R L T T N G G V H H L L
Y G E I T R A S L G I N S S R R R F D V V D G R F V I Q K I A T E T K A S Y L L S S R V L T T S G G V H H L L
Y G D L T A S I M V I S S N R R Q E V V K E F I E N I K S G K A S T P L L K N I T T S D N T H H L L
Y G K I S A D L M I R S S R R R N V V K E F I E N I K S G K A S T P L L K N I T T S D N T H H L L
Y G Q I A A D L M I A S S R R F D V V D E E F V A R K I F A N R G A T M L K E L L T C D G T H H L L
Y G E I T A S L H H I A S S R R F D V V D E E F V A R K I F A N R G A T M L K E L L T C D G T H H L L
Y G T L R A D L H H I A S S R R R D V V Q R S F T E D I K N A T G K S S P L L K E L V T T S G G V H H L L
Y G L V R V P M N I R R S R R S D V V R S Y F I D K I N A T G Q S R P L L S S G A T T S G G V H H L L
Y G E M T G S L M I R S S R R S D V V A H F I T R L K N T T G G A A P L L S S S E L L T T S G G V H H L L
Y G D L T A S I M V I S N R R K E V V D Q Q F L D K I K K N T K A A V Y L L S S E L L T T E G G I H H L L
Y G D L T A S I L V I S N R R K E V V K Q F M K K I K K H T N A A Y L L S S E L L T T E G G I H H L L
Y G E I T G T L R L K S S R R Q D V V K N A F C D R L R E S S D M P L L S S Q L L T T N G G V H H L L
Y G E L T A S M M V I Q T R K D V V E A F L E H K I N Q Q E G A T Y L L S S Q L L T T E G G I H H L L
Y G E I T G K L R L K S S R Y D I T N F L E R L R E S S D M P L L S S Q L L T T E G G I H H L L
Y G T I S V P L D I S S S R R Y D I T N F M N D L K S G V S T P L L K N I L T H G G V H H L L
Y N R V T A K M N I A S S R R Y D V V A K F M K K L E N S Q S S L L G N A V T N G G V H H L L
Y G K M T A A L H H I K C K R R R D V V H H F V L T K M R S T G K A S P L L L N V I T S G G V H H L L
Y G D L T A S L M L I K S S R R R D V V H H F L T K M R S T G K A S P L L S E L L T T D G G V H H L L
Y G D L T A S S V M V I S N R R A E A N R F I E R I Q E T T N A A V Y L L S S E L L T T N G G V H H L L
Y G D L T A S L M V I S N R R R E V V K Q F L K R L Q S T T K A S L L S E L L T T G G G Y H H L L
Y G V L K A D M G I K S S R R R D I R A Y M E I S T T G K S S L L K N V L T S G G V H H L L
Y G E F K A V L H H I S N R R V D V V K K F K T Q V D Q S T N A A L L S K L L T T G G G V H H L L
Y G D L T A P I R V I G T R K E V D D D F M E R K I S S T Q A Y L L S Q L L T T G G V H H L L
Y G D L T A S L R M V S N R R K E V V E D D F M E R K I S S T Q A A Y L L S Q L L T T G G G I H H L L
Y G E L V A P I R V I S T R Q Q V V Q G F L R K I R S T Q A A Y L L S E L L T T N G G I H H L L
Y G D L T A S V M V I S N R R K E V V K S K F L E N L K S T K A A P L L S E L L T T D G G V H H L L
Y G E I K G N L M I Y S R R Y D V V S K F M S A V L K D N D I A P L L S E L L T T D G G V H H L L
Y G Q L T G P L Q L S S N R Y D V V G Q F L S R R C A Q S D A S R P L L S E L L T T E G G I H H L L
Y G E L T A S I M V I S N R R K D V V Q Q A F L K S I K K E T N A A V L L S E L L T T S G L L L L
Y G D I R G M L K I T Y Y D V V Q Q S F M E K C K E Y N A E P L L S A L L T R G V L L L L
Y G K V T A P L N I R S S R R D V V E A F V E N I R T G R S T P L L L N V T S G G V H H L L
Y G Y L T A Q L Q N I A N R Y R D L S L F L D Q K M G E T S S S V P L L S N L T T N G G V H H L L
Y G H M E A E L N I T S R R R K A A E F L D D I K T G K S S P L L K N I T T S D Y H H L L
Y G D I T A S L H H I K S R R K D V V A L F C K R M E E S N G S T P L L S T L T T K G V H H M
Y G V V K A S M N I K T R R K D I Y E Y V I E K T L S S T G K S P L L L K E L T T D N G V H H L L
Y G D L T A S I M V I K T R R K E V V A E F V I E K I S S T T G G A Y L L S E L L T T S G G V H H L L
Y G Q L T G L L G V R R S R R Y D V V A E F V R R V S E E H G A R P L L S A L L T T G G V H H L L
Y G Q I T A D L L I I N N R R L D V V A E F V R R M N R Y K A Q P L L K V L L T D D Y H H L L
Y G T I T V N L I I S S R R R D V V A E F V R R K I A S K Q A N P L L S K E L T T D D G G V H H L L
Y G Q L T G A L Q L S S S R Y D V V E Q Q F L Q R S K Q A N P L L S M L T T D D G I H H L L
Y G Q L T S G Q L H H I S S R Y D V V A S Q F Y K M V C E N R K A Q P L L S N L T T D G G V H H L L
Y G E I K A N L H H I S S R Y D V V S Q F M D K F N K E K R A Q P L L S T T D G G V H H L L
Y G K I Q A D M N I R C R R D I K E F I A G I K S G K S T L L K N V L T S D Y H H L L
Y G E I T G K L M L K S S R F D V V E D F M L K V K N N D S K P L L S Y L T T G G V H H L L
Y G E I K A N L M L A S R R D V V T E D F L H K S A E S D D A A P L L S L V T T D G G V H H L L
Y G E L V G N L Q I S N R R M E A E D F V N R R V R D S K A A P L L S M L T T D G G I H H L L
Y G Q L T S A Q I R V I N T R R K E V V A E F M E N I R S S G A S P L L S E L L T T N G G V H H L L
Y G H M E A P L H H I S R R R K A A A F L E D I R S S G K S P L L K N I T T S N Y H H L L
Y G A T R G D L F V E S R R R D V V K R F L T K M Q C Q Q A N P L L L V V T T G G G V H H M
Y G A I R T A S L P I A C R R R K E V V Q E H F S I H S G K S T P L L K N L T T A G G V H H L L
Y G D L T A S L R V I A G T R R K E V V Q E H F M K K V I S S T N A S Y L L K N Q L L T D G G V H H L L
Y G D L T A S L M L S S S R H E V V D Q Q F L D K I Q S E T N A A Y L L S S Q L L T D G G T H H L L
Y G E I T A S M M L S S S R R Y D V V D Q Q F L Q K V V K S E T N A T Y L L S S Q L L T D G G T H H L L
Y G Q L T G K L H H I S S S R Y D V V D Q Q F L Q K V V H H E K A K P L L S Q L L T D G G T H H L L
Y G R L S A N L A V S S S R R D V V L N F V D N I N K G K S K P L L K N T T S N Y H H L L

90 100
QUERY HTIT EAPDEETMERIMRELK K K G F L I E E
UniRef90_U5LG99 HTIT EAPSEEEA I L DDAEQNAL S E K A A F L V D
UniRef90_R5HJN7 HTIT EAESEEE L L D D D E A Q N E A L K A E K G F L L A K
UniRef90_B7GIR5 HTIT EADDRVEEKL D E A C A A L K Q A G F L L I E
UniRef90_UPI0003FE9EAF HTIT EADRDEDQL D E A C K A L K Q A G Y L L F E D
UniRef90_F3ZVZ8 HTIT EADDSVEE L L D D K I E N D L K R K G Y L L L D
UniRef90_J8TFU6 HTIT EADSVEEAI D D K A V Q L E K Q G F L L L N E
UniRef90_G9QQ48 HTIT VSAKDSER TL DDAE K A L K K A G F L L L D E
UniRef90_D4KXC4 HTKI SAESEEE V L D D E I E E A L K K K G Y L L A E
UniRef90_UPI0004790F10 HTIT EAPSEEE H T L D E A E D S L K K A G F L L I D
UniRef90_R5NX52 HTIT EAESEED L L D D E I E E A L K E K H F L L V D E
UniRef90_Q8RCB6 HTIT VEAESDEE A L D R I E K A L R R D R G F L L I E E
UniRef90_R6UEL9 HTIT LSA C P D G D A F D R V R E T L R K L G L L L E
UniRef90_N0B4G6 HTIT LSA P S E K I L D D A V Q A L L E M A N F L L I E
UniRef90_UPI0004716860 HTIT EADDDPAV L D R I E A A L R E K G Y L L L E
UniRef90_R5JEX8 HTIT QISAADDEK T L D E I E E A L K E E G F L L T E
UniRef90_A6CUE9 HTIT ISA P N D K A M A D A E R A L K E A G F L L I E
UniRef90_D9TRQ7 HTIT EADSNEE T L D R I E R E L R R K E F F L I
UniRef90_I3VYP9 HTIT VEA NS K E V L D R I E K K L K E K G F F V E
UniRef90_Q65GN0 HTIT L E A D D E E E K I E Q A C G A L Q K A G I L L I P E
UniRef90_UPI000289A883 HTIT E A D S V E E T L D T A C E A L R R E V N I L L S E
UniRef90_A1HQE1 HTIT E A P S P Q V L A E I E E A L R Q Q G I L L
UniRef90_R7PLN4 HTIT H V C A E S Q E E I L D E I E E A L R K K H Y L A D
UniRef90_R5YGX1 HTIT I R A E S K E I L D T I I Q E E A L Q K A G F L A K
UniRef90_A3FL8 HTIT V I T A P S V E E V L T L I E Q A L H K K G Y L V T D
UniRef90_UPI00047AB621 HTIT I E A R S E R L L D E I E D A L R E K G Y L I E
UniRef90_UPI00035EEB9F HTIT I S A P D N E S R I E K A C A A L K E A G F L V E D
UniRef90_F3Y8D2 HTIT I H C E N E I E T F E L I K Q A L V Q K N F L Y Q E
UniRef90_R5DE16 HTIT L S C P D E T A Y E H L L Q L L R Q R G F L V E
UniRef90_UPI0003492898 HTIT I E A D T E A Q L D K A V N A L R G K K G F L L E
UniRef90_L5N9S4 HTIT I E A D N K E A L N E A E E A L Q E A G I L L N Q
UniRef90_UPI00037A6AE8 HTIT V E A P S H Q Q L E S A E Q A L K E K G I L L F M E N
UniRef90_F4BR62 HTIT I S A C P D K K T F D R I K K E A L N T L G F L Y K N
UniRef90_R5KFB9 HTIT I S A R D E E T L R L I E E A L W E K G Y L A Q
UniRef90_R5VJ13 HTIT I C A D S E E D L D A I E K E L K N Y G F L V
UniRef90_D6XYL8 HTIT L E A P C E D D F D A A V Q A L D E A G I L V K
UniRef90_R6GZH9 HTIT V S A D S G E T L D L I G K A L G K K G Y L
UniRef90_M3IG72 HTIT I E A D T E E Q L D N A I E A L N R R L G I L V Q
UniRef90_E1QWI5 HTIT H V T A P S E E E L D E I E D A L G S G G Y L V E
UniRef90_UPI000471C4AF HTIT I E A P S E E E Q L N K A E E T L R E M G I L F T E
UniRef90_R5P3P7 HTIT I S A E N E E E V L N I I V E E L K N K G Y L M K E
UniRef90_C6LGW4 HTIT L E A D N E E E L L D E A E K R L K E K G Y L L D
UniRef90_K8FD34 HTIT I E A D T K E Q L D Q A I K A L D K A G F L L I
UniRef90_R5RAX1 HTIT I S A D S E E E T L D L I E K E L K E K G F L L I
UniRef90_F7V379 HTIT I A A D S E E E L L D Q L Q E R L A A E G Y L A K
UniRef90_UPI000474E6E0 HTIT L L E A P S E E V Q I D N A M K A L K R A G Y L L
UniRef90_UPI0004059763 HTIT T L S A A T E A A L D Q A E T A M K K E G F L V E
UniRef90_R9C8F1 HTIT I T A H S I E T L T E A E D A L R K K A H F L I E E E
UniRef90_W7ZZR5 HTIT I S V E A D T E Q Q I E R A L Q H L K E K G Y L V E E
UniRef90_UPI000473862E HTIT L E A D S V Q K L D A A C H A L E Q A G Y L L K
UniRef90_I7LFW8 HTIT I E A D S E E E T L E R I V K E L D K K G F L I D E
UniRef90_V2Y3U9 HTIT I V E A H S V K I I D E I E N M L K E K G Y L I E
UniRef90_R6LZ14 HTIT L I E A P S E E E V L D N I E Q K L D E T G F L V
UniRef90_R9IPB6 HTIT T V S A D S E A V L D E I E Q M L S E R G Y L A E
UniRef90_UPI00047EAECD HTIT I E A E T N E Q L D D A T D A L K Q A G F L L
UniRef90_A0A024PPF2 HTIT L E A D T Q E K L D A A C D A L K K A G I L V E
UniRef90_K6DZ85 HTIT L S A S T E E Q A L N K A E A A L K S E G I L L E
UniRef90_R5HSQ3 HTIT I D A E S E E I L D T I Q E E L R R Q R G F L A K
UniRef90_UPI000302ECD F HTIT I A A D E E E L L D Q A E Q A L R N Q G F I V E D
UniRef90_E0RJQ0 HTIT L N A S N E D K I N D A C A A L E Q A G F L M T D Q
UniRef90_UPI0004286F92 HTIT L E A P S K K Q L D A A C E A L R V K G Y L F E Q
UniRef90_UPI000376D0F0 HTIT L S A T D P V L I D E A Y T V L Q Q A G F L I S D
UniRef90_UPI0004788A36 HTIT I S A P S E K T L D E A E A A L K R E G F L M E
UniRef90_R7GLX2 HTIT I T A P D E E T L E R I K E A L D E K N I L L K Q
UniRef90_U2RMB2 HTIT L S C P D E E A A F G R V C R E L R R L G V L L E
UniRef90_UPI000372E72E HTIT L T A I D K Q L I L N A E K D L K A A G I L V E E D
UniRef90_U2CP23 HTIT I E A E N E E T I E R I L S E L K T R G Y L I S D
UniRef90_R7ADD7 HTIT H V A A D Q E E I L D E I E A A L R E K G F L A D
UniRef90_UPI00040B7AC9 HTIT I V E A D S E E Q Q L E S A I L Q L K N E G F L V D
UniRef90_B5CMG3 HTIT V E A D S E E T L D M I E A A L R E K G F L L E Q
UniRef90_Q9KDJ7 HTIT L E A E S E A I L D E A I R A L E E K G Y L L N
UniRef90_R5K9W2 HTIT V Q A D S E E D L L D N I Q K D L E E C G F L A K
UniRef90_UPI00040FDBC1 HTIT L I A A N E Q Q L V I E A E N A L K E A G F L I E N
UniRef90_G9YU74 HTIT V R C P D E K T F R R V R K S L E T E N F L L N
UniRef90_R5IK34 HTIT V T A E S E E K N L D F I E Q E L R K K G Y L K E E
UniRef90_U2ARX6 HTIT V E A E S E E V L D S I E K A L A E K K Y L L
UniRef90_UPI0003B520F0 HTIT L R C P D E E G A Y Q R V C E Q L G Q M G I L L E
UniRef90_U5F6Z9 HTIT L Q C P S E E V Y T R I Q R L D E K G F L Y K
UniRef90_M2Q5U8 HTIT I S Y N D P Q T M I R I K E A L D K R G F L L K E
UniRef90_R7C8B9 HTIT V T A E E E R I L D D V E V I E L A K R G Y L V E Q
UniRef90_A0A017RT07 HTIT I E A D N S E I M D R I A N T L K E K G Y L I S E
UniRef90_T0IW77 HTIT I E A P T A E I L Q K I A A E L K A L G I L L E
UniRef90_X8GYP1 HTIT I S C K N S E S F D R I R E K L R E L G I L L
UniRef90_S9UE64 HTIT L T S P S E E R L D E V C E A L K K V G F L I T D
UniRef90_R6PI63 HTIT V S A E S E E I L D E I E E M L R A K G F L I E
UniRef90_C9KMU9 HTIT I R V P D E E A L A A I R T D L K R L G I L V D E E
UniRef90_R7R6U4 HTIT V E A D D E D T L D Y I E K A L K E K G Y L C S E
UniRef90_E3E043 HTIT L T A S D E H R I Q Q A C Q A L E A A G I L I T D
UniRef90_UPI0003FA5107 HTIT L E A D T E E K L S A A C Q A L E K A D I L I H N
UniRef90_UPI0002E46FBD HTIT I S A P T K E Q L E V A E K R L R E K G Y L I E
UniRef90_E7GAQ4 HTIT I E C Q N E D T Y Q R I I D S L H K K G Y L F
UniRef90_B1CBK0 HTIT I E A D S E E L L D I V E K A L K E K N Y L V E

UniRef90_C4Z1R0 1 K Q E Y S R I L K V K H G D D E V E A 20 G A I V D M G G W I R D V F V Y H K F 40
UniRef90_K0J227 K Y E R V V V V K H R P E Q T K E E E L D C V V D Q G G V T V K D V I V V E H P F
UniRef90_UPI00037FE596 K Q T I Q A T L V V C R H T P N A Q L A A E E L F A V V D R A G G C I V I K D V I V V E H P L
UniRef90_UPI000472D23A D I V V V V R H T D P E Q T A E E E L L A V V D A G G V T V L E D V I V V E H P L
UniRef90_UPI0002892B1D S T T F E R Q V A S Y H S A D E Q T A E E E L N L L V D A G G V T V K D V I V V E H P L
UniRef90_R6QTK6 C R R I F M V K H T D E R T M R E E E L N S I V D D N G G Q L R D V I V V E H P L
UniRef90_E6TUE1 Q E P L T R I V A C Y H P P E R T R E E E L F L L V D H G I T V R D R K V I E H P I
UniRef90_BONDM2 S V S R D F K V Q H T D E R Q L E E E E L C A I V D D L G G G C V E N V V M I N N E H P V
UniRef90_B2A0U7 Q N S H I T T I A S K H E R E D I T K E E E L E T C I V D D Q G G T V I G N D V M V E H P I
UniRef90_UPI000474791E H K C Q R I V A C K H S P E Q T Q E E E L E C I V D D Q G G V T V I G N D V M V E H P I
UniRef90_T0N1P6 S N T L K R V I A V C H S K N N M E E E L K T I V D K Y G G A T V I E D V I V V E H P L
UniRef90_R7RUW3 L R K I I A V K H S D E N Q T E E E E L R T I V D G L G G G R I V I D V I V V E H K I
UniRef90_E6MG76 S R V F K V N H S D E N Q T E E E E L T T I V D D L G G G K V E D V I V V E H P V
UniRef90_W4QUV9 K V S R I I A C K H S P E E T K E E E L F I L V D D H G V T V K Q V M V E H A I
UniRef90_Q2RM93 N L C R R T F A C R H S D L A G D E E E E L L L M V D D Y G G K V I D V I V V E H P L
UniRef90_UPI0003B34E63 K S G I K R V F K V I H S D D E V E E E E L T L I V D D L G G G K I K D V I V V E H P L
UniRef90_I5AV73 K D S A T R V F K V I H S D D E V E E E E L S A I V D D L G G G I E D V I V V E H P V
UniRef90_D5DL18 Q R I I A C Q H T P E D A E K E E L L L L V D D H G V L V K D V I V V E H P L
UniRef90_UPI0002D70A6C K Q R P S K V I A C I H A P E E D T R E E E L Y T F V D D H G L T V I N V S I E H A T
UniRef90_Q5WHS5 Q K K V Q R L I A V Q I H R P E D T R E E E L Y T F V D D H G L T V I N V S I E H A T
UniRef90_R6H6D1 R R F K V H H G S E E Q T D E E E L E T I V D D L G G G T V E D V I V V E H P V
UniRef90_UPI00031071AE A V E R R Q I A C H S H S P E E A R D E L Y T L V D S G V V V K N V I V E H P V
UniRef90_UPI0002F14366 R R R C F A C V H E I D D M A E E E L Y C I V D D N G G Y V V D V I V V E H P I
UniRef90_K6CX16 S R P S R V I I S T H Q P E T T K E E E L Y L M V D D Y G V T V K D V I V V E H P L
UniRef90_D3FVU9 K E K H Q R L I A C Q H N Q P T D A M D E E L Y T L V D D Y G V K V I N V I V E H P M
UniRef90_G1WIE3 T R L V K V C H H T V D D V E D E L N T I V D D L G G G A V T N V M V N N E H P V
UniRef90_R6PVJ2 Q K A R R T I A V K H S D D E Q T Q E D E L Y T I V D D F G G K V I D V I V V E H D I
UniRef90_D4M422 V E I F K V S H T D D Q V E D E L Y T I V D D L G G R V R N V M V N N E H R V
UniRef90_R5IQ2 Q K P K R S F C V Q H T T E Q M Q D E L Y T I V D D Y G G K V L D A V V E H D I
UniRef90_R5C8P2 S S G V T R E F Y V C H T R D D Q I Q D E E L M N V I V D D Y G G S I V D V I V V E H D P
UniRef90_M7NW10 L S R K I A V C T H T P D P T E K E E L N L I V D D A G A S V R D V I V V E H P V
UniRef90_R6J0P9 T V A C V H D F D N M E K E E L N I M V D D N G G A T V V N V T V E H P L
UniRef90_UPI000375AE69 S H Y F K G K L A C C H S A K D T E T E E L L L I T N K G G M I L D V I V E H P I
UniRef90_D4J6H2 A C H R I Y C V N H S D D A I A D E L N T I V D D N G G K V I D V I V E H P I
UniRef90_G7V6K9 Y R R I I A V K H S P E D I A T T E L M T I I S L G G K V I D V I V E H P I
UniRef90_R6A604 T R L V K V Q H T V E Q A G D E L T S V D A G G G A V L N V I V N N H R V
UniRef90_R5DDS4 S V K R I F K V Q H T D E Q M E D E L Y S V D D L G G C C V E T V I V V N N H K V
UniRef90_R7CGI9 N T Q P C K L V K V R H G F D Q I E E E L N L V V D D L G G G C V E D V I V V N N H R T
UniRef90_R7D8F0 S S C C E R E F K V R H S Q D K A A E E E L N L I V D D C G G H V K N I S I S E H A V
UniRef90_W4EPE0 S C E R Q I A C R H T S A D T E E E E L N I F V D A G V T V K N V I V S E H A V
UniRef90_R9L3B5 K A V Y K R T V S V M H T D G Q M E D E L Y A I V D C G G A H V L D V I V E H E V
UniRef90_R6LRQ8 H T V T R V I K V S H T D E Q M E D E L C S I V D D L G G K V I N V M I N N E H P I
UniRef90_B1DY4 K Q L I R K I I A V C H D S K D I K D E V I I K F G G I V E D V I V V E H P I
UniRef90_UPI000262781A S T N F T R V I A V S H K L E K T G T E L Y T L V D H G V I V R N V M V E H P I
UniRef90_I4D214 G L Q R I I Y S R H S P S D T E K E E L N I V D D H G V S V L D V I V E H S V
UniRef90_R6RW37 S V E R I F V C H N G D Q I E E E L N A V V D D L G G A V L D V I V D D H S L
UniRef90_I8SIQ4 S K S L K A T L A C K H G Q D E L E E E L S I I V D D N G G K V L D V I V D D H S L
UniRef90_C4FBX2 T R I I V K V R H T V E R L E D E L N T I V D D L G G T V Q S V M V N N E H R A
UniRef90_UPI0001E89971 E R I I V S F H E P H R T K E E L Y T I V D H G V T V K D V I V E H P I
UniRef90_W4VIL6 N K D Y R R V I A C K H A R N E T K E E L Y T I V D D F G V I V E N V I V E H P I
UniRef90_R5Q765 C K R I F K V H H D D N E T E K E S L I V D D L G G Y V E D V I V Y H K V
UniRef90_D7UXQ8 N R I R K L I A V N H T K A E T E Q E L T L L V D C G I T V T V D V I V E H P I
UniRef90_XORPE5 F S K M V A C C H T P E E T K E E L F I L V D D H G V M V K D V I V E H P I
UniRef90_F5L586 R R V I A C Q H T F E Q T R E E L M L I V D D H G V K V I D V I V E H P I
UniRef90_C4L4N9 S T Y S K K V A C R H T A E E M E A E M N A I V D D E G V T I K D V I V D H P V
UniRef90_R7R0E8 K K E A V R V L K V I H S D E D V E K E E L N T I V D D M G G K V Q N V F V Y H K V
UniRef90_R7JY15 T R V F E V N R H T D E Q M Q D E L N T I V D D F G G V V I D V I V R N H E V
UniRef90_F3BAQ5 S I S K I F K V R H T D E Q L E E E L C A V V D D F G G G I E N V M I N N H K V
UniRef90_F0PF07 G I E R K I A C Q H T P E Q T R E E E L S V I V A K G G E V D V S I A H P L
UniRef90_UPI000464E8C0 S S Y A R R T I Q V R H T D D E I T M E A E L N V I V D D F G G T A E D V Y I H H K V
UniRef90_S7J290 G A C T R V I F V C C H G S D L M E A E L N A I V D D N G G I V H N V V I E H D V
UniRef90_R5UEQ7 H S V N R I F K V N H T D E E L E D E L C T V V D D L G G K V V N V M V N N H R V
UniRef90_E4SU95 N S Y A H R L F K V N H T V N N M E E A E L A I V D D N G G A R I Q N I M I D H P A
UniRef90_UPI00040C3834 T L V C C H S A E D M E A E L N A I V D D N G G A V L D V I V E H P V
UniRef90_I8UES8 T R L I V S K H S K E Q T K D E L F T I V D D H G V T I K D V I V E H P V
UniRef90_F4XGX9 T G L V R T V A C V H P G E A M A R E L E I M V D D Q G C Q V M D V V V E H P V
UniRef90_UPI000416BA30 K H Q R L I V S S H T P A Q T K H E L F L L V D D H G V T V R D V I V E H P V
UniRef90_UPI0003B336C9 Q T V R K R V A V S H D P D S T L E E E L Y L I V D D H G G K V I D V I V E H P V
UniRef90_R6NQ81 K F V R I F Q V C H H T D E K I E E E L N A V V D D C G G T V I D V I V E H H I
UniRef90_R7INZ9 S T K C K R I F Q V F H T T K I K K E L Y T I V D D G G G T V L D V I V E H D V
UniRef90_R6SQ68 Q T C A E R V F K V R H T D E Q L E T E L C T I V D D L G G Q V K N V M V N N H K V
UniRef90_R7GA70 Q G V L C T V A V M H D Y S R L A Q E L Y T I V D D Q G G A T V L D V I V E H A V
UniRef90_R9NDR5 R R V Y K V H H T D E Q L E D E L C M I V D D N G G I V K N V M V N N H R V
UniRef90_R5ADD8 R L F K V F H D A A A T E E E L T T I V D D L G G G C V V D V I V V E H A V
UniRef90_J0N1U7 Y R V I I A C R H N G S E M E D E L T T I V D D N G G R V L D V I V E H A V
UniRef90_R5YQ37 F K R V F K V K H T T E Q I P D E L N L I V D D L G G V V D D V I V Y H K V
UniRef90_B3WC90 D G T V R Q V A C K H T P A Q T A E E L Q L L L E N G G W I E D V I V E H P L
UniRef90_R6GX83 I E R Q I A C R H D G A G T R D E L N A M V D C G G C T V I D V I V D H P V
UniRef90_A8FFS5 K H Q R L I V S S H T P A Q T K H E L F L L V D D H G V T V R D V I V E H P V
UniRef90_R5AY62 D G I T R T I A C R H T L E Q T G T E L D I L V D D F G G C T V L D V I V E H P V
UniRef90_F4A9E6 K H L L E K I I T V C H N G N S I E E E L Q C I V K Y G G I K D V I V E H P L
UniRef90_H8L9R5 N T G H I S K I A V Q H G K D Q T E E E L R L I V E N E G G E I I D V I V E H P L
UniRef90_R7N8K5 K N E H T R I F K V H T E A D V E A E L N S I V D M G G W V K D V I V Y H K V
UniRef90_F8II38 S S G R E T V L A V S H T P E Q T Q E D E L Y A L V D D H G V R V I D V I V R V H A I
UniRef90_F0Z2V4 F S Q R V F K V N H T D D E Q N E L C C S I V D D L G G R V V N V M I N N H R V
UniRef90_R9MB94 H A A Q R V F K V S H T D E Q M E D E L C A V V D D L G G K M V N V M I N N H R V
UniRef90_N4VWB9 N Q G F Q R V I A C K H T S E E T K E E L Y A I V D D C G G A M V K D V I V E H P V
UniRef90_R6CB63 Q R V I A C R H T Q E Q M E K E L Y I V V D N G G A V L D V I V E H P V
UniRef90_B9DUS5 S A Y T A R I V C Q H S M E E T Q I E L E I I I K H G G I I S T V E V E H P I
UniRef90_UPI000378BD28 T T F E R I I V S N H L P S Q V R Q E L S I L I V D F G G V T I K D V I V E H P I
UniRef90_UPI000381F6A4 S N M V R T I A C Q H G A D I L E Q E L S L I I R Y G G R V K D V I V E H S I
UniRef90_R6NRV0 T R V F K V Y H T N D Q T E D E L T T L V D I G G T V V D V I V W H R V

	50	60	70	80
UniRef90_C4Z1R0	Y G V I	R A E M N I	S S S S	H S R R R D
UniRef90_K0J227	Y G E L	R R A Q V M	I V S D S R	R R H D V V
UniRef90_UPI00037FE596	Y G E L	R R K G A L	M R R L R L	S S S S R R
UniRef90_UPI000472D23A	Y G E L	R R G G A L	M R R L R L	S S S S R R
UniRef90_UPI0002892B1D	Y G D L	T A S I L M	V L V S S S	R R R D D V
UniRef90_R6QTK6	Y G T I	V D I Q M L	V S S S T R	R R K E V V
UniRef90_E6TUE1	Y G D L	T A S I L M	V L V S S S	R R R K E V
UniRef90_BONDM2	Y G H M	E A V L L G	V V N S N S	R R R R K V
UniRef90_B2A0U7	Y G E L	K A G Q L I	M V V S S S	R R R R K V
UniRef90_UPI000474791E	Y G E L	K A G L I M	V V S S S S	R R R R K V
UniRef90_T0N1P6	Y G E I	K A M L M I	K K N S L I	F D V L V E
UniRef90_R7RUW3	Y G E I	T A G K L M	L R S S R R	R R D Y D V
UniRef90_E6MG76	Y G V L	T R A P L P	L R S S R R	R R R D D V
UniRef90_W4QUV9	Y G E I	T A S L L M	L S S S T R	R R H D V V
UniRef90_Q2RM93	Y G E I	T R A G K L	M L V S S S	R R R Y E D
UniRef90_UPI0003B34E63	Y G L L	K A E L L I	N I R S S S	R R D D V V
UniRef90_I5AV73	Y G V I	R G P L N I	R S S S R R	L D V I E E
UniRef90_D5DL18	Y G E L	T A A S V M	V Q S S R R	R R K E D V
UniRef90_UPI0002D70A6C	Y G E L	T A A S V M	V Q S S R R	R R K E D V
UniRef90_Q5WHS5	Y G E L	T G A M H I	S N S R R R	Q D E V D A
UniRef90_R6H6D1	Y G K V	T A S I L G	L K S S R R	R R D D V V
UniRef90_UPI00031071AE	Y G E L	T A S I L G	L K S S R R	R R D D V V
UniRef90_UPI0002F14366	Y G Q I	I G S I L R	V L A S S S	R R Y D V V
UniRef90_K6CX16	Y G N L	T A P I G V	L S S S R R	R R D D V V
UniRef90_D3FVU9	Y G E L	T A S L L G	V F H H R R	R R S Q Q V
UniRef90_G1WIE3	Y G K I	T A D L L D	V L R S S S	R R R D V V
UniRef90_R6PVJ2	Y G Q I	T A S I L G	V L A S S S	R R Y D V V
UniRef90_D4M422	Y G H M	E A S L L N	S S N R R R	H D V V E E
UniRef90_R5I0Q2	Y G Q I	T V D L L M	L C Y N S S	R R M D V V
UniRef90_R5C8P2	Y G E L	R A A P L V	V V S S R R	S Q Q V V D
UniRef90_M7NW10	Y G E L	L N A A I M	V S S S N R	R R H D V V
UniRef90_R6J0P9	Y G Q L	T G P L L H	S N S R R Y	D V V E Q Q
UniRef90_UPI000375AE69	Y G M L	T A N L N I	L K S S R R	R R D D V V
UniRef90_D4J6H2	Y G Q I	T A N L L I	L K S S R R	R R D D V V
UniRef90_G7V6K9	Y G E I	R G N I L N	V A R R R R	D D V V V K
UniRef90_R6A604	Y G K L	T A D L L H	I R R S S S	R R R D V V
UniRef90_R5DDS4	Y G R M	E A K P L H	I K S S R R	R R D D V V
UniRef90_R7CGI9	Y A K L	E A P L H I	K S S R R R	D D V V Q S
UniRef90_R7D8F0	Y G R V	T A S E M D	V L R S S S	R R S S R R
UniRef90_W4EPE0	Y G E I	T A S I L M	V S S S R R	H D V V S Q
UniRef90_R9L3B5	Y G Q L	T V D L L F	L R S S S R	R R T D V V
UniRef90_R6LRQ8	Y G H M	E A P L D V	I K S S R R	R R N D V V
UniRef90_B1IDY4	Y G E I	K A M L K I	K S S M Y D	I D V V D A
UniRef90_UPI000262781A	Y G D M	T G S L M I	K K S R R L	D D V V D A
UniRef90_I4D2I4	Y G N I	F R P L Q L	N I R S S S	R R L D V V
UniRef90_R6RW37	Y G E L	T R A P L P	L R S S R R	R R R D V V
UniRef90_I8SIQ4	Y G E L	K A N L M L	G S S S R R	R E V L V G
UniRef90_C4FBX2	Y G K I	T A D L D I	R S S S R R	S G E T A R
UniRef90_UPI0001E89971	Y G D L	N A S L M I	V S S S R A	D V V D A D
UniRef90_W4VIL6	Y G D L	K A S L M I	S S S R A D	V V D D K F
UniRef90_R5Q765	Y N I V	K A T A A I	S S S R R R	D I K N Y M
UniRef90_D7UXQ8	Y G E I	T A A L L H	I A S S R R	R F D V E D
UniRef90_XORPE5	Y G E I	T A S L L R	L S S S R R	H D V V E D
UniRef90_F5L586	Y G Q I	T Q G S L M	L V A K K R	D D V V H D
UniRef90_C4L4N9	Y G S I	T Q G Q L M	L V K S S R	R R D V R A
UniRef90_R7R0E8	Y G V V	K A D M N I	K S S R M D	I R E Y L N
UniRef90_R7JY15	Y G E L	R A E A N L	Q I N S S R	R R K V I A
UniRef90_F3BAQ5	Y G H M	E A N L Q I	N S S R K V	I K E F M E
UniRef90_F0PF07	Y G E L	I G S L R I	Q S E K D I	D K F M D K
UniRef90_UPI000464E8C0	Y G N L	R A A L N I	R T R R K D	V Q Q D F Y
UniRef90_S7J290	Y G T L	E A G T L H	S S R R R D	V I K R M H
UniRef90_R5UEQ7	Y G H M	E A E I N I	T S S R R K	V M E F V E
UniRef90_E4SU95	Y G E I	T Q S A L L	K L C Y R R	D A R H F L
UniRef90_UPI00040C3834	Y G P L	I K S D L L	E S S R R D	A K N F L T
UniRef90_I8UES8	Y G D L	T A S L R L	R L T S S R	K D V V E Q
UniRef90_F4XGX9	Y G Q L	T G Q L R L	R L A S S S	R Y V R L V
UniRef90_UPI000416BA30	Y G D L	T A S L M I	V S S S R R	V E A D R F
UniRef90_UPI0003B336C9	Y G D I	T A S L M I	V S S S R R	V E A D R F
UniRef90_R6NQ81	Y G E L	R A S L Q I	L S S S R R	D A D K R F
UniRef90_R7INZ9	Y G M I	T V D L L I	L K N R R T	D V D K D F
UniRef90_R6SQ68	Y G H I	E A E L L G	I T S S R R	K V V K E F
UniRef90_R7GA70	Y G Q L	T S G K L H	I A S S R Y	D V E Q F M
UniRef90_R9NDR5	Y G R I	L E A E L N	I A D S S R	R K A G Q F
UniRef90_R5ADD8	Y G K V	S A P L Q I	K S R R R D	V Q A F L K
UniRef90_J0N1U7	Y G Q L	T S G Q L R	I G S S R R	H D V V Q D
UniRef90_R5YQ37	Y G V I	K V D M N I	K S S R R D	V K D F I L
UniRef90_B3WC90	Y G Q L	R G Q L N I	R T V A D M	K L F M S R
UniRef90_R6GX83	Y G Q L	T A S P L H	I S S R L D	V A D Q F M
UniRef90_A8FFS5	Y G E L	T A S I L M	V S S S R R	L D V V A D
UniRef90_R5AY62	Y G Q L	T G Q L Q I	S S S R Y D	V E Q F L A
UniRef90_F4A9E6	Y G Q I	K S M I M V	K T T Y D V	E K F L K K
UniRef90_H8L9R5	Y G E L	A G T L H I	K T P Q D I	D S F M R R
UniRef90_R7N8K5	Y G V I	K A D L L N	L H S R R R	D I K D Y M
UniRef90_F8II38	Y G E L	V G Q E L L	T S S R R D	V D V F L E
UniRef90_F0Z2V4	Y G H M	E A E L L N	I S S S R R	R R K V M E
UniRef90_R9MB94	Y G R M	E A R L L G	I N S S R R	K K V M E F
UniRef90_N4VWB9	Y G D L	K A S G Q L	L F S S D R	A E V D D Q
UniRef90_R6CB63	Y G Q I	S G Q L Q I	L F S S R Y	D V V Q Q F
UniRef90_B9DUS5	Y G M L	T A P L N I	K S S Q D D	I T D F M S
UniRef90_UPI000378BD28	Y G D L	T A L L V I	S S S R F E	L E S Q F L
UniRef90_UPI000381F6A4	Y G E I	K G L L M I	V S S S R R	F E L S Q K
UniRef90_R6NRV0	Y G K I	E A K L N I	V A S S R R	N V Q Q C I

		90	100
UniRef90_C4Z1R0	H	T	L
UniRef90_K0J227	H	T	L
UniRef90_UPI00037FE596	H	T	L
UniRef90_UPI000472D23A	H	T	L
UniRef90_UPI0002892B1D	H	T	L
UniRef90_R6QTK6	H	T	L
UniRef90_E6TUE1	H	T	L
UniRef90_BONDM2	H	R	V
UniRef90_B2A0U7	H	T	L
UniRef90_UPI000474791E	H	T	L
UniRef90_T0N1P6	H	T	L
UniRef90_R7RUW3	H	T	L
UniRef90_E6MG76	H	T	L
UniRef90_W4QUV9	H	T	L
UniRef90_Q2RM93	H	T	L
UniRef90_UPI0003B34E63	H	T	L
UniRef90_I5AV73	H	T	L
UniRef90_D5DL18	H	T	L
UniRef90_UPI0002D70A6C	H	T	L
UniRef90_Q5WHS5	H	T	L
UniRef90_R6H6D1	H	T	L
UniRef90_UPI00031071AE	H	T	L
UniRef90_UPI0002F14366	H	T	L
UniRef90_K6CX16	H	T	L
UniRef90_D3FVU9	H	T	L
UniRef90_G1WIE3	H	T	L
UniRef90_R6PVJ2	H	T	L
UniRef90_D4M422	H	T	L
UniRef90_R5I0Q2	H	T	L
UniRef90_R5C8P2	H	T	L
UniRef90_M7NW10	H	T	L
UniRef90_R6J0P9	H	T	L
UniRef90_UPI000375AE69	H	T	L
UniRef90_D4J6H2	H	T	L
UniRef90_G7V6K9	H	T	L
UniRef90_R6A604	H	T	L
UniRef90_R5DDS4	H	E	V
UniRef90_R7CGI9	H	H	I
UniRef90_R7D8F0	H	T	L
UniRef90_W4EPE0	H	T	L
UniRef90_R9L3B5	H	T	L
UniRef90_R6LRQ8	H	T	L
UniRef90_B1DY4	H	T	L
UniRef90_UPI000262781A	H	T	L
UniRef90_I4D2I4	H	T	L
UniRef90_R6RW37	H	T	L
UniRef90_I8SIQ4	H	T	L
UniRef90_C4FBX2	H	T	L
UniRef90_UPI0001E89971	H	T	L
UniRef90_W4VIL6	H	T	L
UniRef90_R5Q765	H	T	L
UniRef90_D7UXQ8	H	T	L
UniRef90_X0RPE5	H	T	L
UniRef90_F5L586	H	T	L
UniRef90_C4L4N9	H	T	L
UniRef90_R7R0E8	H	T	L
UniRef90_R7JYI5	H	T	L
UniRef90_F3BAQ5	H	T	L
UniRef90_F0PF07	H	T	L
UniRef90_UPI000464E8C0	H	T	L
UniRef90_S7J290	H	T	L
UniRef90_R5UEQ7	H	T	L
UniRef90_E4SU95	H	T	L
UniRef90_UPI00040C3834	H	T	L
UniRef90_I8UES8	H	T	L
UniRef90_F4XGX9	H	T	L
UniRef90_UPI000416BA30	H	T	L
UniRef90_UPI0003B336C9	H	T	L
UniRef90_R6NQ81	H	T	L
UniRef90_R7INZ9	H	S	V
UniRef90_R6SQ68	H	T	V
UniRef90_R7GA70	H	T	L
UniRef90_R9NDR5	H	T	V
UniRef90_R5ADD8	H	H	V
UniRef90_J0N1U7	H	T	V
UniRef90_R5YQ37	H	T	V
UniRef90_B3WC90	H	T	L
UniRef90_R6GX83	H	T	L
UniRef90_A8FFS5	H	T	L
UniRef90_R5AY62	H	T	L
UniRef90_F4A9E6	H	T	L
UniRef90_H8L9R5	H	T	L
UniRef90_R7N8K5	H	T	V
UniRef90_F8II38	H	R	V
UniRef90_F0Z2V4	H	K	V
UniRef90_R9MB94	H	T	V
UniRef90_N4VWBH9	H	T	L
UniRef90_R6CB63	H	T	N
UniRef90_B9DUS5	H	L	I
UniRef90_UPI000378BD28	H	T	L
UniRef90_UPI000381F6A4	H	T	L
UniRef90_R6NRV0	H	T	V

UniRef90_R7B512
UniRef90_F2F3F4
UniRef90_UPI000255C15F
UniRef90_R5TFM1
UniRef90_UPI0003B765B1
UniRef90_M1PWVR9
UniRef90_V5XL29
UniRef90_UPI00036E5DC7
UniRef90_NOC722
UniRef90_W3ADS6
UniRef90_UPI0003F6AEFD
UniRef90_W4RIJ2
UniRef90_W2BWL8
UniRef90_A0Q3T7
UniRef90_R5E953
UniRef90_W7BW3
UniRef90_V1CHZ2
UniRef90_I4BTX5
UniRef90_D2Z6X0
UniRef90_R2U2U7
UniRef90_UPI00042238F0
UniRef90_R2SNZ1
UniRef90_UPI00040E7343
UniRef90_UPI0003B37195
UniRef90_UPI00047B9A01
UniRef90_C0GKY6
UniRef90_K6Q2Y2
UniRef90_D9QC13
UniRef90_B7CC63
UniRef90_T4W0Q3
UniRef90_I6T970
UniRef90_W6N6E5
UniRef90_U7UH09
UniRef90_A0A011RKZ5
UniRef90_UPI000478D9E1
UniRef90_R6CHZ8
UniRef90_F5X5E3
UniRef90_A0A037Z8Q5
UniRef90_M1ZGH7
UniRef90_S0K1B7
UniRef90_B4U1Y6
UniRef90_E0E335
UniRef90_S1NS41
UniRef90_A3CNJ3
UniRef90_UPI0003720ECC
UniRef90_U6BEL8
UniRef90_N2AK76
UniRef90_H1HT14
UniRef90_X8J8K0
UniRef90_G5K5V5
UniRef90_L1QLS0
UniRef90_UPI0004051FB6
UniRef90_H7EM92
UniRef90_R5D088
UniRef90_G7LZD6
UniRef90_E4L0K1
UniRef90_UPI0003616DC8
UniRef90_W7ZDA2
UniRef90_R6V340
UniRef90_A8F6K0
UniRef90_C0C089
UniRef90_W0E5Q8
UniRef90_UPI000427ACAA
UniRef90_F9MPS2
UniRef90_UPI00047948F4
UniRef90_N2AE87
UniRef90_UPI00036E94A
UniRef90_UPI0003B61FD6
UniRef90_R4K647
UniRef90_R7K8V4
UniRef90_UPI00036F8756
UniRef90_UPI000381FD07
UniRef90_UPI00037EF72F
UniRef90_D6GT30
UniRef90_E3GPE0
UniRef90_R6MSJ5
UniRef90_R5H893
UniRef90_S4DAR4
UniRef90_C6Q2R0
UniRef90_E4RPE7
UniRef90_R6UY14
UniRef90_R5Z5A5
UniRef90_D9RZT8
UniRef90_UPI000470D5ED
UniRef90_UPI0004129D38
UniRef90_R7HAH2
UniRef90_G9RNI0
UniRef90_J3JQ24
UniRef90_UPI0003FF0134
UniRef90_UPI00037CB07A
UniRef90_W8T3H7
UniRef90_R2QJQ3

		90	100
UniRef90_R7B512	H	E	V
UniRef90_F2F3F4	H	V	I
UniRef90_UPI000255C15F	H	E	L
UniRef90_R5TFM1	H	T	V
UniRef90_UPI0003B765B1	H	T	I
UniRef90_M1PWR9	H	T	I
UniRef90_V5XL29	H	T	I
UniRef90_UPI00036E5DC7	H	T	I
UniRef90_NOC722	H	T	I
UniRef90_W3ADS6	H	T	I
UniRef90_UPI0003F6AEFD	H	A	V
UniRef90_W4RIJ2	H	T	I
UniRef90_W2BWL8	H	T	V
UniRef90_A0Q3T7	H	T	I
UniRef90_R5E953	H	T	V
UniRef90_W7BIW3	H	T	V
UniRef90_V1CHZ2	H	T	V
UniRef90_I4BTX5	H	T	V
UniRef90_D2Z6X0	H	T	V
UniRef90_R2U2U7	H	T	I
UniRef90_UPI00042238F0	H	T	I
UniRef90_R2SNZ1	H	T	I
UniRef90_UPI00040E7343	H	T	V
UniRef90_UPI0003B37195	H	T	I
UniRef90_UPI00047B9A01	H	T	I
UniRef90_C0GKY6	H	T	I
UniRef90_K6Q2Y2	H	T	L
UniRef90_D9QQ13	H	T	I
UniRef90_B7CC63	H	T	V
UniRef90_T4W0Q3	H	T	I
UniRef90_I6T970	H	T	I
UniRef90_W6N6E5	H	T	I
UniRef90_U7UH09	H	T	V
UniRef90_A0A011RKZ5	H	T	L
UniRef90_UPI000478D9E1	H	T	I
UniRef90_R6CHZ8	H	T	I
UniRef90_F5X5E3	H	T	L
UniRef90_A0A037Z8Q5	H	T	I
UniRef90_M1ZGH7	H	T	I
UniRef90_S0K1B7	H	T	I
UniRef90_B4U1Y6	H	T	L
UniRef90_E0E335	H	T	V
UniRef90_S1NS41	H	T	I
UniRef90_A3CNJ3	H	T	V
UniRef90_UPI0003720ECC	H	T	I
UniRef90_U6BEL8	H	T	I
UniRef90_N2AK76	H	M	V
UniRef90_H1HTI4	H	T	L
UniRef90_X8J8K0	H	T	A
UniRef90_G5K5V5	H	T	L
UniRef90_L1QLS0	H	T	I
UniRef90_UPI0004051FB6	H	T	V
UniRef90_H7EM92	H	T	V
UniRef90_R5D088	H	T	L
UniRef90_G7LZD6	H	T	I
UniRef90_E4L0K1	H	T	V
UniRef90_UPI0003616DC8	H	T	I
UniRef90_W7ZDA2	H	T	V
UniRef90_R6V340	H	T	I
UniRef90_A8F6K0	H	T	I
UniRef90_C0C089	H	T	I
UniRef90_W0E5Q8	H	T	L
UniRef90_UPI000427ACAA	H	T	I
UniRef90_F9MPS2	H	S	I
UniRef90_UPI00047948F4	H	T	L
UniRef90_N2AE87	H	T	I
UniRef90_UPI00036EE94A	H	T	I
UniRef90_UPI0003B61FD6	H	T	I
UniRef90_R4K647	H	T	I
UniRef90_R7K8V4	H	T	A
UniRef90_UPI00036F8756	H	T	I
UniRef90_UPI000381FD07	H	T	I
UniRef90_UPI00037EF72F	H	T	I
UniRef90_D6GT30	H	T	V
UniRef90_E3GPE0	H	T	V
UniRef90_R6MSJ5	H	T	V
UniRef90_R5H893	H	N	L
UniRef90_S4DAR4	H	T	I
UniRef90_C6Q2R0	H	T	V
UniRef90_E4RPE7	H	T	I
UniRef90_R6UY14	H	T	V
UniRef90_R5Z5A5	H	T	V
UniRef90_D9RZT8	H	T	I
UniRef90_UPI000470D5ED	H	T	I
UniRef90_UPI0004129D38	H	T	I
UniRef90_R7HAH2	H	T	L
UniRef90_G9RNI0	H	T	L
UniRef90_J3JQ24	H	T	I
UniRef90_UPI0003FF0134	H	T	V
UniRef90_UPI00037CB07A	H	T	V
UniRef90_W8T3H7	H	T	I
UniRef90_R2QJQ3	H	T	I

UniRef90_E8QC66
UniRef90_R5QIN0
UniRef90_G5KC99
UniRef90_D5EH94
UniRef90_UPI000374B6A9
UniRef90_R6PNJ0
UniRef90_R6ZF92
UniRef90_E4L518
UniRef90_U7P9R1
UniRef90_R7GMA0
UniRef90_W4QF11
UniRef90_UPI0002DA6810
UniRef90_F4LWL8
UniRef90_D4K7C6
UniRef90_T0E612
UniRef90_S0JPU2
UniRef90_Q97QH7
UniRef90_R6NCR6
UniRef90_UPI00047096F0
UniRef90_UPI00040673AE
UniRef90_E1QD89
UniRef90_K8EFK6
UniRef90_UPI0004795533
UniRef90_H1CZW9
UniRef90_U1EQ14
UniRef90_R5L9G1
UniRef90_C3WB14
UniRef90_R8W0L1
UniRef90_S1R886
UniRef90_UPI00047D4086
UniRef90_S6ENF0
UniRef90_G6CFY6
UniRef90_R2RXX4
UniRef90_K0YMK4
UniRef90_K2GNF5
UniRef90_D8GK05
UniRef90_UPI0002F1A983
UniRef90_UPI000474C734
UniRef90_R9G954
UniRef90_R1ATU2
UniRef90_U2V5U0
UniRef90_C6JN80
UniRef90_UPI0002FA4DA9
UniRef90_A9KK86
UniRef90_UPI0003615F27
UniRef90_UPI0002F7C8FE
UniRef90_R5TQV9
UniRef90_F0KCC4
UniRef90_A0A024PE36
UniRef90_J2Z6Q2
UniRef90_N9WBW1
UniRef90_E3PTB8
UniRef90_R3TJH0
UniRef90_C0W4Y7
UniRef90_U5MNT6
UniRef90_U2PY21
UniRef90_L0KAG6
UniRef90_E6LDT9
UniRef90_C8VZU0
UniRef90_UPI000288793E
UniRef90_V717M3
UniRef90_C5EL69
UniRef90_A7HKR0
UniRef90_UPI0004038B80
UniRef90_UPI0002F480C1
UniRef90_UPI0003A41152
UniRef90_R9JNM3
UniRef90_UPI000415BDB0
UniRef90_UPI000225BA7B
UniRef90_C6VJM3
UniRef90_D1ARE6
UniRef90_F9DNK3
UniRef90_S2VPJ2
UniRef90_A8MEB0
UniRef90_I0GHC0
UniRef90_T1D1Q9
UniRef90_UPI000464561C
UniRef90_L7EFC6
UniRef90_UPI000373220A
UniRef90_W6RU99
UniRef90_E3CZD9
UniRef90_D1CCD8
UniRef90_A8UC60
UniRef90_Q03HK7
UniRef90_Q899T1
UniRef90_UPI00030225BA
UniRef90_W6T561
UniRef90_C5CHD2
UniRef90_UPI00047D71BD
UniRef90_S0L7C2
UniRef90_R9LV19
UniRef90_G9YG40

1 10 20 30 40
S H Q F C A R I V C Q H G L A E T E K E L Q L I L A H Q G I T T V E V E H P I
G R K R S V K V R H T Q Q Q E L L D E L C T I V D L G G G H I L D V V V V A E H E I
S H Y V G K I V A K H T H E E M T K E E L N L D I M V A H N G G T V L D D V S M V E H P P
R S I M C N H T I K E T M K E E L L D I M V S E G G A T V K N V M I E H P P L
R V F A C Q H G P S T T E K E E L T L M V S E G G A T V K N V M I E H P P L
C R R E I R V R C H N R E Q I G D E E M R L I V D L G G G Y I L N T H V D N H P P L
V E R V F K V R H T N R E Q M E E E L N A I V D D M G G C V K D V V V V E H P P L
S S D Y T A R L V C R H Q N D Q T F Q E E L S I I V A H G G G I V S T D V E V V E H P P L
S C R R V V M C Q H D Y D A D E M E E E L K L I V E N G G A M I D D D V I V V E H P P L
V E R V L K M Q H T D A D I E K E E L L N T I V D L G G G Y V K D D I F V Y H K A
K R M I A C K H Y R E Q A K E E L F I L V D H G L T V S Q D V M V E H A T
Q K Q T R I A V C H G D P E E S E E L L L L V D H G G C V K D V I V E H S P L
C T K Q I A V C H G D E R D T Q E E L L T F V E C G G C K V I D V I V E H P P L
G Y T G I L A C V H T Q E E M R Q E E L Y T V V D Q G G G T V V D V A V E N S L L
I V K T I V C N H P K A C I E E L N L I V D E G G A T V L D N V I V E H S P L
E R K I A V I Q S H S A Q I T R A E E L L E T I V S L G G G E V V K D V I V A H S L L
N T Y H H K L F K V K H E V E I G R E L L A I V D N G G G R V Q N I L I D H P P L
A T I A C C Q H S A N D D N Q T E E L E I I D N G G K V R D V I V E H P P L
N Q I E R I V V C Q H S S D L T E E E L L S I V D D Q G A R V I D V S I E H P P L
V R K Q I A C F H S S D L T E E E L L S I V D D Q G A R V I D V S I E H P P L
G R R A V L A C C R H D A S R V E E E L C V M V D H G L M V I V D V I V E H A F
I A C C Q H T D E K E M R E E L Y T I V D Y G G E I V N V I V E H A F
N K K L L K A I V S K H G Y D E I E D E L T T I V D L G G G K I I D V I V E H P L
G Y R K T L V C C Q H T R R H T A E E E L E M I I S A G G M V H N S I V E H P V
S F K R V I A C C Q H T R R R M A Q E E L Q I I D N G G A M I D D D V A I D H P V
Q R V F K V K H S A D K I L D E L N L I V D C G G K V E D D V F V Y H K V V
K Y I R I F C V S H K D D K M A E E L N S I V D F G G G V L D V F V K H S D V I
K L A V K H G P D Q T E E E L R L I V E N G G T V A D V I I H S L
K A V R T F K M C N T D D Q T E D A L K T I V Y Y G G V V E D D Y V N H P L
N N K V K S I V A V N N T N E T I E L L E T V V K Y G G I I E D V I I E H P L
Y Q A Q V A C Q H N Q G Q T E L E L T T I V E N G G R V I D V T V D H P L
Q G F L K K I A V R H A K D T R I E L E T I V A N G G G E L D D V I V E H A L
R L V K V R H A P E Q A E E E M L A V V N L G G A L D V I V N H R A
S Y R K T I V C C H S P S E T K E E L D I L V D H G V H V K S V V V E H P V
N L V K A V I V S H S E T N E I E D E L K T I V K F G G K V Q D V I V E H P L
K A S R V F K V F H S D S E V E E E L K L I T D C G G Y V E D V F V Y H K V V
N R V E R T I A C V H H P E R T E E E L L L V N H G V S V L D V K I E H S V V
T G Y R A Q L V C C Q H T Q A K T R A E E L T D I V Q N G G R V I D V T V D H Q V L
N N E L T K T I A C R H K E N E I E D E L K T I I D M G G E V L D V I V E H P L
R L L K V F H G P G R V G E E L R L I V D L G G G T V E D T L V V S H R A
F S R V F S V C H S D D Q I E D E L N T I V D L G G G V V D D V F V N H P V
I E R T I A C F H K P E E T E E E L L L V D D T G V T V K D V I V E H P V
K V N R C F Y V K H S T E Q I E D E L G S I V D L G G G K I I D V I V E H A I
S S N Y T A R I V C C Q H G L L E T K E E L S I I I D R Q G G V V S T V E V E H P P
S R F R G K I V C Q H L A D Q A I E E L T I I V D N Q G G Y V E N V E V D H P P Y
R V F R V N H D T E H M L D E L Q T I V D Y G G R I L D V S I E H T L
S N S L K R V L A V C H E R N A I E D E L N S V I K F G G V V E D V I I E H P L
A Y Q R T I V C C Q H K G E A D T E E E L N I L V D H G G H V L D V V V E H P I
F T G K I V C K H T P A E A E T E L R L V V A N G G Q V L D V T V A H S L
N N R Y R D V I V T K H S N E D L K R E E M E I I V D K Y G G K I E D V I I S H S
G Y R K V I A S K H T L E D L K E E L K I I V D N G G K I L D V I I S H D I
K E G L L S K I A V I H G P E G T R K E L E L I V Q H G G E I V D V I V D H P I
R R S V A V R H N S S E T A A E L R A V L A A G G T V L D T S I E H G L
K V K A I A V T H D S K E Q M F E E M S I V I K F G G I I E D V I I E H P L
S R Y K K V L A L S H K E E E M V S E L E I V I K F G G I I E D V I I E H P I
Q G V V A K I A V C C H R D D S E I K E E L A T I S K Y G G R I K D V I I E H P L
N S K R A V L A V K H M P E E T E E E L N I L V D H N I R I D V I I D H Q I
N T R L R V I A V N H D R E D S V Y K E L K T V V K Y G G T V E D V I V E H P L
K H Q R V I H V A H H D R D S I L D E L Y A I V D L G G G R V L D V R V E H K V
C M R V M R V N H N T E D T L D E L Q T I V D Y G G R V L D V S V E H G L
K V R R T I A F K H T A D D I Y D E L K T I V E N G G K V I D V I V E H P L
V L A V N H P P E L T R A E L F T L V D Y G I R V V D V L V E H P L
S I R T V V A V K H S P E V V R E E L T T M V K S G V T V V N V I V A H P L
S K G L K K I L K V R H D D S E I R T E L N E I V D F G A T V E D V E V E H E T
N R K K R T Y K V K H K D E E I L D E L F A V D M G G K I R D V V V E H G I
Y I R K I A C Q H G P E D V E K E L T I L L M G G A Q V L D V E I E H P I
V R T I V V K H T V I E Q T A D E L F T L V D Y G G I V R N V M V E H P P L
T A V L V C R H F P N E A M Q E M A L I I H A G G I I K D V E V E H P P L
R E G V L N T I V C R H S G K E L E D E L G I I V N H G G K V L D V F V E H G V V
E Q I L V C R H P E A T E E E L N I L V D H G G V T V K D V R V E H P P L
R R E F W V R H D Y L A T K T E L E I I V E H G G R I L D V V K I D H P Q
N R I K R I A C K H G Y S P I R E E L Q I M L D H G A T I V D V I V E H P L
K F V R L I A V R H E K G D I R K E L E I V D S N G G E V L D V I V E H P V
S T G V R D A F G V R H A P E S A D L E L S T L V D L G I T V I D V V Y H P I
S F V R V F R S T H R T E D T L S E L Q T I V D Y G G R L L D V S I E H E V
R L K K I L A L C H S V I E D I E D E L L T I V K W G G Q I E D V I I E H K L
K A Q Y I K K I A C Q H S E E L V K E L E I I V S G G G Q I L D V I E H P L
G I R K V I A V N H D E N Q I K D E L E I I I K Y G G V V E D I T I E H P L
S V R R I V A V R H D Q E D I F D E L V A V V E A G G R V V D V V V D H P V
E V V V R H R P E D T P K E L Y S L V D V G V R I V D V V V A H P P L
N K F V G Q L A S D H S A S E T K A E L Y A V V D N G G E V V D V I V E H P I
N H R F E E M I V C R H F P D Q A E R E M E L I V K E Q V T I K D V M I D H P L
K I I A L S H D R Y E E D E L K T I V K Y G G V I R D V I V E H Q L
F K R T I A C Q H N F E H M A E E L Q I I L D N G A M I D N V S I D H P V
T A V L V C R H F P S N T Q D E M Q R I A A G G I I K D V M I E H P P L
Q K T V K K L V A V A H G S E N I M D E L L T I V R N G G S V V D V I V E H P L
K N K I K T I V A K H T Y T E M E E L Q I M I D Y G A K V I D V I V E H P L
K I A V I H S P E Q T A E E L H T I V A H G G E V I D V V I V E H P L
Q K E F K M H H A A N R T E E L F T I V D H G G R V K N V S I S H R V
T G K R L V V C K H G P D E A E H E L R T I V A K G G T V C N V T I E H D V

		50	60	70	80
UniRef90_E8QC66	Y	G	M	I	T
UniRef90_R5QIN0	Y	G	Q	I	T
UniRef90_G5KC99	Y	G	G	L	T
UniRef90_D5EH94	Y	G	E	L	T
UniRef90_UPI000374B6A9	Y	G	D	L	T
UniRef90_R6PNJ0	Y	G	S	L	T
UniRef90_R6ZF92	Y	G	R	M	T
UniRef90_E4L518	Y	G	M	L	T
UniRef90_U7P9R1	Y	G	S	L	T
UniRef90_R7GMA0	Y	H	I	V	T
UniRef90_W4QF11	Y	G	E	L	T
UniRef90_UPI0002DA6810	Y	G	E	L	T
UniRef90_F4LWL8	Y	G	E	L	T
UniRef90_D4K7C6	Y	G	E	L	T
UniRef90_T0E612	Y	G	Q	L	T
UniRef90_S0JPU2	Y	G	E	L	T
UniRef90_Q97QH7	Y	G	E	L	T
UniRef90_R6NCR6	Y	G	E	L	T
UniRef90_UPI00047096F0	Y	G	D	L	T
UniRef90_UPI00040673AE	Y	G	D	L	T
UniRef90_E1QD89	Y	G	E	L	T
UniRef90_K8EFK6	Y	G	E	L	T
UniRef90_UPI0004795533	Y	G	E	L	T
UniRef90_H1CZW9	Y	G	T	L	T
UniRef90_U1EQ14	Y	G	T	L	T
UniRef90_R5L9G1	Y	G	V	V	K
UniRef90_C3WB14	Y	G	D	I	T
UniRef90_R8W0L1	Y	G	Q	I	T
UniRef90_S1R886	Y	G	E	L	T
UniRef90_UPI00047D4086	Y	G	R	V	E
UniRef90_S6ENF0	Y	G	E	L	T
UniRef90_G6CFY6	Y	G	E	L	T
UniRef90_R2RXX4	Y	G	E	L	T
UniRef90_K0YMK4	Y	G	K	L	T
UniRef90_K2GNF5	Y	G	D	M	K
UniRef90_D8GK05	Y	G	E	L	T
UniRef90_UPI0002F1A983	Y	G	I	V	T
UniRef90_UPI000474C734	Y	G	D	L	T
UniRef90_R9G954	Y	G	E	L	T
UniRef90_R1ATU2	Y	G	E	L	T
UniRef90_U2V5U0	Y	G	R	L	S
UniRef90_C6JN80	Y	G	N	L	K
UniRef90_UPI0002FA4DA9	Y	G	D	L	T
UniRef90_A9KK86	Y	G	T	I	T
UniRef90_UPI0003615F27	Y	G	M	L	T
UniRef90_UPI0002F7C8FE	Y	G	I	V	T
UniRef90_R5TQV9	Y	G	Q	I	T
UniRef90_F0KCC4	Y	G	E	L	T
UniRef90_A0A024PE36	Y	G	D	L	T
UniRef90_J2Z6Q2	Y	G	E	L	T
UniRef90_N9WBW1	Y	G	E	L	T
UniRef90_E3PTB8	Y	G	D	I	T
UniRef90_R3TJH0	Y	G	E	L	T
UniRef90_C0W4Y7	Y	G	Q	I	T
UniRef90_U5MNT6	Y	G	E	L	T
UniRef90_U2PY21	Y	G	E	L	T
UniRef90_L0KAG6	Y	G	Q	L	T
UniRef90_E6LDT9	Y	G	E	L	T
UniRef90_C8VZU0	Y	G	E	L	T
UniRef90_UPI000288793E	Y	G	E	L	T
UniRef90_V717M3	Y	G	S	I	T
UniRef90_C5EL69	Y	G	H	I	T
UniRef90_A7HKR0	Y	G	E	L	T
UniRef90_UPI0004038B80	Y	G	E	L	T
UniRef90_UPI0002F480C1	Y	G	E	L	T
UniRef90_UPI0003A41152	Y	G	K	I	T
UniRef90_R9JNM3	Y	G	Q	I	T
UniRef90_UPI000415BDB0	Y	G	L	T	G
UniRef90_UPI000225BA7B	Y	G	D	L	T
UniRef90_C6VJM3	Y	G	R	L	S
UniRef90_D1ARE6	Y	G	E	V	K
UniRef90_F9DNK3	Y	G	D	V	S
UniRef90_S2VPJ2	Y	G	E	I	S
UniRef90_A8MEB0	Y	G	E	I	T
UniRef90_I0GHC0	Y	G	E	L	T
UniRef90_T1D1Q9	Y	G	E	L	T
UniRef90_UPI000464561C	Y	G	E	L	T
UniRef90_L7EFC6	Y	G	E	L	T
UniRef90_UPI000373220A	Y	G	I	V	T
UniRef90_W6RU99	Y	G	E	V	T
UniRef90_E3CZD9	Y	G	E	L	T
UniRef90_D1CCD8	Y	G	E	L	T
UniRef90_A8UC60	Y	G	E	L	T
UniRef90_Q03HK7	Y	G	Q	L	T
UniRef90_Q899T1	Y	G	E	L	T
UniRef90_UPI00030225BA	Y	G	E	M	T
UniRef90_W6T561	Y	G	Q	L	T
UniRef90_C5CHD2	Y	G	E	L	T
UniRef90_UPI00047D71BD	Y	G	E	L	T
UniRef90_S0L7C2	Y	G	E	L	T
UniRef90_R9LV19	Y	G	R	I	T
UniRef90_G9YG40	Y	G	S	L	T

UniRef90_E8QC66 H L I S C P S Q E S F E A M S Q D L E A A G L L Y
UniRef90_R5QIN0 H T I S E A E T E D V L D R I E Q T L S E K G Y L L S D
UniRef90_G5KC99 H T I S C A S Q E E F F L K I K R S L K K E A N L L L D E
UniRef90_D5EH94 H T I E V P S N D A T F Q K I L A A L K K K K G Y L L M D
UniRef90_UPI000374B6A9 H T I V E A A S E D T L D R V E K K L Q E H G F L L
UniRef90_R6PNJ0 H T I V A A S E D E Q T L D E I C A E L Q N A G Y L M K
UniRef90_R6ZF92 H T I V S A A D S R R E T L D A I E E M L R Q R G F L V E E
UniRef90_E4L518 H L V S C P D Q R S F E K L K E E L S A V G I L L Y H D
UniRef90_U7P9R1 H T I L S A D T E K L L D N A I D D D L N R N G G F L A E
UniRef90_R7GMA0 H T I C A E T D E R L D E I Q D A L S K L G Y L A K
UniRef90_W4QF11 H L V E A A T E A Q I D K A V L E L S R K G F L L D E E
UniRef90_UPI0002DA6810 H T I V E A A D S S K Q L D E A C D A L R E A G I L V E E
UniRef90_F4LWL8 H T I V E A I N F D C I S R A E K L L K E K G F L L E
UniRef90_D4K7C6 H T I R C P D K D T F A R T R A A L E Q Q G L L Y
UniRef90_T0E612 H T I K C E N D E E L Q S V L K S L K E K G Y
UniRef90_S0JPU2 H T I R Y K E D D E M F E N I E K A L A E K G I L L Y Q Q
UniRef90_Q97QH7 H L V E A A E T Q Q D L H Y I E E A L D Q L G Y L V K D
UniRef90_R6NCR6 H T I E I P N M E T L E L L K T E L N K A H I L L I
UniRef90_UPI00047096F0 H T I V M A D N V K Q L D Q A F V A L R K A G I L V E
UniRef90_UPI00040673AE H T I V E A P S S R V I E D V E R A L L E K Q F L L
UniRef90_E1QD89 H T I V E H A D Q A A F D Q A V A E L G R R G L L V
UniRef90_K8EFK6 H T I A C K D K K T F L K I K A E T K L G I L L Y Q N
UniRef90_UPI0004795533 H T I E V P S E E V F Q Q I K I R L K E K K Y L I D
UniRef90_H1CZW9 H L V E T K E K E D M D R V E E S L R K A G F L Y E D
UniRef90_U1EQ14 H T I S A H T E K I L D N A I T D L K Q H A F I V D
UniRef90_R5L9G1 H T I V T A D S K E T L D E T Q E E L Q K Q G Y L V
UniRef90_C3WB14 H T I V E A E N E E L D L I E N E L R N K D I L L Y E
UniRef90_R8W0L1 H R L R C P N A E V Q A R V L Q A L K D K G F L L E
UniRef90_S1R886 H T I Q Y S D E E T L V K I K Q A L S Q A G I L L E E
UniRef90_UPI00047D4086 H T I V S A E S E E L D L I E E A L L K K N Y L I
UniRef90_S6ENF0 H T I S T D T E D D M K S I K M E L K E K G F L L
UniRef90_G6CFY6 H T I E C A S E Q R F K Q I V A A L K Q I N I Y Y N
UniRef90_R2RXX4 H T I R Y Q K P E D I E K I Q A A L L E K G I L Y Q E
UniRef90_K0YMK4 H H I A A Y G P D V L D E I E K V L G E K G F L A E
UniRef90_K2GNF5 H E I A S E R E G A L H E A L R E L G E R G F L V E
UniRef90_D8GK05 H T I V A E N D D I K N I K R E L K E K K Y I I S D
UniRef90_UPI0002F1A983 H T I V S A P S A E R L D F I Q T E L Q K R G F L A K
UniRef90_UPI000474C734 H T I A A S T E E A L N Q A E K A L R E N G F L I D
UniRef90_R9G954 H T I E C A S E E Q D F E R I K A A L S A L D I L L Y
UniRef90_R1ATU2 H T I K V P S E D V F D K I K N K L E E K G Y L I K
UniRef90_U2V5U0 H H V S A R D E E A T L D A I E E A L G S A G F L A E
UniRef90_C6JN80 H T I V H S D S E E V L E L E K E L K E K G Y L
UniRef90_UPI0002FA4DA9 H T I A A T S D Q I L D E A E A A L K A A G F L V T E
UniRef90_A9KK86 H T I V E A D D E S S L D R T E S V L K E K G Y L I D
UniRef90_UPI0003615F27 H L I S C S T K E D F E A I K L A L E E A G L L Y
UniRef90_UPI0002F7C8FE H T I T T P D E A I F D A I K A D L N S V G I L L D E
UniRef90_R5TQV9 H T I V A A E S E K N L D M I E M E L Q R K G Y L
UniRef90_F0KCC4 H T I R T D N E E D M N N I V D E L T R K N Y I I S D
UniRef90_AA024PE36 H T I A A D S
UniRef90_J2Z6Q2 H T I S C A D A A Q F N V I K A K L A D A G I L L Y
UniRef90_N9WBW1 H T I S S I D K E S M Q L I K K E L K D E G F L V
UniRef90_E3PTB8 H T I E V N K K D D M T D I L K E L D E K G Y L I A E
UniRef90_R3TJH0 H T I R Y E K E T Q L E E I K Q A L L E A G I L L Y Q
UniRef90_C0W4Y7 H T I E A E S E E V L D A V E Q A L D R L G F L Q K Q
UniRef90_U5MNT6 H T I A A D T E D D L E L I I S E L K E R N F V V S D
UniRef90_U2PY21 H T I S T D N E Q D M Q L I I E N L E K A G Y I L K D
UniRef90_L0KAG6 H T I V E A L N Q E V L E L I K Q A L E E R G Y L L T E
UniRef90_E6LDT9 H T I V R C E S M E Q V G K I L K D A L R K K N L F E E
UniRef90_C8VZU0 H T I V E Y E D D L N L Q K A K E K L S Q Y N F L A K
UniRef90_UPI000288793E H T I T V D S I E D M E N I L K E L K N E N I L D N
UniRef90_V717M3 H T I V A A D S E E D L D A I I S E L K S K G Y L M D
UniRef90_C5EL69 H T I V A A Q S E E R N L N L I E E A L D K K G Y L M R D
UniRef90_A7HKR0 H T I V E A P D E E T M E R L L K A V E K
UniRef90_UPI0004038B80 H T I V E C E D E S L L T E A I A E L R R Q G I E V H E
UniRef90_UPI0002F480C1 H T L E A P D T I E R A K W A L A H K G F L L Q
UniRef90_UPI0003A41152 H T I V A E N S E N L N E V E N R L R E I G I L V E E
UniRef90_R9JNM3 H T I V E A D S E E A L N R I G E E L E R K G Y L I
UniRef90_UPI000415BDB0 H T I V C F P S V I Q A Y Q D L L N E L R E A G I L L E N
UniRef90_UPI000225BA7B H T I V E A Y E E E V Q L I E E A C E A L R K L G I L L E
UniRef90_C6VJM3 H T I V A Y Q T P E Q L T A I K A A L R D A G Y L Y E N
UniRef90_D1ARE6 H T I V E T T N K E S F E K I K N E L L K K G Y L I
UniRef90_F9DNK3 H T I S A P R E E Q L T E A E Q A L K K R
UniRef90_S2VPJ2 H T I V E A D N E E T L D A I E A A L G E H G F L S E
UniRef90_A8MEB0 H T I V E I A N E K I F E D L K K A L D E K G Y L I K D
UniRef90_I0GHC0 H H I G A D G E E L L D K L I E E K L K N E G I L L
UniRef90_T1D1Q9 H T I V E A T D H E T L S A G R A A L R E L G I L D E D
UniRef90_UPI000464561C H T I V A A D S I K N L D R T Q Q E L K N K G F L V E E
UniRef90_L7EFC6 H T I T A K D E K S I E N I L R E L K N K N Y L I S D
UniRef90_UPI000373220A H T I S C P S K E M C D K I L R E Q L K K E N I L L
UniRef90_W6RU99 H T I Y T D N K E S M D K I I N E L I K S G Y L I
UniRef90_E3CZD9 H T I L E A P D E A T L D R V E R A L K E K G F L
UniRef90_D1CCD8 H T I L A A R D R K Y L D E A L R V L E K L G F L I K E
UniRef90_A8UC60 H T I A C A D K K T F D R I K K
UniRef90_Q03HK7 H T I L A A D K M E N I E K A K E Q L K K V G I L L Y K E
UniRef90_Q899T1 H T I L T E T K E Q M D N I Y E L D K K G Y L I K
UniRef90_UPI00030225BA H R I S A D T K K I L D N A V R D L I E H G Y I I Q D
UniRef90_W6T561 H T I A Y D T P E Q L V A I K K S L R L A G Y L Y E E
UniRef90_C5CHD2 H T I V E A P N Q K I M D T I I K N L D E K G Y L L K
UniRef90_UPI00047D71BD H T I L E V P N E D S F K K I R K A L L E K G Y L I E D
UniRef90_S0L7C2 H T I V A Y E A I E N L T E I K Q A L S E K G I L Y E E
UniRef90_R9LV19 H L V E A D N D Q R L Q I E Q K L K E A D L L
UniRef90_G9YG40 H L I E A P T R A V M D E I I K A L H K E G F I Y

UniRef90_H6LG36
UniRef90_R2XGR0
UniRef90_UPI0004179EC3
UniRef90_UPI0003B43191
UniRef90_UPI0004797021
UniRef90_UPI0003667F73
UniRef90_S2XW39
UniRef90_A0A023VJ33
UniRef90_UPI000370AB38
UniRef90_UPI000401F847
UniRef90_F2JRX9
UniRef90_T0U1E4
UniRef90_U1PXD5
UniRef90_UPI000308118F
UniRef90_T0BQP3
UniRef90_E4KQL5
UniRef90_F5ZJM2
UniRef90_C5R9M4
UniRef90_B1QV20
UniRef90_D4JFQ9
UniRef90_H3NFP3
UniRef90_D9SML5
UniRef90_K9AVF2
UniRef90_K1MH94
UniRef90_R5BLQ6
UniRef90_C9A9S5
UniRef90_B2THC2
UniRef90_UPI00016C002A
UniRef90_A6TJ95
UniRef90_A6LJ67
UniRef90_UPI0002490B39
UniRef90_UPI000368B073
UniRef90_C7RED9
UniRef90_G6C1C5
UniRef90_R7B5P5
UniRef90_UPI0002896249
UniRef90_S0P2T9
UniRef90_X8K2X3
UniRef90_C2CK46
UniRef90_J0L6B3
UniRef90_F9ECX9
UniRef90_R5J4S3
UniRef90_M1ZC74
UniRef90_B0K3B3
UniRef90_T3IM22
UniRef90_I2F2T2
UniRef90_F0GXR6
UniRef90_R5X9Y9
UniRef90_R6AJS3
UniRef90_K0AV14
UniRef90_UPI0003B5340D
UniRef90_F8IA85
UniRef90_D5WPC4
UniRef90_J0XA15
UniRef90_M5EFK1
UniRef90_I3DKN9
UniRef90_E5BGG8
UniRef90_UPI0003706CD5
UniRef90_UPI000375B346
UniRef90_D4W882
UniRef90_UPI00046D4455
UniRef90_R7M099
UniRef90_U4KK03
UniRef90_D2RP20
UniRef90_D9PYC6
UniRef90_D9PYC6
UniRef90_D9PYC6
UniRef90_UPI000411900F
UniRef90_P56509
UniRef90_P56509
UniRef90_P56509
UniRef90_A0A023CVL3
UniRef90_F0TAF0
UniRef90_U6EE65
UniRef90_D2RMC5
UniRef90_F5WV40
UniRef90_D9PUV9
UniRef90_B7DNT7
UniRef90_E3GVX9
UniRef90_F0T893
UniRef90_F0T893
UniRef90_F0T893
UniRef90_K2R632
UniRef90_K2R632
UniRef90_K2R632
UniRef90_Q2NH96
UniRef90_F6D425
UniRef90_F6D425
UniRef90_F6D425
UniRef90_D6DZH2
UniRef90_D4KG85
UniRef90_Q8TVH7

1 10 20 30 40

S E K L I S K I A V Q H G P E Q T E E E L H T I I V D S G G M V I D V V I E H P L
R R S F P V Q H T R D E I A A E E L E A I L Q E G G G T V I D D T S I E H R L
I T C K H S L A D C E E E L E T I V K F G G I V E D V I I E H K L
K N Y S K V L A V S H S P E E I E E E L E T I V A N H V I T V E D V I I E H P V
K S Q Y R E V L G I T H P E Q L L K R K E L L T I V A H G G I V E D V I I E H P V
S H Y Y S G R I V C K H S P E E T Y Q E E L S I I L V E Q G G Q I L T V E I V D H P V
Q H Q F Q A K V V C K H G P E A V Q E E E F E L I A N G G G R I L D V V E I H P L
R R S L L V Q H T R G Q I P A E E L S A I L D A G G A V I D V V I E H R L L
S N M L Q R V I W V K H T H D E A E D E L N T L I D N G G R V R N V I I M H P V
T G H V S K L A V V Q H T R P E Q T E E E L L T F V S G G G S E V I D V I V E H E R L
H R S I F V Q H T R E D I A I E L S A I I K V G G S V L D V V I V E H R L V
Y K R V I V C Q H N N E R M E E E L S A I I D N G G A M I D D V V A I V D H P V
S K Q T A V I A V S H T P E Q T P V I E L N T F V D C G I K V I N V R V I E H S V
Y R D R I C C R H S L S E Q T Q R E L E I V L D D G G A F E S V V E I D H P I
N S N F T G R I V C Q H S I E M T E D E L D I I V S H G G V V S T V E I V E H P I
N Q P H H T I L V V Q H T A D P E I E Q E L T A L V D A G G V I V A D V I V D H S V
K V K T I L A V V K H K E S E M F D E M S T V I K Y G G V I E D V I V E H S L
I K R E I V Y C H T D E M I E D E L N T I V D L G G K I V E N V I V I D H A I V
N L Y K G K V A V Q H T A E Q T F S E L H A I I N A G G I L Y D I Q I D H P V
N K D L K K V I A V F H D E K D I E T E L S I I V N A Y G G I E D I R V E I H A V V
A F K R V I M C Y H S M G Q T Q D E L E I V I D N G G A M V D D V V E H S V I
Y T G K I V C Q H G L D Q T A T E L Q A I V D L G A R L T D V V E V D H P I
Q G V L R T I T C R K P E D V V I E L H T I V A M G G L V H N V S V N D H P V
G H V S K L A V Q H R P E Q T E E E L R I F V A C G V E V I D V I V E H E I L
N K I K A I I A V N K H E E E L L Y K E M S I V I K Y G G T I E D V I I V E H S L
I V I T C K H D L N D L Q K E L Y T I I D C G C G I L D V I I Y H E I L
K K G L T K T V V S K H E N Y E E M E E L Q I M I D H G A R V D V I V E H P L
K D R V R K M V A V K H G E E E L Y D E L F R I V S A G G K V I D V I V E H P L
T V V C Q H D L N E Q T S Q E M L T I R D G G T I L D V V I V D H P L
T G Y E R I V A C V H P D K T E E E L L L L V D L G V L V K D V K I E H P V
S S K I Q F I I K C S H R D D S E I G D E L N I V D R G G E I L D V V I N H K T
G I K K I I K V K H D D S E I R N E L N A I V D L G A S I E D V I V I H K T
S K V R R T F C V S H T D D Q I E D E L N C I V D N N G K V S D V I V E H Y I
L Q L L V D A G V S V K D V T I V D H P I
T G K E V T I A V C H T P E E V L D E L T L F V T H I I D V I N V M V D H A I
Y I G T I A C K H Y S D N M L D E L Y T I V D F G G T C I D V K I D H I L
G L V K C K H D D F M I G E E L N T I V D N G G E I L D V V I N H K T
S R Y H G L I A C Q H T I E E T R L E L E T I V N M G M E I E D V I V D H S L
R R P L L V Q H T R E Q I P L E L S T V L D A G G A V I D V S V D H R L I
F R K T V K V R H D F S R L R E E L Y I M V D G G T R V I D V V V D H K I
A F Q E V I G I T H T P E Q L R R E L E I L V A H V S I L D V M I E H P V
N T V K R V F A V K H G Y E R T E E E L N I V D N G G K V L D V I V E H P F
F T K Q I K C K H D E D I Y D E L K I I V D L G G I K D V I V N H P T
F R M V V S K H H K E D E I Y D E L S E I I T A G G H I V D V S V I H A V
K D K I T F I K S T H D D S R I K E E L N T I V D A G G R I V D V V I N H K T
K I K C K H S D E E L Y D E L Q T I V D L G G I V K D V I V E H P T
K K A C L R L V C N S H D R E A T G K E L T A L V R A G G L I H D V R V E H E I
N N K I L K T I V S K H S I D E V E D E L V T M V D Y G A K I V D V I V E H P I
R H R R V I V V H Q A D E V E T E L L S L I D A G V S V Q D V V V D H P L
K A V L S V R H P P D K T A T E L L Y T L I G H G L V V K D V M V D H P L
G V T I K D V I D P P V I
T T V K T S I A C S H G D E E L K D E L L T V V N Y G G R V I D V K V E H P I
T Q F E K V L C V S H T D A Q I E E E L N I M V D L G A T V Q D V V S H N V
F F S R H S L Q E M K E L E I I V D Y G G K L N I Q V E H E L
K I K C N N E E H L L E L Q T I I D L G G K V K D V I V D H P T
T L A M Q H K H Q D T R K E L E L F I K H H A Q V L D V T V E H P I
T G V L K T I C K H G Q R I E E L E T E L E L S F G G K V L D V V V E H P I
Y Q G I M N V E H P I
K H G V Q E S F L C R H G A D Q V E A E L N A I V D N G G V V H N V V E H E V
I I V K H S F E E T L E L I V V K N N I I Y D V T I N H P S
D T S A R D E M N I V V D N N G M I V S I T L V P D F
K H D L G N M D D K E T I I R R G G R I L D S K H Y L P G
K H D L G N M D D K E T I I R R G G R I L D S K H Y L P G
K H D L G N M D D K E T I I R R G G R I L D S K H Y L P G
V I V K H T P K E T I K E L T A L V N A N V I V L D V I T I N H P T
K S G T V V D I L V Q H D V K N L E D K K T V V K Y G G R I L T S K H Y L P G
K S G T V V D I L V Q H D V K N L E D K K T V V K Y G G R I L T S K H Y L P G
K S G T V V D I L V Q H D V K N L E D K K T V V K Y G G R I L T S K H Y L P G
M E N I I S L G G E V V D V L T E H S V
G I C K V M L F K H S V D Q L E E E T S I I L D Y G G R M V D V S Y F L P G
I C K E L T F Q H S V D Q L E L E T D I I L K Y G G R I M D I T Y S L P G
G F H Q E I H C Q S D D G E L T E A E L N V V V D N G G I V H G L V L S H P I
T L A M Q H S H H D T Q A E L E I F I K H H A H V I D V T V E H P I
C A E V T L Q H P V E R L G E V I D I I K H G G R I V D V S Y P I P G
V R V I H A I
C C K R I V L Q H P V E D L K K V V E I V I K Y D G R I V D V S Y P I P G
V R H R P S E L D D K R I I I E N G G R I L D S K H Y L P G
V R H R P S E L D D K R I I I E N G G R I L D S K H Y L P G
V R H R P S E L D D K R I I I E N G G R I L D S K H Y L P G
R H E P G V T T D K K I I I S N G G R I L D S K H Y L P G
R H E P G V T T D K K I I I S N G G R I L D S K H Y L P G
R H E P G V T T D K K I I I S N G G R I L D S K H Y L P G
R H E P G V T T D K K I I I S N G G R I L D S K H Y L P G
N E V S R I V F V R H T V D D I D L E R E I I T K H G G R I T D I S Y Y I P E
M K H E V G I T D D K R V I V E L G G R V L D S K H Y L P G
M K H E V G I T D D K R V I V E L G G R V L D S K H Y L P G
M K H E V G I T D D K R V I V E L G G R V L D S K H Y L P G
A T I A C Q H N D D N L Q T E L E I I D N G G K V R D V I V E H P L
T V I V R H D L D E V E K E W R T I V E N G G T I L D V R F H V P E

UniRef90_H6LG36 Y G K I Q V D L F L 50 A T R Q A D V D A F V M G L E K K T S 70 M K L T D R Y H 80
UniRef90_R2XGR0 Y G E L V G G L H L M L R Q R A D V D A F V M G L E K K T S 70 M K L T D R Y H 80
UniRef90_UPI0004179EC3 Y G Q I V G D L I L N L R N R A D V D A F V M G L E K K T S 70 M K L T D R Y H 80
UniRef90_UPI0003B43191 Y G V I T K G E L I N L K R N R A D V D A F V M G L E K K T S 70 M K L T D R Y H 80
UniRef90_UPI0004797021 Y G E I R G I L L M I K T T L R D V I Q Q N F M S E K L K K Q Q S E P L F S S L T T T D G G G I H H L Y
UniRef90_UPI0003667F73 Y G R I K G E L L M I K R T S P R E N D V I Q Q N F M S E K L K K Q Q S E P L F S S L T T T D G G G I H H L Y
UniRef90_S2XW39 Y G T I Q G A E L M I K N E E D D I A F L F L E A L K K D S K G G H F L F S S R L T T T D D L G L L H L L S
UniRef90_A0A023VJ33 Y G M L T A P L L N I K N E E D D I A F L F L E A L K K D S K G G H F L F S S R L T T T D D L G L L H L L S
UniRef90_UPI000370AB38 Y G L I T A D L L N I G R N R E P D I A E A F F L S R L V T S S S L L A E L L T T T D D L G L L H L L S
UniRef90_UPI000401F847 Y G Q I T A D L L M I K T R R R E I K A Q F V E K L K E T S T K A S T L L S S L T T T D D G G M H M L
UniRef90_F2JRX9 Y G E V V A D L L M I K T R R R E I K A Q F V E K L K E T S T K A S T L L S S L T T T D D G G M H M L
UniRef90_T0U1E4 Y G E L T G N L R I K T R S P E D L V L A D F M R A R L P R S T A R L L S S E L L T T T N G G W H H L
UniRef90_U1PXD5 Y G Q I T V D L L I L K R S P E D L V L A D F M R A R L P R S T A R L L S S E L L T T T N G G W H H L
UniRef90_UPI000308118F Y G N I K A N L L M I E S T Q R D D L V D E K F I H A M N K A F E G Q M L A T H L L S S L T T T D N N V V H L
UniRef90_T0BQP3 Y G E I V G N L L I L S R R R Q D D V I Q S F M S L T Q D A E K Q A G A P F L L S S L T T T Q G G I H H Y
UniRef90_E4KQL5 Y G L I T A S L L A I Y I S G D Q D I Q S F M S L T Q D A E K Q A G A P F L L S S L T T T Q G G I H H Y
UniRef90_F5ZJM2 Y G M L V A S L L A N I K S K E D I I D F I Y K V N Q H E Q T G A E L L S S L T T T N G G L L H H S M M L
UniRef90_C5R9M4 Y G L I K G E L L A M I Q N T N A D V L K N K F I A K Y S T Q E G R L L S S V L T T T N G G L L H H S M M L
UniRef90_B1QV20 Y G E I K G V L L A V I K N N E L N E L N K F I A K Y S T Q E G R L L S S V L T T T N G G L L H H S M M L
UniRef90_D4JFQ9 Y G R I E A N L L N I H S R K S D V I K N N F V N E T T L K K K P L T T E L L T T G G G K H H L G
UniRef90_H3NFP3 Y G L I T A P L H I E T H P S S H F M E E M S H Q K G S K P L S S A L L T T T G G G V V H H L
UniRef90_D9SML5 Y G E I T A M L M I E T H E D I E Y F I T S M S K E N S H L L A S H L L T T D D N Y L L S
UniRef90_K9AVF2 Y G T I K A E L M I E T H E D I E Y F I T S M S K E N S H L L A S H L L T T D D N Y L L S
UniRef90_K1MH94 Y G L L T A P L P I E K Q A D I D E Y F M Q S K K H D D S P S G L L S S R L L T T E G G V H H S T
UniRef90_R5BLQ6 Y G T L T A P L I K I T D D D I D E Y F M Q S K K H D D S P S G L L S S R L L T T E G G V H H S T
UniRef90_C9A9S5 Y G E I T G N L Q I Q T D D Q D V L T D F L Y K T K H A E A R L L S S D L L T T K G G V V H L
UniRef90_B2THC2 Y G E I R G L L M I K N Y K N E A D N K F A E K Y K N G G R L L S S V L T T T N G G I H H S
UniRef90_UPI00016C002A Y G K I V G K L L D I S Y G Q E L K M F M K K I R T E S K A T E P L L S S L T T Y G G I H H L
UniRef90_A6TJ95 Y G E I R G M L D I S Y G Q E L K M F M K K I R T E S K A T E P L L S S L T T Y G G I H H L
UniRef90_A6LJ67 Y G E I T G R L L D I E T E D I A K F M A L M Q S K N A T P L L S S R L L T T S D G G I H H S
UniRef90_UPI0002490B39 Y G Q L T S G Q L L T V S E A D V I A K Q F M Y H L R Q Q F K H L L S E L L T T S D G G I H H S
UniRef90_UPI000368B073 Y G D L T A S I M V S N R K E A L H F L E K I N E T N A S A Y L S E L L T T S G G V H L
UniRef90_C7RED9 Y G L I K K E L L N I K S R K G D V D L V E I K S I D E S K L S T P L K N L T T E N H H Y
UniRef90_G6C1C5 Y G E I R V K L L D I N S R R K D V D L V E I K S I D E S K L S T P L K N L T T E N H H Y
UniRef90_R7B5P5 Y G Q I T V D L I I N S R R K D V V K D F L A R L N S N H S D R P L N G L L T T N G G V H H L
UniRef90_UPI0002896249 Y G E L T A S I M V S N R Y D A D V F M S K I D E A D K A T P L K N L T T E G G A H L L
UniRef90_S0P2T9 Y G D I Q S P I E T S S R Y D A D V F M S K I D E A D K A T P L K N L T T S D G G I H H Y
UniRef90_X8K2X3 Y G E I T G Q L D I S S R Y D A D V F M S K I D E A D K A T P L K N L T T S D G G I H H Y
UniRef90_C2CK46 Y G L I K K N L D I K S R N G V I D D S F K S I D E A D K A T P L K N L T T Q G G I H H Y
UniRef90_J0L6B3 Y G Q L V G T L G I I S T L H D I D S F M S R A E K G N S H L L L L A E L L T T N G G W H T Y
UniRef90_F9ECX9 Y G Q I T A D L L I R I S D R R N D L Q A F L A R L S D S S L L A E L L T T N G G W H T Y
UniRef90_R5J4S3 Y G S I S A S L D I L S R T R P K D I V D E F V E S F K S N A N D M S L L S E V T T G G G H H Y
UniRef90_M1ZC74 Y G K V R G E L L M L S S R Y D V I S K F M G F V K E G K A T L L S S L T T D G G V H H Y
UniRef90_B0K3B3 Y G E I K G L L M L S S R Y D V I S K F M G F V K E G K A T L L S S L T T D G G V H H Y
UniRef90_T3IMZ2 Y G Q I T A E L L Y S T S K M D I D N R F M K A L K E T S N A F K Q L S V L T T E G G V H H Y
UniRef90_I2F2T2 Y G E L K G K L D I S T I D D L N R F A A L K A S Q A T V P L K N L S S L T T A N V H H Y
UniRef90_F0GXR6 Y G T I R K D L D I K S R N G V L D S F I K S I D E S K L S T P L K N L T T A N V H H Y
UniRef90_R5X9Y9 Y G V L K A E L N V I S T N E D A V K F M E K A T T N E F K Q L S D V L T T S P D D Y H H L
UniRef90_R6AJS3 Y G E L H G Q L I K S E E D A V S F V R A M Q D R G S P L L S S D I L T T D G G I H H L
UniRef90_K0AV14 Y G E M R G I L L D I G Y K D E V N E F L K E V K N G N A E F L L S S L T T T D G G I H H L
UniRef90_UPI0003B5340D Y G L L K G E L L E L Y T R A D V D A F L A N Y H Q R Q A T L L S S L T T T D G G I H H L
UniRef90_F8IA85 Y G E L S G A L E L R S R K D V D E M F L R E V D R A Q A T L L S S L T T T D G G F H H M Y
UniRef90_D5WPC4 Y G R V H G R L D I A T T P E D L A H F L E I R A R S P A P L F S S E V T T G G G L H H Y
UniRef90_J0XA15 Y G D L P A A I R V I S T R K E V K D N F M D H I N S N T N A A Y L S Q L L T T G G G V H L
UniRef90_M5EFK1 Y G D L S G N L S N I K E V D K N F I K N Y D N N E A Q L L S S L T T E G G V H L
UniRef90_I3DKN9 Y G I I R V E L L N I K S R R D I Q K L L E D I W K G L S Q P L K Q L T T K D F H H Y
UniRef90_E5BGG8 Y G L I T S N L C I Q A N R L D I E L F L E K L Q E T N S K Q L S S F L T T N G D Y H S
UniRef90_UPI0003706CD5 Y G T I K A E L L N I Q S H E D I D Q F M D K K P E L L A S L T T N G G I H H L
UniRef90_UPI000375B346 Y G Q L T G Q L N I N Q S H E D I D Q F M D K K P E L L A S L T T N G G I H H L
UniRef90_D4W882 Y G E I R A V L L N I C I Q A N R L D I E L F L E K L Q E T N S K Q L S S L T T E G G I H H Y
UniRef90_UPI00046D4455 Y G M L T A P L N I Q S Q K D I D N F T A K L K V S N A E L L S S L T T D G G L H H T
UniRef90_R7M099 Y G F M E G E L L N L R S R R D V Q L Y I Q R M K E T K A P L L S S T M S N G G I H H T
UniRef90_U4KK03 Y G L L K G E L L N I K T N R D D I T Q F I L E N F R K Y N L L S S L T T S D G G I H H V
UniRef90_D2RP20 C G P I Q A F L L N I K N R R D V I N Q Y I L E N F R K Y N L L S S L T T S D G G V H H
UniRef90_D9PYC6 V R Q V T R N L N I R N M D D L R R R C Q E E L E K P D A R R L Y S I S R N N I H H S
UniRef90_D9PYC6 V R Q V T R N L N I R N M D D L R R R C Q E E L E K P D A R R L Y S I S R N N I H H S
UniRef90_D9PYC6 V R Q V T R N L N I R N M D D L R R R C Q E E L E K P D A R R L Y S I S R N N I H H S
UniRef90_UPI000411900F Y G I L K G D L L N I K T L K D I E L F L E K K N R P N L L S S L T T D G G V H H V
UniRef90_P56509 I R V L T R K L L N L K T M E D V K K C E K E L E K P R A R R L Y E L L S A N I H H S
UniRef90_P56509 I R V L T R K L L N L K T M E D V K K C E K E L E K P R A R R L Y E L L S A N I H H S
UniRef90_P56509 I R V L T R K L L N L K T M E D V K K C E K E L E K P R A R R L Y E L L S A N I H H S
UniRef90_A0A023CVL3 Y G Q I V G T L G L A N D Q S D L N D F M S R V K N E N H K L L A S L T T S G G I H H L
UniRef90_F0TAF0 Y G E L K R N V N V Y D P S E A K R F I K Q L Q E E N D L E R L Y E L L S E N G N V H H S
UniRef90_U6EE65 F G E L H R K V N V Y D P S E A K R F I K Q L Q E E N D L E R L Y E L L S E N G N V H H S
UniRef90_D2RMC5 Y G V I Q V P M K L Y S R H E D I T Q Y M D R Q R E E K G P L L V T N G G R H H T
UniRef90_F5WV40 Y G S L T G Q L D I R T R H E D I T Q Y M D R Q R E E K G P L L V T N G G R H H T
UniRef90_D9PUV9 F S Q L K R E V L N V Y D P V I A E R F L K R L N E S D L E R L Y T L T T D N N I H H L
UniRef90_B7DNT7 Y G E I V G Q L L I T S R R K D V D V F L E K V R S E R D A A L L S S L T T T G G G F H H Y
UniRef90_E3GVX9 F S E L R R K V D I Y D P R K D A E R F I K L L E E N D L E R I Y R L L S N N I H H T
UniRef90_F0T893 L R Q V T R N L Y L K D E T D L V K C E E E Y K K P D A R R L S Q I S R N Q V H H S
UniRef90_F0T893 L R Q V T R N L Y L K D E T D L V K C E E E Y K K P D A R R L S Q I S R N Q V H H S
UniRef90_F0T893 L R Q V T R N L Y L K D E T D L V K C E E E Y K K P D A R R L S Q I S R N Q V H H S
UniRef90_K2R632 L E Q V T R K L Y L K D N D D L K R C E E E Y K K P D A R R L S H I S R N I H H S
UniRef90_K2R632 L E Q V T R K L Y L K D N D D L K R C E E E Y K K P D A R R L S H I S R N I H H S
UniRef90_K2R632 L E Q V T R K L Y L K D N D D L K R C E E E Y K K P D A R R L S H I S R N I H H S
UniRef90_Q2NH96 F K E P R I V E N Y E D N T S S G K F I N V I E K E S L G T L Y E L S N N I H H S
UniRef90_F6D425 V R Q V T R K L Y L K N E E D L R R C E E E Y N K P D A R R L Y E I S R H H S
UniRef90_F6D425 V R Q V T R K L Y L K N E E D L R R C E E E Y N K P D A R R L Y E I S R H H S
UniRef90_F6D425 V R Q V T R K L Y L K N E E D L R R C E E E Y N K P D A R R L Y E I S R H H S
UniRef90_D6DZH2 Y G E I R V N L M N I R T R R D I K K F L E G L S T G S S S L L K N V T V G Y
UniRef90_D4KG85 S P E I V K E L P V E S P E D L Q R R K E L L G T S E A E A L H E L C R G A H S
UniRef90_Q8TVH7

UniRef90_H6LG36 H T V E A A A D S I L L E T I E K R L K E K G Y L I
UniRef90_R2XGR0 H T I A Y E T L D D L V E I I K Q A L S E K G I L L Y E E
UniRef90_UPI0004179EC3 H T V E A D S D E E V L D A V I G R R L D S E L G F L R E E
UniRef90_UPI0003B43191 H N T I E A D D Q N H F N K I V Q R L S S S A G L L Y E
UniRef90_UPI0004797021 H T I I V E D E G C L K N L I D E L K K K N F L I A D
UniRef90_UPI0003667F73 H T L L A E D A D T I A E A K A A L Q K E G F
UniRef90_S2XW39 H T I S A D S E K I L D N A V R D L Q Q Q G F I V D
UniRef90_A0A023VJ33 H L I A C P S L A D F E R T K E A L S K A H I L L Y
UniRef90_UPI000370AB38 H T I A C Q D S K A T F D R I T A A R L D R A A I S Y K
UniRef90_UPI000401F847 H T I E A D S S E E R L D E I A R R L D A L G F L
UniRef90_F2JRX9 H T I E A D S S K E E L D I I E E E L N T K G Y L V
UniRef90_T0U1E4 H T L R Y Q E A A E L E Q A K Q L L A D K G I L L Y Q N
UniRef90_U1PXD5 H T I E A D D E A A L D A V E A R M G E L G F L
UniRef90_UPI000308118F H A I S A H T E K I L D N A V R D L K A H Q F I V E
UniRef90_T0BQP3 H Q V E F D H A D Q L T D A I S R L R A A G I
UniRef90_E4KQL5 H T L K C P D D K A S F L A I K A A L K E E G I L L Y E N
UniRef90_F5ZJM2 H L I S C P S Q E Q F E M L K K
UniRef90_C5R9M4 H K I E Y A E V A D L E K A K T A L R K L H I L L Y E N
UniRef90_B1QV20 H T I S A E T S E D I E A I I S E L K A K N F I V S D
UniRef90_D4JFQ9 H L V C A S S E F L D E I E E A L A K M N I L
UniRef90_H3NFP3 H T I G A K S P D H F A T I K A A A L D K L G I L L V D E
UniRef90_D9SML5 H L I R Y K D E E M L Q N L R E L K E K N L L L E
UniRef90_K9AVF2 H T I S A H T S K I L E N A V E D L S A H G Y L V D D
UniRef90_K1MH94 H T I Q C A R D L D H F H Q V Q D R L K E L G I L L Y H D
UniRef90_R5BLQ6 H L I E A P T P D I M D H I I K A L Q D L H I I V
UniRef90_C9A9S5 H T L R Y T D P A A L E K A K Q Q L A E K G M L Y Q N
UniRef90_B2THC2 H T I S A D T Q E D I N S I I N E L K E N G F I V S D
UniRef90_UPI00016C002A H T L S C P T L H H F E D V K A E L K D L L I E
UniRef90_A6TJ95 H T L E V P S E E S F N K M N Q A L M E K G Y L I N E
UniRef90_A6LJ67 H T I E T P N K E T M K K V L E A I S K
UniRef90_UPI0002490B39 H D I A V D N S E Q I E K I R Q D L R D I G V L L Y E
UniRef90_UPI000368B073 H T I S A K D E A T L D E A E Q V L D K A G L L L E
UniRef90_C7RED9 H T I R V D N D F A K E S I E D K L R E K G I L L I D
UniRef90_G6C1C5 H T I I A E N E N I F K E V E D K L K E L G I L L M E E
UniRef90_R7B5P5 H T V V A N S E E D L D I I E E E L K K R G Y L
UniRef90_UPI0002896249 H T L V A D S E E K L N R A I Q T L Q L N G F L P K E E
UniRef90_S0P2T9 H T I R Y Q D E A D L R A A K Q A L A T R G F L F S E
UniRef90_X8K2X3 H R I G C R D K E I F D M I R K E L L A K K I I I E
UniRef90_C2CK46 H T I R V R D E F A K T N I R E K L R E K G I L L V D
UniRef90_J0L6B3 H N I A C N G E A E F L E I K K K L S E L G L I Y
UniRef90_F9ECX9 H T I E A E S E E D L D E I
UniRef90_R5J4S3 H T L E A D S Q E A I D Y V L K K L K E E K F I S E
UniRef90_M1ZC74 H T L E A D E P E Y I E D A L D S L V K A G Y

UniRef90_B0K3B3 H T I E A D K E E S T I E A I V S K E L K D N G I L L
UniRef90_T3IMZ2 H T I E A D S Q E S L E R I V S K I L K R K G Y L L
UniRef90_I2F2T2 H T V E V K T Y E D K K I I E E K L R N K G F L V D
UniRef90_F0GXR6 H T I E V S N K D I F E E I K K E L R D K N I L F E
UniRef90_R5X9Y9 H L V E T K T E E E M A Q V I H A L R E I G V L Y E
UniRef90_R6AJS3 H T I E V P N E E S F A K L K K
UniRef90_K0AV14 H T V G F D H E T Q F K A A Q K Q L A D L D I L L Y Q
UniRef90_UPI0003B5340D H T V E Y L H I T D L T Q A L D A L K R A G I
UniRef90_F8IA85 H T L L A S G P E P I A R A R K A L V E A G F Y L
UniRef90_D5WPC4 H T L S A P T K E R I D Q A C Q A L D D A G I L L I K D
UniRef90_J0XA15 H T I E A V N M Q V L K K I K E E L K E K G Y L M E E
UniRef90_M5EFK1 H T I V A E K E E L E E V E E E L K K V G F L V E E
UniRef90_I3DKN9 H T V E V D D L N Q K K F I L K K L Q E K G F L
UniRef90_E5BG8 H T I E V P D E N T L E E I K K E L K E V N I L L
UniRef90_UPI0003706CD5 H T I A V S D E D D Y N A L I E D L K Q H H F L Y Q
UniRef90_UPI000375B346 H T I E V T D D E S M Y E S I I N A L N Q H H Y L Y
UniRef90_D4W882 H T I S C Q D Q S V F D Q I C E A L K K A G I L L Y
UniRef90_UPI00046D4455 H L V E T N T E E E M E A L R K A L E K L G V L V E
UniRef90_R7M099 H T L L Y K D Q E D L D K A L K E L N L K G F I Y N D
UniRef90_U4KK03 H T V A A D S Q E E L E A I R D G L A E G G F L V E E
UniRef90_D2RP20 H T V A A S D V K V I K K I E R D L E K R G V L L
UniRef90_D9PYC6 H T V A A S D V K V I K K I E R D L E K R G V L L
UniRef90_D9PYC6 H T V A A S D V K V I K K I E R D L E K R G V L L
UniRef90_UPI000411900F H T L L Y K D K K D L N A A L N A L N E L G F I Y N D
UniRef90_P56509 H T I V T P S A E I T K K I E E E L K E K G I L L
UniRef90_P56509 H T I V T P S A E I T K K I E E E L K E K G I L L
UniRef90_P56509 H T I V T P S A E I T K K I E E E L K E K G I L L
UniRef90_A0A023CVL3 H N I S C K D E A A F N K L Q R L D D E L G F L Y H D
UniRef90_F0TAF0 H K I C A P D K K S L E A M I K D L D D A G L I Y K N
UniRef90_U6EE65 H R V C A P D E E S L E A M T R E L R N K G L L Y Q
UniRef90_D2RMC5 H L V E T R N D E D M D A L M E G L K E L G V L
UniRef90_F5WV40 H R I A I S K E H Y P N L M I D L K K H A F L Y E
UniRef90_D9PUV9 H R I C A P D P E S L Q A L L D E L E E K G L I Y R E
UniRef90_B7DNT7 H R V Q F D R E D Q L A E A C E E A L R K A G I
UniRef90_E3GVX9 H K I C A P D E E T L E K I V E E L D K E G L Y
UniRef90_F0T893 H T V S A R D A K T I M K I V Q E L T K A G I L L
UniRef90_F0T893 H T V S A R D A K T I M K I V Q E L T K A G I L L
UniRef90_F0T893 H T V S A R D A K T I M K I V Q E L T K A G I L L
UniRef90_K2R632 H T V S A A D V K T I K K I I K M L D K S G L L L
UniRef90_K2R632 H T V S A A D V K T I K K I I K M L D K S G L L L
UniRef90_K2R632 H T V S A A D V K T I K K I I K M L D K S G L L L
UniRef90_Q2NH96 H H L Y A P D E N K L N D I I Q E L K E N N L L Y D E
UniRef90_F6D425 H T I S A P D V K T I K K I E K A L D K Q G I L L
UniRef90_F6D425 H T I S A P D V K T I K K I E K A L D K Q G I L L
UniRef90_F6D425 H T I S A P D V K T I K K I E K A L D K Q G I L L
UniRef90_D6DZH2 H T L E A E S E E L D D I Q N E L A E K G F L M Q
UniRef90_D4KG85
UniRef90_Q8TVH7 H R V F V A D P S D K E R I V K E L E K L G F L I

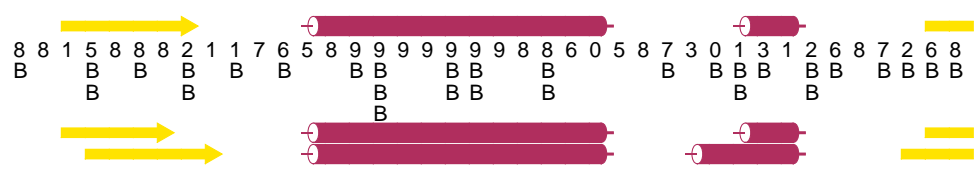
UniRef90_F7MKK8
 UniRef90_D3LUB2
 UniRef90_Q8TV51
 UniRef90_F9PBD9
 UniRef90_D3E0E6
 UniRef90_U6ED84
 UniRef90_U6ED84
 UniRef90_Q8TH03
 UniRef90_D3E1R8
 UniRef90_F9EJP3
 UniRef90_Q8TXQ4
 UniRef90_A5UK85
 UniRef90_R9SN96
 UniRef90_V7Z2N1

50 60 70 80

```

Y G Q I K S I M V K T L Y D V E K F I K K L V T K N L N P Y Y L L
Y G T L E A K L N L R S R R D L Q H Y L S L M L E S G A E M L C C L S G G V H T
L P E L V K D L W V E D E S D V K R R L E M H E D S E L E R L H R M S D D V H S
L K P V T R T L G V L D E E K D H F I D M V K N N S M D V M Y E T V N G V H S
MERF L K R L S E D S A R M L Y T L S G G I H S
MERF L K R L S E D S A R M L Y T L S G G I H S
K R D V I K V S F R R D V D E W E E L N N E E S K H L Y S A S N N V H Y
F K E L I R K I D V S E I R E Y D K F T K N L K K E E L K E L Y S L T D Y R A
L D I K S R R D V D L L V E N I N S K L S K P L K N L T D N C H Y
K S P I R R D V V I S S M D E V M R F V K S L E K Y P L E D L Y R V S E N V H T
F K D L V K T T N L S D S D E A T K F L K S I N E N K D K K L Y A L S K Y R K
K K P F T R D V G F K T T E D V E E Y W K E I E S S N N S L L F R V N E A I E S
Y G R L R G E L E I R S V G D V N L F M G R L K K L Q G H L L S E L T D
  
```

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



UniRef90_F7MKK8
 UniRef90_D3LUB2
 UniRef90_Q8TV51
 UniRef90_F9PBD9
 UniRef90_D3E0E6
 UniRef90_U6ED84
 UniRef90_U6ED84
 UniRef90_Q8TH03
 UniRef90_D3E1R8
 UniRef90_F9EJP3
 UniRef90_Q8TXQ4
 UniRef90_A5UK85
 UniRef90_R9SN96
 UniRef90_V7Z2N1

```

              90              100
H A V
H R I V R R E E D K E K I V E A L R R L
H L V E A E N E Q D L L Y I E K A L D K L G Y L V K D
H W I S G P D K S H V D M V I E E L K K E G N L L L
H R I T G P D T K S L A Q V E K E L K K K G F L L L
H R I T G P D T K S L A Q V E K E L K K K G F L L L
H K I S A P D E E S L H R A I E K L R E E G F K V E E
Y R I C A I N N E T I E K T K N D L D K E G L L F K E E
H T I T A E N E N I L N E V E D K L K E L G L L L E E
Y Y V I V H N E E E R E R I L R E L D R R G Y L V
F T I C A P D D D S L N N I I E E L T K R G F V Y N E
H L I S G P S Q K I I D E V I K K L K D N N S L I
  
```

