

QUERY 1 10 20 30 40
 UniRef90_H2LNR8 D I R Q Q E E L G A V V D K E M A A T S A A I E E D A V R R I I E D M M N Q A R H A S
 UniRef90_V9KCH3 D I K Q E E E L G D L V E L E M A A T S A A V I E E T A A S R R I I E D M M L S K Q A R A G D S
 UniRef90_UPI0003C0374D D I R Q E E E L G A M V D K E M A A T S A A I E E D A V R R I I E D M M N Q A R H A S
 UniRef90_E7FD55 D V R Q E E E L A D M V D K E M S A T S S A I I E E D A V L R M E E L N Q T S R R A A D
 UniRef90_K7IT14 E V I G D L V E N E L T S M D K A A I E E E A A A R I I Q E M L D K N K S R T R A D D
 UniRef90_F6Y171 D I R E E E E L G D L V E K E M A A T A A A V I E T A A T R I I E E M L N K S R T R A D D
 UniRef90_K7GCX2 D I K Q E E E L G D M V D K E M A S T S A A I I E D A V R R I I E E M M N Q A R N K S
 UniRef90_K1QW15 D V K E K E E L G D L L E N E M H S T S S A I I E L A A K K I I E E M L H Q T S R K D G S
 UniRef90_C3XVA5 D I K S E E L G D L V E T E M S E T T E A V I D K A A A K I I E E M L N K S R Q K M S
 UniRef90_T1HTJ0 V G D L V E S E L A A M D K A I I E E A A A K I I E E M L T H S R K E D
 UniRef90_UPI000441A660 D V E Q E K L G D L V D E E M A A T A A A V I E E A A A R I I E E M L S K S R A G D
 UniRef90_T11JU8 D I E N L S E M V E D E L T L M D K A I I E E A A N R I I E D L M K K T R Q A G D
 UniRef90_M3CUW9 Q G D I G E L V D N E M T K A A Q A I I D A A T E R I L S K L M N K S S R D G Y
 UniRef90_UPI00026538C1 E E E L G D L V E A E M Q S T T D L V I D A A S R I I E E M L K R Q S R E A D
 UniRef90_L9KRW2 D V R Q E E L G A M V D K E M A A T S A A I I E D A V R R I I E E M M N Q A R H A S
 UniRef90_S4RPE9 D V K P G E E L G D L V E Q E M A A T A A I I E D A A A R I I E D M L S K A R A E E
 UniRef90_E0VES6 E D L V E G E L L A M E K A I I E E A A T Q K M G E M L S K S R A S D
 UniRef90_U5EQY1 E Q L A D L F E N E L A G M D K A I I E E A A S Q I Q E M L S N E S R A S D
 UniRef90_J9K3E9 E S L G D L V E D E L S I M D R A I I E E A A K R I I Q E M L I T E S R A A H
 UniRef90_T1KKY7 Q E L T D M D K A I I E E A A V N K L E Q M M A I S R K Q D
 UniRef90_R7TKR8 D I R T E D V G D M V D K E M A Q T S K S I I E E A A A R I I A E L L D K S R G E H
 UniRef90_H2M7H7 V F Y E G M G S K K L E A S K M G L I E P A T L Q S E E M T G P P S
 UniRef90_UPI000333479A V N S E E L G D L V E R E M A D T S A A I I E Q A A A K I I E E M L S K S R A G D
 UniRef90_V3ZUY7 N Q G D L G D L V D R E M A N A A N A I I L A A T E R I L S K L K D R S R D S Y
 UniRef90_K2RFN7 G E I G E L V E Q E M T L A A A I I E A A T K K I I E M L M S R P K N D Q
 UniRef90_J3PLR3 D I K Q E E L G D L V D K E M A A T S A A I I E T A T A R I I E E M L S K S R A G D
 UniRef90_F7IAE5 D V G K E E L G D M V D L E M Q T T A E Q V I D E A V K R I I E E M L N K S R E E S
 UniRef90_UPI0003F0A44B E L G D L V E N E L A V M D K A I I E E A A E K F V I E L L S S A R S K D
 UniRef90_A0A034VWZ4 D V R Q E E L G A M V D K E M A A T S A A I I E D A V R R I I E V R A A V
 UniRef90_UPI00034FCEA0 D I R Q E E L G D L I E R E M M S A A S T I I E Q A T L R I I E Q A L L D K S S S R Y
 UniRef90_M5E7R6 D V R G G D L H D L V E Q E M A S T T Q A V I E E Q A A E R I E A L L N E A R Q R D
 UniRef90_F6UP49 D V R I E E L G D L V D K E M I A T S T A I I E E A V L R M Q E I M T K A K K D T
 UniRef90_Q4S237 G D L G D H V D T E L S K A A A I I D A A I A R I L G Q L M N K S K D G Y
 UniRef90_U4LPP3 M G D I V D E E M A S T S I A V I E E A A R K I I E E I L K R S R E E Q
 UniRef90_I1G9K8 D L D K L I E L E K E M D A A I E E A A S K I I L N L L S K S R E E N D
 UniRef90_B4KY13 V I G Q W E E M L H K S R E D S
 UniRef90_UPI000359CED9 N K V D F D K L V E K E L Q E M D L A I I E D A A A K I I T D L L E K A R E K D
 UniRef90_B4MXM8 D F K G G N L E D L L D R E L S Q T V K T V D H A S Q F L T N L M K D V T I Y
 UniRef90_A5E5X1 Q S G N L E D I V D R E L G A A A A I I E A A A A R L L S K M A N R N R D Y D
 UniRef90_G1XD83 E N I E E L V D N Q L A E T A Q A I I Q Q A L L R L Q N L A A K P K D D S
 UniRef90_Q9P6L5 D S D S L G D A V E K Q M S E A Q A I I N D A A R R I I Q E M L E K S K K T Q
 UniRef90_E9CEW1 D N V G E L V D R E M A H A A E T I I K A S D H L T D L L T N A K Q D I
 UniRef90_F2QXQ5 F S G N L E E L V N D E M E Q T A N I V S K A S N F L N D L M A N P S I H
 UniRef90_G3AVU8 N V G D M L Q Q E L L K Q M D N I I E E A T K E I M D L L L N T K S Q H
 UniRef90_UPI0003C3632A L L D L A K A V A N T T A A L V L K A K N I A S
 UniRef90_E0W1B5 L L D L A K A V A N T T A A L V L K A K N I A S
 UniRef90_E0W1B5 E D E I D K E V Q D I L L G L A K A V A N T T A A L V L K A K N V A A
 UniRef90_T1J0N6 E D E I D K E V Q D I L L G L A K A V A N T T A A L V L K A K N V A A
 UniRef90_T1J0N6 E D E I D K E V Q D I L L G L A K A V A N T T A A L V L K A K N V A A
 UniRef90_T1J0N6 G D I G D I V E Q E M L S A A R A I I E A A T Q R L Q E L I A K P R D K Y
 UniRef90_G4TAQ3 G D L G D L V E S E M Q A A A K A I I E A A T Q R L Q A I M A R P K D S F
 UniRef90_G0SWE9 Q G E L G D M I E Q E M M S A A N T I E Q A T L R L Q A L L A R D K N R Y
 UniRef90_A8PVH0
 UniRef90_UPI00038335BB R S G N L E D L L N N E M E H T A Q T V D S A S K F L D K L L Q N P N I
 UniRef90_A3LYU6 V D P N D P T V I A E T E L L G A A S S I D A A A K K L A S L L Q P R R T S K L
 UniRef90_T1KEZ6 Q G N L E D M L R N E M Q E T A K A V D K A S D F L Q K L L L N P N I K N
 UniRef90_G8YL72 I S N A V D N E I N A T A E L V A D A A A R I I E E M L N K T R E K Y
 UniRef90_A7SM91 L K S S N L D A M V D E M E R A A N T I V S A S Q F L T N L L Q N P N I K
 UniRef90_A5DLY8 F K G N L E D L V N D E M A Q T I S L A S Q F L N D L M S N A N I
 UniRef90_C5MGH5 G E I G N L V E Q E M L N A A Q V I K A A A E K I Q A L L M S Q P R D A G
 UniRef90_U9UIZ6 L G D M V E E E L S Q M D K A I I E E A A K R I Q D M L E K S R E G D
 UniRef90_B7QKD3 F K G D L E S L V N K E M Q Q T V D A V N S A S K Y L T D L L K N P N I
 UniRef90_H8XB65 E N I V D E E I Q A T E Q E M L N K S R K T H
 UniRef90_T2MJV4 D V R Q E E L G A L V D K E M A A T S A I I E E A V R R I I E D M M N Q A R H A S
 UniRef90_L5LJC4 K G K I L E D A V D N E M D E T A K A V D S A T E F L N K L L L S A S Q S S
 UniRef90_C4YA28 E D E A D A E L Q D Q L L G A A K Q V A N A T A A L V L Q A K K V A S
 UniRef90_V5IGE5 E D E A D A E L Q D Q L L G A A K Q V A N A T A A L V L Q A K K V A S
 UniRef90_V5IGE5 E D E A D A E L Q D Q L L G A A K Q V A N A T A A L V L Q A K K V A S
 UniRef90_V5IGE5 E D E A D A E L Q D Q L L G A A K Q V A N A T A A L V L Q A K K V A S
 UniRef90_UPI000258E86B
 UniRef90_UPI000258E86B
 UniRef90_UPI0002659252 E D I G C L L Q E E L S Q M D R A I A D A T K R I S E I L D K S R S T D
 UniRef90_E9FVY2
 UniRef90_E9FVY2
 UniRef90_S9WZY4 E E M L S K S R A G D
 UniRef90_B3S4A0 G D I V G E E M A Y T T E A I D V A T A K I E A L L R R A R E N E
 UniRef90_Q4T143 V D P E D P T V I A E N E L L G A A A A I E A A A K K I E Q L R P R T K P K E
 UniRef90_UPI0003C13DA4
 UniRef90_UPI0003C13DA4 K S G D L G E L V D E E M Q S A A K A I A D A S A H L S S L I S R P V D P S
 UniRef90_W6MIN2
 UniRef90_H3ANX1
 UniRef90_H3ANX1
 UniRef90_D5G8P9 S G D L G D V V D A E M N K A A A A I E A A T A R L A Q L M K K P K N G Y
 UniRef90_UPI0003F49B3F I G E E D E A D M L Q D Q L L A A A K Q V A N A T A A L V L Q A K N V A S
 UniRef90_T1G1V3 I G E E D E A D M L Q D Q L L A A A K Q V A N A T A A L V L Q A K N V A S
 UniRef90_L7MJ63 I G E E D E A D M L Q D Q L L A A A K Q V A N A T A A L V L Q A K N V A S
 UniRef90_L7MJ63 I G E E D E A D M L Q D Q L L A A A K Q V A N A T A A L V L Q A K N V A S
 UniRef90_L7MJ63
 UniRef90_A0A016V945
 UniRef90_A0A016V945
 UniRef90_W1QBG6 V S S D E L G Y F L D K E L A N T Q A A V E K A A G L L E S M S T R H K E V Q

QUERY UniRef90_H2LNR8 UniRef90_V9KCH3 UniRef90_UPI0003C0374D UniRef90_E7FD55 UniRef90_K7IT14 UniRef90_F6Y171 UniRef90_K7GCX2 UniRef90_K1QW15 UniRef90_C3XVA5 UniRef90_T1HTJ0 UniRef90_UPI000441A660 UniRef90_T11JU8 UniRef90_M3CUW9 UniRef90_UPI00026538C1 UniRef90_L9KRW2 UniRef90_S4RPE9 UniRef90_E0VES6 UniRef90_U5EQY1 UniRef90_J9K3E9 UniRef90_T1KKY7 UniRef90_R7TKR8 UniRef90_H2M7H7 UniRef90_UPI000333479A UniRef90_V3ZUY7 UniRef90_K2RFN7 UniRef90_J3PLR3 UniRef90_F7IAE5 UniRef90_UPI0003F0A44B UniRef90_A0A034VWZ4 UniRef90_UPI00034FCEA0 UniRef90_M5E7R6 UniRef90_F6UP49 UniRef90_Q4S237 UniRef90_U4LPP3 UniRef90_I1G9K8 UniRef90_B4KY13 UniRef90_UPI000359CED9 UniRef90_B4MXM8 UniRef90_A5E5X1 UniRef90_G1XD83 UniRef90_Q9P6L5 UniRef90_E9CEW1 UniRef90_F2QXQ5 UniRef90_G3AVU8 UniRef90_UPI0003C3632A UniRef90_E0W1B5 UniRef90_E0W1B5 UniRef90_T1J0N6 UniRef90_T1J0N6 UniRef90_T1J0N6 UniRef90_T1J0N6 UniRef90_G4TAQ3 UniRef90_G0SWE9 UniRef90_A8PVH0 UniRef90_UPI00038335BB UniRef90_A3LYU6 UniRef90_T1KEZ6 UniRef90_G8YL72 UniRef90_A7SM91 UniRef90_A5DLY8 UniRef90_C5MGH5 UniRef90_U9UIZ6 UniRef90_B7QKD3 UniRef90_H8XB65 UniRef90_T2MJV4 UniRef90_L5LJC4 UniRef90_C4YA28 UniRef90_V5IGE5 UniRef90_V5IGE5 UniRef90_V5IGE5 UniRef90_UPI000258E86B UniRef90_UPI000258E86B UniRef90_UPI0002659252 UniRef90_E9FVY2 UniRef90_E9FVY2 UniRef90_S9WZY4 UniRef90_B3SA0 UniRef90_Q4T143 UniRef90_UPI0003C13DA4 UniRef90_UPI0003C13DA4 UniRef90_W6MIN2 UniRef90_H3ANX1 UniRef90_H3ANX1 UniRef90_H3ANX1 UniRef90_D5G8P9 UniRef90_UPI0003F49B3F UniRef90_T1G1V3 UniRef90_L7MJ63 UniRef90_L7MJ63 UniRef90_L7MJ63 UniRef90_A0A016V945 UniRef90_A0A016V945 UniRef90_W1QBG6

50 60 70 80

S G V K L E V N E R R I L N S C C T D L M K A I R L L V T T S T D L Q Q K R R E I V E S G G
UniRef90_H2LNR8 S G V K L E V N E R R I L L N S C C C T D L M K A I R L L V T T S T D L Q Q K R R E I V E S G G
UniRef90_V9KCH3 T S G V K L E E E V N N E R R I L L N S S S C C C T T D D L M M D A K R L L V L T T S T K D S L L L Q Q K R R E I V E S S G G
UniRef90_UPI0003C0374D T S G V K L E E E V N N E R R I L L N S S S C C C T T D D L M M D A K R L L V L T T S T K D S L L L Q Q K R R E I V E S S G G
UniRef90_E7FD55 T S G V K L E E E V N N Q S I L L G S S C C C S T D L L M K A I R H M L V T T A S S T S T D L L Q Q K R R E I V E S S G G
UniRef90_K7IT14 T S G V K L E E E V N N G R K I L L D G S S C C C T T D D L M M M A I R Q A L V V K K S R D L L Q Q K R M E I V E A S Q S G G
UniRef90_F6Y171 T S G V K L E E E V N N E R S I L L N S S S C C C T T D D L M K A I R Q A L V V L A S S K D L L Q Q K R M E I V E A S Q S G G
UniRef90_K7GCX2 S G V K L E E V N N E R S I L L N S S S C C C T T D L L M K A I R Q A L V V M T S S T H L Q Q K R K E I V E E L S G G
UniRef90_K1QW15 S S G V E R L L E V N N E S Q I L L D D S S C C C T T G L L M Q A I K V Q L I I K V S Q D D L Q Q K R K E I V E L A Q Q G G
UniRef90_C3XVA5 S S G I K L E E E V N N E K I L L D S S S C C C T T G L L M Q A I K Q V L I I Q K S R I L L Q Q K R A E I V E A Q S G G
UniRef90_T1HTJ0 R G I K L F E E V N N S K I L L L G S S C C C T A L M Q A I K Q V L V V L A S K D L L Q Q K R A E I V E A Q S G G
UniRef90_UPI000441A660 S G V K L E E V N N S K I L L L G S S C C C T A L M Q A I R R V L V L Q R A S K T L L Q Q K R E E I V E S Q S G G
UniRef90_T11JU8 S T Y E L K I H D A I L L A A A A V A V T N A A A Q L I I K A A T A S Q Q Q Q E E I V N Q S G G
UniRef90_M3CUW9 T S G V K L E E V N N E R I L L D N S S C C C T T D L M M K A I K E L I T T K S T S L L Q Q K R K E I V D S D E G G
UniRef90_UPI00026538C1 R G V K L E E V N N E R I L L A S S C C C T T D L M K T A R A L I I L A S K D L L Q Q K R E I V D E D D G G
UniRef90_L9KRW2 S R G V K L E E V N N E R I L L A S S C C C T T D L M T A K T I I K R A R R L L Q Q K R A E I V S S L G G
UniRef90_S4RPE9 S G V K L E E V N N E K I L L D D A C C C T T T L M T A R R V L V V K R S R L L Q Q K R A E I V S S L G G
UniRef90_E0VES6 S S G I K L E E V N N E Q I L L D D S C C C T S L L M A S I R V L V V H K S R K L L Q Q K R A E I V A N Q Q G G
UniRef90_U5EQY1 T T G L Q L E E V N N E R I L L D S S C C C T S L L M Q A I V R L V V K N S K E I V G Q Q G G
UniRef90_J9K3E9 T G L Q L E E V N N E R I L L D S S C C C T S L L M A J A R V L V V E K S K H L L Q Q K R E I V G Q Q G G
UniRef90_T1KKY7 L G L T L C I P C R I L L A S C C C T S L L M E A K A L V V L S S K D L L Q Q K R R E I V E S G G
UniRef90_R7TKR8 T G V K L E E V N N E R I L L D A A C C C T E L M K A I K E L M E Q S R D L L Q Q K R R E I V A S G G
UniRef90_H2M7H7 S T Y E L R I H D A I L L G A A A I E V T N A A A R L I I K A A T E S Q Q Q Q E E I V R E G G
UniRef90_UPI000333479A S A M E V L Q V H D A I L L G S A S C L A G A N A R L I I A A A T E S L Q Q Q A E I V E S G G
UniRef90_V3ZUY7 T G V K L E E V N N E R I L L D A C C C T L L M R D K V L I I N R K A K V L L Q Q S E E I V D V G G
UniRef90_K2RFN7 S G I Q L E E V N N S R I L L D A C C C T L L M R D K V L I I N R K A K A L L Q Q S E E I V D V G G
UniRef90_J3PLR3 E G I K L E E V N N E R I L L D N A C C C T F L M K C K L L I I R K A K A L L Q Q S E E I V S A G G
UniRef90_UPI00034FCEA0 S T T E L Q V H D A I L L E A A A L A I M K A I G G L I I R S A T A S Q Q Q Q E E I V A R G G
UniRef90_M5E7R6 T S G V N L E E V N N Q S I L L D G S C C S T E L M K F I I Q Q L I I S S A T D L L Q Q K R K E I V E A Q Q G G
UniRef90_F6UP49 S T Y D L K I H E S I L L A A A A T A V T N A A I A Q L I I K A A T V S Q Q Q Q E E I V A K G G
UniRef90_Q4S237 S G V N L E E V N N S K I L L D E A C C C T A L M E C K I I L I L K S R V L L Q Q K R E I V V A S Q Q
UniRef90_U4LPP3 N K I K L E E V N N E K I L L L G S A C C C T L L M K S I K V L V I E K S R D L L Q Q K R E I V S S S G G
UniRef90_I1G9K8 T G V N L E E V S E S I L L L G S A C C C T L L M K S I K V L V I E K S R D L L Q Q K R E I V S S S G G
UniRef90_B4KY13 D K V N L E E V N G E A I L V A C A C A K A I T D A V A R L I I K A A T D S Q Q K R E I V D R Q Q G G
UniRef90_UPI000359CED9 G G D V K V H H D S I L L N S A A V A I T T A I T A L I I K A A T D S Q Q K R E I V A Q Q G G
UniRef90_A5E5X1 T F E L E I H D S I L L N S A A V A I T T A I T A L I I K A A T D S Q Q K R E I V A Q Q G G
UniRef90_G1XD83 S P S E L Q V H D S I L L N S A S A Q Q L M D L I R I I K Q K S T V V Q Q Q Q E E I V V A A S G G
UniRef90_Q9P6L5 S G I Q L D M K I N N S I L L S A A A T A V T K A I I L I I K T A T D C Q Q Q N E I V N H G G
UniRef90_E9CEW1 G G N L E E V H E M I L L D A S A C K L V T D A V V N L I S A S V E S Q Q R E I V S T G G
UniRef90_F2QXQ5 E G I K L E E V N E K I L L D A S C C T N L M Q C I V V L I I Q R S R E L Q Q Q N E I V S T G Q
UniRef90_G3AVU8 T C D D P N V Q N K V I S A A S Q C C A L A T S Q L V A C S K A C C Q Q Q Q L M V A V
UniRef90_UPI0003C3632A T C C E D P N V Q N K V I S S A A S Q C C A L A T S Q L V A C C S K A C C C Q Q Q L M V A V
UniRef90_E0W1B5 T C C E D Q G T Q N K V I S S A A T Q V A L A T S Q L V A C C A K A C C C Q Q Q L I E A A V
UniRef90_E0W1B5 T C C E D Q G T Q N K V I S S A A T Q V A L A T S Q L V A C C A K A C C C Q Q Q L I E A A A
UniRef90_T1J0N6 T C C E D Q G T Q N K V I S S A A T Q V A L A T S Q L V A C C A K A C C C Q Q Q L I E A A A
UniRef90_T1J0N6 S A V E V Q V H D S I L L A A A L A I T N A I G R L I I Q A A T A S S Q Q Q E E I V A Q Q G G
UniRef90_T1J0N6 S A T D L Q V H D A I L L A S A L A I T N A I G R L I I K A A T A S S Q Q Q E E I V A Q Q G G
UniRef90_G4TAQ3 S A T E L K V H D R I L L E A A M A I M R A I R G L I I R A S T N L Q Q K E I V A R S G G
UniRef90_G0SWE9 H G G N L E V H E A L L S A A K A V T L A V T L L I S A A T E S Q Q R E I V N K G G
UniRef90_A8PVH0 P D E D L N F D E M A S A K S I T T A T S A L V R A A S A A Q Q R E I V T T G G
UniRef90_UPI00038335BB G N F E H E A L V N A S I A V T N A V A L L I T A A T E S Q R E I V S K T
UniRef90_A3LYU6 T G V Q L E E V N G R I L L D S C C T S L M Q A I K V L I I L K S K D L Q Q E E I V G V G
UniRef90_T1KEZ6 G V D V E E H E A L L S A A M A V T K A V E G L I I T A A T E S S Q R E I V S K G
UniRef90_G8YL72 Y G G N L E E V H E M L L L S A A K L V T K A V E G L I I K A S V E S Q K E I V A K G G
UniRef90_A7SM91 T A S E L N I H D A I L L E S A L A V T N A I A N L I K C A T D S Q Q E E I V A Q Q G G
UniRef90_A5DLY8 S G I K L E E V N S K I L L D A C C T G I M Q A I R E L I K S S K H L L Q Q R E I V G K G G
UniRef90_C5MGH5 Y G G N I E I H S T L I S C A C A K A I D A V A R L I I Q A S V E S Q R E I V E K G G
UniRef90_U9UIZ6 T G I Q L E E V N E R I L L D S C C T G L M R A I R E L I I L K S K D L L Q Q E E I V M Q G G
UniRef90_B7QKD3 S G V K L E E V N E R I L L K S C C T D L M K A I R L L I I T T S T S L Q Q K R E I V E S G G
UniRef90_H8XB65 T A P D Q G H Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_T2MJV4 T A P D Q G H Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_L5LJC4 T A P D Q G H Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_C4YA28 T A P D Q G H Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_V5IGE5 Q G V K L E V N G R I L L D A A R K L C S A F S D L L K A T E P E T K E P R A S H
UniRef90_V5IGE5 Q G V K L E V N G R I L L D A A R K L C S A F S D L L K A T E P E T K E P R A S H
UniRef90_V5IGE5 Q G V K L E V N G R I L L D A A R K L C S A F S D L L K A T E P E T K E P R A S H
UniRef90_UPI000258E86B Q G V K L E V N G R I L L D A A R K L C S A F S D L L K A T E P E T K E P R A S H
UniRef90_UPI000258E86B Q G V K L E V N G R I L L D A A R K L C S A F S D L L K A T E P E T K E P R A S H
UniRef90_UPI0002659252 T G V K L E E V N E R I L L D G S C C T S L M Q A I Q V L I V A S K E L Q R E I V R I K
UniRef90_E9FVY2 T G T K L E E V N E R I L L D S S T K L M N A I R L L I I R A S I L L Q K E I V R I K
UniRef90_E9FVY2 A D E S L N F E E Q I L L E A A K S I A A A T S A L V K A A S A S A S G E L T A A Q G G
UniRef90_S9WZY4 S A I D M E V N K A I L L Q A A L A V T N A I A L L I K A A T E S Q S Q E I V A A G G
UniRef90_B3SA0 Q L L Q A A K N L A C A V S D L L K T A T E P R Q S L L Q A A A G G
UniRef90_Q4T143 S T F E I S I H D S I L L E A A T A V T N A I A Q L I I K A A T V S Q Q E E I V A Q G G
UniRef90_UPI0003C13DA4 N A L D V E V H D A I L L E A T M A I T N A I A G R L I I Q A A T E S Q Q E E I V A R E G G
UniRef90_UPI0003C13DA4 T C D D Q G Q Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_W6MIN2 T C D D Q G Q Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_H3ANX1 T C D D Q G Q Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_H3ANX1 T C D D Q G Q Q N R V I G A A T Q G A L A T S Q L V A C A K S C C Q Q E Q L T E A S
UniRef90_H3ANX1 E D G S L E V N E A I I S C A S A I I N A V K L L L E A C I D A Q E E I V S R G

QUERY UniRef90_H2LNR8 UniRef90_V9KCH3 UniRef90_UPI0003C0374D UniRef90_E7FD55 UniRef90_K7IT14 UniRef90_F6Y171 UniRef90_K7GCX2 UniRef90_K1QW15 UniRef90_C3XVA5 UniRef90_T1HTJ0 UniRef90_UPI000441A660 UniRef90_T1IJU8 UniRef90_M3CUW9 UniRef90_UPI00026538C1 UniRef90_L9KRW2 UniRef90_S4RPE9 UniRef90_E0VES6 UniRef90_U5EQY1 UniRef90_J9K3E9 UniRef90_T1KKY7 UniRef90_R7TKR8 UniRef90_H2M7H7 UniRef90_UPI000333479A UniRef90_V3ZUY7 UniRef90_K2RFN7 UniRef90_J3PLR3 UniRef90_F7IAE5 UniRef90_UPI0003F0A44B UniRef90_A0A034VWZ4 UniRef90_UPI00034FCEA0 UniRef90_M5E7R6 UniRef90_F6UP49 UniRef90_Q4S237 UniRef90_U4LPP3 UniRef90_I1G9K8 UniRef90_B4KY13 UniRef90_UPI000359CED9 UniRef90_B4MXM8 UniRef90_A5E5X1 UniRef90_G1XD83 UniRef90_Q9P6L5 UniRef90_E9CEW1 UniRef90_F2QXQ5 UniRef90_G3AVU8 UniRef90_UPI0003C3632A UniRef90_E0W1B5 UniRef90_E0W1B5 UniRef90_T1J0N6 UniRef90_T1J0N6 UniRef90_T1J0N6 UniRef90_G4TAQ3 UniRef90_G0SWE9 UniRef90_A8PVH0 UniRef90_UPI00038335BB UniRef90_A3LYU6 UniRef90_T1KEZ6 UniRef90_G8YL72 UniRef90_A7SM91 UniRef90_A5DLY8 UniRef90_C5MGH5 UniRef90_U9UIZ6 UniRef90_B7QKD3 UniRef90_H8XB65 UniRef90_T2MJV4 UniRef90_L5LJC4 UniRef90_C4YA28 UniRef90_V5IGE5 UniRef90_V5IGE5 UniRef90_V5IGE5 UniRef90_UPI000258E86B UniRef90_UPI000258E86B UniRef90_UPI0002659252 UniRef90_E9FVY2 UniRef90_E9FVY2 UniRef90_S9WZY4 UniRef90_B3SA0 UniRef90_Q4T143 UniRef90_UPI0003C13DA4 UniRef90_UPI0003C13DA4 UniRef90_W6MIN2 UniRef90_H3ANX1 UniRef90_H3ANX1 UniRef90_D5G8P9 UniRef90_UPI0003F49B3F UniRef90_T1G1V3 UniRef90_L7MJ63 UniRef90_L7MJ63 UniRef90_L7MJ63 UniRef90_A0A016V945 UniRef90_A0A016V945 UniRef90_W1QBG6

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

QUERY	130	140	150	160
UniRef90_H2LNR8	V V L H T G K Y E E E L L I V C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_V9KCH3	V V L Q G K G K Y E E E L M V C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_UPI0003C0374D	V V L H T G K Y E E E L L I V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_E7FD55	V V T D R G K G K Y E E E L L I V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_K7IT14	V V S G G Q G K F F E E L L V V A S Q Q G E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_F6Y171	V V Q G Q G K F F E E D L I V V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_K7GCX2	V V L H T G K Y E E E L L I V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_K1QW15	V V K G G E G K F F E E L L V V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_C3XVA5	V I Q G T G K F F E E L L V V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_T1HTJ0	V V S G G G K F F E E L M V A A V H H G I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_UPI000441A660	V V Q G G K F F E E L M V C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_T11JU8	V M D G G K A T F A E E L M V A S Q N D V I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_M3CUW9	V T G R N S P F E E L L V A S Q N D V I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_UPI00026538C1	L M K G K G K F F E E L M V C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_L9KRW2	V V L H T G K Y E E E L L I V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_S4RPE9	V L K G N G K F F E E L M V C C S R R E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_E0VES6	V V S G G G K F F E E L L V V C C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_U5EQY1	S V T G S S K H Q D L I V A A Q E I I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_J9K3E9	A V S G E G K L E R L I V A S H C V I	A A G T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_T1KKY7	V I A G K A K F F E E L V V A S Q N E I I	A A A T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_R7TKR8	V V R G E G K F F E E L M V C C S H H E I I	A A S T T Q L V V V S K V K A A D R K H S S P H L		
UniRef90_H2M7H7	V V Q G G K G K F F E E L M V C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_UPI000333479A	V V Q G G K G K F F E E L M V C C S R R E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_V3ZUY7	V V N G Q G K F F E E L I V F A Q D D I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_K2RFN7	V I S G R N S P E E Q L I V A S N D V I I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_J3PLR3	V I S G T H S L E E Q L I V A S N D V I I	A A G T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_F7IAE5	V V Q G K G K F F E E L M V C C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_UPI0003F0A44B	V V L G S G K Y E E E L T A C C S H H E I I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_A0A034VWZ4	I V S E S T G N D F E E L I V A A Q E I I	A A C T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_UPI00034FCEA0	V V L H T G N D F E E L I V C C C H H E I I	A A G S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_M5E7R6	V I M G T H S L E E Q L I V A S N E V I	S A A T V Q L V A A S R V K A D R K H S S P H L		
UniRef90_F6UP49	V I Q G D G K F F E E L M V C S H H E I I	S A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_Q4S237	V V N E N G Q Y E E E L I A S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_U4LPP3	V I T G R S K L E Q M I V A S N E V I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_I1G9K8	V V S G N G K F F E E L I V A S K D I I	A A C C T A Q Q L V A A S M V K A D R K H S S P H L		
UniRef90_B4KY13	A V S E S G Q N F E E L I V A A Q E I I	A A A S T A Q Q L V I A S K V K A D R K H S S P H L		
UniRef90_UPI000359CED9	V V S G K G K F F E E L M A C A N E I I	A A S T A Q Q L V V S S K V K A D R K H S S P H L		
UniRef90_B4MXM8	A I S E S G Q N F E E L I V A A Q E I I	A A C C T T A Q Q L V I A S K V K A D R K H S S P H L		
UniRef90_A5E5X1	V L R Q K N S H E E L I V A S N E V I	A A S T A Q Q L V I A S R V K A D R K H S S P H L		
UniRef90_G1XD83	V I V G R N K L E E Q L I V A C N D V I	T A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_Q9P6L5	V V N G T S S F F E E L I V A A N G V I	S A A T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_E9CEW1	V V N N M G S F F E E L M V A A G E V I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_F2QXQ5	V L S S T S S P E E Q L I V A C N D V I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_G3AVU8	V L R D S A E H C F E L I V A S N E V I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_UPI0003C3632A	T I S D S A E C F E L I V A A Q D I I	A A S T A Q Q L V I A S K V K A D R K H S S P H L		
UniRef90_E0W1B5	T V Q E S A V E T L L I S T D R L L L A S S T A Q Q L I	Q A I K G E A E P D S S E I I Q Q Q Q Q Q Q Q Q Q		
UniRef90_E0W1B5	T V Q E S A V E T L L I S T D R L L L A S S T A Q Q L I	Q A I K G E A E P D S S E I I Q Q Q Q Q Q Q Q Q Q		
UniRef90_T1J0N6	L F S S T G D A T E M V R Q A R I L L A Q A T A Q Q L I	S A I K G E A E P D S S D I I Q Q Q Q Q Q Q Q Q Q		
UniRef90_T1J0N6	L F S S T G D A T E M V R Q A R I L L A Q A T A Q Q L I	S A I K G E A E P D S S D I I Q Q Q Q Q Q Q Q Q Q		
UniRef90_G4TAQ3	V L S G T H S L E Q L I V A S N E V I	A A A T A Q Q L V A A S R V K A S E L M S K T Q Q Q Q Q Q		
UniRef90_G0SWE9	V I S G T K T L E Q L I V A S N E V I	A S A T A Q Q L V Q A S R V K S E L M S R T Q Q Q Q Q Q		
UniRef90_A8PVH0	V I M S T H S L E Q L I V A S N E V I	S A A T V Q L V A A S R V K S E L M S R T Q Q Q Q Q Q		
UniRef90_UPI00038335BB	V V L H M G K Y E E E L I V C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_A3LYU6	V L S E S N S H E E Q L I V A S N E V I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_T1KEZ6	L V R G S H A S E E R L I S A S K Q V I	A A S T A Q Q L V A C K V K A D R K H S S P H L		
UniRef90_G8YL72	V L R G T N S H E E Q L I V A S N E V I	A A S T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_A7SM91	V V L G K G K F F E E L V V A S N E V I	T A S T A Q Q L V A A S R V K A H R G S N K L Q Q Q		
UniRef90_A5DLY8	V I R D D C Q Q E E Q L I V A S N E V I	A A S T A Q Q L V A A S R V K A N F V S K T Q Q Q Q		
UniRef90_C5MGH5	V L K Q S N S H E E L I V A S K E V I	A A S T A Q Q L V A A S R V K A N F V S K A Q Q Q Q		
UniRef90_U9UIZ6	V I H K T H N L E E Q L I V A S N E V I	A A A T A Q Q L V A A S R V K A D R K H S S P H L		
UniRef90_B7QKD3	V V G G R A K F F E E L V V A S N E V I	A G A T A Q Q L V A A S K V K A A R G S E R S Q Q Q		
UniRef90_H8XB65	V I Q K K N T H E E L I V A S N E V I	A A S T A Q Q L V A A S R V K A N F M S K T Q Q Q Q		
UniRef90_T2MJV4	V I E G K G K F F E E L I V A S H E I I	A A S T A Q Q L V A A S R V K A S K N S Q K L Q Q Q		
UniRef90_L5LJC4	V V L H T G K Y E E E L I V C S H H E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_C4YA28	V L K N E N S H E E Q L I V A C N E V I	A A S T A Q Q L V A A R V K A N F M S K S Q Q Q Q		
UniRef90_V5IGE5	L F S S T G D A P E M V R Q A K V L A R A T A Q Q L I	Q S I K A Q A Q P D S S D Q Q Q Q Q Q Q Q Q Q		
UniRef90_V5IGE5	L F S S T G D A P E M V R Q A K V L A R A T A Q Q L I	Q S I K A Q A Q P D S S D Q Q Q Q Q Q Q Q Q Q		
UniRef90_V5IGE5	L F S S T G D A P E M V R Q A K V L A R A T A Q Q L I	Q S I K A Q A Q P D S S D Q Q Q Q Q Q Q Q Q Q		
UniRef90_UPI000258E86B	I A E D S A T Q N R V I S A A T Q C C A L A T S Q L V A C A K V V A P L H S P C C Q Q Q Q			
UniRef90_UPI000258E86B	I A E D S A T Q N R V I S A A T Q C C A L A T S Q L V A C A K V V A P L H S P C C Q Q Q Q			
UniRef90_UPI0002659252	C V V Q G A K M E Q L I V A S Q E I I	S A A T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_E9FVY2	V A A N E T E R Q Q V I A A A T Q C C A L A T S Q L V A C A K V V A P T I S D C C Q Q Q Q			
UniRef90_E9FVY2	V A A N E T E R Q Q V I A A A T Q C C A L A T S Q L V A C A K V V A P T I S D C C Q Q Q Q			
UniRef90_S9WZY4	V V I Q G R G K F F E E L M V C C S R E I I	A A S T A Q Q L V A A S K V K A D R K H S S P H L		
UniRef90_B3S4A0	M M E G T C G L E E L V V A S R E I I	S S S T V Q L V T A S R V K S N P R S E N L Q Q Q		
UniRef90_Q4T143	A V I Q G H A S E E K L I S A A K Q V A A S T A Q Q L V A C K V V A P L H S P C C Q Q Q Q			
UniRef90_UPI0003C13DA4	V A Q D T V L Q N R V I A A A T Q C C A L S T S Q L V A C A K V V S P T I S S C C Q Q Q Q			
UniRef90_UPI0003C13DA4	V A Q D T V L Q N R V I A A A T Q C C A L S T S Q L V A C A K V V S P T I S S C C Q Q Q Q			
UniRef90_W6MIN2	V L S S S N S P E E Q L I V A S N E V I	A A S T A Q Q L V A A S R V K A T F M S K S Q Q Q Q		
UniRef90_H3ANX1	V A Q K T E D Q N Q V I A A A T Q C C A L S T S Q L V A C T K V V A P T I S S C C Q Q Q Q			
UniRef90_H3ANX1	V A Q K T E D Q N Q V I A A A T Q C C A L S T S Q L V A C T K V V A P T I S S C C Q Q Q Q			
UniRef90_D5G8P9	V I S G T H K K L E Q L I V A N D V I	A A S T A Q Q L V A A S R V K A S F M S K S Q Q Q Q		
UniRef90_UPI0003F49B3F	V I S G T H S L E Q L I V A S N E V I	A A A T A Q Q L V A A S R V K A S L M S K T Q Q Q Q		
UniRef90_T1G1V3	V V N G Q G K F F E E L V V C A Q E I I	A A S T A Q Q L V A A S K V K A A G S L N L Q Q Q		
UniRef90_L7MJ63	L F S S T G D A P E M V R Q A K V L A R A T A Q Q L I	Q A I K A Q A E P D S S D Q Q Q Q Q Q Q Q Q Q		
UniRef90_L7MJ63	L F S S T G D A P E M V R Q A K V L A R A T A Q Q L I	Q A I K A Q A E P D S S D Q Q Q Q Q Q Q Q Q Q		
UniRef90_L7MJ63	L F S S T G D A P E M V R Q A K V L A R A T A Q Q L I	Q A I K A Q A E P D S S D Q Q Q Q Q Q Q Q Q Q		
UniRef90_A0A016V945	I S A D C C D E P E K V I H S A T Q C C A F A T S Q L V A C A R V V A P E S N A C C Q Q Q			
UniRef90_A0A016V945	I S A D C C D E P E K V I H S A T Q C C A F A T S Q L V A C A R V V A P E S N A C C Q Q Q			
UniRef90_W1QBG6	V L A G T N S S E E L I V A S N E V I	A A S T A Q Q L V S S R V K S D L M S Q S H Q Q Q		

QUERY S R L Q E C S R T V N E R A A N V V A 170 180 190
 UniRef90_H2LNR8 P V L Q Q A S R R H V N E M A T A N V V A S T K S G Q E Q I E D R D T M
 UniRef90_V9KCH3 G R L Q Q A S R R T G V N E M A T A N V V A S T K S G K S Q Q I E E K D D T M
 UniRef90_UPI0003C0374D S R L Q Q E C S R T V N E M A T A N V V A S T K S G Q E Q I E E N R D T M
 UniRef90_E7FD55 H T L Q Q A S R R H V N D M A A V V V T S T K S G Q M Q I E E D K N S M
 UniRef90_K7IT14 S A L S E A S R V N T Q A T A G V V A S T A K S C S Q L V I E E D N E D M
 UniRef90_F6Y171 S R L Q Q A S K V V V T Q N A A G V V A S T K C V M S Q I E E E K D T M
 UniRef90_K7GCX2 S A S Q L T S R V D S H S S A P T V E R L L L G R E S V I T P P D T M
 UniRef90_K1QW15 S E L S E A S R G V T S C T G K V V G S A R E A S Q I E E E S Q N L M
 UniRef90_C3XVA5 K E L R A A S R G V T A N A T A N V V A T T K S G Q A Q I E E E S D T M
 UniRef90_T1HTJ0 Y E L T N A S K G V T Q A T A G V V T T A K A C V Q L V I E E Q S D D F
 UniRef90_UPI000441A660 S K L Q T A S R G V N Q A T A R V V A S T K S G K S Q I Q E E K D S M
 UniRef90_T1JU8 T N L S R A S R G V T E A T A R V V A T A K S C A E L L E E R D V M
 UniRef90_M3CUW9 E R L E E C S K S V T S A C R S L V K Q V Q A I E S N N S G E D L
 UniRef90_UPI00026538C1 K G L Q V A S R R N V A T A T A G V V A S A K T G A Q M I E E E G D S
 UniRef90_L9KRW2 S R L Q E C S R T V N E M A T A N V V A S T K S G Q E Q I E E E S D T M
 UniRef90_S4RPE9 Q R L Q Q A S R T V N E A T A S V V A S T K S G K A Q I E E E K E T M
 UniRef90_E0VES6 K E L G T A S R K G V A Q S T A G V V A T A K S C S Q L I E E E S Q D L
 UniRef90_U5EQY1 G A L G T A S R N V T Q A T A G V V A T A K D C S T R L E E E S E D M
 UniRef90_J9K3E9 A E L S Q A S R N V T N A T A T V V A T A K S C A Q L V Q Q T E E L
 UniRef90_T1KKY7 S K L A Q S S K E V R E A T G N V V A A K S C A E K T E D V D T M
 UniRef90_R7TKR8 H E L A E A S R G V T S A T G R V V A S A K S A A Q M V I E D L D T M
 UniRef90_H2M7H7 Q R L Q R A S R G V T Q A T A V V A S T K S G K S Q I E D T E T M
 UniRef90_UPI000333479A T Q L Q Q A S R R V N Q A T A E V V A S T I G S Q I E E E T D N M
 UniRef90_V3ZUY7 G L L S H A S K R V N N A T G N V V A S A K T G S Q T I E D Q G L M
 UniRef90_K2RFN7 D R L E A A S K A V T Q A C R A L V R Q V Q S I I N E R N
 UniRef90_J3PLR3 V K L E V A A K A V T D A C K A L V K Q V K A
 UniRef90_F7IAE5 Q S L H T A S R K V A E S T A N V V A T A K S G A Q M I E E K D T M
 UniRef90_UPI0003F0A44B G D L T K A S R D V S Q A T A G V V A T V K D C N Q S L E Q L Q E V
 UniRef90_A0A034VWZ4 S R L Q E C S R A V N E R A A G V V A S T K S G Q E Q I E E D R D T M
 UniRef90_UPI00034FCEA0 D R L E R A A K A V T E A C R A L V K Q V R M I T D R Q T
 UniRef90_M5E7R6 K T L Q S A S R N V N G D A T A K V V A S T N A G R R Q L D E
 UniRef90_F6UP49 N T L Q Q A S R R H V N D M A A V V V T S T K H G Q Q Q I S D Q G V M
 UniRef90_Q4S237 E K L E S A S R D V T S A C K M L V R R V Q E I I N
 UniRef90_U4LPP3 K A L K A S S R A V S E A T G S V V A S A Q S G A D I K A E
 UniRef90_I1G9K8 V N L T N A S R D V T S A T G V V V A T V K D G Q E Q Q Q D N D
 UniRef90_B4KY13 S E L S A A S K T V N R A T G N V V A S A K S A A E I V E D Q N L M
 UniRef90_UPI000359CED9 A D L T K A S R N V T K A T G T V V A T V K D C N S Q L E Q R I E M
 UniRef90_B4MXM8 N T L E D A S T S V T S A C K A L V E Q V R S L L K K E E V E T I
 UniRef90_A5E5X1 D R L E G A S K A V N S A C R S L V K Q V Q D I I K
 UniRef90_G1XD83 D H L E D A A K A V T E A C K A L V R Q V E S V A L K A K E
 UniRef90_Q9P6L5 E E L E M G A S R D V T G A T R N L V S A A K N A S Q L M A D Q
 UniRef90_E9CEW1 D K L E L A S K S V T S A C R S L V R Q V Q E I L S Q K D K E E
 UniRef90_F2QXQ5 D N L E H A S S D V T S A C K A L V S K V Q Q L L T K E Q D T N D I
 UniRef90_G3AVU8 S N L T K A S R D V T S M A T G Q V V A T V R D G N S K L E Y K N E I
 UniRef90_UPI0003C3632A R R L L A A A K V L A D A T A K M V E A A R L C A S N P N D
 UniRef90_E0W1B5 R R L L A A A K V L A D A T A K M V E A A R L C A S N P N D
 UniRef90_E0W1B5 K R L L S A A K L L A D A T A R M V E A A K M C A S H P H D S D
 UniRef90_T1J0N6 K R L L S A A K L L A D A T A R M V E A A K M C A S H P H D S D
 UniRef90_T1J0N6 K R L L S A A K L L A D A T A R M V E A A K M C A S H P H D S D
 UniRef90_T1J0N6 E Q L E L A A K A V T E A C K A L V R Q V K S A R Q A E E E
 UniRef90_G4TAQ3 E N L E L A A K A V T D A C K A L V R Q V K A I E E Q M K R Q D D F
 UniRef90_G0SWE9 E R L E R A A K A V T D A C R S L V R Q V Q M I T D R Q S G T D D L
 UniRef90_A8PVH0 G R L Q E C S R N V N E M A N V V A S T K S G Q E Q I E E K D T M
 UniRef90_UPI00038335BB E N L E V A S S K V S T A C K S L V S K V Q A L L E V E E
 UniRef90_A3LYU6 V R L Q G A G N A V I K A T D N L K S A Q Q A I L H D E E Q
 UniRef90_T1KEZ6 D N L E S A S T K V S A C K A L V S T V Q Q A K E N A S E D N
 UniRef90_G8YL72 Q A L H G A S K D V E S A A G V V A S A K T G A E M I E D K
 UniRef90_A7SM91 D N L E T A S G S V T R A C K E L V G Q V Q R Y L T R A D E T Q N
 UniRef90_A5DLY8 D N L E D S S G N V T R A C K S L V D K V Q S L L T K E N E R
 UniRef90_C5MGH5 D R L E T A S R A V T E A C K A L V K A V K T A A K Q L E Q Q E
 UniRef90_U9UIZ6 S A L S K A S R G V T S E A T G N V V A T A K A C A Q M V I E D S E V L
 UniRef90_B7QKD3 D A L E S A S G D V T R A C K S L V N K V Q
 UniRef90_H8XB65 P L M T A S K N V G E A T A G V V A A V K S G A S M T E E
 UniRef90_T2MJV4
 UniRef90_L5LJC4
 UniRef90_C4YA28 D D L E G S S R T V N T A C K S L V A K V Q S L L T N A G D S D
 UniRef90_V5IGE5 K R L L A A A K V L A D A T A R M I E A A K G C A S N P H D S E N
 UniRef90_V5IGE5 K R L L A A A K V L A D A T A R M I E A A K G C A S N P H D S E N
 UniRef90_V5IGE5 K R L L A A A K V L A D A T A R M I E A A K G C A S N P H D S E N
 UniRef90_UPI000258E86B T Q L M N A V R E V T K A V E G L L E
 UniRef90_UPI000258E86B T Q L M N A V R E V T K A V E G L L E
 UniRef90_UPI0002659252 A A L G A A S K D V T R E N A N V I A T V K S C R Q Q V E D R D T L
 UniRef90_E9FVY2 Q H L T D A R E V A R A V E G I L A L C Q Q
 UniRef90_E9FVY2 Q H L I D A R E V A R A V E G I L A L C Q Q
 UniRef90_S9WZY4 A Q L Q Q A S R G V N Q A T A V V A S T I S G K S Q I E D T D N M
 UniRef90_B3S4A0 L Q L Q E S A S K L V T A S T T E V I A A A N A G R K V L A E D D
 UniRef90_Q4T143 K R L Q A A G N A V K R A S D N L V K A A Q K A A F E A E D D Q A V
 UniRef90_UPI0003C13DA4 E Q L I E A G K L V D R S V E G C V K A C Q A A T D D G E
 UniRef90_UPI0003C13DA4 E Q L I E A G K L V D R S V E G C V K A C Q A A T D D G E
 UniRef90_W6MIN2 D K L E S A S K T V T S A C R A L V N R V K E
 UniRef90_H3ANX1 E Q L I E A S K L V A K S V E G C V E S S Q A A T N D E Q
 UniRef90_H3ANX1 E Q L I E A S K L V A K S V E G C V E S S Q A A T N D E Q
 UniRef90_D5G8P9 E R L E A A S K A V T S A C K S L V R Q V Q D I I S A R E N E D V
 UniRef90_UPI0003F49B3F Q R L E V A S K A V T D A C K A L V R Q V K L I S N Q S D E D A V
 UniRef90_T1G1V3 I Q M S E A S K G V S E A T G L V V A S A K S G A E R M D E M E
 UniRef90_L7MJ63 K R L L A A A K V L A D A T A R M I E A A K G C A S N P H D S E N
 UniRef90_L7MJ63 K R L L A A A K V L A D A T A R M I E A A K G C A S N P H D S E N
 UniRef90_L7MJ63 K R L L A A A K V L A D A T A R M I E A A K G C A S N P H D S E N
 UniRef90_A0A016V945 E Q L T S A A K Q V S Q A V T E L L H D A
 UniRef90_A0A016V945 E Q L T S A A K Q V S Q A V T E L L H D A
 UniRef90_W1QBG6 L N L E E A S R K V T S S C K M L V T K V R S L L L S D E S N K T V

UniRef90_U6PIL9
UniRef90_UPI00045729DB
UniRef90_UPI00045729DB
UniRef90_C4YT13
UniRef90_V4BLR4
UniRef90_V4BLR4
UniRef90_B3RHY4
UniRef90_B3RHY4
UniRef90_Q176Z3
UniRef90_Q176Z3
UniRef90_Q176Z3
UniRef90_F1KS91
UniRef90_E5SZ14
UniRef90_Q7QJE3
UniRef90_Q7QJE3
UniRef90_Q7QJE3
UniRef90_R8BUP5
UniRef90_W4VRP8
UniRef90_W4VRP8
UniRef90_L0PEB1
UniRef90_UPI0003C369ED
UniRef90_UPI0003C369ED
UniRef90_UPI0003C369ED
UniRef90_D6WRC3
UniRef90_D6WRC3
UniRef90_D6WRC3
UniRef90_J0XK10
UniRef90_J0XK10
UniRef90_I4Y9U8
UniRef90_T1HTR5
UniRef90_T1HTR5
UniRef90_Q6CCQ4
UniRef90_F6WVV8
UniRef90_F6WVV8
UniRef90_E4XNU9
UniRef90_S2JQZ5
UniRef90_A0A044UXQ7
UniRef90_B6JXL0
UniRef90_C3ZG98
UniRef90_H2YNT1
UniRef90_U4U6N8
UniRef90_U4U6N8
UniRef90_H2WVP0
UniRef90_UPI0003AFB983
UniRef90_H9IVU1
UniRef90_D9J2B7
UniRef90_H2ST16
UniRef90_F4P9Y2
UniRef90_S3CUZ4
UniRef90_K0KM26
UniRef90_A7RL15
UniRef90_A7RL15
UniRef90_Q9VSL8
UniRef90_Q9VSL8
UniRef90_Q9VSL8
UniRef90_E9HPF1
UniRef90_W4XA47
UniRef90_W4XA47
UniRef90_I2JQH2
UniRef90_Q29F18
UniRef90_Q29F18
UniRef90_Q29F18
UniRef90_H9J7M9
UniRef90_Q4RZG3
UniRef90_B4LEJ9
UniRef90_B4LEJ9
UniRef90_B4LEJ9
UniRef90_A5ABT0
UniRef90_U6HWY9
UniRef90_T1K2Z5
UniRef90_T1K2Z5
UniRef90_T1K2Z5
UniRef90_UPI0003C0FE59
UniRef90_A0A058ZG90
UniRef90_D3BJM9
UniRef90_D6X0H5
UniRef90_J6EZ13
UniRef90_UPI0003991961
UniRef90_UPI0003991961
UniRef90_H3FC49
UniRef90_UPI0002C32071
UniRef90_F4NRQ5
UniRef90_T2M2W2
UniRef90_H2ZQQ3
UniRef90_H2ZQQ3
UniRef90_UPI0002657602
UniRef90_UPI0002657602
UniRef90_W8AIK1
UniRef90_W8AIK1
UniRef90_W8AIK1
UniRef90_T1EGA6
UniRef90_C6KIH6
UniRef90_F2PVE5

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

UniRef90_U6PIL9 E G I R L Q V N E A I L G C C Q Q L M S A V I M A L V T S S R E L Q M E I V A A G 80
UniRef90_UPI00045729DB Q Q L L K A A K N L A C A V S E L L K T A Q P A Q Q H L L T A A G G
UniRef90_UPI00045729DB N G G N I E V D E M L L L K A A K A I T D A V S E L L K T A S K P A S Q Q H L L T A A G G
UniRef90_C4YT13 Q E Q L I E A A K L V A K S V E G I V E A A Q G A C Q R D D Y V L Q Q
UniRef90_V4BLR4 Q E Q L I T A T K E L L A S A F V K L L K S S Q P E S M E S R Q S L
UniRef90_V4BLR4 Q E Q L I T A T K E L L A S A F V K L L K S S Q P E S M E S R Q S L
UniRef90_B3RHY4 L L T A T K E L L A S A F V K L L K S S Q P E S M E S R Q S L
UniRef90_B3RHY4 L L T A T K E L L A S A F V K L L K S S Q P E S M E S R Q S L
UniRef90_Q176Z3 Q L R G D L M N A A K D V S S K T L A E L L E H I K L S S S R R E R A R R R
UniRef90_Q176Z3 Q L R G D L M N A A K D V S S K T L A E L L E H I K L S S S R R E R A R R R
UniRef90_Q176Z3 Q L R G D L M N A A K D V S S K T L A E L L E H I K L S S S R R E R A R R R
UniRef90_F1KS91 S G I R L E V N E K I L D S C N A L M S A I V L V S K S R A M Q R E E I V A A G G
UniRef90_E5SZ14 A N E S L N F D E Q I L E A A K S I A T A V T A L V V K A A S A A A R E V A K A V
UniRef90_Q7QJE3 T E D E A T R N K V I G A A S Q C C A L A T S Q L V A C C A R A A A R E V A K A V
UniRef90_Q7QJE3 T E D E A T R N K V I G A A S Q C C A L A T S Q L V A C C A R A A A R E V A K A V
UniRef90_Q7QJE3 T E D E A T R N K V I G A A S Q C C A L A T S Q L V A C C A R A A A R E V A K A V
UniRef90_R8BUP5 S T Y E L K V S D T I L D A T A T T D A I A R L I K A A T V T Q Q E I V A A G G
UniRef90_W4VRP8 D N L L Q A T R K L C S A F S D L L K A A E P E N K E S R A S G G
UniRef90_W4VRP8 D N L L Q A T R K L C S A F S D L L K A A E P E N K E S R A S G G
UniRef90_L0PEB1 S S P D L L I H D T L L E A A I V I T N A V S Q L I K A A T D S Q N E I V S Q G G
UniRef90_UPI0003C369ED L L L A A A R D V S K S L S D M L L
UniRef90_UPI0003C369ED L L L A A A R D V S K S L S D M L L
UniRef90_UPI0003C369ED L L L A A A R D V S K S L S D M L L
UniRef90_D6WRC3 Q E Q L T A A V R E V A K A V E N L V S V C C N E A S E E L M N Q L L
UniRef90_D6WRC3 Q E Q L T A A V R E V A K A V E N L V S V C C N E A S E E L M N Q L L
UniRef90_D6WRC3 Q E Q L T A A V R E V A K A V E N L V S V C C N E A S E E L M N Q L L
UniRef90_J0XK10 S S Q G G
UniRef90_J0XK10 S S Q G G
UniRef90_I4Y9U8 S G L D K N V H D S I L L E A S L A I T N A I A R L I Q A A T E S T Q K E I V A Q G G
UniRef90_T1HTR5 D K L L D D A T R K L C C T A F T D L L K A A E P A T K E P R Q N L
UniRef90_T1HTR5 D K L L D D A T R K L C C T A F T D L L K A A E P A T K E P R Q N L
UniRef90_Q6CCQ4 S T T D L Q L H E A A I Q A A Q A V I N A I A D L I R A A E T D A Q N E I V A Q G G
UniRef90_F6WVW8 D G L M K A A R D L T A A I Q D L L K A A E P R Q N L L G A A G G
UniRef90_F6WVW8 D G L M K A A R D L T A A I Q D L L K A A E P R Q N L L G A A G G
UniRef90_E4XNU9 T G T E L A V H E A I L D S C T N L M D F I K Q L I I T S N K L Q K E I V E S G G
UniRef90_S2JQZ5 S A T D I K V N Q E I L L N S V L Q L T N A I A N L I K C A T A S Q Q E I V S Q G G
UniRef90_A0A044UXQ7 S G I R L K V N E G I L L D S C N A L M A A I V T L V E A S T A Q Q E E I V A A G G
UniRef90_B6JXL0 P P S E L Q V H D S I L L N A S I S I T Q A I A R L I E A S T A Q Q A R E I V A Q G G
UniRef90_C3ZG98 V D E T L N F E E Q I L L E A A K S I A A A T S A L V K A A S T A Q Q R E L V A Q G G
UniRef90_H2YNT1 S G V N L E V N E R I L D S C T D L M N F I R V L I T S S K D L Q R E I V D Q G G
UniRef90_U4U6N8 D L N K Q L K E A A A E V S R S L T D L L G H I K L A S R R E R A K A T T
UniRef90_U4U6N8 D L N K Q L K E A A A E V S R S L T D L L G H I K L A S R R E R A K A T T
UniRef90_H2WVP0 D G I R L E V N E S I L A N C Q A L M S V I M Q L V T A A S R E L Q Q V E I V A S G G
UniRef90_UPI0003AFB983 T G V K L E V N Q N I L G S C S D L M K A V H M L V T A A S T D L Q K D I V E G G G
UniRef90_H9IVU1 A D E T L N F D E M I L L E A A K S I I A A T S A L V R A A S A A Q Q R E I V D Q G G
UniRef90_D9J2B7 S T Y E L R I H D S I L D A A A I A V I T N A I A R L I K A A T V T Q Q E I V A Q G G
UniRef90_H2ST16 A D E T L N F E E Q I L L E A A K S I A A A T S A L V K S A S A A Q Q R E I V A Q G G
UniRef90_F4P9Y2 S G P D L Q V H S A I L D S A M A I T T A A I A N L I R C A T A S Q Q E I V A Q G G
UniRef90_S3CUZ4 A A Y K V E V H E A I L D Q A A A V T S A V A E L R A A T A A Q Q K D I V A Q G G
UniRef90_K0KM26 S Q I D F E I N K A I L S A A I A V T N A I A L L I S A A I E T Q A E E I V S Q N
UniRef90_A7RL15 V D Q E T Q E T L L K L A Q A V A N A T A T L V L K A K N V A S Q C P D T A
UniRef90_A7RL15 V D Q E T Q E T L L K L A Q A V A N A T A T L V L K A K N V A S Q C P D T A
UniRef90_Q9VSL8 E N R D L H D M L L A L A K A V A N T T A A L V L R A K N I
UniRef90_Q9VSL8 E N R D L H D M L L A L A K A V A N T T A A L V L R A K N I
UniRef90_Q9VSL8 E N R D L H D M L L A L A K A V A N T T A A L V L R A K N I
UniRef90_E9HPF1 T G V K L E V S E K V L D S C T A L M K A I V D L I R K A K V L Q E E I V A R G
UniRef90_W4XA47 S E K L L G A A R D L M D A F S D L L K F A Q P D S Q E P R Q N L
UniRef90_W4XA47 S E K L L G A A R D L M D A F S D L L K F A Q P D S Q E P R Q N L
UniRef90_I2JQH2 E T I D V Q V N S I L L G S A L A I I D A V K L L I N A S I S S Q E E I V N K G
UniRef90_Q29F18 A D L L A A A R D V S K S L T D M L L
UniRef90_Q29F18 A D L L A A A R D V S K S L T D M L L
UniRef90_Q29F18 A D L L A A A R D V S K S L T D M L L
UniRef90_H9J7M9 S G V K L E V N G K I L D A C T T L M A A V K V L V Q D A R Q L Q R N E I L G D Q
UniRef90_Q4RZG3 T G I K M E V N E R I L L A S C T E L M Q T I K E L I L S S K D L Q R N D I V E S G
UniRef90_B4LEJ9 A D L L D A A R D V S K S L T E M L
UniRef90_B4LEJ9 A D L L D A A R D V S K S L T E M L
UniRef90_B4LEJ9 A D L L D A A R D V S K S L T E M L
UniRef90_A5ABT0 S T Y E L R I N D V I L A A A I A V T N A I A E L I K A A T A S Q Q E I V R E G
UniRef90_U6HWY9 T G I Q L E V N E K I L L D S C T R R L M S A I S L L V A R A C D L Q I E V N E S G
UniRef90_T1K2Z5 V I A T L M E D E A L L D A A R R L C K A F S D L L K A A E P T S K A S R A S Q
UniRef90_T1K2Z5 V I A T L M E D E A L L D A A R R L C K A F S D L L K A A E P T S K A S R A S Q
UniRef90_UPI0003C0FE59 S G V K L E V N E R I L L D S C T D L M K A I R L L V T T S T S L Q K E I V E S G G
UniRef90_A0A058ZG90 S R A V H A S I L L D T T R A I A G A I G A L M R A A R L A Q Q E E I V A K G
UniRef90_D3BJM9 G I E D A G I D E A I L L E A A R A I T S A T G T L V K C A T E V Q H E L V Q Q G G
UniRef90_D6X0H5 S G I K L E V N S K I L D S C T T L M Q A I R V L V Q K S R L L Q A E E I V A Q G G
UniRef90_J6EZ13 D M L D V S V H D S I L L D A T Q Q I L A N A I G R L I Q Q A T E S Q E E I V R E G
UniRef90_UPI0003991961 Q L L L Q A A K N L A S A V S D L L K T A Q P A S A E P R A A G G
UniRef90_UPI0003991961 Q L L L Q A A K N L A S A V S D L L K T A Q P A S A E P R A A G G
UniRef90_UPI0003991961 Q L L L Q A A K N L A S A V S D L L K T A Q P A S A E P R A A G G
UniRef90_H3FC49 D G L R L E V N E R I L L D S C Q A L M A A I A I L V T T S T S L Q K E I V E S G G
UniRef90_UPI0002C32071 S G V K L E V N E R I L L N S C T D L M K A I R L L V T T S T S L Q K E I V E S G G
UniRef90_F4NRQ5 A N D E L K F D E Q I F E A A K A I A A A T S A L V R S A T G A Q R E I V A K G
UniRef90_T2M2W2 A D E S L N F E E Q I L L E A A K S I A A A T A A L V K A A S V A Q R E I V A T G
UniRef90_H2ZQQ3 A A A R D L T A A I Q D L L R A A K P R Q N L L G A A G G
UniRef90_H2ZQQ3 A A A R D L T A A I Q D L L R A A K P R Q N L L G A A G G
UniRef90_UPI0002657602 Q T T D Q E L Q N R I I Q A A T Q G A S A T S Q L V S S T K A C C Q T E L E N A S
UniRef90_UPI0002657602 Q T T D Q E L Q N R I I Q A A T Q G A S A T S Q L V S S T K A C C Q T E L E N A S
UniRef90_W8AIK1 L L L A A A R D V S K S L S D M L L
UniRef90_W8AIK1 L L L A A A R D V S K S L S D M L L
UniRef90_W8AIK1 L L L A A A R D V S K S L S D M L L
UniRef90_T1EGA6 V D D S L N F E E Q L L E A A K S I A A A T A A L V K A A S V A Q R E I V A Q D
UniRef90_C6KIH6 D G I R L E V N E S I L L A N C Q A L M S V I M Q L V I A S R E L Q Q E I V A A G G
UniRef90_F2PVE5 S A T A S Q Q E I V K E G

UniRef90_U6PIL9 K G G A S P H E F Y K R N H Q W T E G L L S A A K A V G V A A R V L V L E S A N G 90 100 110 120
UniRef90_UPI00045729DB T V G H T S S G E E S D A D P R F Q E V L L M Q L A K A V A N A A A A A L V L R S K N N
UniRef90_UPI00045729DB T V G H T S S G E E S D A D P R F Q E V L L M Q L A K A V A N A A A A A L V L R S K N N
UniRef90_C4YT13 T V G G T T S S G D F Y K A D N S R R W T E G L L S A A K A V A G A N A A A A A L V L H T T T T D K
UniRef90_V4BLR4 D L G G A A T Q V T K A L N D L L Q G G P T K A T E V H E E A V D D Q I L T T T T D K
UniRef90_V4BLR4 D L G G A A T Q V T K A L N D L L Q G G P T K A T E V H E E A V D D Q I L T T T T D K
UniRef90_B3RHY4 L E A A N D A G I H S K N E Q F H H E D L L N A A K A V A L A T T T T L M K Q A K N
UniRef90_B3RHY4 L E A A N D A G I H S K N E Q F H H E D L L N A A K A V A L A T T T T L M K Q A K N
UniRef90_Q176Z3 V D D D N P V I E E V L V V A T D I L V L S S A S D
UniRef90_Q176Z3 V D D D N P V I E E V L V V A T D I L V L S S A S D
UniRef90_Q176Z3 V D D D N P V I E E V L V V A T D I L V L S S A S D
UniRef90_F1KS91 R G T A S P K E F Y K R N H Q W T E G L L S A A K A V G V A A T V L V L S S A S D G
UniRef90_E5SZ14 R V D P R P T L Q T K R N D D Y Q W S E G L L S A A K A V G V A A T H S C Q S A N A
UniRef90_Q7QJE3 A H L A E V C C C N E A T D D N Q Q L R G D L T A A A K D V S K S L T D L L E V A T D D
UniRef90_Q7QJE3 A H L A E V C C C N E A T D D N Q Q L R G D L T A A A K D V S K S L T D L L E V A T D D
UniRef90_Q7QJE3 A H L A E V C C C N E A T D D N Q Q L R G D L T A A A K D V S K S L T D L L E V A T D D
UniRef90_R8BUP5 R G S S S K T A F Y K K N N R W T E G L L S A A K A V A S S T N T L I L E T A D G S
UniRef90_W4VRP8 N V L S T M G E E S T E S R E L Y E M L L S L A K A V A N T T A A L V L K A K S
UniRef90_W4VRP8 N V L S T M G E E S T E S R E L Y E M L L S L A K A V A N T T A A L V L K A K S
UniRef90_L0PEB1 K G S N T R A A F Y K K N N R W T E G L L S A A K A V A G S T N I L I L E T A D G
UniRef90_UPI0003C369ED E H V K L S S S R E Y A N R S S S Q E M S P V I E N V I I S T D I L V L S S S
UniRef90_UPI0003C369ED E H V K L S S S R E Y A N R S S S Q E M S P V I E N V I I S T D I L V L S S S
UniRef90_UPI0003C369ED E H V K L S S S R E Y A N R S S S Q E M S P V I E N V I I S T D I L V L S S S
UniRef90_D6WRC3 K Q A A S E V T R T L N D L L N H I K L L A S R E R A Q E T I Q E H S V E A T D R
UniRef90_D6WRC3 K Q A A S E V T R T L N D L L N H I K L L A S R E R A Q E T I Q E H S V E A T D R
UniRef90_D6WRC3 K Q A A S E V T R T L N D L L N H I K L L A S R E R A Q E T I Q E H S V E A T D R
UniRef90_J0XK10 A V I N T L D E P T S E V R T F H D R L V Q R A K N V A T S T A Q L V L R A K T
UniRef90_J0XK10 A V I N T L D E P T S E V R T F H D R L V Q R A K N V A T S T A Q L V L R A K T
UniRef90_I4Y9U8 R G S M S A Q Q F Y K R N N R W T E G L L S A A K A V A F A T N L L I E A S A D G
UniRef90_T1HTR5 L N A A S R V G E A S R D K E A Q D T L L G L G K A V A A A A L V L R G K S V A
UniRef90_T1HTR5 L N A A S R V G E A S R D K E A Q D T L L G L G K A V A A A A L V L R G K S V A
UniRef90_Q6CCQ4 R G T S S R A Q F Y K K N N K W T E G L L S A A K S V A A S T N I L I E K A D G T
UniRef90_F6WVV8 K I G D A S H D I L K G D D D E F Q D I L M N L A K K V A N A T A A L V L K G K T
UniRef90_F6WVV8 K I G D A S H D I L K G D D D E F Q D I L M N L A K K V A N A T A A L V L K G K T
UniRef90_E4XNU9 R G A G S A E D F Y C R N S R W T D G L L S A S K A V G L R A Q T L T D L A D L
UniRef90_S2JQZ5 R G S S K A E F Y K K H N R W T E G L L S A A K A V A V A T N V L V E A A D G D
UniRef90_A0A044UXQ7 N D T A N P N E A F Y K R N H Q W T E G L L S A A K A V G V A A T V L V E A K A D D
UniRef90_B6JXL0 K G S S S R A A F Y K K N N R W T E G L L S A A Q A V A R A T N T L I E T A D G E
UniRef90_C3ZG98 K V G S S R A M A Y D D G Q W S E G L L S A A R M V A A A T G S L C D A A N E M
UniRef90_H2YNT1 R G A S S T E F Y M K N S R W T E G L L S A A K A V G W G A T M L T T A T D K
UniRef90_U4U6N8 V Q E H S V I E E I Y T A T D K
UniRef90_U4U6N8 V Q E H S V I E E I Y T A T D K
UniRef90_H2WVWV0 K A G S P A E F Y K R N H Q W T E G L L S A A K A V G V A A K V L V L E S A D G
UniRef90_UPI0003AFB983 R G A A T V T E F Y A K N S C W T E G L L S A A K A V G W G A T Q L L E T T
UniRef90_H9IVU1 A V A R R P A M S D D G S W S G G L V S A A K A V A A S A T H S L V E E A N A
UniRef90_D9J2B7 K G T S S K S N F Y K K N N R W T E G L L S A A K A V A A S T N T L I E E A A D G
UniRef90_H2ST16 K V G L I S A N A E D D G Q W S Q G L I S A A R M V A A A T S N L C E E A A N A
UniRef90_F4P9Y2 K G T S S L V A F Y K K N N K W T E G L L S A A Q A V A A Q A T T Y L I E M A D G
UniRef90_S3CUZ4 R G G Q S K T A F Y K K N N R W T E G L L S A A K A V A A S T N T L I E T A D G
UniRef90_K0KM26 K G S G T R A Q Y Y K K H N R W T E G L L S A A K A V A G S T K I L I S T A D G
UniRef90_A7RL15 Q Q N K V G A A K D T A M T T S Q L V A C C V K L
UniRef90_A7RL15 Q Q N K V G A A K D T A M T T S Q L V A C C V K L
UniRef90_Q9VSL8 A A S C C D D E Q A R N R R V I G A A S Q C C A L A T S Q L V A C C A K V
UniRef90_Q9VSL8 A A S C C D D E Q A R N R R V I G A A S Q C C A L A T S Q L V A C C A K V
UniRef90_Q9VSL8 A A S C C D D E Q A R N R R V I G A A S Q C C A L A T S Q L V A C C A K V
UniRef90_E9HPF1 K G S A T A R D F Y K R N H R W T E G L L S A A K A V G F G A K L L T D A D N
UniRef90_W4XA47 L G A A N R G S T G D V D P R F Q D A L L A L A K A V A N A T A A M V L K A K T
UniRef90_W4XA47 L G A A N R G S T G D V D P R F Q D A L L A L A K A V A N A T A A M V L K A K T
UniRef90_I2JQH2 R G S H S R N S F Y K K N N R W T E G L L S A A K A I A Y S S N V L I Q I A D G
UniRef90_Q29F18 E H V K L S S S R E N A S R T S T E L S P V I E N V I I G T D I L V S S
UniRef90_Q29F18 E H V K L S S S R E N A S R T S T E L S P V I E N V I I G T D I L V S S
UniRef90_Q29F18 E H V K L S S S R E N A S R T S T E L S P V I E N V I I G T D I L V S S
UniRef90_H9J7M9 H S R K Q K M Y R K N P Q W S E G L L S A A K A V V F A A K L V S S S A D E
UniRef90_Q4RZG3 R G A A S M K E F Y A K N S R W T E G L L S A S K A V G W G A T V M V S S K R T K
UniRef90_B4LEJ9 E H V K L S T R E H A N R T S Q E L S P V I E N V I I G T D V L V S S
UniRef90_B4LEJ9 E H V K L S T R E H A N R T S Q E L S P V I E N V I I G T D V L V S S
UniRef90_B4LEJ9 E H V K L S T R E H A N R T S Q E L S P V I E N V I I G T D V L V S S
UniRef90_A5ABT0 R G T A T V K E F Y K R N H Q W T E G L L S A A K A V A S S T N T L I E T A D G
UniRef90_U6HWY9 A V L A T I G E E E E Y D K E T A D I L L A I A K H V A N A A A S L V L K A K D
UniRef90_T1K2Z5 A V L A T I G E E E E E Y D K E T A D I L L A I A K H V A N A A A S L V L K A K D
UniRef90_T1K2Z5 A V L A T I G E E E E E Y D K E T A D I L L A I A K H V A N A A A S L V L K A K D
UniRef90_UPI0003C0FE59 R G A A T Q D E F Y A K N S R W T E G L L S A S K A V G W G A T Q L V Y V A P D
UniRef90_A0A058ZG90 R G T A S P D Q F Y R K N H R W T E G L L S A A Q S V A S C T N T V L D K A D R
UniRef90_D3BJM9 K A K T G G A V Y R R D P T W A R G L I S A A Q A V A G S V Q T L V V S A N D
UniRef90_D6X0H5 K G T A S A K E F Y K R N H Q W T D G F I S A A K A V A Y A A K F L T A A D K
UniRef90_J6EZ13 K G S S V I Q Q F Y K R N N R W T E G L L S A A K A V A Y A T S L L I E S A D G
UniRef90_UPI0003991961 L V G Q T S G E E S D T D P R F Q D M L M Q L A K A V A X T L V L K S K N V A Q
UniRef90_UPI0003991961 L V G Q T S G E E S D T D P R F Q D M L M Q L A K A V A X T L V L K S K N V A Q
UniRef90_H3FC49 R G Q G P P Q E F Y K R N H Q W T E G L L S A A K A V G V A A R V L V A A A D G
UniRef90_UPI0002C32071 R G A A T Q Q E F Y A K N S R W T E G L L S A S K A V G W G A T Q L V Y V A S Q
UniRef90_F4NRQ5 R A G K T D A M Y H S D G T W N D G L V S A A K A V A A S T S E L C E A A N E
UniRef90_T2M2W2 R V Y A V T S T D E D G Q W S Q G L I S A A N T V V G T L L Q L C E T A N A
UniRef90_H2ZQQ3 K I G A S H G D G G D D E F Q A S D I L M N L A K Q V A S A T A A L V L Q A K T
UniRef90_H2ZQQ3 K I G A S H G D G G D D E F Q A S D I L M N L A K Q V A S A T A A L V L Q A K T
UniRef90_UPI0002657602 K E V S R T V Q D A T D D P K L L Q S L K D A A R Q V A G P V T T I L D A T D R
UniRef90_UPI0002657602 K E V S R T V Q D A T D D P K L L Q S L K D A A R Q V A G P V T T I L D A T D R
UniRef90_W8AIK1 D H V K L S S S R E Y A S R T S Q E M S P V I E N V I I G T D I L V S S
UniRef90_W8AIK1 D H V K L S S S R E Y A S R T S Q E M S P V I E N V I I G T D I L V S S
UniRef90_W8AIK1 D H V K L S S S R E Y A S R T S Q E M S P V I E N V I I G T D I L V S S
UniRef90_T1EGA6 K L G K V S D D Y D T D S Q W S Q G L I S A A R M V A A A T Q S L C D A A N A
UniRef90_C6KIH6 K Q G G S P A E F Y K R N H Q W T E G L L S A A K A V G V A A R V L V E S A D G
UniRef90_F2PVE5 R G S S S R T A F Y K K N N R W T E G L L S A A K A V A T S T N T L I E T A D G

UniRef90_U6PIL9 V V T R Q G K F E H L I V A A Q E I A 140 S T A Q L F V S S 150 K A D K D S Q K 160
UniRef90_UPI00045729DB V A Q D S G L Q N R R V I A A A T Q Q C A L S T S T Q L V A C T K V V V A P T T I S A A C Q
UniRef90_UPI00045729DB V A Q D S G L Q N R R V I A A A T Q Q C A L S T S T Q L V A C T K V V V A P T T I S A A C Q
UniRef90_C4YT13 V L K G S N S H E E L I V A A A T Q Q C A L S T S T Q L V A C T K V V V A P T T I S A A C Q
UniRef90_V4BLR4 L F S S S V G D A H E M V K N A R R L L A Q A T S T S Q L V T A I I Q A E S H P D S S D V Q Q
UniRef90_V4BLR4 L F S S S V G D A H E M V K N A R R L L A Q A T S T S Q L V T A I I Q A E S H P D S S D V Q Q
UniRef90_B3RHY4 V A S S N S N D P D D T V I I T A K N G A I S S S S Q L V T C C V K L L S P D S S L L C C Q Q
UniRef90_B3RHY4 V A S S N S N D P D D T V I I T A K N G A I S S S S Q L V T C C V K L L S P D S S L L C C Q Q
UniRef90_Q176Z3 P Q E M I R Q A Q Q Q L L G K A T A Q L I I Q S I K G E A E E R D S S N L L Q Q Q
UniRef90_Q176Z3 P Q E M I R Q A Q Q Q L L G K A T A Q L I I Q S I K G E A E E R D S S N L L Q Q Q
UniRef90_Q176Z3 P Q E M I R Q A Q Q Q L L G K A T A Q L I I Q S I K G E A E E R D S S N L L Q Q Q
UniRef90_F1KS91 A I T G K G K L E E H L I S A A K Q V I A A S T A H L V A C K V K A D M N S K K V M
UniRef90_E5SZ14 L V Q G H A T E E K L I S A A K Q V I A A S T A H L V A C K V K A D M N S K K V M
UniRef90_Q7QJE3 I L V S S S S D P Q E M I R Q A Q Q Q L L G K A T A Q L I I Q S I K G E A E S D S N M M Q
UniRef90_Q7QJE3 I L V S S S S D P Q E M I R Q A Q Q Q L L G K A T A Q L I I Q S I K G E A E S D S N M M Q
UniRef90_Q7QJE3 I L V S S S S D P Q E M I R Q A Q Q Q L L G K A T A Q L I I Q S I K G E A E S D S N M M Q
UniRef90_R8BUP5 T I S G R N S P E Q L I V A S N D V A A S T A Q L V A A S R V K A G F M S K S Q Q
UniRef90_W4VRP8 I A E D E T T R N K V I G A A S Q C A L S T S Q L V A C A R V V A P Q S P A C C R
UniRef90_W4VRP8 I A E D E T T R N K V I G A A S Q C A L S T S Q L V A C A R V V A P Q S P A C C R
UniRef90_L0PEB1 M I N G G N S P E Q L I V A S N E M A A A T A Q L V S A S R V K A K F M S K T Q Q
UniRef90_UPI0003C369ED H D P Q E M V R H A K T L L G Q A T A Q L I I Q S I K G E A D Q Q Q D A Q Q
UniRef90_UPI0003C369ED H D P Q E M V R H A K T L L G Q A T A Q L I I Q S I K G E A D Q Q Q D A Q Q
UniRef90_UPI0003C369ED H D P Q E M V R H A K T L L G Q A T A Q L I I Q S I K G E A D Q Q Q D A Q Q
UniRef90_D6WRC3 L S A A S G D P N E M V K Q A R L L G Q A T A Q L I I Q S I K G E A E P D S D I I Q Q
UniRef90_D6WRC3 L S A A S G D P N E M V K Q A R L L G Q A T A Q L I I Q S I K G E A E P D S D I I Q Q
UniRef90_D6WRC3 L S A A S G D P N E M V K Q A R L L G Q A T A Q L I I Q S I K G E A E P D S D I I Q Q
UniRef90_J0XK10 I S E E P A L Q D K V I H S A T Q C A Y A T S Q L V A C A R V V A P D S P A C C Q Q
UniRef90_J0XK10 I S E E P A L Q D K V I H S A T Q C A Y A T S Q L V A C A R V V A P D S P A C C Q Q
UniRef90_J0XK10 I S E E P A L Q D K V I H S A T Q C A Y A T S Q L V A C A R V V A P D S P A C C Q Q
UniRef90_I4Y9U8 V L N G S H S L E Q L I V A S N E V A A A T A Q L V A A S R V K A N F M S K T Q Q
UniRef90_T1HTR5 S T L N Q P E Q N R A I G V A T Q C A L T T S Q L V A C A K V V A P Q S P P C C Q Q
UniRef90_T1HTR5 S T L N Q P E Q N R A I G V A T Q C A L T T S Q L V A C A K V V A P Q S P P C C Q Q
UniRef90_Q6CCQ4 T L R R T S G L E E L I V A S N N V A A S T A Q L V A A S R V K A T F M S K T Q Q
UniRef90_F6WVW8 V A S Q S N D Q N Q V I A S A T Q C A L S T S Q L V A C T K V V G P S N P S C C K
UniRef90_F6WVW8 V A S Q S N D Q N Q V I A S A T Q C A L S T S Q L V A C T K V V G P S N P S C C K
UniRef90_E4XNU9 C V K G Q G N F D E L I V A S R E I T A S T A Q L M A S R V K A T R G M S E N L
UniRef90_S2JQZ5 V I S K T H S K L E Y L I V A S Q E I V A A S T A Q L V S A S R V K S A D F R E S P R L Q
UniRef90_A0A044UXQ7 V V S C Q G K L E Y L I V A S Q E I V A A S T A Q L F V S S R V K A D F R E S P R L Q
UniRef90_B6JXL0 I I N G N Y D L E H L I V A C N G V A A A T A Q L V A A S R V K A N F A S K T Q Q
UniRef90_C3ZG98 M V Q G L A S E E K L I S S A K Q V I A A S T A Q L L V A C K V K A D P S E A M
UniRef90_H2YNT1 V I Q G D G K F E E L V S C H E I V A A S T A Q L V A A S R V K A G K E S G K L
UniRef90_U4U6N8 I S A A T G D A N E M V R Q A R R L L G N A T A Q L I I Q S I K G E A E R N T D I I Q Q
UniRef90_U4U6N8 I S A A T G D A N E M V R Q A R R L L G N A T A Q L I I Q S I K G E A E R N T D I I Q Q
UniRef90_H2WVP0 V V T G K G K F E H L I V A A Q E I A A S T A Q L F V S S R V K A D K D S A K L
UniRef90_UPI0003AFB983 L V Q G A A T E E R L I V S A R N Q V A A S S T A H L V A C K V K A D R N N K K L
UniRef90_H9IVU1 V L S G R N S P E E K L I S S A K Q V A A S T A Q L L V A C K V K A D P G A E S T
UniRef90_D9J2B7 S V Q G G H A S E E K L I S S A K Q V A A S T A Q L L V A C K V K A D Q D S E A M
UniRef90_H2ST16 L V Q G T K S W E Q L V I V A A Q V A A S T T Q L L V A A A R V K A T A G S R T Q Q
UniRef90_F4P9Y2 V L S G R N S P E E Q L I V A A N D V A A S T A Q L V A A S R V K A T A G S R T Q Q
UniRef90_S3CUZ4 V L G N K N S H E E L I V A S N E V A A S T A Q L V A A S R V K A T F M S K S Q Q
UniRef90_K0KM26 V V T S Q M C Q E Q V V E S A K Q V A K A V E D T E G A C C K G A C C D P D S E N M
UniRef90_A7RL15 V V T S Q M C Q E Q V V E S A K Q V A K A V E D T E G A C C K G A C C D P D S E N M
UniRef90_A7RL15 V V T S Q M C Q E Q V V E S A K Q V A K A V E D T E G A C C K G A C C D P D S E N M
UniRef90_Q9VSL8 V L H N A A C R E Q L E A A K N V A R A V N S L C C E V C C N E A S N D P K L K
UniRef90_Q9VSL8 V L H N A A C R E Q L E A A K N V A R A V N S L C C E V C C N E A S N D P K L K
UniRef90_Q9VSL8 V L H N A A C R E Q L E A A K N V A R A V N S L C C E V C C N E A S N D P K L K
UniRef90_Q9VSL8 V L H N A A C R E Q L E A A K N V A R A V N S L C C E V C C N E A S N D P K L K
UniRef90_E9HPP1 V V K G Q A K F E Q L T V A S Q E I A A S T A Q L V F A S R V K A E L Q S K N L
UniRef90_W4XA47 V A S K T E D Q E R V I G S A T Q C A L N T S Q L V A C T K V T A P T I S A C C Q
UniRef90_W4XA47 V A S K T E D Q E R V I G S A T Q C A L N T S Q L V A C T K V T A P T I S A C C Q
UniRef90_I2JQH2 T L Q G N N S N E E L I V A S R E V A A S T A Q L V A A A R V K S D L M S K T E
UniRef90_Q29F18 T H D P Q E M V R H A R T L G K T T A Q L I I Q S I K G E A E Q Q Q D M Q
UniRef90_Q29F18 T H D P Q E M V R H A R T L G K T T A Q L I I Q S I K G E A E Q Q Q D M Q
UniRef90_Q29F18 T H D P Q E M V R H A R T L G K T T A Q L I I Q S I K G E A E Q Q Q D M Q
UniRef90_Q29F18 T H D P Q E M V R H A R T L G K T T A Q L I I Q S I K G E A E Q Q Q D M Q
UniRef90_H9J7M9 A V G G S G R M E G V S A A A H E V A G S T A Q L V A A S R A R A P P Q T P A L
UniRef90_Q4RZG3 T N D P Q E M V R H A R T L G Q T T A Q L I I Q S I K G E A D Q D A D M Q
UniRef90_B4LEJ9 T N D P Q E M V R H A R T L G Q T T A Q L I I Q S I K G E A D Q D A D M Q
UniRef90_B4LEJ9 T N D P Q E M V R H A R T L G Q T T A Q L I I Q S I K G E A D Q D A D M Q
UniRef90_B4LEJ9 T N D P Q E M V R H A R T L G Q T T A Q L I I Q S I K G E A D Q D A D M Q
UniRef90_A5ABT0 V I S G R N S P E Q L I V A S N D V A A S T A Q L V A A S R V K A T F M S K S Q
UniRef90_U6HWY9 I V T N K G Q L E R L I V A A L E I S G S T T Q L V V A S R V K A S K G C L
UniRef90_T1K2Z5 V A S D D T D Q A K V I D S A T Q C A L A T S Q L V T T A K V V A P Q N P S C Q
UniRef90_T1K2Z5 V A S D D T D Q A K V I D S A T Q C A L A T S Q L V T T A K V V A P Q N P S C Q
UniRef90_UPI0003C0FE59 T M D F S G
UniRef90_A0A058ZG90 A V S G E N R M E Y L V A S A H Q V A A S T A Q L V A A S R V K A D R N S V T Q
UniRef90_D3BJM9 S T S G K A E E T L V A A A R G V A A T T A R L V S A S R A K A D L N S Q S N
UniRef90_D6X0H5 V V S N G K L E Q L M V V A A Q E I A A S T A Q L V V A S R V K A N R N S A N L
UniRef90_J6EZ13 V I S G T H S F E Q L I V A A N E V A A A T A Q L V A A S R V K A S L M S K A Q
UniRef90_UPI0003991961 K T E D A A L Q T Q V I A A A T Q C A L S T S Q L V A C T K V V A P T I S S C Q
UniRef90_UPI0003991961 K T E D A A L Q T Q V I A A A T Q C A L S T S Q L V A C T K V V A P T I S S C Q
UniRef90_H3FC49 V V T G S G K F E Q L I V A A Q E I A A S T A Q L F V S S R V K A D R D S E K M
UniRef90_UPI0002C32071 V M L P T A V R E L I V C S H E I A D S T X Q L V
UniRef90_F4NRQ5 V V K G S A Q H D R V I V C A R N V S S F T V Q L L T A A A V R S D S S K T Q
UniRef90_T2M2W2 A V Q G N A T E E R I I V A K G V A S S T A Q L L L A C K V K A D P S S Q T Q
UniRef90_H2ZQQ3 V A Q D Q T T Q N D V I T S A T K C A L S T S Q L V A C T K V V G P Y N P S C K
UniRef90_H2ZQQ3 V A Q D Q T T Q N D V I T S A T K C A L S T S Q L V A C T K V V G P Y N P S C K
UniRef90_UPI0002657602 L F D S S G D T T E M F R Q A K I L A A A T A Q L V K G I E G D A E Q Q S D Q Q
UniRef90_UPI0002657602 L F D S S G D T T E M F R Q A K I L A A A T A Q L V K G I E G D A E Q Q S D Q Q
UniRef90_W8AIK1 N D P Q E M V R H A K T L G Q A T A Q L I I Q S I K G E A D K D E D M Q
UniRef90_W8AIK1 N D P Q E M V R H A K T L G Q A T A Q L I I Q S I K G E A D K D E D M Q
UniRef90_W8AIK1 N D P Q E M V R H A K T L G Q A T A Q L I I Q S I K G E A D K D E D M Q
UniRef90_T1EGA6 M V Q G Q A S E E K L I S S A K Q V I A A S T A Q L L I A C K V K A D P N S Q A M
UniRef90_C6KIH6 V V T G K G K F E H L I V A A Q E I A A S T A Q L F V S S R V K A D K D S A K L
UniRef90_F2PVE5 V I S G R N S P E Q L I V A S N D V A A S T A Q L V A A S R V K A T F M S K T Q

UniRef90_U6PIL9 A A L S V S S K S V N Q C T A Q V V A A V K N A Q T T L N D Q D N L
UniRef90_UPI00045729DB E Q L T E A G K L V A K S V E G C V E A S Q A A T Q D E Q
UniRef90_UPI00045729DB E Q L T E A G K L V A K S V E G C V E A S Q A A T Q D E Q
UniRef90_C4YT13 E D N L E I A A S N V V S K A C A N L V
UniRef90_V4BLR4 K R L L A A A K Q L A D A T A N L V E A A K G C A S S P N D S N
UniRef90_V4BLR4 K R L L A A A K Q L A D A T A N L V E A A K G C A S S P N D S N
UniRef90_B3RHY4 E Q L F D A G Q N V I K A I N N V V A A C K N E S V D E D L Q E D V
UniRef90_B3RHY4 E Q L F D A G Q N V I K A I N N V V A A C K N E S V D E D L Q E D V
UniRef90_Q176Z3 R K L L E A A K Q L A D A T A R M V E A A R L C C A
UniRef90_Q176Z3 R K L L E A A K Q L A D A T A R M V E A A R L C C A
UniRef90_Q176Z3 R K L L E A A K Q L A D A T A R M V E A A R L C C A
UniRef90_F1KS91 A E L L T A S R A V N S C T A S V V A T V K S G Q Q K L S D N E T L
UniRef90_E5SZ14 R R L Q A A G N A V K T A T E H L V R A A R Q A I E L E D E R
UniRef90_Q7QE3 R K L L E A A K Q L A D A T A R M V E A A R L C C A
UniRef90_Q7QE3 R K L L E A A K Q L A D A T A R M V E A A R L C C A
UniRef90_Q7QE3 R K L L E A A K Q L A D A T A R M V E A A R L C C A
UniRef90_R8BUP5 D T L E Q A S K A V G A A C R A L V R Q V Q A
UniRef90_W4VRP8 E Q L E S A T R E V A K S V T H L V E V C N D A S D
UniRef90_W4VRP8 E Q L E S A T R E V A K S V T H L V E V C N D A S D
UniRef90_L0PEB1 Q T L E D A S K A V S Q A C K V L V K Q V Q D A R F F Q N E D K
UniRef90_UPI0003C369ED R R L L S A A K Q L A D A T A K L V E A A R L C S S H P H D T E N
UniRef90_UPI0003C369ED R R L L S A A K Q L A D A T A K L V E A A R L C S S H P H D T E N
UniRef90_UPI0003C369ED R R L L S A A K Q L A D A T A K L V E A A R L C S S H P H D T E N
UniRef90_D6WRC3 R R L L A A A K T L A D A T A R M V E A A R Q C C A S H
UniRef90_D6WRC3 R R L L A A A K T L A D A T A R M V E A A R Q C C A S H
UniRef90_D6WRC3 R R L L A A A K T L A D A T A R M V E A A R Q C C A S H
UniRef90_J0XK10 E Q L T S A A K Q V A H A V E D L
UniRef90_J0XK10 E Q L T S A A K Q V A H A V E D L
UniRef90_I4Y9U8 E R L E I A A K A V T E A C K A L V R Q V K A S A K Q A Q D A D
UniRef90_T1HTR5 Q Q L E A A V K E V T H A V E S L V T
UniRef90_T1HTR5 Q Q L E A A V K E V T H A V E S L V T
UniRef90_Q6CCQ4 D K L E E C S K V V T S A C R N L V K Q V Q E
UniRef90_F6WVV8 E Q L I D A A R E V S Q S V E G C L E S T Q I A
UniRef90_F6WVV8 E Q L I D A A R E V S Q S V E G C L E S T Q I A
UniRef90_E4XNU9 T K L E V L S K Q V N K A A G Q V V G A S Q S G K T S T E K S S T
UniRef90_S2JQZ5 E R L E L A A K G V K D A A E L V K Q I K N L V A E Q N K S E T
UniRef90_A0A044UXQ7 K E L S T A S S V N T A C A N V V A T V K N A Q I T L N E Q R D L
UniRef90_B6JXL0 D H L E Q A A K A V G D A C K A L V R Q V Q S A K Q Q A E Q E D
UniRef90_C3ZG98 R R L Q Q A G R N
UniRef90_H2YNT1 K T L Q S A S R N V N G A T A R V V A S T N A G R R Q L D E
UniRef90_U4U6N8 R R L L A A A K T L A D A T A R M V E A A R Q C T E H
UniRef90_U4U6N8 R R L L A A A K T L A D A T A R M V E A A R Q C T E H
UniRef90_H2WVP0 N A L S I A A S K A V N D M A A V V T S T K H G Q Q Q I S D H G L M
UniRef90_UPI0003AFB983 N T L Q Q A S R H V N D M A A V V T S T K H G Q Q Q I S D H G L M
UniRef90_H9IVU1 R R L Q A A G A E V I R S T D N L V R A A R D A I H C D D E R
UniRef90_D9J2B7 E S L E Q A S K A V G A A C R A L V R Q V Q S M I K D R D S E D D
UniRef90_H2ST16 R R L Q D A G N A V K K A S D N L V R A A Q N A A F N K A D D D N I
UniRef90_F4P9Y2 D R L E A A A Q A V R E A T C R L V R A A K E A A K L S A E S
UniRef90_S3CUZ4 E G L E V A S R A V G A A C R S L V R Q V Q S L M K P E S D D
UniRef90_K0KM26 E K L E V A S K T V T S A C R V L V N Q V Q D I L S K R
UniRef90_A7RL15 N V L I D A A Q G V R D A L N A L L K K V R E G G E R P T E G E
UniRef90_A7RL15 N V L I D A A Q G V R D A L N A L L K K V R E G G E R P T E G E
UniRef90_Q9VSL8 A D L L A A A R D V S K S L T D M L E H V K
UniRef90_Q9VSL8 A D L L A A A R D V S K S L T D M L E H V K
UniRef90_Q9VSL8 A D L L A A A R D V S K S L T D M L E H V K
UniRef90_E9HPF1 Q A L A E S S K A V S L A T G G V V A T A K H C A E L V E E S
UniRef90_W4XA47 E Q L V E A A K L V A K S V E N V D A S R Q A
UniRef90_W4XA47 E Q L V E A A K L V A K S V E N V D A S R Q A
UniRef90_I2JQH2 S N L E G A S K K V N A A C R K L V A K V N E L I T S K N V M
UniRef90_Q29F18 R R L L S A A K Q L A D A T A K L V E A A R L C S S N P H D T D N
UniRef90_Q29F18 R R L L S A A K Q L A D A T A K L V E A A R L C S S N P H D T D N
UniRef90_Q29F18 R R L L S A A K Q L A D A T A K L V E A A R L C S S N P H D T D N
UniRef90_H9J7M9 S R L L T Q A S R G V A A V T G A L V G A V R A A S A R L N E Q E A L
UniRef90_Q4RZG3 S R R P E A S R R L R R S S W A S T K S G K S Q I E E T D T M
UniRef90_B4LEJ9 R R L L S A A K Q L A D A T A K L V E A A R L C S S N P H D S D N
UniRef90_B4LEJ9 R R L L S A A K Q L A D A T A K L V E A A R L C S S N P H D S D N
UniRef90_B4LEJ9 R R L L S A A K Q L A D A T A K L V E A A R L C S S N P H D S D N
UniRef90_A5ABT0 D R L E T A S K A V G A A C R A L V R Q V Q D I I K E K N H D D S
UniRef90_U6HWY9 S S L E S A A K A V S S V T G E V A G V Q N A S V I K E Q T Q N M
UniRef90_T1K2Z5 K Q L T E A C K E V A R A V E N V L K A C Q
UniRef90_T1K2Z5 K Q L T E A C K E V A R A V E N V L K A C Q
UniRef90_UPI0003C0FE59 E N L E G A A K V V S E A T R A L V R A V K Q I S S
UniRef90_A0A058ZG90 S Q L S Q A A K Q V S N A T A Q L V E A A K S V G K Q D E E P E T F
UniRef90_D3BJM9 Q Q L T Q A S K G V T T A T G T V V A T V K D C S Q L T D E N E E L
UniRef90_D6X0H5 Q N L E L A S K A V T D A C K A L V K Q V K L I S N Q K T D D E V V
UniRef90_J6EZ13 E Q L T E A G K L V A K S A E G C V E A S K A A T S D D Q
UniRef90_UPI0003991961 E Q L I E A G K L V A K S A E G C V E A S K A A T S D D Q
UniRef90_UPI0003991961 E Q L I E A G K L V A K S A E G C V E A S K A A T S D D Q
UniRef90_H3FC49 A A L S V A S K S V N Q A T A Q V V A S
UniRef90_UPI0002C32071 I R L R A A G K A V T D A T E Q L V E A A K G N N T I Q D N D
UniRef90_F4NRQ5 R N L Q I A G N D V K R A T E I L V N A A K S D N T E V
UniRef90_T2M2W2 E Q L I D A A R E V S H S V D G C L E S T R V A
UniRef90_H2ZQQ3 E Q L I D A A R E V S H S V D G C L E S T R V A
UniRef90_H2ZQQ3 E Q L I D A A R E V S H S V D G C L E S T R V A
UniRef90_UPI0002657602 K K L L H A A V V L T D A T S R M I E A A K G C A
UniRef90_UPI0002657602 K K L L H A A V V L T D A T S R M I E A A K G C A
UniRef90_W8AIK1 R R L L S A A K Q L A D A T A K L V E A A R L C S G N P Q N T E N
UniRef90_W8AIK1 R R L L S A A K Q L A D A T A K L V E A A R L C S G N P Q N T E N
UniRef90_W8AIK1 R R L L S A A K Q L A D A T A K L V E A A R L C S G N P Q N T E N
UniRef90_T1EGA6 H R L Q N A G H A V K K A T E I L V M E A Q K M K N E A E D E E S V
UniRef90_C6KIH6 E A L S
UniRef90_F2PVE5 D R L E T A S K A V G S A C R S L V R Q V Q D I I A E K N R N E T

UniRef90_L9L5G2
UniRef90_T1GWL7
UniRef90_U1HZL9
UniRef90_UPI0003343CE6
UniRef90_AOA024J7Z6
UniRef90_UPI0001FE2584
UniRef90_UPI0001FE2584
UniRef90_UPI0001FE2584
UniRef90_UPI0002247337
UniRef90_UPI0002247337
UniRef90_G7E5X4
UniRef90_D3BT39
UniRef90_B6IM09
UniRef90_H2KRL8
UniRef90_K7H707
UniRef90_UPI0003AF2BFE
UniRef90_U1N146
UniRef90_G4VEQ7
UniRef90_G6DRH8
UniRef90_UPI00044418B3
UniRef90_G5EGK1
UniRef90_E4YM19
UniRef90_E4YM19
UniRef90_K2H888
UniRef90_R7UFW6
UniRef90_R7UFW6
UniRef90_E4XC80
UniRef90_E4XC80
UniRef90_E4XC80
UniRef90_POCE95
UniRef90_F0ZCG3
UniRef90_Q4SM32
UniRef90_AOA044SUT2
UniRef90_H2APE3
UniRef90_K1QL59
UniRef90_J7S875
UniRef90_F2U141
UniRef90_D3BME3
UniRef90_J9JL63
UniRef90_P33338
UniRef90_L8HEA2
UniRef90_UPI000441B805
UniRef90_G0V5A8
UniRef90_AOA058Z6M8
UniRef90_M7BMZ0
UniRef90_Q6FP04
UniRef90_G0WD51
UniRef90_Q4GZM1
UniRef90_UPI0002B455F9
UniRef90_G7YH51
UniRef90_G4VC82
UniRef90_V5I8M8
UniRef90_U6IG82
UniRef90_E9C3R4
UniRef90_F2U371
UniRef90_U6FWM0
UniRef90_G3HN02
UniRef90_U3IP20
UniRef90_Q5BZQ0
UniRef90_A9UTH2
UniRef90_I1ET07
UniRef90_V8PGI4
UniRef90_E5SV11
UniRef90_F2U5D5
UniRef90_F1A4F9
UniRef90_H2ZQ06
UniRef90_A9UUA5
UniRef90_F4QFU9
UniRef90_K2HZW6
UniRef90_L8H5G7
UniRef90_F6XVA8
UniRef90_K2G9Y4
UniRef90_UPI0001D546A3
UniRef90_BOETT5
UniRef90_F2UQQ4
UniRef90_UPI0002C3FC07
UniRef90_A9V9C6
UniRef90_B0WLZ6
UniRef90_K1PI02
UniRef90_E9CJ64
UniRef90_Q5C822
UniRef90_UPI000328F119
UniRef90_AOA023EXJ4
UniRef90_AOA023EXJ4
UniRef90_AOA023EVD0
UniRef90_M9NDM3
UniRef90_G0MNX4
UniRef90_C3ZGA0
UniRef90_G7YEG2
UniRef90_K1Q2B5
UniRef90_UPI0001A638E9
UniRef90_UPI0001A638E9

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

UniRef90_L9L5G2 A D E S L N F E E Q I L L E A A K S I A A A T S A L V K A A S A A Q R E L V A Q G G
UniRef90_T1GWL7 K I E N M N F D T L I L L T A A H S I M T A S A A L V R A A N A S A Q R E L I D Q G G
UniRef90_U1HZL9 S T Y E L Q I H D S I L L E A A V A V T N A L A Q L I K A A T A S Q Q E L V K E G
UniRef90_UPI0003343CE6 A T S A A L E T A T A R I E
UniRef90_A0A024J7Z6 Q E Q L I E S A K Q V T N S V D S L V G S A D S A C C K D E A A K A Q Q
UniRef90_UPI0001FE2584 Q E Q L I E S A K Q V T N S V D S L V G S A D S A C C K D E A A K A Q Q
UniRef90_UPI0001FE2584 Q E Q L I E S A K Q V T N S V D S L V G S A D S A C C K D E A A K A Q Q
UniRef90_UPI0002247337 D R L L D A A R K L C L A F S D L L K A T E P G T K E P R Q H L
UniRef90_UPI0002247337 D R L L D A A R K L C L A F S D L L K A T E P G T K E P R Q H L
UniRef90_G7E5X4 S A S E I K V H D D I L L A A L A I T A A I A E L I R R A T T A S Q K E L V A Q G G
UniRef90_D3BT39 D G D A P D V A E A I L E A A M A I T N A T S S L V R A A T L A Q R E R V E K G G
UniRef90_B6IM09 E I V E A E F D E N I I A S A K G I T N A V H I L V R A A T S A Q R E L A M Q G G
UniRef90_H2KRL8 P G T P L R V H Q L I L D R C S A L I A A I R D L V L K S K M A Q Q S I N E D T T
UniRef90_K7H707 A K E E I E F D E N I L S A A K S I T S A C Q T L M R A A S N A Q R E L A Q Q G G
UniRef90_UPI0003AF2BFE S G V K L E V N E R I L L N S C T D L M K A I R L V T T S T S L Q Q K E I A V E S G G
UniRef90_U1NL46 D D T L T F D E Q I L L A A K S I A S A V Q T L V K A A S A A Q R E L V A Q G
UniRef90_G4VEQ7 N N E N L Q V N S L I L L D C C S E L L L C V S D L V K Q S K L I Q Q E F D D
UniRef90_G6DRH8 T G V K L E V N G K I L L D A C T T L M A A V K V L V Q D S R K L Q N E L G D
UniRef90_UPI00044418B3
UniRef90_G5EGK1 E L V E T E F D N I I I S A K G I L H A V H T L M R S S A S N A Q R E L A M Q G G
UniRef90_E4YM19 A A L S L P D N E K I L L G A A N D L L D A V S K L L K S S Q E T D E D L S A K K K
UniRef90_E4YM19 A A L S L P D N E K I L L G A A N D L L D A V S K L L K S S Q E T D E D L S A K K K
UniRef90_K2H888 S A E M D V N Q A I M E S A Q A I A K A T A A L N A A A Q L A Q K E R V A L L G
UniRef90_R7UFW6 D K L L D A A R R L A G A F S D L L K A A Q P G S Q E P R Q N L
UniRef90_R7UFW6 D K L L D A A R R L A G A F S D L L K A A Q P G S Q E P R Q N L
UniRef90_E4XC80 A A L A L P D N E K I L L G A A N D L L D A V S K L L K S S Q E T D E D L S A K K K
UniRef90_E4XC80 A A L A L P D N E K I L L G A A N D L L D A V S K L L K S S Q E T D E D L S A K K K
UniRef90_E4XC80 A A L A L P D N E K I L L G A A N D L L D A V S K L L K S S Q E T D E D L S A K K K
UniRef90_POCE95 G K L D A E A I V D A S S A I T A K A V A K L V N S A A V A Q S K R R E D Q G
UniRef90_F0ZCG3 G V D E A G I D E A I L E A A R A I T S A T G L V Q C A T A V Q H E L V M A G
UniRef90_Q4SM32 A D E T L D F E E Q I L L E A A K S I A A E L S A L V K S A S A A Q R E L V A Q G G
UniRef90_A0A044SUT2 D D S L T F D E Q I L L A A K S I A T A V Q T L V K A A S A A Q R E L V A Q G G
UniRef90_H2APE3 V N V D V N V P K P L L L S I A I D A V V A L V K A A I E C Q N E I A Q T E
UniRef90_K1QL59 A D M S L N F E E Q I L L E A A K S I A S A T A A L V K S A S A A Q R E L V A Q G G
UniRef90_J7S875 D G E D L P F E E Q I L L G A A K S I A T A T S S L V R A A I E C Q N E I S E T T
UniRef90_F2U141 A G S P M D S S D I V D A S G S I A Q A V A K L V Q N A A V S Q S R R R E E Q
UniRef90_D3BME3 Y E F K V D E T I L E A V K S I A A A T C A L V K T A S L A Q H E I V D E G
UniRef90_P33338 R V D V P K P L L S L A L M I D A V V A L V K A A I Q C Q N E I A T T T
UniRef90_L8HEA2 E T E H L E I S D A L M D G A Q A L A R A S A L M R A A A L A Q E E R V K N T
UniRef90_UPI000441B805
UniRef90_G0V5A8 A N E D L P F E E Q I V E A A K A I A M A T S A L V R S A T H T Q R E I V A N D
UniRef90_A0A058Z6M8 S G V K L E V N E R E S A D R V V L H M G
UniRef90_M7BMZ0 C Q N E I A T T T
UniRef90_Q6FP04 A D I D V N V P K P L L L S L A L A I I D S V L G L I Q A A I A C Q N E I
UniRef90_G0WD51
UniRef90_Q4GZM1
UniRef90_UPI0002B455F9 I G F E L N F E D R I L E A A K E V I S A S A N L L K A A S L Q Q K E L L E T G
UniRef90_G7YH51 I S T E L D V P N A I I S S C Q H L V H T T L S L M Y W A A A Q R E L V Q Q G G
UniRef90_G4VC82 E D I D L E S S D A L I A C R N L V H A T T L S L M Y W A A A A Q R E L V Q Q G G
UniRef90_V5I8M8 Q D L D M N F D E M I L E A A K S I T A A T S A L I K A A S A A Q R E L I D S G G
UniRef90_U6IG82 S G A T L E G M D A I L A T C K R L A H A T A S L M H W A T A A Q R E L V K Q G G
UniRef90_E9C3R4 V A S D S Q L Q G A V I D A I F P I V I T S V S S L V E S A R S R V N E L A L L G
UniRef90_F2U371 E K E T L K V N E K I L D Q S V Q L T A L I K Q L V A T S S V L Q Q E I V S D E
UniRef90_U6FWM0 E N D G L Q G L D A I L A T C K R L A Q G T A N L M H W A T A A Q R E L V K Q G G
UniRef90_G3HN02 A D E S L N F E E Q I L L E A A K S I A A A T S A L V K A A S A A Q R E L V A Q G G
UniRef90_U3IP20 A D E S L D F E E Q I L L E A A K S I A A A T S A L V K A A S A A Q R E L V A Q G
UniRef90_Q5BZQ0 D E S A P V E E Q V L H G T Q A I T A A T A T L V K A A T A A Q Q E L G N G G
UniRef90_A9UTH2 A D A N L S F D A Q I L E A A K S I A A A T K A L V Q S A R A T Q R E L T E O G G
UniRef90_I1ET07 A D E T L D F E E Q I L L E A A K S I A A A T S A L V K S A S A A Q R E L V A Q G
UniRef90_V8PGI4 A N E S L N F D E Q I L L E
UniRef90_E5SV11 K G R R L E V N T N I L G L A T K L M D V M E G L I S A A D A M R D A L E N T
UniRef90_F2U5D5 E G D A P D V V E A I L E A A M V I T S A S S T L V G A A T L A Q R E R V E K G
UniRef90_F1A4F9 D E S L N F E E Q I L L E A A K S I A T A T T A L V K A A S A A Q K E L V L Q G
UniRef90_H2ZQQ6 S G R R L E V N T N L D F A E K M A N K L R E L M V T A K T V R K V L E A T
UniRef90_A9UUA5 A G V P L D V A G I V D A S S S I A V A V A K L V Q M A A V S Q G K R R Q E Q
UniRef90_F4QFU9 V L D Q T D I S V A I L E E A Q T L I N F T S D L I S N A T V A Q K N I T K E
UniRef90_K2HZW6 A T A A I D V S D S V F D T T Q G L H S A A Q R G E S R S V G
UniRef90_L8H5G7
UniRef90_F6XVA8
UniRef90_K2G9Y4 T N G N E T L K R F G D S T Q G L I E F I Q I A G E C E K E R I R E G
UniRef90_UPI0001D546A3 A D E S L N F E E Q I L L E A A K S I A A A T S A L V K A A S A A Q R E L V A Q G
UniRef90_BOETT5 A N E N E T I K R F G D S T Q G L M E F I Q I A G E C E K E R I R E G
UniRef90_F2UQQ4 E Q L Q S R N E A I V K S A V I L E S V S S L I N T I T T L K K Q V R E T T
UniRef90_UPI0002C3FC07 V D I S R E V S K Q I L K D S A K A L T N K I S N L I R V A G D C K E D R L R S G
UniRef90_A9V9C6 A L V E S N V D E A I L Q G A E V T K A A Q S M L V T A A K C Q S F I S D M E
UniRef90_B0WLZ6 T D E N L N F D E M I L E A A K G I M A A S S A L V R A A N A A Q R E L V D Q G
UniRef90_K1PI02 T T E D Q G L Q N K V I S S A T S C A L A T S Q L V A C T K L I D W A T V C T L
UniRef90_E9CJ64 K A F E A K V T F E L L G G A G E L G T C V T Q L I S A I E A Q R A I G
UniRef90_Q5C822 V D L D L E S S D A V I A C R N L I H A T L S L M Y W A A A A Q R E L V Q Q G
UniRef90_UPI000328F119
UniRef90_A0A023EXJ4 S M E S R E L H D M L L G L A K A V A N T T A A L V L K A K S I A A V T
UniRef90_A0A023EXJ4 S M E S R E L H D M L L G L A K A V A N T T A A L V L K A K S I A A V T
UniRef90_A0A023EVD0 D K L L E A T R K L C S A F S D L L K S A E P E S K E I P R A S G
UniRef90_M9NDM3 D Q L L E A A R N L C S A F S D L L K A A E P E S K E P E A T T
UniRef90_G0MNX4
UniRef90_C3ZGA0
UniRef90_G7YEG2 K A I I D A A S R V G E A S N D L L R H V M H E G D G E
UniRef90_K1Q2B5
UniRef90_UPI0001A638E9 L K R V A V L R R E S G A L K
UniRef90_UPI0001A638E9 L K R V A V L R R E S G A L K

UniRef90_L9L5G2 K[V]G A [] P A N 90 A L D D G Q W S Q G L I S A A R M V A A A T N N L C E A A N A
UniRef90_T1GWL7 K[V]E R K P T L S S S H D D G Q W S E G L I S A A R F V A S A T H S L V E E A A Q K
UniRef90_U1H1ZL9 R G T S S R T A F Y K K N S R W T E E G L I S A A K A V A S S T A T N T L I E E T A A D G
UniRef90_UPI0003343CE6 G T A S P K E F Y A K K N S R W T E E G L I S A A S A K A V A S W G A T N T V M V I E T A A D L
UniRef90_A0A024J7Z6 K G A S S R T A F Y K K H N R W T E E G L I S A A K A S V A A S T N V L I E T A A D G
UniRef90_UPI0001FE2584 E E L K Q N A A A T V S E A V Q R L Q Q Q G G R A K P Q N D F D E A C T I L A S T E K
UniRef90_UPI0001FE2584 E E L K Q N A A A T V S E A V Q R L Q Q Q G G R A K P Q N D F D E A C T I L A S T E K
UniRef90_UPI0002247337 L N A A S R G E D D D G S N R E L Q Q D M L L S L A K A V A N T T A A L V L K A K N
UniRef90_UPI0002247337 L N A A S R G E D D D G S N R E L Q Q D M L L S L A K A V A N T T A A L V L K A K N
UniRef90_G7E5X4 R G S S S A Q A F Y K A N S R W T E E G L I S A A R A V A D S T T L L I R T S D G
UniRef90_D3BT39 R A G H D P L Y K K D P T W A E E G L I S A A R A V A A S T R A L V D T A N K
UniRef90_B6IM09 R T E T R P S G S G T Y Q W S E E G L I S A A R V V A S V H K L C D A A N T
UniRef90_H2KRL8 V N S Q N Y K R H G R W T Q G I L S A A K S V G A C A N V L V E V S D Q
UniRef90_K7H707 R A D H N R G G V P D Y Q W S E G L I S A A R V V V A A V H Q L C E A A N A
UniRef90_UPI0003AF2BFE R G P A S A P P A S A P P A S A P P A S A P P A S A P P A S A P P A S A P P A S A P
UniRef90_U1N1L46 R L E A R P A F A T D D Y Q W S E G L I S A A R L V A A A V H Q L C E A A N A
UniRef90_G4VEQ7 S P T S V E F Y K P Y N R W T E G L I S A A K A V F G A S A N V M V E S I A D S
UniRef90_B6DRH8 P K T R Q N M Y R R N P Q W S E G L I S A A S A K A V V F A A K L V S S A D E
UniRef90_UPI00044418B3 T A S P K E F Y A K N S R W T E E G L I S A A S A K A V G W G A T V M V I E T A A D L
UniRef90_G5EGK1 R S A A G G T G T Y Q W S E G L I S A A R A V V A S V H K L C D A A N T
UniRef90_E4YM19 R S I Q S A A A G S D D N G Q R L V E L A S K V P F A T Q E L V K N V Q E
UniRef90_E4YM19 R S I Q S A A A G S D D N G Q R L V E L A S K V P F A T Q E L V K N V Q E
UniRef90_K2H888 K K L A T P T K P Y A P N Q V W S E G L V T A G K A V A E A T K E I V L V A N N
UniRef90_R7UFW6 L N A A S K E D E T E A D S A F Q D T L M A L A K A V A N T T A A L V L K A K G
UniRef90_R7UFW6 L N A A S K E D E T E A D S A F Q D T L M A L A K A V A N T T A A L V L K A K G
UniRef90_E4XC80 R S I Q S A A A G S D D N G Q R L V E L A S K V P F A T Q E L V K N V Q E
UniRef90_E4XC80 R S I Q S A A A G S D D N G Q R L V E L A S K V P F A T Q E L V K N V Q E
UniRef90_E4XC80 R S I Q S A A A G S D D N G Q R L V E L A S K V P F A T Q E L V K N V Q E
UniRef90_POCE95 I A S G S V Y K A D P T W S N G L I S A A K G V G A A T H R L V E A A M K
UniRef90_F0ZCG3 K V G N K T G N V Y R R D P T W A R G L I S A A Q S V A G S V Q G L V V S A N N
UniRef90_Q4SM32 K V G S S L A N A E D D G Q W S Q G L I S A
UniRef90_A0A044SUT2 R L E S H P A F A T D D Y Q W S E G L I S A S R L V A A A V H Q L C E A A N A
UniRef90_H2APE3 R T P I T E F Y K K N S R W T E G L V S A A K A V A T A T N L L I S T A G N
UniRef90_K1QL59 K N V S L T Q F Y K K N S R W T E G L I S A A R A V G S A T N L L I S T A S N
UniRef90_J7S875 P F S G D Y Y S E E A Q W S A S M V S A A K L V A F A T Q N L C E A A N A
UniRef90_F2U141 K S Q G T Y Y K Q D P T W S N G L I S A A K S V G G A V Q M M I Q A A M K
UniRef90_D3BME3 S I P L N Q F Y L K N S R W T E G L I S A A K A V A G A T N V L I T T A S K
UniRef90_J9JL63 H R S A S D G S P Y H A D P V W A N G L I S A A R N V V A T T Q Y L V S T S N A
UniRef90_P33338 R S A S D G S P Y H A D P V W A N G L I S A A R N V V A T T Q Y L V S T S N A
UniRef90_L8HEA2 H R S A S D G S P Y H A D P V W A N G L I S A A R N V V A T T Q Y L V S T S N A
UniRef90_UPI000441B805 K T P L S Q F Y K A K N S R W T E G L I S A A K A V G W G A T Q L V E S A D K
UniRef90_G0V5A8 R Q T S V R G T P Y H S D G T W S D G L V S A A K A V A S A T G E L C E A A N D
UniRef90_A0A058Z6M8 R Q T S V R G T P Y H S D G T W S D G L V S A A K A V A S A T G E L C E A A N D
UniRef90_M7BMZ0 K N T P L S Q F Y K K N S R W T E G L I S A A K A V A S S T N T L I E T A D G
UniRef90_Q6FP04 S N S T T Q N Q F Y K K N S R W T E G L I S A A K A V A S S T N T L I E T A D G
UniRef90_G0WD51 S N S T T Q N Q F Y K K N S R W T E G L I S A A K A V A S S T N T L I E T A D G
UniRef90_Q4GZM1 R G M Q S E D E F N M K H S S W F Q G L T T A V D A M V E H N P V L T E S L R S
UniRef90_UPI0002B455F9 R M K P V P S G S T E S D S Q W A Q G L I S A A R F V A M A A N C V V E S A Q A
UniRef90_G7YH51 R L K P I D K P Q N P D E S Q W A Q G L I S A A R Y V A V G A N H L V E S A Q A
UniRef90_G4VC82 K M S R T P I S S S D D G Q W S E G L I S A A R V A A T H S L V E S A N A
UniRef90_V5I8M8 R L K P V S V N V T E S Q W T C G L V S A A R Y V S A A T V H L V E S A E A
UniRef90_U6IG82 R H F H S A N F S N R D R S F T D V L V S T A R E L S T S I T A L V S A A D L
UniRef90_E9C3R4 R H F H S A N F S N R D R S F T D V L V S T A R E L S T S I T A L V S A A D L
UniRef90_F2U371 R L K P V S E N V S E A E S Q W T C G L V S A A R Y V S A A T V H L V E A V I E T
UniRef90_U6FWM0 K V S T H P Q Q D E D K V I S A A
UniRef90_G3HN02 K V G A I P A N A V D D G Q W S Q G L I S A A R M V A A A T N N L C E A A N
UniRef90_U3IP20 K D S S T S I E F Y K P Y N R W T D G L L S A A K F V G A G A N V M V E I A N S
UniRef90_Q5BZQ0 G D E N S T A A D L V A A A K L V A H A T Q E L C C D G A N A
UniRef90_A9UTH2 K V S L G T V P A D S Q W S D G L V S A A K L V A E S T S Q L C E A A N D
UniRef90_11ET07 K V G A I P A N A A D D G Q W S Q G L V S A E K K D L J A P A T
UniRef90_V8PGI4 K V G A I P A N A A D D G Q W S Q G L V S A E K K D L J A P A T
UniRef90_E5SV11 R G M Q S E D E F N M K H S S W F Q G L T T A V D A M V E H N P V L T E S L R S
UniRef90_F2U5D5 R T S N G G P M Y R K Y P T W A E G V I S A A
UniRef90_F1A4F9 K V G S T I A A M R H D D G Q W S Q G L I S A A Q M
UniRef90_H2ZQQ6 R G L S S T D E F N A K H D G Q S W F E A L T N A V E A M F D G L P L L S E A L R S
UniRef90_A9UUA5 Q R L G S H Y K Q D P T W S N G L I S A A K S V G G A V Q M M I N A A I K
UniRef90_F4QFU9 E T A K E K K D V Y N R D A N W E E G L I S A A K T V T G C I Q Y L V K A A D Q
UniRef90_K2HZW6 A R L H G S D T A Y H A D P K W A E G L I S A A R F V V A S I G H L V S T S K Q
UniRef90_L8H5G7 K E K N K Q T Y S N N E V W S E G L L S A A K K I V E W A Q Y I S S A
UniRef90_F6XVA8 K V S A A G N A V K R A S D N L V K A A K A A F E E Q Y E N E T
UniRef90_K2G9Y4 K E K N I Q T Y S N N E V W S E G L L S A A K K I V E W A Q Y I S S A
UniRef90_UPI0001D546A3 D G T I S T L R A H R W F G A L E A V V S A V L D T L P V W L E C L R Q
UniRef90_BOETT5 K T K G S N L Y D N E V W E E G L L S C A K K I V E W A K A I S E E T N
UniRef90_UPI0002C3FC07 G P A E A K R A F Y R K T Y R R D K G I V L Q A Q Q V A E A I A W L C D A C S T
UniRef90_A9V9C6 K V A R R P L T S S D D G Q W S E G L I N F R C P S G R Q P L L S E A A Q H
UniRef90_B0WLZ6 A T D Q L E A C C K V V A P T I S E Q L I D A A K G V A H S V E G I V E A A D R
UniRef90_K1PI02 P C A M S Q P Y F A V G V W S E G L V S A A R E V A E Y T S M L R A A E G
UniRef90_E9CJ64 R L K P I Q T S D I E T E S Q W A Q G L I S A A R Y V A V G A N H L V E S A Q A
UniRef90_Q5C822 R L K P I Q T S D I E T E S Q W A Q G L I S A A R Y V A V G A N H L V E S A Q A
UniRef90_UPI000328F119 E D E A T R N R V I A A A S Q C A L A T S Q L V A C A R V
UniRef90_A0A023EXJ4 E D E A T R N R V I A A A S Q C A L A T S Q L V A C A R V
UniRef90_A0A023EXJ4 Q V L S S M G E E S M E S R E L H D M L L G L A K A V A N T T A A L V L K A K A
UniRef90_A0A023EVD0 H V L S T I A E E E V P E N R L H D M L L G L A K A V A N T T A A L V L R A K N
UniRef90_M9NDM3 Q V I N S M D P P S A H Q Q Q F D D Y L V Q R A K N V A T S T A Q L V L C A K
UniRef90_GOMNX4 R E V L H E M G E V D T D P R F Q D A L M A L A K A V A N A T A T L V L K A K N
UniRef90_C3ZGA0 D F E A S L M L T E E E R L Y K D Q L L S L A K A V A N T T A S L V V K A K N
UniRef90_G7YEG2 D F E A S L M L T E E E R L Y K D Q L L S L A K A V A N T T A S L V V K A K N
UniRef90_K1Q2B5 A D Q T G Q P I I A E K T E E S T Q N L L S A A R H V A D A F T D L Q S A R P
UniRef90_UPI0001A638E9 A D Q T G Q P I I A E K T E E S T Q N L L S A A R H V A D A F T D L Q S A R P
UniRef90_UPI0001A638E9 A D Q T G Q P I I A E K T E E S T Q N L L S A A R H V A D A F T D L Q S A R P

UniRef90_L9L5G2
UniRef90_T1GWL7
UniRef90_U1HZL9
UniRef90_UPI0003343CE6
UniRef90_A0A024J7Z6
UniRef90_UPI0001FE2584
UniRef90_UPI0001FE2584
UniRef90_UPI0001FE2584
UniRef90_UPI0002247337
UniRef90_UPI0002247337
UniRef90_G7E5X4
UniRef90_D3BT39
UniRef90_B6IM09
UniRef90_H2KRL8
UniRef90_K7H707
UniRef90_UPI0003AF2BFE
UniRef90_U1NL46
UniRef90_G4VEQ7
UniRef90_G6DRH8
UniRef90_UPI0004418B3
UniRef90_G5EGK1
UniRef90_E4YM19
UniRef90_E4YM19
UniRef90_K2H888
UniRef90_R7UFW6
UniRef90_R7UFW6
UniRef90_E4XC80
UniRef90_E4XC80
UniRef90_E4XC80
UniRef90_POCE95
UniRef90_F0ZCG3
UniRef90_Q4SM32
UniRef90_A0A044SUT2
UniRef90_H2APE3
UniRef90_K1QL59
UniRef90_J7S875
UniRef90_F2U141
UniRef90_D3BME3
UniRef90_J9JL63
UniRef90_P33338
UniRef90_L8HEA2
UniRef90_UPI000441B805
UniRef90_G0V5A8
UniRef90_A0A058Z6M8
UniRef90_M7BMZ0
UniRef90_Q6FP04
UniRef90_G0WD51
UniRef90_Q4GZM1
UniRef90_UPI0002B455F9
UniRef90_G7YH51
UniRef90_G4VC82
UniRef90_V5I8M8
UniRef90_U6IG82
UniRef90_E9C3R4
UniRef90_F2U371
UniRef90_U6FWM0
UniRef90_G3HN02
UniRef90_U3IP20
UniRef90_Q5BZQ0
UniRef90_A9UTH2
UniRef90_I1ET07
UniRef90_V8PGI4
UniRef90_E5SV11
UniRef90_F2U5D5
UniRef90_F1A4F9
UniRef90_H2ZQU6
UniRef90_A9UUQ5
UniRef90_F4QFU9
UniRef90_K2HZW6
UniRef90_L8H5G7
UniRef90_F6XVA8
UniRef90_K2G9Y4
UniRef90_UPI0001D546A3
UniRef90_BOETT5
UniRef90_F2UQQ4
UniRef90_UPI0002C3FC07
UniRef90_A9V9C6
UniRef90_B0WLZ6
UniRef90_K1PI02
UniRef90_E9CJ64
UniRef90_Q5C822
UniRef90_UPI000328F119
UniRef90_A0A023EXJ4
UniRef90_A0A023EXJ4
UniRef90_A0A023EVD0
UniRef90_M9NDM3
UniRef90_GOMNX4
UniRef90_C3ZGA0
UniRef90_G7YEG2
UniRef90_K1Q2B5
UniRef90_UPI0001A638E9
UniRef90_UPI0001A638E9

UniRef90_L9L5G2 K R R L Q G A G N A V K R A S D N L V K A A K A A A F E E Q E N E T V

UniRef90_T1GWL7 R R L Q M A G N A V T K A T D N L V K A A Q Q A L D A E E E H

UniRef90_U1HZL9

UniRef90_UPI0003343CE6 A Q L Q Q A S R G V N Q A T A A V V A S T I S G K S Q I E E T D N M

UniRef90_A0A024J7Z6 D R L E G A S K A V T S A C R S L V N Q V Q S K K Q Q K E E N D V

UniRef90_UPI0001FE2584 R K L L A A A K E L A E C T A R M I A A A K E A A Q N P N D

UniRef90_UPI0001FE2584 R K L L A A A K E L A E C T A R M I A A A K E A A Q N P N D

UniRef90_UPI0001FE2584 R K L L A A A K E L A E C T A R M I A A A K E A A Q N P N D

UniRef90_UPI0002247337 T Q L M N A V R E V T K A I E N L V K

UniRef90_UPI0002247337 T Q L M N A V R E V T K A I E N L V K

UniRef90_G7E5X4 L A L E Q A A R A V T D A C K A L V R Q V R A

UniRef90_D3BT39 H K L S N C A K S V Q N A T N L V A A A K A V A Q M V G E D D

UniRef90_B6IM09 R R L Q A A G Q A V R V S T K N V N A A V Q S A Q Q G I A R D D

UniRef90_H2KRL8 S E L Q T A V R L V S Q T T G D L V G S V K S A I E T H E

UniRef90_K7H707 R R L Q A A G Q A V K N A A E K L V Q S A R Q V I S R D D

UniRef90_UPI0003AF2BFE T A G R R C P R R D Q P A A P T A A P R S G P K K

UniRef90_U1NL46 Q R L Q S A G H A V K T A T E H L V L A A R S A I H E D E

UniRef90_G4VEQ7 N K L Q L T S K E V C K C T G N L I A C V K K A I E H I E E L D

UniRef90_G6DRH8

UniRef90_UPI00044418B3 A R L Q Q A S R G V N Q A T A T V V A S T T A S K S Q I E E T D N M

UniRef90_G5EGK1 R R L Q A A G Q A V R N A A E R N L V Q S A Q Q E M I A R D D R N

UniRef90_E4YM19 K Q L T D A M K D V S I A I N N L V

UniRef90_E4YM19 K Q L T D A M K D V S I A I N N L V

UniRef90_K2H888 G K V E N A S K S V K E A T E L L V K A V N A I S G L K E E K D E

UniRef90_R7UFW6 E Q L V I E A A K H V A K N V D S V A D T A Q

UniRef90_R7UFW6 E Q L V I E A A K H V A K N V D S V A D T A Q

UniRef90_E4XC80 K Q L T D A M K D V S I A I N N L V

UniRef90_E4XC80 K Q L T D A M K D V S I A I N N L V

UniRef90_E4XC80 K Q L T D A M K D V S I A I N N L V

UniRef90_POCE95 S H L S T A A R Q V A S A T S D L V A A A K A A

UniRef90_F0ZCG3 S Q L A Q A A K S V S N A T T H L V E A A K S V N S K D E D N E P V

UniRef90_Q4SM32 R R L Q A A G N A V K R A S D N L V R A A Q K A A F E K N E D D S V

UniRef90_A0A044SUT2 Q R L Q S A G H A V K T A T E H L V M A A R S A I H E D E

UniRef90_H2APE3 D Q L E G C S K V V G D A C K S L V S H V M S G N A K E E Q P

UniRef90_K1QL59 K R L Q A A G N A V K R A T E V L V K A A Q Q A K Q R D E D E D

UniRef90_J7S875 S G L E E C S K A V T T A C R M L V A H V M E G A N D A A P S D E

UniRef90_F2U141 K R L L A A G S A V K K A A D H L V E S A K T A L E E A Q E A D

UniRef90_D3BME3 H Q L T L A A K A V T Q A I S K L L D A A K T A

UniRef90_J9JL63 K R L L A A S G N V V K R A T E N V R A A R Q A M K T D E

UniRef90_P33338 D K L E H C S K D V T D A C R S L

UniRef90_L8HEA2 R E L D D A A R G I A R A T A S L V E A A K

UniRef90_UPI000441B805 S K L Q E C S R T V N S E M A A N V V A S T K S G Q E Q V E E K

UniRef90_G0V5A8 E A L E S S K D V N S A C K Q L V S H V M E G V N K N Q D N E

UniRef90_A0A058Z6M8 N R L R G A G A Q V S K A T R A L I E A A E Q

UniRef90_M7BMZ0 V K L Q E C S R N V N S E M A A N V V A S T K S G Q E Q I E D K D T M

UniRef90_Q6FP04 E K L E E C S R N V T E A A C K E L G H T V L K Y N S E A Q D D Q P M

UniRef90_G0WD51 V K L E D C S K D V G N A C K S L V S H V M K G

UniRef90_Q4GZM1 D R L E E A S K A V G K A C R S L V R Q V Q D I A Q K N R D E

UniRef90_UPI0002B455F9 K N L Q T A G A S V S K A T E R L V K T A R E G

UniRef90_G7YH51 Q G L R Q A G A S V R C A T E D L V R L V Q

UniRef90_G4VC82 L G L R N A G G S V K H A A D R L V R I V Q

UniRef90_V5I8M8

UniRef90_U6IG82 S G L N A T A A A V R R H A E R L I E L T E L E K N K Y I Q E D

UniRef90_E9C3R4 Q E V E E S S R G V T R A T T S L I T A A

UniRef90_F2U371 A E L E T C S R Q V H T A T Q E L I E A V R D A

UniRef90_U6FWM0 H G L N A T A S A V R R H A E R L I E

UniRef90_G3HN02 L Q A A G N A V K R A S D N L V K A A K A A A F E D Q E N E T V

UniRef90_U3IP20 K R L Q

UniRef90_Q5BZQ0 N K L Q V T S K E V C K C T G N L I A C V K K A I E H V E E L D

UniRef90_A9UTH2 R R L Q A A G S A V K K A A E N L V R T V Q A A P T D V E D S

UniRef90_I1ET07 K R L Q R A G Q Q V K K A T E A L V K A A Q D S V D S A K E R

UniRef90_V8PGI4

UniRef90_E5SV11 R R L Q A A G N A V K T A T E H L V R A A R Q A I E I E D E R

UniRef90_F2U5D5 A D I N R L S E E F K Q T V H E I L A A V R E C K E

UniRef90_F1A4F9 H K L T N S T N L L V T A A K V A S K E E I D F D E L

UniRef90_H2ZQQ6 K R L Q I A G N A V K H A S E D L V K A A S E S A N S D D E V E V V

UniRef90_A9UUA5 S E L N R L A E E F K S T V H E L L A A V R E C H E

UniRef90_F4QFU9 Q T L M A A A K A V T S A

UniRef90_K2HZW6 D K L A S T I K K I T D S Q S A F V K T V S Q G A D A R S E

UniRef90_L8H5G7 G L E E A V K S I T S A T Q K L V E D A K A A

UniRef90_F6XVA8 R R L Q V A G N A V K R A S D N L V K A A Q K A A A F Q D H D E T V

UniRef90_K2G9Y4 Q R L E K S L C S L M S Q I Q K I I Q N I L S E Q E Q R Q D

UniRef90_UPI0001D546A3

UniRef90_BOETT5 Q R L E

UniRef90_F2UQQ4 H D V R R N S R T L T T A S H E L I D A L R A V N S

UniRef90_UPI0002C3FC07 R I L E N C L S E V I K

UniRef90_A9V9C6 E T L R T Q A T S V K K Y A G A L Q R Q C K Q

UniRef90_B0WLZ6

UniRef90_K1PI02 K R L L A A A R Q L A D A T A N M V E A A K I M N E Q L

UniRef90_E9CJ64 L R L H D A G A A V R H V C D K L S A A Q L Q

UniRef90_Q5C822

UniRef90_UPI000328F119 K R L Q A A G N A V K R A S D N L V K A A K A A A F E D Q E N E T V

UniRef90_A0A023EXJ4 G D L M N A A K D V S K T L A E L L E H I K

UniRef90_A0A023EXJ4 G D L M N A A K D V S K T L A E L L E H I K

UniRef90_A0A023EVD0 E Q L E A A A R E V A K A V A H L V E

UniRef90_M9NDM3 E Q L E A A A K N V A R A V N S L

UniRef90_G0MNX4 Q Q L T T A A T E V S Q S V N L L H D A E S A

UniRef90_C3ZGA0 E Q L I D A A K L V A K S V N K T V D S A Q M A T Q E E

UniRef90_G7YEG2 Q Q L S E A A R E V S W A V D G V V Q A S R A G A R T A D Q

UniRef90_K1Q2B5 K R L L A A A R Q L A D A T A N M V E A A K G C A S S P N D S E

UniRef90_UPI0001A638E9 Q R V I A S V T Q T G L C T S Q L V A C T K

UniRef90_UPI0001A638E9 Q R V I A S V T Q T G L C T S Q L V A C T K

UniRef90_U6JW4
 UniRef90_Q95XN3
 UniRef90_S4RR82
 UniRef90_K7HYS4
 UniRef90_S4REX8
 UniRef90_R0L170
 UniRef90_Q4SM33

```

      1              10             20             30             40
      NE[V]F R T A G H[V]G E T S Q H[L]I N[V]M E A P N E G Q
      Q E K[L]A Q A A Q S S[V]T T[L]T R[L]A E[V]V K[L]G A A S[L]
  
```

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

```

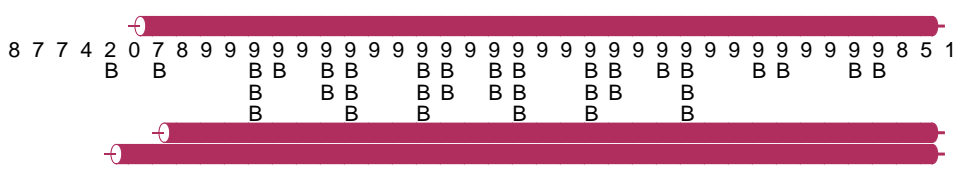
          c c c c c c c c c c c c c c c c c c c c c c
            c c c c c c c c c c c c c c c c c c c
      9 9 9 8 7 4 3 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 8 9 8 5 4 1 1 7 7 7 7
      B         B   B B B   B B   B B   B   B B   B   B   B   B   B B
          B         B         B         B
  
```


UniRef90_U6JW4
 UniRef90_Q95XN3
 UniRef90_S4RR82
 UniRef90_K7HYS4
 UniRef90_S4REX8
 UniRef90_R0L170
 UniRef90_Q4SM33

```

      50          60          70          80
Q      K A I L E A A N R V G E A L R Y V M Q D S E V T D G E I V P E E
      L V Q S A K N V A T S T A Q L V L C A K T I S A E
      L M Q A A R G L A S A V S D L L K T A E P R Q S V L T A A G
      G Y F M E Q N D R L L E A T K R L C G A F G D F L T A V N P E Q N E R R N K V
      A L L Q A A R G L I D C I S D L L K T V Q P S S T E P R Q A V
G S E D P E T Q V V L I N A V K D V A K A L G D L I G A T K A A A G K A G D D S
      K L M G A A R M L A G A V S D L L R A A E P R Q T V L T A A G
  
```

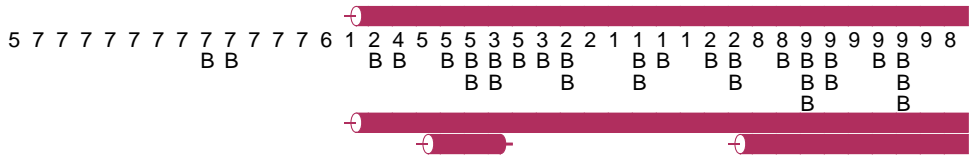
lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



UniRef90_U6JW4
 UniRef90_Q95XN3
 UniRef90_S4RR82
 UniRef90_K7HYS4
 UniRef90_S4REX8
 UniRef90_R0L170
 UniRef90_Q4SM33

90 100 110 120
 D E G V Y Q A D Q L A I F Q D K L L E A K E V A N S T A V L V K A K N
 N V G Q A S G E L L R T D Q S F Q D M L M Q L A K A V A N A A A T L V L K A K N
 F T A A G R V G E Y S Q H Q Q F D D S L V Q K A K H V A T S T A Q L V L C A K
 L T A A S T V G R S S N N Q Q F Q D V L N Q L A K A V A N A A A G L V L K A K T
 A K V G A I P A N A V D D G Q W S Q G L I S A A R M V A A A T N N L C E A A N A
 S I G Q A S G D L L R H D E K F Q E T L M N L A K A V A N A A A M L V L K A K N

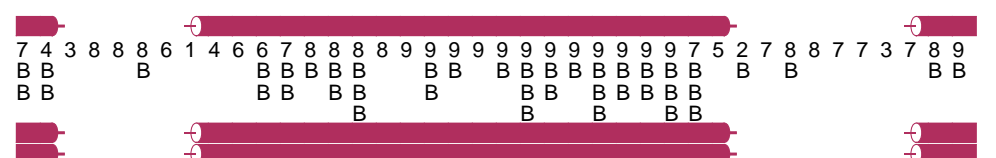
lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



UniRef90_U6JW4
 UniRef90_Q95XN3
 UniRef90_S4RR82
 UniRef90_K7HYS4
 UniRef90_S4REX8
 UniRef90_R0L170
 UniRef90_Q4SM33

130 140 150 160
 L A T Q T N E H Q Q M V V N A T Q T G L C T S Q L V A C T K V L J A P T I H Q C Q
 V I D N N A C Q Q Q L S T A A T E V T Q S V N N L L H D A E H A V Y Q Q S S L
 V A Q D P A Q Q N R V I A A A T Q C A L S T S Q L V A C T K V V G P R S P A C Q
 T I S A E C E E E K V I Q S A T K C A F A T S Q L V A C A R V V V P D N T A C Q
 V A Q D Q A L Q N Q V I A A A T Q C A L S T S Q L V A C T K V V G P T M D S C Q
 V A Q D T V L Q N Q V I A A A T Q C A L S T S Q L V A C T K V V S P T I S S C Q

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



UniRef90_U6JW4
 UniRef90_Q95XN3
 UniRef90_S4RR82
 UniRef90_K7HYS4
 UniRef90_S4REX8
 UniRef90_R0L170
 UniRef90_Q4SM33

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

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

