

1 10 20 30 40
QUERY H M L W A R L V G L A R L E A R A L S K K E R R S L L E R L K P Y Y T R L P F S
UniRef90_J4G8C6 D V S G G Q T N L K S S V Q R R S I R A N L L S Q W K A E L L E S Q I W P
UniRef90_S7RUN1 D I V S G G Q T A V L K S S S V Q R R S I R A G L L S Q Q T D P E T T L E S I W P
UniRef90_S8FXQ3 S D V S G G Q T S L K S S S V Q R R S I R A G G I L L S Q V D P E T F E E Q I W P
UniRef90_C1BSE0 V S G G T Q L K S S S V Q K G I R A K I L D A Y P D I A D D L F L P
UniRef90_Q5CJ1 K F S T E N I S S Q N Q V K S S V Q R R S I K A N I L A P L L E Q V I D D I L P
UniRef90_Q4YSZ1 I S S Q N L M K S S S V Q R R S I K A T I L K Q Y P E N F I D D I F P
UniRef90_C1N6U8 D N V S A L Q Q I K S S A V Q R G I R T S I A E Q F E E D V L D E L I P
UniRef90_D0FH72 V T G V T Q L K S S A V Q R G I R A K I L D E Q Y G E E D Y L N Q I V P
UniRef90_E9H666 K E N I S G F Q Q L K T S V Q K G I R S K I L L E Q Y P E N C I L N D V L P
UniRef90_H2U348 I S S Q N Q V K A S V K G S D R R K L R A D I A A A F P S L L V P
UniRef90_Q8L7N2 K E N V S N C I Q L K T S V I K G I K N Q L I E Q I E P W L N Q I L V P
UniRef90_UPI0001CE080F K E N V S N Q I Q L K T S V I K G I K N Q L I E Q I E P W L N Q I L V P
UniRef90_M5EKS2 D I V S G G Q V P I K S S V Q R G I R A K I L L E Q Y A T T L G A D I W P
UniRef90_M2X3B4 K E N V S G I N N V K S S S V Q K A I R A K I L L E Q F P E T V F I E D I L S
UniRef90_T1G3U7 V S G G T T Q L K S S S V Q K G I R A K I L L E Q F P E T Y L E D I L P
UniRef90_T1K7Y9 D I S G G T P V K S S S V Q R R S I R A K I L L E Q F P E E S I D E I L P
UniRef90_R7S064 V D G V Q T Q L K S S V Q R G I R A K I S D Q Y P E N A L N D V L P
UniRef90_A4SAZ7 S D I S G G Q T P V K S S S V Q R A I R T S V L S Q V E P E T L E A I W P
UniRef90_V2YYY9 V K E D L S S N T Q L K S S S Q R T I R L K L S T Q M P T T Y P N L C
UniRef90_F4S7P4 K D S V I G I T Q L K S S V Q K G I R T K I L D Q Y P E E Y L D M I L P
UniRef90_C4WUE2 V D E N I A S H S Q I K S S S Q V Q R A I R S S I L E Q Y P E I Y M E Q L P
UniRef90_F0WC00 K D S V S G V Q Q L K S S S V Q K G I R A K I L L E H L E S H I D V I P
UniRef90_F4WHK4 A Q I A N I S N K E T V I K G S D R R K L R A D V S T A F P S L L V P
UniRef90_W5U751 G S R S K V K S S V Q R G L R S K I L E T F E P Y I D E I M P
UniRef90_G0V107 K F S N E E V K D K S K I K S S Q Q R A I R Q A I Q D Q Y P S L D M P
UniRef90_B6QRZ1 D V T G N E N Q A K S S V V R G I R S K V I E Q Y P E Q H I D D I L P
UniRef90_L1JJA7 V S G G T T Q L K S S S V Q R R S I R A K I L L E Q F P E E S I D E I L P
UniRef90_I1GCR8 K F T K E D I H S R S K V K S S V Q R T L K A K L R T S Q Y P E D V I D E I L P
UniRef90_G3WZU7 V T G V N N A K S S V V K G V R N S L L E S Y P A T Y L D K I G
UniRef90_G0W595 D V S N L S Q V K S S V A R G I R A A V C E T Y Q T D V I E T L P
UniRef90_V4A5G0 K F T S A E I A S N A L M K S S V Q R G I R T T L Q S Q M P A L A A D E I W P
UniRef90_M5BJP3 V S N C I Q L K T S V I K G I K S Q L T E Q F P G L I M P
UniRef90_UPI000333013A V K S N T V I K G S D R R K L K A D L S S A F P A L L V P
UniRef90_W5N343 Q R S V R S K V E Q Y P E Y A E M L M P
UniRef90_H3G9D9 M F K K D I T G A R S K V K S S V Q R S I R A K F L E T F E P Y I D E V L P
UniRef90_G3BFD1 K E D V S H C V Q L K T S V I K G I R S Q L A Q F P G A P W L I L P
UniRef90_F2S755 I S S Q N V A K S S A H R A I R A Q I L K Q Y P E H I V I D D I L P
UniRef90_UPI000443FC9E A Q I A S S S H K E Q K E V R E D L A E Q Y P E E I L P
UniRef90_B9PYL7 K F T K D D V H T Q T N V K S S V Q R A L R T K L V N Q Y P E E S I K I L M P
UniRef90_Q4QH62 E L T L L E F L W P
UniRef90_S9U9B5 G S A T Q L K S S V G R A I Q R K L E D Q M P N I T P L V L F P
UniRef90_I2JY65 V K S N T A I K G S D R R K L R S D V A T T F P A L I V P
UniRef90_E3L000 M F K K D V S G A R S K V K S S V Q R A I K Q K L V E T L A P Y M D E I L P
UniRef90_A9UPW0 A G A K S K V K S S V Q R G I R A K V L E T L E P Y I D E I L P
UniRef90_H9GD20 M F K K D L T G A K S K V K S S V Q R A I R T K V V E T Y P K L A P D E I L P
UniRef90_M0W1F6 K E D V T G T T Q L K N S V Q K G I R Q K L L E Q M E P Y L N D I L P
UniRef90_C1G414 K S S V R R V I R Q K L L E Q M E P E A L L E A A W P
UniRef90_Q9NG60 V G S A T K L K S S V E R G I R R S I S E Q L G E T L E E E I L P
UniRef90_W9XAW0 V S S T N Q I K S S V Q R Q I R A T I L Q Q M P K I Y L Q D I W P
UniRef90_U1GEQ9 T K V K T S V V Q R S L K S K L V E Q F P E E V I D E L L P
UniRef90_H3FVL2 I K G S D R R K L R S E V A A A F P T L V P
UniRef90_E6ZLS5 V K S N T A I K G S D R R K L R T D V A A A F P A L L V P
UniRef90_D2VHT6 S G A K S K V K S S A Q R A I R S K V V E Q Y P E S Y I D E I L P
UniRef90_H2YW27 K F T K D D V H T K S N V K S S V Q R G L K V K V A Q F P K L E P D E I L P
UniRef90_Q75AA8 G S K S K V K S S V Q R A I R T Q L V Q T L A P H I D E I L P
UniRef90_U3JCT0 M F K K E F S G A K S K V K S S V Q R K I R E N I I E T L I E P Y I E A I L P
UniRef90_UPI00042C2736 K F D K T I G N S T A I K S S V Q R A I R Q K L L D Q F E A A L L E Q I W P
UniRef90_E3S3V3 A Q I A N I S N K E Q A Q V R K D L A E Q L L A D Y W E E I L P
UniRef90_W6MJE4 M F K K P V T G P Q K S K S A Q R A V R A K F L E Q L E P Y I D D I L P
UniRef90_K1W7X4 K R Y F L S K K D V K K I K N E L N E F F E D V I L P
UniRef90_N1Q901 M F K K D I S G S K S K V K S S V Q R A I R T Q I T T L L T P F I D E I L P
UniRef90_I4YGN5 K S S A A L K G A E A K K L R A R L E L A F P H I L L P
UniRef90_G0UBQ9 K F T C D D I I S Q N L I K S S I Q R T I K M N I V N Q Y P R D T I D V I F P
UniRef90_U4L4V5 K S S V Q R S L K S K L V S Q Y P E D V I D E I L P
UniRef90_C7P9G5 K S S V Q R S L K S K L R S Q Y P E D V I D E I L P
UniRef90_S3CGB0 R I K S N V L K N S D R R K L R S Q T E A R F P Q L S V P
UniRef90_B4K3G3 V K S N T A I K G S D R R K L R A D I S S A F P S E L M P
UniRef90_J7MH34 K F T P D D I I S Q N L I K T S V Q R N I K L N I V K E L L K D T I D V I F P
UniRef90_C5DVV1 I T V K K R H V I R K S Q I S E L L E R L T D E I G A S A D L P
UniRef90_V5HWT5 I K G S D R R K L R S E V R N Q F P R V V V P
UniRef90_F7CJY3 M W R K F T K E E H I R S H A V I K G S D R R K L K A D L L S A F P S L L P
UniRef90_Q4N3E4 M F K K N I T G S K S K V K S S V Q R S L R T Q L I Q T L S P Y I D E I L P
UniRef90_A3CS15 T K S N T L R R S D K K R L R S E V E K S F S A D V I G
UniRef90_K9IA19 M Q V K S R H H L R S D G V D E I R E A L A A G L G V D I P
UniRef90_UPI0003F0A488 P L K T S T I K G I M N Q L I E L F P V V E M P
UniRef90_H2M3Z2 M F K K D F S G A K S K V K S S A Q R A I R A K L E T M E P Y I D Q I M P
UniRef90_R1EW58 I K S F K V K S N N Q L K G T E R K K L E E I S A I Y P T L L I P
UniRef90_N1JCB4 K R Y H I K K K K L R E I R G Q I G D Y S S L I P
UniRef90_F6T385 M A A I Q V K K R H T I R K A Q I T R L M D Q L H E Q L G T D A D L P
UniRef90_V4XS76 S A P Q Q K L K S S V Q R S L R N S L L A S L N E P H I D E V M P
UniRef90_UPI0001DE9B85 V S N C I Q L K T S V I K G I K S Q L T E Q F P G I I M P
UniRef90_N1QIR5 M R V K S R H H L R S D D I I D A I R E A V A D H L G V D I D G
UniRef90_UPI0003DEC61E M E I K R R Y H H L R S K K E L K Q I K E E L S K F F T D I L P
UniRef90_O26746 M N I K Q R H F I Q K S Q I R E L Q D D L L N Q Y D E Q I F P
UniRef90_B8GJW7
UniRef90_H1VRB4
UniRef90_UPI0004544D24
UniRef90_V4XS10
UniRef90_F6BEN5
UniRef90_X1EKY8

QUERY	90	100	110	120
UniRef90_J4G8C6	RLLHLKAYFP	VLLKGVVVLV	DVDRGGAIA	RRFVLLAGANMM
UniRef90_S7RUN1	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_S8FXQ3	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_C1BSE0	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_Q5CJ11	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_Q4YSZ1	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_C1N6U8	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_D0FH72	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_E9H666	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H2U348	YALWRYPA	LVLPFRTP	WPVPVQK	VLLVLSGGADLM
UniRef90_Q8L7N2	RLLHLKAYFN	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI0001CE080F	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_M5EKS2	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_M2X3B4	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_T1G3U7	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_T1K7Y9	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_R7S064	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_A4SAZ7	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_V2YYY9	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_F4S7P4	KILLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_C4WUE2	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_F0WC00	KVLLHQLPN	VLMQMVRA	DKGAI	FFFVLLSGGANVM
UniRef90_F4WHK4	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_W5U751	YTLLWRYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_G0V107	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_B6QRZ1	KLLHSQFPDA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_L1JJA7	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_I1GCR8	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_G3WZU7	YTLLWSYPNA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_G0W595	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_V4A5G0	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_D8UB97	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_M5BJP3	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI000333013A	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_W5N343	YTLLHWFYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H3G9D9	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_G3BFD1	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_F2S755	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI000443FC9E	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_B9PYL7	RLLHTYPS	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_Q4QH62	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_S9U9B5	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_I2JY65	KLLHMYPS	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_E3L000	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_A9UPW0	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H9GD20	YTLLWLYPN	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_M0W1F6	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_C1G414	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_Q9NG60	YTLLWLYPN	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_W9XAW0	KTLVHQYPA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_U1GSEQ9	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H3FVL2	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_E6ZLS5	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_D2VHT6	KVLLHQYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H2YVW27	KVLLHQYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_Q75AA8	RFLVHQYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_U3JCT0	YTLLWVYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI00042C2736	YTLLWSYPDA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_E3S3V3	TLLVHQYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_W6MJE4	KVLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_K1W7X4	RLLVHRFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_N1Q901	RVLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_I4YGN5	KLLRLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_G0UBQ9	KLLHLRYPA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_U4L4V5	KLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_C7P9G5	LLLKLLKLP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_S3CGB0	KLLVHRFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_B4K3G3	YTMTWAEPT	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_J7MH34	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_C5DVV1	KLLVHKFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_V5HWT5	YALWCVPS	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_F7CJY3	YALWKYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_Q4N3E4	RLLVHKCSP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_A3CS15	RGLVJHEP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_K9IA19	KVLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI0003F0A488	YTLVWKYPA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H2M3Z2	YLLWRYPA	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_R1EW58	RLLVHRFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_N1JCB4	KLLVHRFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_F6T385	YFLWEHT	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_V4XS76	KGANAHDP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI0001DE9B85	KLLHLKLP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_N1QIR5	KVVLHQYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI0003DEC61E	YTLLWHPN	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_O26746	RGALKME	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_B8GJW7	MGAVAR	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_H1VRB4	KLVHRFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_UPI0004544D24	RLLHLKAYFP	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_V4XS10	RGANNDY	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_F6BEN5	KVLLLDK	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM
UniRef90_X1EKY8	TLLLNKQV	VLLKGVVVLV	DRDRGGAIA	RRFVLLAGAHMM

QUERY
UniRef90_J4G8C6
UniRef90_S7RUN1
UniRef90_S8FXQ3
UniRef90_C1BSE0
UniRef90_Q5CJ1
UniRef90_Q4YSZ1
UniRef90_C1N6U8
UniRef90_D0FH72
UniRef90_E9H666
UniRef90_H2U348
UniRef90_Q8L7N2
UniRef90_UPI0001CE080F
UniRef90_M5EKS2
UniRef90_M2X3B4
UniRef90_T1G3U7
UniRef90_T1K7Y9
UniRef90_R7S064
UniRef90_A4SAZ7
UniRef90_V2YYY9
UniRef90_F4S7P4
UniRef90_C4WUE2
UniRef90_F0WC00
UniRef90_F4WHK4
UniRef90_W5U751
UniRef90_G0V107
UniRef90_B6QRZ1
UniRef90_L1JJA7
UniRef90_I1GCR8
UniRef90_G3WZU7
UniRef90_G0W595
UniRef90_V4A5G0
UniRef90_D8UB97
UniRef90_M5BJP3
UniRef90_UPI000333013A
UniRef90_W5N343
UniRef90_H3G9D9
UniRef90_G3BFD1
UniRef90_F2S755
UniRef90_UPI000443FC9E
UniRef90_B9PYL7
UniRef90_Q4QH62
UniRef90_S9U9B5
UniRef90_I2JY65
UniRef90_E3L000
UniRef90_A9UPW0
UniRef90_H9GD20
UniRef90_M0W1F6
UniRef90_C1G414
UniRef90_Q9NG60
UniRef90_W9XAW0
UniRef90_U1GEQ9
UniRef90_H3FVL2
UniRef90_E6ZLS5
UniRef90_D2VHT6
UniRef90_H2YW27
UniRef90_Q75AA8
UniRef90_U3JCT0
UniRef90_UPI00042C2736
UniRef90_E3S3V3
UniRef90_W6MJE4
UniRef90_K1W7X4
UniRef90_N1Q901
UniRef90_I4YGN5
UniRef90_G0UBQ9
UniRef90_U4L4V5
UniRef90_C7P9G5
UniRef90_S3CGB0
UniRef90_B4K3G3
UniRef90_J7MH34
UniRef90_C5DVV1
UniRef90_V5HWT5
UniRef90_F7CJY3
UniRef90_Q4N3E4
UniRef90_A3CS15
UniRef90_K9IA19
UniRef90_UPI0003F0A488
UniRef90_H2M3Z2
UniRef90_R1EW58
UniRef90_N1JCB4
UniRef90_F6T385
UniRef90_V4XS76
UniRef90_UPI0001DE9B85
UniRef90_N1QIR5
UniRef90_UPI0003DEC61E
UniRef90_O26746
UniRef90_B8GJW7
UniRef90_H1VRB4
UniRef90_UPI0004544D24
UniRef90_V4XS10
UniRef90_F6BEN5
UniRef90_X1EKY8

170 180
R G R A V R R V H R L G D A L W E L A Q E V G K
K G I G V E T V T Y I G D D F W A L A Q E V G K
K G V G V E E V V T H L G D D L W A L Q K
K G V G V E T V T Y I G D D F W A L
K G I G V E N Y H Y L N D G L W N M K S
K G V C I E N V H Y L N D G L W N
K N M C I E N I H Y L N D G L W N
K G V G V D T I H H L N D G L W
K G V G V E N V H Y L N D G L W H F
K G V G V E N Y H Y L N D G L W
R G R G V S V L H T Y M D N L W S F G D K S G
K G I G V D N M H Y L N D G L W K M E
K G I G I E N I H Y L N D G L W H M
K G V A V D N V H Y L N D G L W S I C S K G G
K G V A V E N I H Y L N D G L W K L S
K G I G I E T V H F L N D G L W H M K P
K G I A I E S V H Y L N D G L W R L K P
K D V G V E T V T Y L G D E L W S L
K G I G V D L V H Y L N D G L W E
K D V G V E T V T Y L G D D L W A
K G V G V D N V H W L G D D L W
K G V G I E N C H Y L N D G L W Q M
K G V G I D L M H F V G D E L W
K G V G I E N C H Y L N D G L W Q M K P
K G K G V N V L H T Y M D Q L W A F G D K T A
S G P G I E N I H H L G D G L W
K G V V M D A G H Y L N D G L W K L S
K G I G V N V V H H L N D G L W K
K G I A V E S I H Y L C D G L W D M K E
K G R G F T V L H T Y L D H L W Q F G D K S
K G H G V E M I H H L G D P L W N F
K G I G V D N L H F L N D G L W N M
K G I G V D N L H H L N D G L W K M
K G I A V D L T T Y L G D G L W V M E K
K G I G I E N I H Y L N D G L W H M
K G K G V A V L H A Y M D Q L W G F G D R S G
K G V A I E M V H F L G D D L W
K G H G I E L V H F L G D G L W N M
K G V V M D E G H Y L G D G L W K L
R G V G I E N V H H L N D G L W H M
K G I C I E S Y T Y L N D G L W Q
K G P C I E N I H H L G D G L W
K G P C I E N V H H L G D G L W
K G M G I E L I H Y L A D G L W N F
K G V G V D N V H W L G D D L W
K D V G V K S I S Y L D D G L W H L
K G K G F T V L H T Y M D H L W G F G D K S
K G I G V D N M H Y L N D G L W K M E
K G V V M D E G H Y L N D G L W K I E S
H G V A I K M L H L F G D K L W S H E P S L
K G V A I G T G H Y L G D G L W K L
K G V V M D G G H Y L G D G L W K M
K G I G I D N L H Y L N D G M S K K
K G I A I E N L H Y L G D D L W
S G I G V D N M H C L D D F L W S H
K G I G I D T V H Y L N D G L W H L
K G H G V E T I H H L G D C L W N F S
K G K G F A V L H T H L D H L W E Y G D K S
K G K G F T V L H A Y T D H L W G F G D K S
K G Q A C E A G H Y L G D G L W G L
K G M G I E L Q H Y L G D G L W K F S P E
K G P V V E E G H F L G D G L W R L S T
K G P A I E N G H Y V G D G L W K L G
K G I G I D T L H F I G D G L Y K F E
S G P C I E N I H H L G D G L Y
A G A A M E L G H Y L G D G L W K Y
K G K A I K N L H Y V G D K I W N F
K G P V V E E G H Y L G D G L W K L S T E
H G V A V K M L H M F G D K L W A H E P R M L Q
K D V G I L T L H Y L N D G Y W Q F
K G H G V E M I H H L S D P L W H F
R G K A V A V A H V Y G D Y L W A H G S K R
K G K G F N L L H T F G D Q L W A Y G D K S
K D V C I Q T V H Y L N D G Y W Q F
K G K S V K S V H Y V G D D L W N L E
K G V G V E T T T Y L G D G L W N L
R G K G I F V Y H T Y Q D Q L W Q H G D K I
K G R G L F V L H T Y M D Y L C P S G K Q L
K G V A V E N T H Y L K D G L W
K G P V V E D G H Y L G D G L W Q L G E S
R G K A V H I L H V F G D H L W S L G E K T
S G K V V E S L H Y V G D D L Y E F S
K G V D I E S T H Y L N D C L W H M K I S K
K G P G I E G G H Y V G D G L W K L
H G K C V E L L H V I G D T L C Q L G K
S G K A V K T I H H I G D A I W E L E
A G K M V Q S V H H V G D E I W N L E
K G P V V E E A H F L G D G L W R L G S
K G I G I E N I H Y L N D G L W H M
N G K V V S S I H H V G D D L Y E F S
K G R A I K T V H H V G D D I W K F
S G K V V K N L H T I Q D N V W K F E K Q F K

1 10 20 30 40

UniRef90_G0HNC2 ME L K V K H P L S K K E V K E I T R E M S E T F G E E I A G
UniRef90_G0R8N8 K Q K L K S S V Q R S L R N A L L E A T L T P Y I D E I L P
UniRef90_Q3IUC0 M Q V K S R N T L K G S D E I D A L L E E R L A D R L G V T F P
UniRef90_V3ZML0 V K R R Q N T L K G S D K K K I E E N R I E E N V L S E L F P
UniRef90_A0B5Q7 K S R H H L K G S E V K R I L S A I E E E R I E D D P D G L
UniRef90_N1Q2L5 M F K K D F T G A K S K V K S S A Q R A T R A K K V I E R I E P Y L D D I L P
UniRef90_E2AXJ4 I K P F K I K S N S Q L K G T E R K K L C E E V L A A Y P Q V L L P
UniRef90_R7SVX0 K T S A P L R G S D R R K L R Q R L P P E E G D A L V P
UniRef90_J3EWWV5 M K V K S R H H L R S D D D V G D I E D T M S E S L G V E L P
UniRef90_F0LHD7 K I K R H P L R S K K E I K E I I R E M S S I F G E E L I S
UniRef90_A3DN31 R R Y V L S K R E R K R L L E E E L E Q R Y G S I G V G
UniRef90_Q7PZ98 I K P F K I K S N L V T G S E K K R L R Q R V M A Q F N R E L F G
UniRef90_Q18186 T V K K N T N Q R N S D S R K L F N R L K E E V G E S N I D
UniRef90_R8BDL2 M F K K D M S A A K Q K L K S S V Q R S L R Q S L L S T L T P Y I D E V L P
UniRef90_C8VSF5 M D V K S R H H L R A D A I A D I E D A V A A T L G V E I D A
UniRef90_MOD0I0
UniRef90_U6JR64
UniRef90_U5EZZS Q L K G S D K K E L K Q K I S S Q Y L N E L I S
UniRef90_U1PKP1 M E V K S R H H L R S D A V A E I Q D E L A E R L G V E I D A
UniRef90_M0MLW7 M Q V K S R H H L R S D A V D D I E E N L A A T L G V T L D G
UniRef90_B7GDR8 T S T Q V K A S I R Q R S L K S Q I L D R A I T E D T L E V L L P
UniRef90_MOD3S1 M K V K S R H H L R S D E I S E L E D A I A D Q T G V A L P
UniRef90_A2SPR9 K K R H A I K K S Q L A A L M T K L T E N I G E D A A L
UniRef90_UPI000337D0B K E D V S N C I Q L K A S V V K G I K N Q L I E Q F E P W L N Q I M P
UniRef90_G2Q6L6 M F K R E V Q G S K Q K L K S S I L T T L A P H I D E V L P
UniRef90_D7SN00 S L E A K S Q Q R L S G A D R K K L K R T I K E R F I D S I L P
UniRef90_MOMDE1 M Q V R S R H H L R S D A V D E I E R T L A D R L G V D L P
UniRef90_J3NZ06 M F K K D L T A A K Q R S S A Q R A L R Q Q L L D R L N P H I D E V L P
UniRef90_H2W5T0 V K K N T N Q R N S D S R K L F T R L K E E V N E S N I D
UniRef90_D8Q1T8 A S E V K A S Q R L S G A D R K K L R R S I C E R F G E S L P
UniRef90_G3WVD7 S F R V K S N A A I K G S D R R R L Q A D V A V T F P D V D I P
UniRef90_I0A1J1 M R R H Y L S K K E K D E I L K E V S K L K T S L E P
UniRef90_C7NXX3 M N V K S R H H L R A D E I D A L E E S V A A N L G V E L D A
UniRef90_Q46G25 M K V K S R V Q L R K N V K N K M L K D L V S T F G E L S
UniRef90_W2TKK8 T V K K N T N L R N S D T K K L L Q R L S S A F G D I L P
UniRef90_K4D8H6 K S H Q R L S G A D R K K L R R T I R D R F S D V I L P
UniRef90_A8INB8 Q S H K V S G A D R K K L R K A L E K V Y G E A I L P
UniRef90_K5WVPW2 S L R G S D R R K L K Q R V V A D F G E L L V P
UniRef90_Q23CU7 P L N K S A Q K K L R E K I L E K F P K I E M P
UniRef90_M0A4W9 M Q V K S R H H L R S D D V S E L E T D L S D K L G V S L D G
UniRef90_A6UV12 F E K E I I P
UniRef90_F7VZV5 M F K K D I T P S K Q K L K S S I Q R N L R Q S L L T T L L T P F I D D I P
UniRef90_D7DV72 M E I K R R Y S M L K K K E L K Q I K E E L N K L I D D I F D
UniRef90_A2EJQ9 K K H T T L K S N L L T K L K N Q L I E G L I D E I F P
UniRef90_L0AAL2 K R H L L S K K E I K E V R D Q L L K E Y P N L P M
UniRef90_M0RZ16 S Q R L S G A D K K K L R R T A K D R F P D E I L P
UniRef90_L0KX71 R I Q L R K S A K N K L D N L I S M Y G D T V V Q
UniRef90_A8A8F4
UniRef90_I1BX32 F S E N I A G Q S Q L K S S V Q R N I R A K L G D E Y P E T I L D D L I P
UniRef90_B0R8B9 S R H H L R S D D I D E I G D A L R T G L G V E L P
UniRef90_F1KYL4 S F V V K S N T N M R N S D R R K L L S R L H F A D R I S
UniRef90_W7A888 M F K S K I A G N K N F L G N K D R K K L A V T I K S T F N L D S D E
UniRef90_Q4YFI3 I S S Q N L M K S S V Q R S I K A T I L K Q Y P E N F I D D T F P
UniRef90_N0BN81 M K R Q R L R K K K A K R I K N L T A E K Y S T I E I E G
UniRef90_G0LMZ0 M Q V K S R H H L R T D E I D T L T A E I E H T T G V A L D A
UniRef90_I2JZD5 K S F S N L R N S E R R K L K A T I T D Y L E Q X L F P
UniRef90_S8CYE2 K S Q Q R L S G V S R K K L K R T I K E R F P N V L P
UniRef90_D3RZS1 M K R K M L R K K E A K K V L E E I K L R A G V E L P
UniRef90_B9QHY8 S L L G N K E R K K L R E Q A L K A F P D I L L P
UniRef90_G3AN68 Q V K A S A N I K S S D R K K L L A Q V V Q L Y S V P S L P
UniRef90_R9T4B4 K R H R L R E S E V R V L E D E I K Q R L G V Q L F G
UniRef90_G0S4J5 M F K K D L T P S K Q K L K S S V Q R S V R Q L I L D T L A P H I D E V L P
UniRef90_A2DNA3 K N K K T L G S A M I S K L R E A L V P E L E N D Y L P
UniRef90_UPI00044122BB K T S A P L R S S D R R K L R A R V A A Q Y P D L L V P
UniRef90_D0N7K5 P A K V S G N V L L K N K D A K K L R R D V A V C F L K Q L L A
UniRef90_UPI000360A824 K R H R L R E K E I K V L D D E I R E R L G A E A F S
UniRef90_A7EMN5
UniRef90_A0DXT3 K P T L L S K T G V K E L K Q S L T D Q Y P D E I F P
UniRef90_UPI0002C2E73E Q R L S G A D R K K L K R T V R D R F P D A L L P
UniRef90_D7EIK7 I K V K S N T Q M K S D R K T I R E R F L Q T F P E L V I P
UniRef90_W7KVY5 M Q R H F L S Q K E L K N F K S I T K Q K Y S L E I E S
UniRef90_T1EFU4 K V K S N N I V K S E K K K I H D E L R Q Y N P Q D L L P
UniRef90_S7Q6J0 P L R S S D R R K L K Q R I A D T F G Q L L V P
UniRef90_UPI00035DD41C M Q R H V M S K K D A K E F L K R V K E L Y G V E L P
UniRef90_K0IFN5 A R I I A L I S L K T F V L S K S E T G E L L D K L G S V W P Q G V V P
UniRef90_M4YM84 K R K R L R N K E A K A L A D A I S A D I G V P V F G
UniRef90_G7JKR1 K S Q Q R L S G A D R K K L K R T V K D K F P D I L L P
UniRef90_A6UR48 E K I I P
UniRef90_I7BLV5 S D L E D V L E E Q L G V S
UniRef90_V8NKL3 V K S N T A I K G S D R R K L R N D V A A V F P T L V V P
UniRef90_D3BBT7 S Q S L V R G S D K K K L K E K L V Q T Y L D Q V I Q
UniRef90_UPI0002B42FF7 A S E A K L Q Q R L S G A D R K K L K R T V K E R F P D L L P
UniRef90_F6D4Q9 I I T
UniRef90_G8YH20 T K A S S N I K S S E R R L F A E I C K T Y E Q A E I A
UniRef90_D8LJR1 S R S L L K N S A A K K K A E L T K E I D E L M P
UniRef90_U6LG12 D I S G Q T M M K S S L Q R A V R A Q I L E R L E P V M E Q I W P
UniRef90_V9G1P5 Q R S I R A K V L E Q Y P D L Y A E M F M P
UniRef90_M3C583 S P L R S S D R R K L A D Q I I K D F A N D D T P
UniRef90_A0A059B3Q7
UniRef90_UPI000444A8B8 K T S A P L R G S D R R K L R Q R I V E I Y G N E L V P
UniRef90_R9NYS1 K S S V R R V I R Q K L T E Q Y P A A L L E A A W P
UniRef90_C1EBV3 A H K L G S D E K K L R K Q I V A A F P M A L V P

UniRef90_G0HNC2 K K D R V E V A E F 50 D K T T E I L L V N G K P F F R R K G L I F P L V
UniRef90_GOR8N8 K K A S L E S M K L P D R N D T L Y V L D S V P L F Y Q Q D G A E L L P H L
UniRef90_Q3IUC0 D G D S Y E R V E F D S D V D R E N I V L V D G E P L V A S F D D D L F L T V
UniRef90_V3ZML0 A K G D M S V A K V E L H D S G E I N E V S C Q K N P I F F E I N K K W F P S V
UniRef90_A0B5Q7 R K A S M E L A E T D E G F E I I V N G R P L L M I I D G E P F F T V L
UniRef90_N1Q2L5 K K E Q V D L V K L P D R V S L Y S I A K Q P L F W Q H M S D N A I T P H L
UniRef90_E2AXJ4 K K E S I S L M K L V T H N G Q I K L Y C V A K I P M F F Q L D S N L L F P T I
UniRef90_R7SVX0 D G L Q S S Q K F S T H L D D P G V A Y L S P D G D P L W F T I G K G D L I P T V
UniRef90_J3EWW5 D G D S Y E L V E L A D S E F D Q V L V V D G E P L V L Y V D D E P F L
UniRef90_F0LHD7 K K D N V Q L A E F D K T T Q I L F V N G K P M F I K R Q N L V F P L V
UniRef90_A3DN31 K N D V V E I F E E K N K F K I L V I N G V P A F I F Y E D K W I P H L
UniRef90_Q1PZ98 N R A K V C T V K L I T H E E P V T V Y T S D K R P I F F E L N G K L L P T V
UniRef90_Q18186 K K G Q V A Q V K L I T F E E G T M N V Y T I D K V P M L F E F S E G N I Y P T V
UniRef90_R8BDL2 K K S N L S Q M K L P D R A S L Y V I D N T P I F Y Q Q D N G P L L P H L
UniRef90_C8VSF5 D R V T L Y T I D S T P L F Y Q P L D G P P I P H L
UniRef90_MODAL0 D S Y E K V E F E D S D W N V V L V D G D P L V L Y I E D G E D E P F L
UniRef90_U6JR64 N K A S I C S L K I V T H N D T V N V Y T M D K K P I F F E Y Q E N L L Y P T V
UniRef90_U5EZS0 D T F E N V E L T A G E R D I V L V D G D P L V L Y V E D E D R E P F L
UniRef90_U1PKP1 D S Y E R V E F A D A E R D L V L V D G D P V V C Y F D D E P F L T V
UniRef90_M0MLW7 K K S P L V Q Y K V G S H M M L Y C P T D E P V L F Q H R D D G P I M P T L
UniRef90_B7GDR8 D G D T Y E M V E L T D A D F D V V L V D G D P V V V Y M D D R P I P F L T V
UniRef90_MOD3S1 Y N A P M I E L A E T A S K F N I Y I I D K K P L I M E K D D W A F P T L
UniRef90_A2SPR9 K K G R V K T V R C H G H M E I L T V N G E L L I F R Q Q E G G P F D P T L
UniRef90_UPI000337D0B K K H S L E Q I K L P E R V S L Y V I D G N P L V Y Q Q D N G V L L P H L
UniRef90_G2Q6L6 P K A E I T I V K L Q N R V H L Y G V E G G F P M F F D I R G T E L F P T V
UniRef90_D7SN00 K A G D T Y E R V E F A E S D R D L V L V D G E P L V I Y P Q D D D P F L
UniRef90_MOMDE1 K K S S L E Q M K L P D H A S L F V V D K T V F F Q P Q G A A I L P H L
UniRef90_J3NZ06 K K G Q V A Q V K I T N E N T Q L Q F Y T I D K I P T L F E F S D G N I Y P S V
UniRef90_H2W5T0 A K A D V T V A K L A N P N R L H V Y V D G G P P M L F D V D G E V F P T V
UniRef90_D8Q18 G R K E L S I M R L C L Y K G N A T V Y V S G R N P V F F E V E K N L Y P T V
UniRef90_G3WVD7 E K V E L L E S K E F S C Y L F D S V P A L C K T E D K F F P H L
UniRef90_I0A1J1 D T F E K I V E F E D S D W D V L V D G D P L V L Y V I E G E P F L T V
UniRef90_C7NXX3 Y L E D K T L E K I T L E E Y S L L V D G K P L L F E I E G H V F P T V
UniRef90_Q46G25 K K A Q Y A Q A K I V T S N G T L N L Y I V D K E P M F F D F D A A G V L F P
UniRef90_W2TKK8 P K A E L E S V S K Y P N S R V L V Y G L E G E P M F F D V R G R D I Y P T V
UniRef90_K4D8H6 A K A E L E C V K L J A S P S R V V L Y L H D G S P I L L D P G K G D Y A P T V
UniRef90_A8INB8 E G L Q S Q K I S T H L N E P G V V Y L S Q E G D P L W F S L G D G A L I P T V
UniRef90_K5WPW2 K K A Q I S S T K F H T P E H K W E L F W V D K F P I F F D K E D D E L F P T V
UniRef90_Q23CU7 D A Y E R V E F E D A D R E V I L I D G E P R V A F F D E E P F L
UniRef90_M0A4W9 N K A N I E I A I T E D Y E M V L A N N E P I A F K I N N K V Y P T L
UniRef90_A6UV12 K K A S L E Q I K L P D R V S L Y V I D S T P L F F Q A Q N T I V P H L
UniRef90_F7VZV5 K K S I V E K I I T N E M D I V L D N T P I A I C K D G N I V P T L
UniRef90_D7DV72 K K T P V I V Y S I E Q H L K L Y A V D N K P V M V E L G T G D V F P M L
UniRef90_A2EJQ9 E W D K V E I A V Y Q D I S F Y L D N N F P C I V K K G D I F P T L
UniRef90_L0AAL2 P K A E I T V A K Y S N K V H V Y V I E G L P M L F D I R G T E L Y P T V
UniRef90_M0RZ16 K V A S Y K F E H A D A G D T S V I L I D G K V L L F A V D D I Y F P T V
UniRef90_A8A8F4 V E E V K V R T E T E K Y V V Y F V E G K P T F W V K D D K Y L P V L
UniRef90_I1BX32 K K Q P L I Q I K G Y T H D G D A Y E R V T F A D E E F E I V L V D G D P L V W Y P D G E P F V
UniRef90_B0R8B9 S K A Q V A H V R L L N S N G V P N V Y T F D K N P L L F F E M E D D P L Y P T V
UniRef90_F1KYL4 Q V E E I N T C I C K V Q K T K I T I Y L S K N I V L F T I K N D L F P T V
UniRef90_W7A888 K K G P I F L G K C T N H V T I I G N N E L F F Q I R N G P W M P N L
UniRef90_Q4YFI3 D I D L V E I D G R K V Y L V N D D P L L F E H D G E I Y P T I
UniRef90_NOBN81 D A Y E L V E L D G V S Y N V L A D D N L D I V R F D D E P F L
UniRef90_G0LMZ0 K V I E K A V F K T R T V T G S I Y V D K N T G K P I W F E T R D K R L R P T L
UniRef90_I2JZD5 P K V E V T V C K Y S N R V L V Y G L E N D P M F F D S R G S E L Y P T V
UniRef90_S8CYE2 E G N V E V V E F G K T N A I L I N G E F L A I E H D G K Y L
UniRef90_D3RZS1 P K E E I S V A K L Q F P P N R G T V Y L C R G E P V F F E V N G V T L P S V
UniRef90_B9QHY8 K P I Q S E L V K K A T F K T Q F T I Y F S E Q E P T Y F P R D G S I Y P T V
UniRef90_G3AN68 Q N V A V D R A E G P E F D V I Y V N N E L G L V Y E D K A F L S V
UniRef90_R9T4B4 K K A S L E Q I K L P D R V S L Y V I E N R P L F Y Q Q D N G V L L P H L
UniRef90_G0S4J5 K K A P V T V F G L Q D H A K L Y F V G N Y P A V V E L G H G E V F P H L
UniRef90_A2DNA3 E G I Q L A R F V A S T G E Q T L Y T S G G E P I W F D R E A E D V L P S V
UniRef90_UPI00044122BB S K A S V K K M S F Q A P S R V V V Y A S E K E P L I F D T S K G D L C F S V
UniRef90_D0N7K5 P G E A V D R A E S S E Y D V L E I G N Q V Q G I V Y Q G K A F L T V
UniRef90_UPI000360A824 D R V T L Y L I G S T P L F F Q H M T D A L L P H L
UniRef90_A7EMN5 K K A N I Q S F K L R S E Y K V E I V Q V D K D Y A C F T K E N L V I P H L
UniRef90_A0DXT3 P K V E I K V S K Y Q N R V L V Y G I E G G P M F F D I R G K E I F P T V
UniRef90_UPI0002C2E73E K K E T V S A I K I V T E G N E V N V Y S V Q R C P F A F E I Q G V I F P T V
UniRef90_D7EIK7 D N V E I G R E K K Q V Y Y F I D G K L S F F S E E L V P T L
UniRef90_W7KVY5 L K E D V S V I K L C T Y S D I V T V Y S H K K N P T F F V V N K L V L P T V
UniRef90_T1EFU4 E G L K S V K F E N H Q G K P G V L S H D G D P L W F T L G K G R A K D A L
UniRef90_S7Q6J0 E G N L E V G K E K E V Y Y F L D G L L A F F G D P L P T L
UniRef90_UPI00035DD41C K V K S I K I Y E V E E G R R L L I A D E T V A V Q V Q D S I V
UniRef90_K0IFN5 D D E P V D R A E S S E Y D L I F V G N D L G L I I N E K P M L
UniRef90_M4YM84 P K T E I T V A K F Q T R V H V Y A V E G F P V F F D I D G R G S D I F
UniRef90_G7JKR1 K D A P V E K A V L D L G E I L V D G T P L A M I N N G K M F P T L
UniRef90_A6UR48 E G D A Y E R V E F E D T D L G E V V L I D G E P Q V A E F G D D L F
UniRef90_I7BLV5 M K E E L N I I K I Y T H K G E V T V Y A N G K N P I L F E M E K
UniRef90_V8NKL3 N K R D L G L V K L Q N Q P V Q L Y C Q V G D P L V F E Y Q G V L Y P T T
UniRef90_D3BBT7 P K V E F S V A K F Q N R V H I Y S V E G G F P M F F D V D G R G N E L F
UniRef90_UPI0002B42FF7 P K S K V E L L E T D M N D I L L V D G N P D I M M I D D M P F P T L
UniRef90_F6D4Q9 K E D L A I L P A T T K Q A S F T I F F E D E R P V W F Q T R D S Q V I P S L
UniRef90_G8YH20 N K D G I E V V K L A T R A L V Y F H V P T K T P L F F D S D G R L F P T V
UniRef90_D8LJR1 K K A V P V L L K C Q N H I S V I V L D G K P L F F Q C R G R Q W V P T L
UniRef90_U6LG12 K K A P M V V A K C H N H I Q I V L H E G E P L F F N Q R D G P F M P T L
UniRef90_V9G1P5 E Q E N V Q S A R F T T T S G T I Y V G H H D G E R I L W F Q T D G R M V P S V
UniRef90_M3C583
UniRef90_A0A059B3Q7 D G L L S M K F T T H S G E P G M I Y L N G D P L W F S I G K D E M I P T V
UniRef90_UPI000444A8B8 N K A S V T T M K F A R E H V Q M F I A E K Q V L F F Q H Y D D W Y L P S L
UniRef90_R9NYS1 K K A E L S L Q K L A A P S R T Q I Y V G D G Q P V F Y D T S K G D L F P T V
UniRef90_C1EBV3

UniRef90_G0HNC2
UniRef90_G0R8N8
UniRef90_Q3IUC0
UniRef90_V3ZML0
UniRef90_A0B5Q7
UniRef90_N1Q2L5
UniRef90_E2AXJ4
UniRef90_R7SVX0
UniRef90_J3EWW5
UniRef90_F0LHD7
UniRef90_A3DN31
UniRef90_Q7PZ98
UniRef90_Q18186
UniRef90_R8BDL2
UniRef90_C8VSF5
UniRef90_M0D0I0
UniRef90_U6JR64
UniRef90_U5EZX0
UniRef90_U1PKP1
UniRef90_M0MLW7
UniRef90_B7GDR8
UniRef90_M0D3S1
UniRef90_A2SPR9
UniRef90_UPI000337D0B
UniRef90_G2Q6L6
UniRef90_D7SN00
UniRef90_M0MDE1
UniRef90_J3NZ06
UniRef90_H2W5T0
UniRef90_D8QT18
UniRef90_G3WVD7
UniRef90_I0A1J1
UniRef90_C7NXX3
UniRef90_Q46G25
UniRef90_W2TKK8
UniRef90_K4D8H6
UniRef90_A8INB8
UniRef90_K5WPW2
UniRef90_Q23CU7
UniRef90_M0A4W9
UniRef90_A6UV12
UniRef90_F7VZV5
UniRef90_D7DV72
UniRef90_A2EJQ9
UniRef90_L0AAL2
UniRef90_M0RZ16
UniRef90_L0KX71
UniRef90_A8A8F4
UniRef90_I1BX32
UniRef90_B0R8B9
UniRef90_F1KYL4
UniRef90_W7A888
UniRef90_Q4YFI3
UniRef90_N0BN81
UniRef90_G0LMZ0
UniRef90_I2JZD5
UniRef90_S8CYE2
UniRef90_D3RZS1
UniRef90_B9QHY8
UniRef90_G3AN68
UniRef90_R9T4B4
UniRef90_G0S4J5
UniRef90_A2DNA3
UniRef90_UPI00044122BB
UniRef90_D0N7K5
UniRef90_UPI000360A824
UniRef90_A7EMN5
UniRef90_A0DXT3
UniRef90_UPI0002C2E73E
UniRef90_D7EIK7
UniRef90_W7KVY5
UniRef90_T1EFU4
UniRef90_S7Q6J0
UniRef90_UPI00035DD41C
UniRef90_K0IFN5
UniRef90_M4YM84
UniRef90_G7JKR1
UniRef90_A6UR48
UniRef90_I7BLV5
UniRef90_V8NKL3
UniRef90_D3BBT7
UniRef90_UPI0002B42FF7
UniRef90_F6D4Q9
UniRef90_G8YH20
UniRef90_D8LJR1
UniRef90_U6LG12
UniRef90_V9G1P5
UniRef90_M3C583
UniRef90_A0A059B3Q7
UniRef90_UPI000444A8B8
UniRef90_R9NYS1
UniRef90_C1EBV3

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

UniRef90_G0HNC2
UniRef90_G0R8N8
UniRef90_Q3IUC0
UniRef90_V3ZML0
UniRef90_A0B5Q7
UniRef90_N1Q2L5
UniRef90_E2AXJ4
UniRef90_R7SVX0
UniRef90_J3EWW5
UniRef90_F0LHD7
UniRef90_A3DN31
UniRef90_Q7PZ98
UniRef90_Q18186
UniRef90_R8BDL2
UniRef90_C8VSF5
UniRef90_M0D0I0
UniRef90_U6JR64
UniRef90_U5EZX0
UniRef90_U1PKP1
UniRef90_M0MLW7
UniRef90_B7GDR8
UniRef90_M0D3S1
UniRef90_A2SPR9
UniRef90_UPI000337D0B
UniRef90_G2Q6L6
UniRef90_D7SN00
UniRef90_M0MDE1
UniRef90_J3NZ06
UniRef90_H2W5T0
UniRef90_D8QT18
UniRef90_G3WVD7
UniRef90_I0A1J1
UniRef90_C7NXX3
UniRef90_Q46G25
UniRef90_W2TKK8
UniRef90_K4D8H6
UniRef90_A8INB8
UniRef90_K5WPW2
UniRef90_Q23CU7
UniRef90_M0A4W9
UniRef90_A6UV12
UniRef90_F7VZV5
UniRef90_D7DV72
UniRef90_A2EJQ9
UniRef90_L0AAL2
UniRef90_M0RZ16
UniRef90_L0KX71
UniRef90_A8A8F4
UniRef90_I1BX32
UniRef90_B0R8B9
UniRef90_F1KYL4
UniRef90_W7A888
UniRef90_Q4YFI3
UniRef90_N0BN81
UniRef90_G0LMZ0
UniRef90_I2JZD5
UniRef90_S8CYE2
UniRef90_D3RZS1
UniRef90_B9QHY8
UniRef90_G3AN68
UniRef90_R9T4B4
UniRef90_G0S4J5
UniRef90_A2DNA3
UniRef90_UPI00044122BB
UniRef90_D0N7K5
UniRef90_UPI000360A824
UniRef90_A7EMN5
UniRef90_A0DXT3
UniRef90_UPI0002C2E73E
UniRef90_D7EIK7
UniRef90_W7KVY5
UniRef90_T1EFU4
UniRef90_S7Q6J0
UniRef90_UPI00035DD41C
UniRef90_K0IFN5
UniRef90_M4YM84
UniRef90_G7JKR1
UniRef90_A6UR48
UniRef90_I7BLV5
UniRef90_V8NKL3
UniRef90_D3BBT7
UniRef90_UPI0002B42FF7
UniRef90_F6D4Q9
UniRef90_G8YH20
UniRef90_D8LJR1
UniRef90_U6LG12
UniRef90_V9G1P5
UniRef90_M3C583
UniRef90_A0A059B3Q7
UniRef90_UPI000444A8B8
UniRef90_R9NYS1
UniRef90_C1EBV3

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

		170	180
UniRef90_G0HNC2	K G K A V	K N L H H A K D K I	W E L
UniRef90_G0R8N8	K G P V V	E D A H Y L G D G L	W
UniRef90_Q3IUC0	S G K V V	E T L H H V G D D L	Y E F
UniRef90_V3ZML0	K G K G V	K P L H M M G D L	W E M G D Q S
UniRef90_A0B5Q7	E G K A V	E S L H H V G D R I	W K
UniRef90_N1Q2L5	K G P A I	E N G H Y V G D G L	W K L
UniRef90_E2AXJ4	H G K C V	E I F H V I G D M L	C Q L Q G K L
UniRef90_R7SVX0	K G K A V	Y I L H T W K D A L	W E M G P S
UniRef90_J3EWW5	S G K V V	E S V H H V G D E L	F E F S
UniRef90_F0LHD7	R G K A V	K V I H H A K D K I	W E L
UniRef90_A3DN31	R G R V V	E N L H R I G D I F	W N I
UniRef90_Q7PZ98	H G V C V	R M M H V F G D K L	W G M E P S V
UniRef90_Q18186	K G K G V	Q V L H V F R D Q L	W D F G P K
UniRef90_R8BDL2	K G P V I	E E A H Y L G D G L	W R L
UniRef90_C8VSF5	K G V A I	D D G H Y L G D G L	W K M
UniRef90_MOD0I0	S G K V V	E S I H H V G D D L	F E F A
UniRef90_U6JR64	K G P C I	E T L T Y L N D G L	W T L D S
UniRef90_U5EZS0	Q G V C V	K M L H V F G D K L	W G M E P S V
UniRef90_U1PKP1	Q G R V V	E S I H H V G D E L	Y E L
UniRef90_M0MLW7	S G K V V	E S L H H V G D D L	Y E F S
UniRef90_B7GDR8	K G I A I	E L M H Y L G D G L	Y Q
UniRef90_MOD3S1	S G K V V	E S L H H V G D D L	F Q F S
UniRef90_A2SPR9	K G K A A	K N L H Y I G D E L	W N L E
UniRef90_UPI000337D0B	K G I G I	E N L H Y L K D G L	W P M
UniRef90_G2Q6L6	K G P V M	E E T H Y L G D G L	W R L
UniRef90_D7SN00	R G K A L	R I T H Y Y R D S L	W E L
UniRef90_M0MDE1	S G K V V	A S V H H V G D D L	Y E F S
UniRef90_J3NZ06	K G P V V	E D A H F L G D G L	W A L
UniRef90_H2W5T0	K G K G V	Q V L H V F R D Q L	W D F G P K
UniRef90_D8QT18	R G K A L	R I L H F Y P D T L	W S S A E
UniRef90_G3WVD7	K G K G F	T V L H T Y L D C	W H I G D R S
UniRef90_I0A1J1	K G R V A	R N I H Y V G D K F	W N
UniRef90_C7NXX3	S G K V V	E S I H H V G D D L	F E F S
UniRef90_Q46G25	S G K A I	K S I S H V G D K L	W N
UniRef90_W2TKK8	G K G V	Q I L H I F R D L L	W E F G S R T A
UniRef90_K4D8H6	R G K A L	K I C H Y Y R D T L	W E S A E
UniRef90_A8INB8	R G K L V	E V M Q H Y G D C	W S
UniRef90_K5WPW2	K G K A V	Y V L H T W K D C	W S M G
UniRef90_Q23CU7	G E A I	V T K H V I G D G L	W L I Q E P K K
UniRef90_M0A4W9	E G K V V	D S L H H V G D E L	Y E F
UniRef90_A6UV12	K G K A I	N T L H Y I G D D V	W N F
UniRef90_F7VZV5	K G P V I	E E A H F L G D G L	W R M A
UniRef90_D7DV72	K G K A I	S T L H Y I G D E I	W K F
UniRef90_A2EJQ9	K G I A V	K N L T I L R D A L	Y
UniRef90_L0AAL2	K G K A I	E N L H Y S G D L I	W K I S
UniRef90_M0RZ16	R G K A L	R I T H Y Y R D F L	W Q V S
UniRef90_L0KX71	S G K A V	K S L H H V G D E I	W N I E
UniRef90_A8A8F4	R G K V I	K N L H Y L G D D L	F K L C K S
UniRef90_I1BX32	K G I G V	D N I H Y L T D P L	W K
UniRef90_B0R8B9	S G K V V	S S L H H V G D E L	F E F S
UniRef90_F1KYL4	Q G R G V	Q I L H L Y R D F L	W E F G S R
UniRef90_W7A888	K G K C L	K V V H I F N D E L	W K L G S Q T
UniRef90_Q4YFI3	K G K A V	K N I H H L K D R I	W N
UniRef90_N0BN81	S G K V V	E S I H H V G D D L	Y S F S
UniRef90_G0LMZ0	S G R G V	K I I H C Y N D E L	F R I E Q K L
UniRef90_I2JZD5	R G K A L	R I L H Y Y R D A L	W A S A E S P
UniRef90_S8CYE2	R G K A V	K N V H H I N D K L	W K
UniRef90_D3RZS1	K G K A L	E M A H A F G D G L	W Q L G S Q S A
UniRef90_B9QHY8	S G V A V	E I I H T Y S D G L	A K F N K E I
UniRef90_G3AN68	P G K A I	K N I H H V T D K L	W K A G E
UniRef90_R9T4B4	K G P V M	E E T H F L G D G L	W R L
UniRef90_G0S4J5	K G K A C	K T L H T M K D D L	F T L K L E
UniRef90_A2DNA3	K G K A A	R V L H V V G D A L	W E M G S K
UniRef90_UPI00044122BB	K G R A L	K L W H V V G D S L	W Q M G P Q T L
UniRef90_D0N7K5	P G K A I	K S L H Y V A D K L	W K L D E E
UniRef90_UPI000360A824	K G P V V	E D A H Y L G D G L	W R L S T
UniRef90_A7EMN5	K G H A I	Q L L H N L G D A L	W Q L S
UniRef90_A0DXT3	R G K A L	K I A H Y Y G D L L	W E
UniRef90_UPI0002C2E73E	R G K C L	L I Y H T Y G D N L	C S
UniRef90_D7EIK7	R G K F A	Q N L H W I G D D I	W K I C
UniRef90_W7KVY5	G K L V N	I M H T F E D H L	W E L G D K S
UniRef90_T1EFU4	K G K A V	G V L H A W K D G L	W S V G
UniRef90_S7Q6J0	R G K F G	E N L H H V G D E L	W E T C K
UniRef90_UPI00035DD41C	K G Y V V	E N L H Y I S D K M	W E A Y K E I
UniRef90_K0IFN5	T G K A I	K T L N S V G D K L	W K A G E
UniRef90_M4YM84	R G K A L	R I T H H Y R D L L	W E
UniRef90_G7JKR1	K G K A I	K T L H F V G D E I	W K M
UniRef90_A6UR48	E G K V V	D S L H H V G D E L	Y E F
UniRef90_I7BLV5	K G K G F	T V L H T Y M D H L	W A I G D K S
UniRef90_V8NKL3	N G K A L	S I I H Y I N D A L	W E Y G T K
UniRef90_D3BBT7	R G K A L	R I L H Y Y R D T L	W
UniRef90_UPI0002B42FF7	E G K A V	E S L H Y I G D D I	W N L E
UniRef90_F6D4Q9	K G I A A	D I L H C I D D E L	C N L N D
UniRef90_G8YH20	T G K G M	K V V H C Y L D Y L	W Q M G S Q T L
UniRef90_D8LJR1			
UniRef90_U6LG12			
UniRef90_V9G1P5			
UniRef90_M3C583	K G H A V	E N M H W L G D E L	W S Y G T
UniRef90_A0A059B3Q7	K G I G V	D N M H Y L N D G L	W K M E
UniRef90_UPI000444A8B8	T G K A A	V V L H M V G D K L	W E M G S R P A K
UniRef90_R9NYS1	K G I A I	E N I H Y L G D D L	W M T L S K G G
UniRef90_C1EBV3	K G R F L	K I L T T Y R D A L	W D Y A

1 10 20 30 40

UniRef90_A0A031LUP2 M F K N K I T L S N M Q R H F L S Q K E L K A V I E K V K Q K Y N I D I N P

UniRef90_Q7RH73 K N F L G N K D R K K L A I I L K S T F N I E E L L

UniRef90_F4G195 M Q K H V L S Q K D M R E F K N K L K M L Y N I D I N A

UniRef90_K3XN07 D I S G Q N Q V K A S V Q R R I R Q S I A D E Y P S L E P L L D D L

UniRef90_A0RU87 M K S N F V S K S E S N A I L G E I G A A W G I A I P

UniRef90_G8BGL5 Q V K P A A N I K S S D R R K L L S T V C K T Y N L I D E I

UniRef90_W4GD05 L K G K D V K K V R L D L L K S C G D A S F P

UniRef90_W1QJQ7 K S L S N L K S S E R R K L Y A A I C S Q Y G S L V L P

UniRef90_G3B283 K A S A N I K S S E R R K L Y T E I C N I Y P Q E N I P

UniRef90_M3IKA3 Q I K P S S N I K S S E R R K L L S I I G D T Y S I D E L

UniRef90_C3MJX2 M Q R H I M S S K D A K I F I N K I K E K Y N I D I S N

UniRef90_B0D344 C G K G N L K T S P L R S S D R R K L K Q R I E S T F G D I L V P

UniRef90_U1PLS3 M D V K S R H H L R S D E I G E I R T A L S D R L G V S L

UniRef90_R0KQZ3 M K S L F T K V E P F S T S I L G K K D K K T I N N T F K K E V L D

UniRef90_M3B957 P V R S S D R R K L A D Q I T I S E Y G N S L L P

UniRef90_F9CW11 M K S N L I S K S E T A T L L K T V T E K W G M E F P

UniRef90_T0NMF4 M S R H L L S K K D Y R A F M E K L E K F N I D

UniRef90_UPI0002C3D706 L K Q M K A T L A K H A K A K I K E L Y P G L P I D T I E P

UniRef90_Q01GY6 Q P K A S A N I K S S E R R K L L T N I C N I Y P Q Q E I T

UniRef90_Q6BWW5 K N S E R K R L Q A S I R E Q Y E Y E S Y Q

UniRef90_Q74ZX9 G D L K L N R A L E K Q F G T V I

UniRef90_L0HPT9 S S S I K L Q Y L S K K S I K E I L N S V R K E I S E K F I E

UniRef90_E0SQC1 M S K H I L S K K D Y R A F M E K L S A F N I D G T

UniRef90_S0APL4 A F S A K P Q T L K N S D R K K L R S K I Q R F A K L L V P

UniRef90_I4YFE2 S N L K N S E R K K L L Q T F Q K Q T N N E E Y S

UniRef90_E7KAT6 K S Q N Q L K N S E K K K F I N D I R A V F P A L L V S

UniRef90_E0VJD1 V K A S S N L K N S E R K K L L Q S C K E Q R N S S D Y N

UniRef90_G8BYF9 M S R H M I S K K D F K Y I K A R M E S L G I D I S N L

UniRef90_Q8L629 L T L K A S S A V R N S D K R K L R Q R I A S T F A D L L V P

UniRef90_Q6L1X4 S N L K N S E R K K L L Q S C K E Q T G A S D Y N

UniRef90_U7FRU8

UniRef90_W8X5X2

UniRef90_I3TPW8

UniRef90_F6UZY8

UniRef90_M2UI74

UniRef90_F8G8A0 K I K A A E I A V A

UniRef90_U5QNG6 M A S K L E A A R I A

UniRef90_D8LWD7 K S F I K K K D A N E L R N Q L Q A E A D K A V F C

UniRef90_Q5BZG1

UniRef90_I0GYD1 S K L K N S D R K K L V Q S L K A Q L D E D I S V

UniRef90_UPI0003AD55CB S P L R S S D R R K L A D Q I T I A D Y Q V H V P

UniRef90_W9WPJ5 S N L K N S D R K K L L Q T I K T Q L E T Y N F N

UniRef90_G0WGU5 S N L K N S E A K K L L A T C R A Q T G N Q F P

UniRef90_C5DSM7 K I K A A Q V A T Q

UniRef90_R5EWG9 S P L R S S D R R K I A D Q I T I S D Y K I E V P

UniRef90_G7XNU1 L S G K D V K K L S A E A R L A A P E L L L R

UniRef90_R1DXQ2 L K S H Q L S G A D R K K L K R T V K D R F P D S L L P

UniRef90_Q3SJS7

UniRef90_W9S9N6 Q S P L G N K D R K R L R E S L L S E N D A D L L V

UniRef90_A0A023NP12

UniRef90_U6LKD5

UniRef90_K1E590

UniRef90_I3U9J7

UniRef90_D1JIP4 M K T K I Q A A K V T

UniRef90_UPI000476FBE9 K I Q A A K A A T S

UniRef90_R6IIU5

UniRef90_I0I105

UniRef90_UPI0004775ADC

UniRef90_U5NEK2

UniRef90_UPI000363AE17 S D I E K M A D V A A S E F S R G G M

UniRef90_UPI00047793EF K L H A A E V V T G

UniRef90_F6D9I8 Q L I K Q A Q V S R K D I E A M A S P L G G A L G R G G M Y

UniRef90_L8LPW7 M A T K L S A A R I A

UniRef90_H8I513 D V E L I N K A I E D S F G H P D L I

UniRef90_R6A750

UniRef90_G1WK15 K I D A A I I G S A G D S T T S V G G G M I T K I R A S R I L M T

UniRef90_UPI0002C55B37 V K S N T A I K G S D R R K L Q A D V T T A F P T L L V P

UniRef90_UPI0003673F79

UniRef90_J9E002 K L E A A R I A T D

UniRef90_C6M659

UniRef90_B9KC19 I R S K I E A A L M A

UniRef90_K9XVL6 M A T K L A A A R I A

UniRef90_UPI000406D4FE

UniRef90_J7L4B6

UniRef90_Q8RAE6 K I Q A A K I C Y N

UniRef90_G4CKQ1

UniRef90_V4YKA2

UniRef90_B2IE43

UniRef90_A6WDM8

UniRef90_E1R016

UniRef90_K9T5S7 M A T K L S A A R I A

UniRef90_K9TWJ4

UniRef90_N6VDZ8

UniRef90_BOJFY2 M A T K L A A A R I A

UniRef90_UPI0004777B66

UniRef90_UPI0003646A4D

UniRef90_UPI00046FCCB0

UniRef90_A0A031LUP2 E K A E L G K E K K Q 50 I F F F F D G K L S L F 70 S E E L T P T L 80
UniRef90_Q7RH73 D K E D A S I C K V Q K K K I T I Y F S K N N P V L V S I N N L I F P T V
UniRef90_F4G195 N K I E I G K D K K R V E Y F L D D V L C F F F D D K L I P T L
UniRef90_K3XN07 K K S P M I V V K C Q N H L N L V V V N N V P L F F N I R D G P Y M P T L
UniRef90_A0RU87 K T R N L R V H E V A G A Q L I V G D G F K A L K A G D D S Q L Y P S L
UniRef90_G8BGL5 A K E G L D I S K K A T F T S P V L T I Y F D S N E P T W F Q T R D S Q L Y P S L
UniRef90_W4G0D5 A K A E I V K I K L A A P S R T V L T F T D A D S N V L A F D R G K G D V V P S V
UniRef90_W1QJQ7 P E V K Y A A F K S P H A Q G T L Y T L E G V P I W F R T R D S E L L Y P S L
UniRef90_G3B283 K E L S L I S I V K Q A T F K S I Q T I Y F D E N E P L Y F K S R N S Q L Y P S L
UniRef90_M3IKA3 T K E E I S I V K K A T E K V I G S V Y F D E N E P W F H T R D S E I Y P T I
UniRef90_C3MJX2 A K L E V G K E K K E T W Y Y V N D I L A F F D D D L I P T L
UniRef90_B0D344 D G I L S L K F S T H L N E P G V L S P E G D P I W F T V G R G E L I P T I
UniRef90_U1PLS3 D G D A F E L V E L T D T P F D L V L V D G N P D V L Y V D G D P F V T V
UniRef90_R0KQZ3 K N N D Y K L M K C K N K T L I I I F E G K G I L F Q T S G K Y Y P T V
UniRef90_M3B957 D N A Q S A R F E L K Q A S G T V Y I L G S Q D G E E I L W F D I D K R Y L P S V
UniRef90_F9CW11 K I K N L K V H E I A D D A Q I I M G Q G I K I L K I N D E Y L P F L
UniRef90_T0NMF4 G T S M A N I E V E I N K K N E V Y Y F S G K P I F Y N G I P T L
UniRef90_UPI0002C3D706 K D V P I N C A N S K L D H S T A M L V N D K V Y F F Q H K S D V F V P T L
UniRef90_Q01GY6 K S T L E C V K M T N K A I V Y L I D G V P M F F D A R G D G V Y P S V
UniRef90_Q6BWW5 K E C E H D I L P V I T T K Q A S F T I Y C D E N E P I W F K S R D S Q I F P S L
UniRef90_Q74ZX9 F S S E I L K H G T F K T Q S T V G T V Y T D N N I P L W F R K H D Q T Y I P T V
UniRef90_L0HPT9 R D H L V L F N R V P H Y R M D E I I V D G K V I R Y D I N E G F K M A L
UniRef90_E0SQC1 F L Q N A E D V K M G Y T E D F E I Y V F D A I P A L F R V K D K I Y I P T L
UniRef90_S0APL4 S M A D I E V E T N K K N E V Y Y F S G K P V F Y N G M P T L
UniRef90_I4YFE2 D V V S S M K I K T Y N D E N G L V Y S A Q N N D P L W F T V S E D E L I P S V
UniRef90_E7KAT6 F R S T I K Q T N F N G Q K S V G T V Y T D E N N P I L F E K H K E Q L F P T V
UniRef90_E0VJD1 S K E N I I K T R L L T K E E E V D I Y S I N K I P M F I E I S N N I L K L P T V
UniRef90_G8BYF9 P S S I K Q A N Y K G Q T S A G T V Y T D E N V P L W F E K H S D M L F P S V
UniRef90_Q8L629 S D L E V E Q L K N S T I Y Y S N M P V I Y N D I P T L
UniRef90_Q6L1X4
UniRef90_E2LNN2
UniRef90_A1CPK4
UniRef90_D8QDE8 D N I Q S T N F R S H N N A P G V L Y L D A D G T P L W Y S L G K G E L I P T V
UniRef90_G8ZX63 F S T S I K Q T N Y K G Q H S D G T V Y T D N N V P I W F K E K H G E L F P T V
UniRef90_U7FRU8 K T K I D A G K I A T A A G T S M V I T S G K E L N P L Q R L D G T W F P A L
UniRef90_W8X5X2 I I A S G R E P A V L Q R L A S G E P I G T E L R A V L P V R S A
UniRef90_I3TPW8 H V G P I S A V E A G G R A T W F D P E T T P H T A
UniRef90_F6UZY8
UniRef90_M2UI74
UniRef90_F8G8A0 G G V N M V I A S G E D P K I L L E I I L G D D I G T L F A K N N K K E I T A
UniRef90_U5QNNQ6 A M A G V T T V I T E G S T P Q N I V R I L A G E G T R F R L S G P R G R A S L
UniRef90_D8LWD7 S S D K I E L L R F K T G V C V Y K D K T G E P L I I L T K E G R Y Y P T I
UniRef90_Q5BZG1 K T K D V Y R L K V T T A S D K V N I Y K F G N I P L I E N E K E Y L P S I
UniRef90_I0GYD1 D V G T L F E A A S S R P A A
UniRef90_H2AR42 A G D S I M Q T N F I S T T A A G T I Y T S N S I P I M F K K H S D T L Y P T S
UniRef90_UPI0003AD55CB D R V G T L F H P A E G R R M S T
UniRef90_W9WPJ5 T L E E I D S A R F T T H A G P H T V Y V G E E R I L W I Q Y K D A R L Y P T V
UniRef90_G0WGU5 N S N I I K Q T N F Q T T N P S T I F T N D N I P I W F K K H N D L Y P T V
UniRef90_C5DSM7 T G V I K Q T N F Q A Q S G I G T V Y T A D N K P I W F K K H G N L Y P T V
UniRef90_R5EWG9 A G V E M I I A S G E N P S I I L E L V H G Q G N A T F F R P S K K P V L A
UniRef90_G7XNU1 Q S A P V E T A R F T T A G P Q T V Y V A D E R V L W F R V D D G R L Y P T V
UniRef90_R1DXQ2 K G A D V V Q R R T A G G L V R I I D C D R V P V L F E L G S S G L P T L
UniRef90_Q3SJS7 V I C S G R E P R V L L R L A E G E P I G S Q L V A R Q A P L I A A
UniRef90_W9S9N6 P K A E I T V A K F Q N R V H V Y S V E A F P V F F D I R G N E I F P T V
UniRef90_A0A023NP12
UniRef90_U6LKD5 P K E G V T L I R L N T S A N K C T L F S V G D I P Y L A E V N G V L F P T V
UniRef90_K1E590 L A G E D V G T V F H P Q R R S R G S
UniRef90_I3U9J7 T T I I A S G R E E R V L E R L G Q G E A I G T E L R A S P S L R S A
UniRef90_D1JIP4 M K A G I P M V I A N G G E E N I L M R I I E G A P V G T L F I P K R V R M N D
UniRef90_UPI000476FBE9 S G I H L A I A R G A T H S G I P V V L T L A G Q P V G T L F H R Q R R R P A S
UniRef90_R6IIU5 A G V D V V I A A G S E P N V I L R V V A G E A V G T R F P A L
UniRef90_I0I105 F A A D G R G T F P A A G G S G A
UniRef90_UPI0004775ADC V I A C G R E H N V L I R L C D G E A M G T F L H A T T P K Q Q A
UniRef90_U5NEK2 K T K L D A G K I A N S A G T A M I I T S G K N P L F F A A S E K P V N A
UniRef90_UPI000363AE17 S G E M M V L A N G T E P Q V V S R I L A G E K I G T L F L P Q E R M S G
UniRef90_UPI00047793EF T K V M A A K R A R S G T A T L I A S G R E P K L F A G E D P D L E P M A
UniRef90_F6D918 T S A G V R T V I T Q G K Y P E N I L K I L Q G E P I G T Q F E P A S R G E R A
UniRef90_L8LPW7 P R D K L V V L N K A P Y E D R L D E V F V D G R A V R F D P F R L K W T F M P
UniRef90_H8I513 S G I D M I I A K S D E K E V L L R I M D G E E I G T L F R G E N V H P Q L
UniRef90_R6A750 A G I A S V I C S G A E E N A L V R L A S G E S V G T L F V P P A D R L E I A P
UniRef90_G1WK15 G K E E L N T A V K L Y A H R G D V T V Y V C G G N P I L F E L E K N L Y P T V
UniRef90_UPI0002C55B37 K T K I D A A K I A T S A G T V M A I A S G K R M S P L R A I D E T W F A T A
UniRef90_UPI0003673F79 A G A S M I L A S G Q D L H P I R N I L D G K G K S T L F S S K A S P R T A
UniRef90_J9E002 S R C G V K V T I C N G N D L S N L T R F V R G E G T V F E P R E I L R A
UniRef90_C6M659 T S S G V R T V I T Q G K Q P Q N I L Q I I Q G E P L G T Q F E P Q S R A D N A
UniRef90_B9KC19 T S S G V R T V I T Q G K Q P Q N I L Q I I Q G E P L G T Q F E P Q S R A D N A
UniRef90_K9XVL6 T S S G V R T V I T Q G K Q P Q N I L Q I I Q G E P L G T Q F E P Q S R A D N A
UniRef90_UPI000406D4FE T S S G V R T V I T Q G K Q P Q N I L Q I I Q G E P L G T Q F E P Q S R A D N A
UniRef90_J7L4B6 V D S A R I A T E A G V P T V L T S E R V G T F F A P A D G R R P S A
UniRef90_Q8RAE6 S G V K M V I A N G K I D N V L N R I A A G E K I G T T F L P M K N P I S S
UniRef90_G4CKQ1 V V A S G R E T D I L L R L A E G E G T L F T P A Y S R L N A
UniRef90_V4YKA2 V I A S H E T D V L L R L C K E G E P I G T W L M A Q T G K N Q A
UniRef90_B2IE43 I E A A K I A T T G G T H M V I A D G R V T W F L T G S N P V T A
UniRef90_A6WDM8 G R A R S T
UniRef90_E1R016 E G V G T R F E P S D G S A P E S A
UniRef90_K9T5S7 T S A G V R M V I T R G R Q P E N I E K I L R G E P I G T Q F E A Q P R T E N A
UniRef90_K9TWJ4 V R T V I T E G R F P H N L E K I I Q G E P L G T Q F A P Q L Q P T N A
UniRef90_N6VDZ8 K T K L D A G K I A N S S G T A M V I T S G K N P L F F A P S K K P V N A
UniRef90_BOJFY2 T S A G V E M A I T R G R Q P G N I L K I M A G E A I G T R F E A Q K R S D N A
UniRef90_UPI0004777B66 G E P V L F T A S S K R P T A
UniRef90_UPI0003646A4D L I A S G R E T D P L L R L A T G E A L G T L L Y A S S T P L A A
UniRef90_UPI00046FCCB0 I I A S G R E T D V L T R L A Q G E L I G T H L S A G Q V K T L A

UniRef90_A0A031LUP2
UniRef90_Q7RH73
UniRef90_F4G195
UniRef90_K3XN07
UniRef90_A0RU87
UniRef90_G8BGL5
UniRef90_W4G0D5
UniRef90_W1QJQ7
UniRef90_G3B283
UniRef90_M3IKA3
UniRef90_C3MJX2
UniRef90_B0D344
UniRef90_U1PLS3
UniRef90_R0KQZ3
UniRef90_M3B957
UniRef90_F9CW11
UniRef90_T0NMF4
UniRef90_UPI0002C3D706
UniRef90_Q01GY6
UniRef90_Q6BWW5
UniRef90_Q74ZX9
UniRef90_L0HPT9
UniRef90_E0SQC1
UniRef90_S0APL4
UniRef90_I4YFE2
UniRef90_E7KAT6
UniRef90_E0VJD1
UniRef90_G8BYF9
UniRef90_Q8L629
UniRef90_Q6L1X4
UniRef90_E2LNN2
UniRef90_A1CPK4
UniRef90_D8QDE8
UniRef90_G8ZX63
UniRef90_U7FRU8
UniRef90_W8X5X2
UniRef90_I3TPW8
UniRef90_F6UZY8
UniRef90_M2UI74
UniRef90_F8G8A0
UniRef90_U5QNNQ6
UniRef90_D8LWD7
UniRef90_Q5BZG1
UniRef90_I0GYD1
UniRef90_H2AR42
UniRef90_UPI0003AD55CB
UniRef90_W9WPJ5
UniRef90_G0WGU5
UniRef90_C5DSM7
UniRef90_R5EWG9
UniRef90_G7XNU1
UniRef90_R1DXQ2
UniRef90_Q3SJS7
UniRef90_W9S9N6
UniRef90_A0A023NP12
UniRef90_U6LKD5
UniRef90_K1E590
UniRef90_I3U9J7
UniRef90_D1JIP4
UniRef90_UPI000476FBE9
UniRef90_R6IU5
UniRef90_I0I105
UniRef90_UPI0004775ADC
UniRef90_U5NEK2
UniRef90_UPI000363AE17
UniRef90_UPI00047793EF
UniRef90_F6D9I8
UniRef90_L8LPW7
UniRef90_H8I513
UniRef90_R6A750
UniRef90_G1WK15
UniRef90_UPI0002C55B37
UniRef90_UPI0003673F79
UniRef90_J9E002
UniRef90_C6M659
UniRef90_B9KC19
UniRef90_K9XVL6
UniRef90_UPI000406D4FE
UniRef90_J7L4B6
UniRef90_Q8RAE6
UniRef90_G4CKQ1
UniRef90_V4YKA2
UniRef90_B2IE43
UniRef90_A6WDM8
UniRef90_E1R016
UniRef90_K9T5S7
UniRef90_K9TWJ4
UniRef90_N6VDZ8
UniRef90_B0JFY2
UniRef90_UPI0004777B66
UniRef90_UPI0003646A4D
UniRef90_UPI00046FCCB0

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

UniRef90_A0A031LUP2 C E N K P G D I T L V K T T A E R P I A V M K M L I T V E E A L S T K
UniRef90_Q7RH73 D K L K P G A I W G V R V F N N P Y I F A V G E C C V E Y N N N N N M K N Y T S
UniRef90_F4G195 G N L L P G S L I V V K A R Q G Q P V A V M M G T G E M I E A L S S R
UniRef90_K3XN07
UniRef90_A0RU87 A E F G L G D I V V C V V E E S Q H K F I A V G R S L A T S S E G E A M K
UniRef90_G8BGL5 K R A V K N A V V G I V V S K E K P N V I A V G G V C R L N L T Q F D Y V V G R
UniRef90_W4GD05 H P F L K G Q L R A V V Y V H G N P M P F A I G G D M L V D A E T L V A V Q G W
UniRef90_W1QJQ7 E G A K R G K V V A V G D Y K K N V A V A V G Y C Q M D L G G V T D V V G T
UniRef90_G3B283 H R I A S G T V V G V A G S D A P S V I A V G G L A K M D L R N L S K T V G T
UniRef90_M3IKA3 K R A T R G A I V G V V T E D P G K V T A I G H C K L N L P Q F D N V V G R
UniRef90_C3MJX2 C E C K E N D I I L A K T K T N Q P V A V L R V L M S K D K A L V E K
UniRef90_B0D344 P S L V E G G L V A I R Q Y T R E N E L A V G R M A L P S S D Q L R D G G K E
UniRef90_U1PLS3 D D I L S P G E L V P I A E E S H G K V L A V G R A L V D G A
UniRef90_R0KQZ3 D D F K R G S P V V I K L T N G S V V L G I G N S L V D K K N I G E S T
UniRef90_M3B957 S R A K K G A I V A I A G E D R P S V P I A V G G C E I D V G A L E Q V R G A
UniRef90_F9CW11 E F E K E K L V C I V E E S Q H K F L A V G G K S L V S S A E L E E M E
UniRef90_T0NMF4 M N I K K G D M V F I K N S E G L Y I A I G K A N E D S S D V I M A N K
UniRef90_UPI0002C3D706 D G I L K E G E F V L I M A E E G K S N P I A I G Q M K L S S D A E K K V K T
UniRef90_Q01GY6 E E W E S N E I V E I G I V D G S D A F A V G G T A C S S D E A R A S G M
UniRef90_Q6BWW5 D R A V K G A V V G V V D S Q N P T V I A I G R C K L N M T E F D R V I G R T
UniRef90_Q74ZX9 S G T R R G R V V I G I A S T R A P G V V A V G G C E M D L E G V T T V A D T
UniRef90_L0HPT9 E D I K I G D E I I V R D S S G R A V A V V G I A K M S S E D M E N A S
UniRef90_E0SQC1 Q M F K K E D I V G V L E P Q E K Y F I V V G L A L I D S N N I V I G G R
UniRef90_S0APL4 P N I K K G D M V F I K N M E G L Y A I G G R A N D S S G D A L M S S R
UniRef90_I4YFE2 P D V K E G E L V A I A E H G N L A P V C I V G K T A I P T S R M T L D A
UniRef90_E7KAT6 P R C K I G T L C G I A S Q A P E T V L A I G I V E L D L P S F D K V I G E T
UniRef90_E0VJD1 L N F K K Q N P I A V N L V D N K A V M A V G L S L V N K D D L D P I K N K E
UniRef90_G8BYF9 E R L I C G A L C G I A S Y K K P N V V A I G L I V Q L D L Q S Y T K V V G E T
UniRef90_Q8L629 Q G Y P A G E I W A V K V P G N L A P I A V G C T T M S S E E A R K A G L
UniRef90_Q6L1X4 M S M K K G D L T Y I A N K K N Q F I A V C R L T D D A E N I M K E R
UniRef90_E2LNN2 E A L P A G A P V A I F A E G K N A V G I G I T K L G T E E M R K I N
UniRef90_A1CPK4 E R A V K G A T V A I A G L D H T V P L F V G I C E I D I A G L G E V Q G T D
UniRef90_D8QDE8 P G L Q V K Q L V A L R S A P P S P Y A I G R V L Q S L D G P A A A S Q K K D
UniRef90_G8ZX63 E R C K P A K V C G I A S T D P K V I L A I G V V Q L N L P S Y S S V I G Q P
UniRef90_U7FRU8 G S F S R G D A V T L L N P E G R V I L G R G L I A Y D A D E A Q L I A G R N S
UniRef90_W8X5X2 G E F E R G D V V A C V D E H G V E C G R G L I A N Y S S A D T A R I L R Q P S
UniRef90_I3TPW8 G R F Q R G D A V A V V D P A G R E I A R G L A Y G D A D A R A I L A G H R S
UniRef90_F6UZY8 P Q V Q Q G D L C A I T L V G S R A P V A I G V A T M S T D E M L A S R L
UniRef90_M2UI74 R H A T K G A L V A I A S E A P S V P M A V G E C I V D V S A L G S T Q G G A
UniRef90_F8G8A0 G D F A K G A T V V V C S E D T Q E I A T G L V N Y S S S D L L A K I K G H K S
UniRef90_U5QNK6 G N F E A G A L V R L T D T G G H E F A R G L V N Y S S S E L A K I R G H N S
UniRef90_D8LWD7 A Y L T N Q E V V C I A S T E N N P L P F A V G Y L S V N N F Q E A G
UniRef90_Q5BZG1 N K I S K D V L C C I S T V S N R A P I G R T A M S N Y D M Y M S A G
UniRef90_I0GYD1 G S F A A G D P V D L V D A G S G T P V A R G L V N Y D A V I E L P A L L G R S T
UniRef90_H2AR42 S T L T I G T L C A V A T E A P D V A I A V G I V K L N L D P E Y P Q V L G K T
UniRef90_UPI0003AD55CB G D F A A G D P V D L C D T G R G R V A R G L V N Y D A S E I P Q D L M G R S T
UniRef90_W9WPJ5 E S A K T G S V V A V A G L K K P V P L W V G I C K I D V S S L G R V V G Q G A
UniRef90_G0WGU5 S R L T P G T L C G I V Q D P K R I V W A I G V V K M N M P S Y F D K V V G E T
UniRef90_C5DSM7 S R L K P G T L C G I A S K N P D V M A V G V V Q L D L P S Y D S V L G K T
UniRef90_R5EWG9 D E F L R G A T V L V K D Q K G N V I A R G I T R Y S S D E L N L I K K K S S
UniRef90_G7XNU1 P F D E R A V K G A V V A N H T V P L F V G V C E I D I S A L G E V Q G T
UniRef90_R1DXQ2 A A L P A G A A C V R I F N G N P S A V A V G V L A V P G A A V A E A V R S P G
UniRef90_Q3SJS7 G F E R G E V A V V D A S G R E I A R G L T N Y S A A E A R R I A G K P S
UniRef90_W9S9N6 P S F S A G E P W A V K V P G N P A I A V S Y L K F N A F E L P K L E S V
UniRef90_A0A023NP12 G E F H R G D L V E I V D E A G R P V A R G L S Q Y G V A E A R R L A G K H S
UniRef90_U6LKD5 Q A V A C G A L W A V R V A G T P L P F A V G R A A A G A P S V A L L G D
UniRef90_K1E590 G S F V D G D P V D V V G P D G A V T A R G L V N Y T S G E L P H L M G R S T
UniRef90_I3U9J7 G E F E R G D V V A C T D Q G H R E I A R G L T N Y S S A E T R R I M R H P T
UniRef90_D1JIP4 N E F M S G D P V S I V D A K G V I E F A R G I T N Y S S S D I E K I K G A Q S
UniRef90_UPI000476FBE9 G T F A A G D P V D L V D P A G N A V A R G L V N Y D A A E L P A L L G R S T
UniRef90_R6IU5 G Q F E A G N T V S V I V D M A G H E L A R G L S H Y S S A E L E K I K G A K T
UniRef90_I0I105 G N F L R G D T V L I L D N A R R E L A R G I V S Y T A D A E L R K I A G C R S
UniRef90_UPI0004775ADC G V I F D R G D V V D I L G P D T G H A I A R G L S E Y D A D E A R M I A G R R T
UniRef90_U5NEK2 G R F S R G D V I A I Q D Q T G A E V A R G L S N Y S S A E A R L I A R K P S
UniRef90_UPI000363AE17 G R F S R G D T V S I V D A N G V I E I A R G L V N Y D K D E A A R I T G R K S T
UniRef90_UPI00047793EF G S F N H G D T V S C R D E D Q G T E L A R G L V N Y N T H D L K R I M G K Q T
UniRef90_F6D918 G Q F K R G D M V Q C V D Q Q G E E I A R G L V N Y S S S E I E Q L K G Q Q S
UniRef90_L8LPW7 G N F A A A D S V Q L C N Q Q G E E I A R G L V N Y S S S E I E Q L K G Q Q S
UniRef90_H8I513 E D I K I D D E V I V F L E G R P I A V G R A K M T G A D M R E R K
UniRef90_R6A750 G A F S D G D T V A V F E N Q E L A R G L S H Y S S E D V Q K I M G H R T
UniRef90_G1WK15 G S F S T G D V L D I R D R D G F V I A R G R A E A G S D E L E L A R G R R Q
UniRef90_UPI0002C55B37
UniRef90_UPI0003673F79 G G F S R G D T V K I T A P E G R V L G R G L I A Y D A A E A R M I A G R N S
UniRef90_J9E002 G D F E R G D C V A I L S P D N V E I A R G L V E H S S G S A A Q I I G K Q T
UniRef90_C6M659 G H F H R G E L V A I L D T D G K E L V I A R G L T N Y S S S D E T A K I I L Q T P S
UniRef90_B9KC19 G N F D V G D V E I V D N E K G E L V I A R G I V N Y S S S D L E K I S G H R S
UniRef90_K9XVL6 G D F V A S D A V Q L C D G E G R E I L A R G L V N Y S S S T E I T Q I K G H H S
UniRef90_UPI000406D4FE G S F R R G D P I A V K D G D G R V L A R G L S A Y D S D D A D R I R M G H K S
UniRef90_J7L4B6 G E F S A G D P V D L R D E S G R A V V A R G L V N Y D A A E A V P D L M G R S T
UniRef90_Q8RAE6 G Q Y D V G D C V A V V D H Q G R E I A R G L V N Y S S E E V E K I K G C K T
UniRef90_G4CKQ1 G Q F H R G E L V A V L D G Q G R E I A R G L A N Y A S G E T A K I L R T P S
UniRef90_V4YKA2 G D F S R G D V I A V L N Q Q G T E I A R G L A N Y A S V I E A R L C K K S S
UniRef90_B2IE43 G H F A R G D C V L I R D P Q G A E I A R G L T A Y D A S D A I L L A G R N S
UniRef90_A6VDM8 G R F R A G D P V D L V D P G N G H A L A R G L V N Y S S E E L P D L L G R S T
UniRef90_E1R016 G D Y A A G D V V N V M A P D G V L V A R G R I V N Y S S E E M V R V H G L K
UniRef90_K9T5S7 G D F V A S E A V Q L C D A G G K E I A R G I V N Y N S A E I E L I K G H H S
UniRef90_K9TWJ4 G E F D S Q D A V Q I C D E S G K E V A R G I V N Y S S S E L Q N I R G R H S
UniRef90_N6VDZ8 G V I F S R G D T V A I V D E S G V E I A R G L V S Y D K D E A V S I I G R K N
UniRef90_B0JFY2 G E F S A S E S V Q L C D E Q E G R E L A R G I V N Y S S E E I D R V K G Q H S
UniRef90_UPI0004777B66 G E F S A G D P V D L C C D E D P Q G R T V I A R G L V N Y D A A E T P M I M G R S T
UniRef90_UPI000364A4D G D F S R G A V A C C C D E D Q G N E I A R G L V N Y D S A E T R R I A H H G S
UniRef90_UPI00046FCCB0 G N F E R G E V A C V D I S K E I A R G L V N Y S A L E T A R I L R K P S

	170	180
UniRef90_A0A031LUP2	K G K F A Q S L H F L G D E I W K M C	
UniRef90_Q7RH73	K G K L K L V H T F T D E L W K L G S	
UniRef90_F4G195	K G R V A T S L H W I G D E V W N M C K S	
UniRef90_K3XN07		
UniRef90_A0RU87	K G E I V K N L H Y I S D K Y W N A A K E T G	
UniRef90_G8BGL5	S G M A V E I I H H F D D E L T K L N K E I	
UniRef90_W4G0D5	K G K A M Q L L H V V F D E L S K L N P Q S L	
UniRef90_W1QJQ7	H G V A V E I M H V Y Q D W L F T L	
UniRef90_G3B283	S G V A V E V L H H I D D K L	
UniRef90_M3IKA3	S G V A V E I I H H L N D T L	
UniRef90_C3MJX2	R G K F A I N L H H V G D T I W E M C	
UniRef90_B0D344	K G K A V Y V V H T W K D R L W E M G S K P	
UniRef90_U1PLS3		
UniRef90_R0KQZ3	S G E A I D V L H H S G D D L Y K	
UniRef90_M3B957	K G H A V E N M H W Q G D E L W N Y S T A T K	
UniRef90_F9CW11	K G E V I K N M H Y I S D K F W E I G K T I	
UniRef90_T0NMF4	K G E A V E I L H Y L N D R I M K	
UniRef90_UPI0002C3D706	G V A I A M Y Q F A G D G M W	
UniRef90_Q01GY6	K G V G V T L V H A Y G D A C W A L G D K	
UniRef90_Q6BWW5	G T A V E V I H C L H D E L Y N L N K	
UniRef90_Q74ZX9	T G V A V R V L H T Y G D G L C R	
UniRef90_L0HPT9	R G V A V K I R H	
UniRef90_E0SQC1	K G K C I A N I S R L D D K I W R A S L Q L A K	
UniRef90_S0APL4	K G E A V E I L H Y L N D K V M K	
UniRef90_I4YFE2	T G K A V L I S H S I N D A L W L A G S Q P K	
UniRef90_E7KAT6	G V A V K I I H H F N D G L	
UniRef90_E0VJD1	I G K L V K I Y H I A G D Y L F K	
UniRef90_G8BYF9	G V A V N V L H Y L G D G L	
UniRef90_Q8L629	R G K A L R I T H Y Y R D F L W E S A E	
UniRef90_Q6L1X4	K G I A A E N L H Y L N D N I	
UniRef90_E2LNN2	K D V G V E T V T Y L G D D L W A I	
UniRef90_A1CPK4	K G H A V R G I H W E G D E V W A W S S S S	
UniRef90_D8QDE8	T I A I L H T W K D C L W E M G P K T A	
UniRef90_G8ZX63	G I A V K V M H Y F T D G L C Q	
UniRef90_U7FRU8	R E I E A E M I H R D D L	
UniRef90_W8X5X2	A R I A E I L G H L S D	
UniRef90_I3TPW8	R G R D E M I H R D D L	
UniRef90_F6UZY8	K G R G F T V L H T Y L D H L W Q S G D K S A	
UniRef90_M2UI74	K G H A V S T I H W A G D E L W S W S	
UniRef90_F8G8A0	Y N I A N I L G H C	
UniRef90_U5QNNQ6	Q Q I A A	
UniRef90_D8LWD7	K G R V I E I I H T V Y D S L Y E	
UniRef90_Q5BZG1	K G K A V S V L H V M G D H L C S L V S S L S R	
UniRef90_I0GYD1	P E L A A E V V H R D D L	
UniRef90_H2AR42	G V A V E I L H H F E D A L F S	
UniRef90_UPI0003AD55CB	R W L A R E L I H R D H L	
UniRef90_W9WPJ5	K G A A V E G V H W E G D E I W S W S Q	
UniRef90_G0WGU5	G V A V E V I H H F E D E L F K I	
UniRef90_C5DSM7	G V A V Q L V H Y L P D G L	
UniRef90_R5EWG9	S S I E N T L G F T H G D E	
UniRef90_G7XNU1	K G H A V R G L H W E G D E L W A W S S S S K	
UniRef90_R1DXQ2	K G T A L Q V E H V V G D A L W R L A	
UniRef90_Q3SJS7	T A I E A E L G Y M D E	
UniRef90_W9S9N6	E G H Y V P N A G F L E D	
UniRef90_A0A023NP12	R D I G A E V V H R D D L A T L A D	
UniRef90_U6LKD5	K G R A L E L I H H L G D S L W K H G K H V	
UniRef90_K1E590	K E L A A E V I H R D H L	
UniRef90_I3U9J7	R E I	
UniRef90_D1JIP4	S A I	
UniRef90_UPI000476FBE9	R G Y D R E L L H R D D I	
UniRef90_R6IU5	S E I E D K I G H K N Y D E	
UniRef90_I0I105	D E I E T I L G Y T Y G D	
UniRef90_UPI0004775ADC	S E L A D I L G H	
UniRef90_U5NEK2	S A I	
UniRef90_UPI000363AE17	R E I	
UniRef90_UPI00047793EF	S E I E K V L G Y Y	
UniRef90_F6D9I8	T K I A E I L G Y V D D E	
UniRef90_L8LPW7	A K I A S V L G Y L	
UniRef90_H8I513	K G V A V K V	
UniRef90_R6A750	E G	
UniRef90_G1WK15	D E I A	
UniRef90_UPI0002C55B37		
UniRef90_UPI0003673F79	R E I E A E M I H R D D L	
UniRef90_J9E002		
UniRef90_C6M659	E R I A E K L G Y A H E D E L	
UniRef90_B9KC19	S D L K K I L G Y E G D N M W	
UniRef90_K9XVL6	E K I A Q I L G Y E G	
UniRef90_UPI000406D4FE	R E I E T E M L H R D D L	
UniRef90_J7L4B6	R W L A R E M	
UniRef90_Q8RAE6	H D I E S I L G Y K Y Y D E	
UniRef90_G4CKQ1	E Q I A A R L G Y V S E D E L	
UniRef90_V4YKA2	S	
UniRef90_B2IE43	K D I	
UniRef90_A6WDM8	R E L A R E V V H R D H L	
UniRef90_E1R016		
UniRef90_K9T5S7		
UniRef90_K9TWTJ4	R E I A	
UniRef90_N6VDZ8	E E I A	
UniRef90_BOJFY2	E R I A	
UniRef90_UPI0004777B66	R W L A R E M	
UniRef90_UPI0003646A4D	G D I E V E L I H R D N L	
UniRef90_UPI00046FCCB0	S E I E H L L G	

UniRef90_I7ARR7
UniRef90_Q9KPT8
UniRef90_L7U4D6
UniRef90_G8PNW0
UniRef90_V5FD54
UniRef90_E1YHF7
UniRef90_I3IRC4
UniRef90_Q1QQT9
UniRef90_B6AEC6
UniRef90_F7NHR2
UniRef90_A9WAX2
UniRef90_Q8DH42
UniRef90_F5R797
UniRef90_D4X4E3
UniRef90_W9UTJ1
UniRef90_I4W918
UniRef90_R7B2N3
UniRef90_E6S718
UniRef90_Q2J3J7
UniRef90_C4GGM9
UniRef90_UPI00029A3374
UniRef90_K2J0R1
UniRef90_Q648U0
UniRef90_D7CLA5
UniRef90_M2XC73
UniRef90_C7Q8B0
UniRef90_L0KWT7
UniRef90_F7XKE2
UniRef90_UPI000375DC34
UniRef90_G6XIJ5
UniRef90_W3RN08
UniRef90_S6BWF1
UniRef90_C5GV56
UniRef90_UPI0003B55E86
UniRef90_Q2S355
UniRef90_F8EST0
UniRef90_I0HX51
UniRef90_Q9V229
UniRef90_E9UTU3
UniRef90_K9UH14
UniRef90_R6AGG8
UniRef90_D7BBQ5
UniRef90_UPI00047A0F50
UniRef90_Q0V382
UniRef90_Q2RKZ7
UniRef90_Q7NQC8
UniRef90_V5SFE9
UniRef90_T0LPK1
UniRef90_W1S6Q4
UniRef90_F5RMC7
UniRef90_R7CMV1
UniRef90_UPI0004766196
UniRef90_C9RAT1
UniRef90_C9KQ52
UniRef90_UPI0004073CD9
UniRef90_E3BL11
UniRef90_Q47AC9
UniRef90_D3RVR3
UniRef90_B3E610
UniRef90_G2DS60
UniRef90_UPI0003710022
UniRef90_Q7NPI6
UniRef90_B0C1B5
UniRef90_Q5BEI6
UniRef90_UPI00047BC505
UniRef90_B0UMS7
UniRef90_A0A037ZKT6
UniRef90_B8HQP9
UniRef90_K4LW11
UniRef90_K0Z7Y0
UniRef90_UPI000471F9B4
UniRef90_UPI00030D8C96
UniRef90_F2R2A6
UniRef90_UPI00036D0BF3
UniRef90_UPI0004703932
UniRef90_C5FEL8
UniRef90_A8L1V5
UniRef90_Q89X86
UniRef90_K5YXQ0
UniRef90_UPI00036A54E4
UniRef90_E4ZZY5
UniRef90_UPI00047C7207
UniRef90_K9XAG5
UniRef90_B5H778
UniRef90_W6K159
UniRef90_A5G907
UniRef90_UPI0002559D04
UniRef90_UPI0003631E08
UniRef90_D5X590
UniRef90_Q5FUL1
UniRef90_G8QM70
UniRef90_D0I7J7

1

10

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

UniRef90_I7ARR7 K N E A Y M I H R C K N K V S L 60 V L G V A L L F 70 F F N R K Y F P T I 80
UniRef90_Q9KPT8 R R A G I E V I I A A G R A P N V I F D S L S D E P T R F L A L E E A L E N
UniRef90_L7U4D6 A G G K V R A A S S A A E S Q G L R S V I T S G A E P T L F E E P T G A R R G S
UniRef90_G8PNW0 K T K I D A A K I A Q S A G T M I I A S G K T L N P L D A I E N T W F P R A
UniRef90_V5FD54 R R S G I E V I I A A G S A D N V I L E S V S S S P C G T R F L P L P E S L E N
UniRef90_E1YHF7 A G I P M I I A K G E K P D I L T R L F A G E K H G T F F V P K K G R L S R
UniRef90_I3IRC4 A G E A V I L A N G R T D K V L L K R I V Q G E D M G T L F L P K K E K L A N
UniRef90_Q1QQT9 I E A A K I A T T A G T H M L I A S G K I P L R A V M D G G R W F M T A
UniRef90_B6AEC6 N K E I N L H I S N E S K I E I L D L Y L P T N L P W L F D I G N N L I P S L
UniRef90_U7NHR2 S G V V M V I A S G S R D G V V K D I L A G E S V G T V F L S K E N R L Q I
UniRef90_A9WAX2 T R S G V A V V I A A G H E P D V I V R V A N G E R I G T F F P A T T T H P D A
UniRef90_Q8DH42 T E A G V R T V I A D G R S P T N L L K I L G G E A L G T H F E P R K T I N A
UniRef90_F5R797 I I A S G H E R N V L T R L A Q G E C I G S E L R A V L P V W S A
UniRef90_D4X4E3 V R A A R L A A R S G A V T V I A S G R E P V L V R L K S G E A L G T L
UniRef90_W9UTJ1
UniRef90_I4W918 A G I D M V I C Q G H N S D F L I Q L A E G Q G T R F S P C G T V H D I T P
UniRef90_R7B2N3 I T A A D R I E V L R G G D V G T L F L P I G R R G R S
UniRef90_E6S718 A G T H M L I A S G K I D H P L K A I A G G G P C T W F L T P A N P V T A
UniRef90_Q2J3J7 G A N T V V A S G R E P D V L V R L C A G E S I G T L F T S E F S R V N A
UniRef90_C4GGM9 D G K V V L L N K T A G E S D D V Y E I L L D G Y V V R F D P L G L K W K P G L
UniRef90_UPI00029A3374 R R A G I A V V I A S G H G V D V I G R L V A G E G T R F S P L I E D P L E S
UniRef90_K2J0R1 A G I P M I I A N G G E K N I L S R V I A G E P V G T L F M P K K K R M N D
UniRef90_Q648U0 A G I P M V V A H G A E K N V L R R I L A G E P L G T L F V P K E S R M Q A
UniRef90_D7CLA5 V E A A R I A T E A G I P V V L T S E A V G T L F H R T G S R T P T
UniRef90_F5RC73 A D E R V V V L N K A P Y D D R M D E I V I D G E V I R F E L D T L K W V L L L
UniRef90_C7Q8B0 D A R L V V L N K A P Y D D R M E E I V I D G E V I R F E I E T L R W T L L L
UniRef90_L0KWT7 A G C D M I I A K G T D S N P I S S M G I I N K K T L F K A Q I K D P Q T A R K
UniRef90_F1XKE2 N R A G I H M V I A A G Q A P H I Q R L L E G G L C T W F L A Q T D V G S A
UniRef90_UPI000375DC34 A G A H M I I A S G K I D H P L Q A I A K G R R C T W F M T A A N P V I T S
UniRef90_G6XJ5 L R A A R L A A R S G T V T V I A G G I E P V L T R L A G E A L G T L
UniRef90_W3RN08 A G T P V V I A S G D I P D I L P R L V A G E R H G T R F H P A T T R L E A R K
UniRef90_S6BWF1 S K I E A A R I A T H S G V N L L A I T T G K R P M F L E D G A G T L F T S A
UniRef90_C5GV56 A G S G A S T V I A W G R E P D V L L R L A R G E A I G S A L V A G T P K F A A
UniRef90_UPI0003B55E86 D G K I V L L N K I P G E D D S Y E I I F D G F I S F D P R S L K W R P G L
UniRef90_Q2S355 V K T A I T H G Q F P Q Y I E R I L H G E P L G T Q F T P Q L R A A N A
UniRef90_F8EST0 V I A S G R I P D V L V R L A Q G E S I G T L L K T D R K P M S A
UniRef90_I0HX51 A G I P M L L L P G E D P R S I T R A L Q G E P V F F A G G N K R Y S G
UniRef90_Q9V229 G G A H M L I A D G R V E H P V A R I D A G P C T W F L T G S N P V T A
UniRef90_E9UTU3 E N A D L K Q V I S G T V Y V I G S H E G T S G E Q R I L W V K L F D K M Y P T V
UniRef90_K9UH14 F G I P V V I A S G L Q A G Q I E A V L K G E E I G T L F L P R E H R A H T
UniRef90_R6AGG8 V I A S G R E P H V L S R L A D G E A I G T Q L V A A T N R M A A
UniRef90_D7BBQ5 A G T S M V I A T G H I P H P L R A I T D G C K A T W F L A K Q D P V T A
UniRef90_UPI00047A0F50 T E N Q I E V E E K K G D K L Y Y I S K I P I A L E A P E F Y P T V
UniRef90_Q0V382 A G A H L A I I S G K V D A P L S H W A N G R G S I F V I A A Q G K G A
UniRef90_Q2RKZ7 A G V T M V I A R G N E D G T I R S I L R G E E I G T L F P A R E A H L R A
UniRef90_Q7NQC8 S G I D M I V A K S D E P E I L Y R L V E G E Q L G T L F Y A E N V H P Q L
UniRef90_V5SFE9 S G C T L V I A R A S L P G V I R R V L A G E E I G T V F F P R E K L R E
UniRef90_T0LPK1 A G V N M V I A S G S E E G V L R R I L L Q G E A V G T V F P A R E S H L R V
UniRef90_W1S6Q4 R R A G I E V M I A A G S S A N V I F D A L S D T P T R F L P S E E A L E H
UniRef90_F5RMC7 A I A S G R E T D P L I R L A N G E P V G T L L V S Q T Q P L A A
UniRef90_R7CMV1 V R A A R L A A R S G T P T I I A P G G E Q V L S R I L G A G E S V G T L
UniRef90_UPI0004766196 V T A A K K A A R F G V P T I L A P G K Q P T L F L P A T D G L N R
UniRef90_C9RAT1 V V A S G R E P D V L V R L K Q G E S I G T L F T S E H S R I N A
UniRef90_C9KQ52 S G S K L E A A R I A A S A G V A T V I T E G N T P T R F A L A R P G G R L S L
UniRef90_UPI0004073CD9 T N A G V R T V I T Q G K T P E N I P R I L A G E S L G T Q F Q P H R P H N A
UniRef90_E3BL11 S T E N C L S A R F T T A G Q G T V Y V G D E R V L W F K I D E K R L Y P T V
UniRef90_Q47AC9 I A D A D A V R L L G A P G V P T W F L P T G P R R P S R
UniRef90_D3RVR3 L A D G N A T W F L P R E D P Q A A
UniRef90_B3E610 G E A G V R T V I T E G R S P V N I E R I L I A G E A L G T Q F E P Q P R P I N A
UniRef90_G2DS60 A G I P M V I A G G M Q R G N L A A I L Q G K R V G T L F V P C E E T M K A
UniRef90_UPI0003710022 A G I P L V I C H G R A E D A V R S L A E N P I L F T A K E R R H E I T P
UniRef90_Q7NPI6 I V I S G R E P D V L R R L F E G E E I G T C L E P G Q A P L Q A
UniRef90_B0C1B5 A G A H L A I T D G R V A H P L A R L A E E G R G T L F L A Q K G A A A
UniRef90_Q5BE16 I D A G K I A T T S G C A M I I A S G K T P L W F A P S G T P V T A
UniRef90_UPI00047BC505 R R A G I E V V I A S G Q A P D V R V V C K E S V G T H F C A T D H P L E N
UniRef90_B0UMS7 V E A A K I A T T G T H M L I A S G R C T W F L T P A N P I T S
UniRef90_A0A037ZKT6 A G C A M A I A I G N R E N P I A A V A A G A K C T W F L P A P E G R S A
UniRef90_B8HQP9 L I A S G H E P D L L L R L C Q G E R I G T W L T P N R S R L S A
UniRef90_K4LW11 A G T A M I I A K G E A Q N P L Q S L Q D G A R F T L F K P S T T P V S A
UniRef90_K0Z7Y0 A G V R T A I T E G R S P Y N I T R I L L Q G E P L G T Q F E P Q P Q T N A
UniRef90_UPI000471F9B4 M I N G K T P G N L E R A L T G D E V G T L F L P A D T S L N R
UniRef90_UPI00030D8C96 K G G M I T A A R T A T Q A G C A M V I T K G D V P T W F K P N V D P Q T A R K
UniRef90_F2R2A6 V I A S G R E P D V L L R L A R G E I V G T Q L L A G H A K L A A
UniRef90_UPI00036D0BF3 A G A N M V I A A G Q E H P L R R L Q N G L C T W F M A Q T D A G S A
UniRef90_UPI0004703932 G A D T V I A S G R E S P L T R L A T G E S V G T L L V A D T L P M T A
UniRef90_C5FEL8 R R A G I E V T I A A G S R P E V I Q H L V D G K G T R F L P L E S P L E S
UniRef90_A8L1V5
UniRef90_Q89X86
UniRef90_K5YXQ0
UniRef90_UPI00036A54E4
UniRef90_E4ZZY5
UniRef90_UPI00047C7207
UniRef90_K9XAG5
UniRef90_B5H778
UniRef90_W6K159
UniRef90_A5G907
UniRef90_UPI0002559D04
UniRef90_UPI0003631E08
UniRef90_D5X590
UniRef90_Q5FUL1
UniRef90_G8QM70
UniRef90_DOI7J7

UniRef90_I7ARR7
UniRef90_Q9KPT8
UniRef90_L7U4D6
UniRef90_G8PNW0
UniRef90_V5FD54
UniRef90_E1YHF7
UniRef90_I3IRC4
UniRef90_Q1QQT9
UniRef90_B6AEC6
UniRef90_F7NHR2
UniRef90_A9WAX2
UniRef90_Q8DH42
UniRef90_F5R797
UniRef90_D4X4E3
UniRef90_W9UTJ1
UniRef90_I4W918
UniRef90_R7B2N3
UniRef90_E6S718
UniRef90_Q2J3J7
UniRef90_C4GGM9
UniRef90_UPI00029A3374
UniRef90_K2J0R1
UniRef90_Q648U0
UniRef90_D7CLA5
UniRef90_M2XC73
UniRef90_C7Q8B0
UniRef90_L0KWT7
UniRef90_F7XKE2
UniRef90_UPI000375DC34
UniRef90_G6XJ5
UniRef90_W3RNO8
UniRef90_S6BWF1
UniRef90_C5GV56
UniRef90_UPI0003B55E86
UniRef90_Q2S355
UniRef90_F8EST0
UniRef90_I0HX51
UniRef90_Q9V229
UniRef90_E9UTU3
UniRef90_K9UH14
UniRef90_R6AGG8
UniRef90_D7BBQ5
UniRef90_UPI00047A0F50
UniRef90_Q0V382
UniRef90_Q2RKZ7
UniRef90_Q7NQC8
UniRef90_V5SFE9
UniRef90_T0LPK1
UniRef90_W1S6Q4
UniRef90_F5RMC7
UniRef90_R7CMV1
UniRef90_UPI0004766196
UniRef90_C9RAT1
UniRef90_C9KQ52
UniRef90_UPI0004073CD9
UniRef90_E3BL11
UniRef90_Q47AC9
UniRef90_D3RVR3
UniRef90_B3E610
UniRef90_G2DS60
UniRef90_UPI0003710022
UniRef90_Q7NPI6
UniRef90_B0C1B5
UniRef90_Q5BE16
UniRef90_UPI00047BC505
UniRef90_B0UMS7
UniRef90_A0A037ZKT6
UniRef90_B8HQP9
UniRef90_K4LW11
UniRef90_K0Z7Y0
UniRef90_UPI000471F9B4
UniRef90_UPI00030D8C96
UniRef90_F2R2A6
UniRef90_UPI00036D0BF3
UniRef90_UPI0004703932
UniRef90_C5FEL8
UniRef90_A8L1V5
UniRef90_Q89X86
UniRef90_K5YXQ0
UniRef90_UPI00036A54E4
UniRef90_E4ZZY5
UniRef90_UPI00047C7207
UniRef90_K9XAG5
UniRef90_B5H778
UniRef90_W6K159
UniRef90_A5G907
UniRef90_UPI0002559D04
UniRef90_UPI0003631E08
UniRef90_D5X590
UniRef90_Q5FUL1
UniRef90_G8QM70
UniRef90_D0I7J7

90 100 110 120
R Y L E K H D S E F H E I L F L D D D G A V L G P L C R G A D V M L P G I V L K Y K
R K R W I L A G P A A S G G D I L R V I D D G A R D K A V I Q K G S S L L L P A K S G V V R T K V Q
R A A W I A H A L K R P H Q G T I L Q L D A D A G A R D K A V I Q K G S S L L L P A K S G V V R T K V Q
R K T W I S G H L K P Q H G T I L Q L D A D A G A R D K A V I Q K G S S L L L P A K S G V V R T K V Q
R K R W I L A G P A A S G G D I V I D D D G A V N A L R K R G S S L L L P A K G V V T T E V V N E
K K C W I G Y S L K P K G G A V I V I D D D G A M S A L I T N G K S S L L L L A T G G V I V S V E D
R K R W I G F T I K P Q K G K I Y V I D D D G A M S A L I T N G K S S L L L L A T G G V I V S V E D
R K R W I A G S L E P K K G T E L T I D A G A V A A L R A N G K S S L L L P A G V I V I S V D
Q L L W I Y F G D Y L K T P E V I P T C I S Q F I F N G A S D L M M C G G I I V E V Q K
R K R W I A F G A R L H H S R I V V V D E G A T A L T R G G K S S L L L A A A G I I E V V S E
R Q R W I L A E T V R H S R I V V V D E G A T A L T R G G K S S L L L A A A G I I E V V S E
R K R W I A R A L L P K G T L W L D E G A V K A L V G G K S S L L L S A A G I T T R V V Q
R K Q W L A D H L Q L R G R T V L V L D D G A V Q A L M R S G R S S L L L P L G V V T T D V Q
R K Q W L A D H L R L R G R T V L V L D D G A V Q A L M R S G R S S L L L P L G V V T T D V Q
R K Q W I A G H L Q A R S G R I L V V D A G A V S A L T S H G H S L L L P G G I V L A A E
R K Y W L L H A P A S A R G R I R I D A G A A R A L S H G H S L L L P G G I V L A A E
K K L W I A L G D T A K G S L I V D E G A A E A L V R G S S L L L A V G V I V I G V E E
R R L W I E H A T S A R G R T L V D E G A V H A L K R K K S S L L L P A G V I T A V E D
R K R W I A G S L E P K G T L T I D A G A V T A L R A R A K S S L L L P A G V I T A V E D
R K Q W L L G H L Q I S G S I V V D A G A E T A L Q Q R R S S L L L P V G G C V I R V N E
K A L W K R F G K S M K K W V I D R D G A V R A L I L N G A S N L L A V G G I I S A I E H
R K Q W I L A G P P V G R L Q L D D G A V R A L I L N G A S N L L A V G G I I S A I E H
K E H W I L F S A S P K G K I K V D E G A K T A L V L G G G S S L L L P S G I T A D V E E
R K R W I A F G S A C K G K V Y I D N G A K E A V I L R R G K S S L L L P S G I T T G V E E
R L L W L A H L A D T R G A L H L D P G A V R A I V L R R L S L L L P A G V I T G V E E
R L L W L A H A A D T R G A L H L D P G A V R A I V L R R L S L L L P A G V I T G V E E
R L F Q N R S L S A M K K W V L L E Q G A V F F I L C G G A N V L A P G G I I D A C D
R I F Q N R D V H H L K N W V M I D D S A V P F I L C G G A N V L A P G G I I D A C D
K W I S T M K P V I G E L V I D E G A V N A L F S G K S S L L L P A G V I T V R E E
R K R W I G S S L H P A K G R I V I D A G A Y S A L R Q G G A S S L L L P A G V I C G I
R K R W I A G T L E A K G T L T I D A G A V S A L R R A G K S S L L L P A G V I R I E E
R K R W L A G H L R V K G R L V L D D G A V E V L R R G R S S L L L A V G V I R I E E
Y T L W H H P R L V P L L H T P S L V M D K I Y G G A S D L M T P G L A P F P
U P I 0 0 0 3 B 5 5 E 8 6 W I L A E V A P G R L H T D E G A A R A I R R R G S S L L L P A G I V A P D
R K H W M L H A L P S A G R L T V D A G A A D A L R H G A S S L L L P A G I V A V E K
H K V W L A G R L T A H G Q A Y I D D G A V K A L R Q D G K S L L L P A G I V E I K
R K Q W M I D H L Q L R G A V V V D A G A A L K L R D D G K S L L L P A G I V E I K
R L L W E K F G K R M K K W V I D R G A V E P V V K N G A N V L P V I G I V I E A E S
R L L W L Q H A T E P A V G S I T I D A G A V A A I R R G G A S S L L L A A G V I T A R S S E
R K R W I A H G L T A V G K I Y L D A G A V A A I T R G G K S S L L L P A G I V A R I E
R S Q W M A D H L Q L K G K I V I D E G A V E A L V R K G K S S L L L P V G I V K A V I
R R L W L Y Q L P K P A R G E I V V D A G A A R A L R V Q G G S S L L L P A G I R E V R E
R K K W I A G S L E P R G V L H V D A G A A R A I V S G K S S L L L P A G V T R I E
Y T L W H H P R I V I P L L Y T P L V V V I E K M Q A G A D L M T P G L Q R F P
R K R W L A Y A P A V Q G Q I Q V D A G A A R A I C N G T S L L L P G G G I A V D E
R K Q W L A D H L K L A G R L L V L D D G A A L A I R R R G T S L L L P V G G V S A V E E
K K R W I S G Q L V P R G T L F V D A G A E T A L S Q G G K S L L L V A G V V R R V E E
E L L D A I K P G F K N I T I D N G A V P R I L G G A K L F A Q G I V E M D
R K G W L A G R L T T R G R L I V D A G A K K A L L E G G N S L L L P A G V I A V E D
R K S W L A F G K R L M G E I S V D D G C I A M R R G A S S L L L A V G I T A V Y E
K K R D I T I G H A V K G R I Y V D K G C S E A I L K G S S L L L P A V G I V S V E
U P I 0 0 0 4 7 6 6 1 9 6 R H L W L A H A T T G H R V L D A G A V E A V R R R T S S L L L P A G V I T G V R E
K R R W L F G A Q V K G K I Y V D A G A A K A L R R G G K S S L L L P S G I V G V E D
R K S W L A F G K R L Q G D L V V D A G C V K A L E D G G S S L L L A A G I K E L D D
K K R W M L P I A Q K Q L K G H L V I D D G A V K A L E D G G S S L L L P L G V I A V D D
R K R W I L A G P S T S G D I I I D Q G A V T A V L K G S S L L L A K G V V K V S E
R K Q W L A D H L Q L A G R L L I L D A G A V N A L H A A G K S S L L L P T I G V I A A E Q
R K Q W L A G H L Q A R G R L V L D A G A V N A L R K G T S S L L L A V G V K A V Q
R K H W I A Y T L R P A G K V L V D A G A Q K A L V K G T S S L L L P S G I T G V E D
R K Q W L L G H V Q L C G S L V V D Q G A E Q A L L A G K S S L L L P V I G C V R V D
R L L W L E H A T E P M G S V G L D E G A V R A V R R R G A S S L L L A A G I T G A R E
R K R W I G Y G L V P A G A L H L D E G A V L A V R G G K S S L L L P A G V I T G V E E
R K H W I A H A L V P T G K L T D D G A A K A I T T G K S S L L L A A G I T A V E E
Y M L W H N A N I V P L L H T P E F V M G K L R S G A D L M T P G L A N E P
R L W M A H A S I P E G R I V I D A G A A R A L V I E G K S S L L L P G V T G V D
R K T W I A G S L E P R G S V I D A G A E R A L Q G G A S S L L L P V I G V T A R I E S E
R K R W I A A M K P R G S V R L D T G A E A L K Q G R S S L L L P I L G V T A R V S E
R K R W I A H A L V P T G K I Y L D R G A V Q A I A Q G K S S L L L A A G I V Q V E
R K R W I A F G S P V E G R I R I D H G A L E A I L K G S S L L L P G G V I T G V V
R K L W I A L G D S V K G R V V V D S G A C A L S H G K S S L L L T V G I T R R V D
R K Q W L A G Q L S V R G R L S I D E G A A K V L L S G R S S L L L A V G V V R A V T E
R K A W L R G G L T A K G A I H I D A G A A Q A L R D G R S S L L L S A G A T R V E
R L L W L A H A S T P Q G S L T L D D G A V R A V V E G K S S L L L A A G V A G V E S
R K T W I A G Q L Q P A G M L Q L D E G A V T A V L G A G K S S L L L P A G I V R S I S K
R K Q W I L A G P A P E G K I V T D D G A V R A V S K G R S S L L L S K G I L K P V K
Y S L W R N P G L V P L C T T S H V M E K L Y N G A D L M T P G L A N E P
R L L W L A H A T A P E G R L H L D E G A V A A V V R R A S S L L L P A G V I T K V E E
R K R W I A G T L E P K G T L T I D A G A V T A L R A G A S S L L L P A G I R A V N
R K S W I A G H L A P A G T L T I D D G A A R A L A K G S S L L L P A G I R A V N
R Q Q W I M G H L Q F S G K V T I D A G A A I A L S Q K H S L L L P I G C I G V Q
Y T L W H H P R I V I P L L H T P L A V V E K L Q G G A S D L M T P G L Q R S F P
W K N W I A G Q L E P Q G K L I D E G A R G A L L S G K S S L L L A A G V I T K S A E
R K R W I A Y G L T P A G K I Y L D S G A T A I S Q G K S S L L L A A G I S T A V E
R L L W L A H A S T P Q G S L T L D E G A V R A V V R R K S S L L L P A G I A A V D
R K L W I A H A T T P R G V L T V D A G A V A A L V R R K S S L L L P A G I A A V T
R K H W I A Y T L R P V G R I V D N G A R E V L R H G R S S L L L P S G V V A R V E
R K R W I A G Q L Q V R G K L V L D A G A E R A L C N G K S S L L L P V I G V T S V E E
R W I S S Q K S A G K L I D Q G A V T A L R D G G K S S L L L P I I G V T S V E E
R K Q W M A D H L Q L R G W V R V D E G A A R R L R Q G A S S L L L P V G V V E V Q
R K R W I G G S L Q L P K G T L T I D A G A R R A L E E S A S S L L L P A G V T R G L E
R K Q W L A D H L Q L A G K L T L D Q G A I Q A L R O G K S S L L L P V G V T R G L E
R K R W I L A G P P A G N I I D D G A A K A V V R H S S L L S K G I T G V E

UniRef90_I7ARR7
UniRef90_Q9KPT8
UniRef90_L7U4D6
UniRef90_G8PNW0
UniRef90_V5FD54
UniRef90_E1YHF7
UniRef90_I3IRC4
UniRef90_Q1QQT9
UniRef90_B6AEC6
UniRef90_F7NHR2
UniRef90_A9WAX2
UniRef90_Q8DH42
UniRef90_F5R797
UniRef90_D4X4E3
UniRef90_W9UTJ1
UniRef90_I4W918
UniRef90_R7B2N3
UniRef90_E6S718
UniRef90_Q2J3J7
UniRef90_C4GGM9
UniRef90_UPI00029A3374
UniRef90_K2J0R1
UniRef90_Q648U0
UniRef90_D7CLA5
UniRef90_M2XC73
UniRef90_C7Q8B0
UniRef90_L0KWT7
UniRef90_F7XKE2
UniRef90_UPI000375DC34
UniRef90_G6X1J5
UniRef90_W3RNO8
UniRef90_S6BWF1
UniRef90_C5GV56
UniRef90_UPI0003B55E86
UniRef90_Q2S355
UniRef90_F8EST0
UniRef90_I0HX51
UniRef90_Q9V229
UniRef90_E9UTU3
UniRef90_K9UH14
UniRef90_R6AGG8
UniRef90_D7BBQ5
UniRef90_UPI00047A0F50
UniRef90_Q0V382
UniRef90_Q2RKZ7
UniRef90_Q7NQC8
UniRef90_V5SFE9
UniRef90_T0LPK1
UniRef90_W1S6Q4
UniRef90_F5RMC7
UniRef90_R7CMV1
UniRef90_UPI0004766196
UniRef90_C9RAT1
UniRef90_C9KQ52
UniRef90_UPI0004073CD9
UniRef90_E3BL11
UniRef90_Q47AC9
UniRef90_D3RVR3
UniRef90_B3E610
UniRef90_G2DS60
UniRef90_UPI0003710022
UniRef90_Q7NPI6
UniRef90_B0C1B5
UniRef90_Q5BE16
UniRef90_UPI00047BC505
UniRef90_B0UMS7
UniRef90_A0A037ZKT6
UniRef90_B8HQP9
UniRef90_K4LW11
UniRef90_K0Z7Y0
UniRef90_UPI000471F9B4
UniRef90_UPI00030D8C96
UniRef90_F2R2A6
UniRef90_UPI00036D0BF3
UniRef90_UPI0004703932
UniRef90_C5FEL8
UniRef90_A8L1V5
UniRef90_Q89X86
UniRef90_K5YXQ0
UniRef90_UPI00036A54E4
UniRef90_E4ZZY5
UniRef90_UPI00047C7207
UniRef90_K9XAG5
UniRef90_B5H778
UniRef90_W6K159
UniRef90_A5G907
UniRef90_UPI0002559D04
UniRef90_UPI0003631E08
UniRef90_D5X590
UniRef90_Q5FUL1
UniRef90_G8QM70
UniRef90_D0I7J7

130 140 150 160
D E F E A G D T V I R I V G K Q S H L V A R G G I A A Y S N D E L A R Q I A A G K R H S
G Q F A R G E V V R V L D E A D K Q S E V F A R G G L L A S Y D A Q E L A R R I A A G R R N T S
G T F D T R G D P V D L A D E A D S D G H E V F A R G R G L L V A Y D A Q E A S L A G R R N T S
G E F A R G E V A R I V N Q S N G T V L I A K G L L V K Y S S E D M L Q I Q G M H K S T
G E F K E G D P V E F C E F C N G N G A I F G M G L L V N Y S S A D I E K I M G L K K T S
G A F D K G D T I S I R C K K G D E V L F A K G L L T N Y S S S K E I E K I M G C C K T S
G Q F A R G G D A V I T V R G P N T K H E I G R G L L V A Y D A V D A E K I K G R S S K
K T I N K Q L W S V R C E F E D K K E P I A L G L S L V D W I D L V I N S M G A H K T
G E F D R H G N T V R I F A R D E G G R E I A R G L L T Q Y R N S S D L R R M V A G G L R S S
G E F Q A R G Q D A V A K L C D D A A G R E A E L A R G L L V N Y S S A S E E T R R R V A Q G Q Q S S
G G F F E R G A V V A C V D S E G R E C A R G L L I N Y S S V D T R R R I L R Q P P T S
G E F G R G D V V A C V D S E G R E C A R G L L I N Y S S V D T R R R I L R Q P P T S
G D F S R G E M V V A D E T A V T A R G L L V N Y G A A D D A R R I A G R K P T S
G E F S R G D L V V E I T L E N E R R I A R G L L V Q Y A A V E V R R L A G R H S
G S F V R E D L V D I V N T S G G H I I A R G K A G A S S E I T L A C A G R S S Q
G T F H A R G D P V D V C G P D D T H E I A R G L L V N Y A S N E L P N R I L G R S S T S
G Q F A R G G D A V I V R G P D G T P E I A R G R L V A Y D A D D A D R I L K G R S S S
G H F Q R G E L I A I V N G A G D K E I A R G L L S N Y S S A E A E K L L R C H A
P S I R R R G D D V V L I A S E E G D V V A T G L A K K D Y T A G L L T A L G V S R E S
G R F E R G D A V A L I A P S E D G H K L G V G L V R Y S S A E E I K K I K G V Q S T
D E F M R G D P V S L I D S R S V E F A R G I T N Y S S A E E I K K I K G V Q S T
G I F E R G N V I S L V D L E G H E F A R G I T N Y S S A E E I K K I K G V Q S T
G R F A A G P V S L V N A E G E H E F A R G I T N Y S S A E E I K K I K G V Q S T
G S F N A G D P V D L V D D A G G V A V A R G L L V N Y D A S E L P E L L G R R S T
P N I L E K N E V V V L T R D K R V V A V A G R A R M S G A E R M Q L L G R R S T
U N I R E F 9 0 _ F 7 X K E 2 E A D
K D F E R G D A V S I L N T K G E V L G L G L C A Y S S D E A S S I I G H Q T S
G D F R R G D L V L I C A E D D G T V L G R G L L S D Y D A D E S T R K L I K G R H H S
G R F A R G D A V V I R G P D G H E I A R G R G L L V A Y D A D D A D E R I V K G R S S S
G D F R R G E L V A C V D E R G R E V A R G L L V N Y S A D E A R R R I V K G Q Q P S
E R A V K G E L V A S A K P S V E T F V G V C E I D V A G L T R Q V A G R S S
U N I R E F 9 0 _ U P I 0 0 0 3 B 5 5 E 8 6 A G R S S
G R F A R G D A V E I A V E G N R T R E L A R G I T Q Y G A A D L E R I Q G R K S S
G G F N R G D V V D V L D P G E D H L I A R G L L A Y S S A E A V A R L I S R H A S S
U N I R E F 9 0 _ I 0 H X 5 1 S S
E S I R R N D E V I V V S E D G E V V G V G I A K K D Y E E L I T N P S S S
G A F H A R G D P V D V G D A S G S K E V A V A R G L L V N Y S S D E L P R I L A G R S S
U N I R E F 9 0 _ K 9 U H 1 4 H S
G E F E A T D A V Q L C V D A S G K E I A R G L L V N Y S S S E L P R I L A G R S S
G D F L R G E I Q V V D Q N D K E I C R G M I N Y S S D E S R R R I M G L H S
U N I R E F 9 0 _ D 7 B B Q 5 S S
G N F A R G E A V R C L D A G G E L I G V G L V N Y S S A E I E R I K G A K T
U N I R E F 9 0 _ U P I 0 0 0 4 7 A 0 F 5 0 A G R N S
G N F A R G D C V I I R N A Q Q G G E I L G R G L V A Y D A S E A V L I A G R N S
K K A T K G A T V A I A S E A P T V P M A V G T C E I D V S A L D K V Q Q G M
G D F D Q G A L V S I V D P A G K E A R G M A N Y S P A A A S R I K G R K T S
U N I R E F 9 0 _ Q 2 R K Z 7 S S
G D F L R G E A V A C V D A A G H E V L A R G L L V N Y S S D E A R Q I K M R K S T
G V F E R G D A V I R A L D G R E L A R G L L A A Y A V A D A E R I L L G R K S
M G I K S G D T V F I R G L D G R Y I A V G K A S L D A D K I L A G M E T R S
U N I R E F 9 0 _ W 1 S 6 Q 4 S S
G V F D R G D V V I R T A D G H V I A R G L L E Y D S E T A T R I A G R R S
G D F S A G E T V R V L S P S G Q T E I A R G I A A Y D A T D V A R L M G H Q T S
U N I R E F 9 0 _ F 5 R M C 7 S S
G G F S D G D T V A V Y G G D T E V L A R G L T H Y N N A D I E P E K I K G C H S
U N I R E F 9 0 _ U P I 0 0 0 4 7 6 6 1 9 6 S T
G D F A A G D P V D L C D G D G R V I A R G L V N Y S A A E I P D Q L M G R S
U N I R E F 9 0 _ C 9 R A T 1 S S
G N F E A A G H A V S I V D P E G K E I A R G L V N Y S A A E V E Q L K G C K T
U N I R E F 9 0 _ C 9 K Q 5 2 S S
G D F E A G S T V R V L A E D N R E I A R G I V N Y S K E D L R K L I T G H P T
U N I R E F 9 0 _ U P I 0 0 0 4 0 7 3 C D 9 S S
G N F D R G D V V V C I L D K G R E I G R G L S N Y H A L E I N L E I N Q T P S
G E F A R G E V V C V K G V N N K V C A R G I A S Y S S K D M A Q I V G K H S
U N I R E F 9 0 _ E 3 B L 1 1 S S
G E F E R G A V A C T S P D G Q R E I A R G L L S N Y G S G E A R L I A R K T T S
U N I R E F 9 0 _ D 3 R V R 3 S S
G R F E R G R C V R I C G P D G T E I A R G L L A D Y S S S E T Q L I A G H K S
U N I R E F 9 0 _ B 3 E 6 1 0 S S
G F F H A R G E L V A V V N G E G K E I A R G L L S N Y S S A E T A K I L Q T P S
U N I R E F 9 0 _ U P I 0 0 0 3 7 1 0 0 2 2 S S
G D F H A G D P V D L V G P D G A V V A R G L V N Y D A D E L P Q L V G R S S
U N I R E F 9 0 _ Q 7 N P I 6 S S
G R F E T G A L V R L I D G Q G L E F A R G L V N Y S S E E L E K I R G R K S
U N I R E F 9 0 _ B 0 C 1 B 5 S S
G E F Q S Q E A V C F Y D S A G V E I A R G L V N Y S S D E L L Q G R I V Q G
U N I R E F 9 0 _ Q 5 B E 1 6 S S
P F D E R A D R V A V V P L F V G V C E I D V S A L Q G E V Q Q G T
U N I R E F 9 0 _ U P I 0 0 0 4 7 B C 5 0 5 S S
G D F E S G A V I E V V G P E G T I A R G I C R Y A S A E L E E V L E A R R S
U N I R E F 9 0 _ B 0 U M S 7 S S
G A F A R G D A V V I R S L G G A V L L G R G L L V A Y D S D D A A R I L G R S S
U N I R E F 9 0 _ A 0 A 0 3 7 Z K T 6 S S
G A F E R G D P V E I C G P D G A A I L G R G L L T R Y T S A E A G R I K G C Q S S
U N I R E F 9 0 _ B 8 H Q P 9 S S
G V F Q S Q D A V L C C D R A G G Q E I A R G L L S N Y S S Q E L E K I Q G R S S
U N I R E F 9 0 _ K 4 L W 1 1 S S
G F F E A G N V V S L V D P S G R E I A R G I S N Y S S D E V K L I M M K K S
U N I R E F 9 0 _ K 0 Z 7 Y 0 S S
G E F S A N D V V D V L D E S G Y V I A R G L V R Y D A G I M M R E K
U N I R E F 9 0 _ U P I 0 0 0 4 7 1 F 9 B 4 S S
G D F A R G E V V A C F D P S G V E I A R G L L S N Y D A K E T R R I M G H R S
U N I R E F 9 0 _ U P I 0 0 0 3 0 D 8 C 9 6 S S
G R F A R G D L I V V V G P D G K H L A R G L L A E Y G H V D A S R I L V G R R S
U N I R E F 9 0 _ F 2 R 2 A 6 S S
G D F V A G D P V E I R D T T G R E A V I A R G L L V N F D A K E M P R M L V G R S T
U N I R E F 9 0 _ U P I 0 0 0 3 6 D 0 B F 3 S S
G N F A R G D T V A I T A P S G R E I A R G L L V S Y D A E E A R Q I A G R K S
U N I R E F 9 0 _ U P I 0 0 0 4 7 0 3 9 3 2 S S
G E F D R G A T V A V S D T K G H E I A R G M A R Y S S V A L T Q I A G H H S
U N I R E F 9 0 _ C 5 F E L 8 S S
T G A V K G A V A V S S I N K P V P T F V G V C E I D V S L Q V Q Q G A
U N I R E F 9 0 _ A 8 L 1 V 5 S S
G D F S A G D P V D L V D P R G R E P V A R G L V E F D S V I E L P G M L L G R S T
U N I R E F 9 0 _ Q 8 9 X 8 6 S S
G G F A R G D A V L V R G P D T S T R I G R G L L A Y S D D D A E R I K G R S S
U N I R E F 9 0 _ K 5 Y X Q 0 S S
G A F E R G D P V D V L A L D G T R E I A R G L L T A Y S D Q D A E R I A G H R S
U N I R E F 9 0 _ U P I 0 0 0 3 6 A 5 4 E 4 S S
G Q F L R G A V I S V V N P D G E E V A R G L T N Y S S D E I E K I L R Q P S
U N I R E F 9 0 _ E 4 Z Z Y 5 S S
K G A T K G D V A I A S E A P T V P M A V G T C E I D V S G L D Q V Q Q G V
U N I R E F 9 0 _ U P I 0 0 0 4 7 C 7 2 0 7 S S
G D F Q R G D T V A I L L E A S N I E V A R G L L S Y S S H E A Q L I T G R R S
U N I R E F 9 0 _ K 9 X A G 5 S S
G E F D S Q E A V Q L C D Q H G N E I A R G I V N Y S S N E L K R I R G R H S
U N I R E F 9 0 _ B 5 H 7 7 8 S S
G E F S A G D P V E L R D A A G R P V I A R G L V N F D A K E L P R M A G R S T
U N I R E F 9 0 _ W 6 K 1 5 9 S S
G A F A G D P V D V A G P D G V V I A R G L V S Y D A G E L P R M M G R S T
U N I R E F 9 0 _ A 5 G 9 0 7 S S
G K F D R G A C V R V C G P D G T E F A R G I A D Y S S R E L E L I H G R K S
U N I R E F 9 0 _ U P I 0 0 0 2 5 5 9 D 0 4 S S
G R F H R G E L V S C V S A G V E V L A K G I C A Y P A V E A K L I G Q N S
U N I R E F 9 0 _ U P I 0 0 0 3 6 3 1 E 0 8 S S
G N F S R G D V S I Y S T N G R E I A R G L L A K G I C A Y P A V E A K L I G Q N S
U N I R E F 9 0 _ D 5 X 5 9 0 S S
G D F D R G D V I A V R D A S G A E V A R G L L S N Y A A S Q A R R I M R H P S
U N I R E F 9 0 _ Q 5 F U L 1 S S
G S F F R G D L V L I R D A D S G S I A R G L L A Y D S E E S Q K L T G H R S
U N I R E F 9 0 _ G 8 Q M 7 0 S S
G D F E R G A V A C L C D Q K G K L L A R G I C R Y S S K D L S A I A G R H S
U N I R E F 9 0 _ D 0 I 7 J 7 S S

UniRef90_I7ARR7
UniRef90_Q9KPT8
UniRef90_L7U4D6
UniRef90_G8PNW0
UniRef90_V5FD54
UniRef90_E1YHF7
UniRef90_I3IRC4
UniRef90_Q1QQT9
UniRef90_B6AEC6
UniRef90_F7NHR2
UniRef90_A9WAX2
UniRef90_Q8DH42
UniRef90_F5R797
UniRef90_D4X4E3
UniRef90_W9UTJ1
UniRef90_I4W918
UniRef90_R7B2N3
UniRef90_E6S718
UniRef90_Q2J3J7
UniRef90_C4GGM9
UniRef90_UPI00029A3374
UniRef90_K2J0R1
UniRef90_Q648U0
UniRef90_D7CLA5
UniRef90_M2XC73
UniRef90_C7Q8B0
UniRef90_L0KWT7
UniRef90_F7XKE2
UniRef90_UPI000375DC34
UniRef90_G6XJ5
UniRef90_W3RN08
UniRef90_S6BWF1
UniRef90_C5GV56
UniRef90_UPI0003B55E86
UniRef90_Q2S355
UniRef90_F8EST0
UniRef90_I0HX51
UniRef90_Q9V229
UniRef90_E9UTU3
UniRef90_K9UH14
UniRef90_R6AGG8
UniRef90_D7BBQ5
UniRef90_UPI00047A0F50
UniRef90_Q0V382
UniRef90_Q2RKZ7
UniRef90_Q7NQC8
UniRef90_V5SFE9
UniRef90_T0LPK1
UniRef90_W1S6Q4
UniRef90_F5RMC7
UniRef90_R7CMV1
UniRef90_UPI0004766196
UniRef90_C9RAT1
UniRef90_C9KQ52
UniRef90_UPI0004073CD9
UniRef90_E3BL11
UniRef90_Q47AC9
UniRef90_D3RVR3
UniRef90_B3E610
UniRef90_G2DS60
UniRef90_UPI0003710022
UniRef90_Q7NPI6
UniRef90_B0C1B5
UniRef90_Q5BEI6
UniRef90_UPI00047BC505
UniRef90_B0UMS7
UniRef90_A0A037ZKT6
UniRef90_B8HQP9
UniRef90_K4LW11
UniRef90_K0Z7Y0
UniRef90_UPI000471F9B4
UniRef90_UPI00030D8C96
UniRef90_F2R2A6
UniRef90_UPI00036D0BF3
UniRef90_UPI0004703932
UniRef90_C5FEL8
UniRef90_A8L1V5
UniRef90_Q89X86
UniRef90_K5YXQ0
UniRef90_UPI00036A54E4
UniRef90_E4ZZY5
UniRef90_UPI00047C7207
UniRef90_K9XAG5
UniRef90_B5H778
UniRef90_W6K159
UniRef90_A5G907
UniRef90_UPI0002559D04
UniRef90_UPI0003631E08
UniRef90_D5X590
UniRef90_Q5FUL1
UniRef90_G8QM70
UniRef90_D0I7J7

170
N G V G V E V Y H R L G D E L Y
K E I G S E V I H R D D M
S D I E S V L G Y R Y L D E
K E I E A E M I H T D D L
K E I G E V L G H D Y G S E I L
S R I K E K L G H K P Y D E I
S S I T K I L G Y K L Y D E I
S G R A E M I H R D D L
K G K V L R I L H H I K D N L
N D I A G I L G H K S Y D E
S Q I V S V L G Y
T E L A N I L L G Y A G

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

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

R W L A R E L

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

D D I E S I L L G Y D Y G D
K G H A V R G I Q W E G D E L W S W G S
M D L A A E V V H R D D L
S G R A E M I H R D D L

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

S D I
Q E I

UniRef90_Q605N1
UniRef90_UPI000478340B
UniRef90_E8UAB5
UniRef90_A8HS47
UniRef90_D8G6P0
UniRef90_D0CQM5
UniRef90_UPI0002260085
UniRef90_M7CJS8
UniRef90_C1D9T9
UniRef90_M7N5U9
UniRef90_D3NX38
UniRef90_K0C236
UniRef90_UPI00035E3CDE
UniRef90_A1KYH0
UniRef90_A6GR43
UniRef90_Q12Q10
UniRef90_S6EPD0
UniRef90_A0YVP6
UniRef90_UPI00041ED35E
UniRef90_UPI00036D513E
UniRef90_L8HES0
UniRef90_UPI0002D77315
UniRef90_V5PMZ6
UniRef90_UPI00034B140B
UniRef90_D2VNW6
UniRef90_Q2NCX7
UniRef90_K2QBJ1
UniRef90_W1N2G0
UniRef90_I3WG21
UniRef90_UPI00039FCD9E
UniRef90_Q72DJ9
UniRef90_UPI00037CE288
UniRef90_Q114A6
UniRef90_W7WSL4
UniRef90_E2SB76
UniRef90_UPI000469FCEA
UniRef90_UPI000463E014
UniRef90_D5UGS3
UniRef90_R5FW54
UniRef90_H3ZJN9
UniRef90_UPI0003B5DCEE
UniRef90_UPI0003A035DC
UniRef90_E1VGG2
UniRef90_F8E7X4
UniRef90_Q39QR3
UniRef90_J7RA33
UniRef90_E5ALJ3
UniRef90_B8H9P1
UniRef90_L2FC60
UniRef90_UPI0003B4088B
UniRef90_R5C110
UniRef90_F7VFJ9
UniRef90_UPI0003B6EC5C
UniRef90_UPI000469B041
UniRef90_U5DLT9
UniRef90_U9TU49
UniRef90_B7CLS8
UniRef90_E8LHT4
UniRef90_UPI00047A98EE
UniRef90_Q1JWH3
UniRef90_W0SJK5
UniRef90_B5EEI5
UniRef90_K9V9I0
UniRef90_UPI0002624C69
UniRef90_L1JZM8
UniRef90_UPI00039EABDC
UniRef90_UPI0003091F95
UniRef90_UPI00037447B0
UniRef90_D0J046
UniRef90_E8PQN0
UniRef90_UPI00037CED22
UniRef90_UPI0003B35841
UniRef90_I3BT74
UniRef90_X0V9H9
UniRef90_D7AAT7
UniRef90_A5PBB1
UniRef90_A0R148
UniRef90_G0TY82
UniRef90_K9P3G7
UniRef90_Q1DCK9
UniRef90_R7D115
UniRef90_E1RGP7
UniRef90_UPI000367C569
UniRef90_C0QZ92
UniRef90_UPI00035F03B5
UniRef90_U6L9V3
UniRef90_UPI0003A945E6
UniRef90_D7DW14
UniRef90_I1YK65
UniRef90_A0A011NQR4
UniRef90_UPI00036D3856
UniRef90_V8CCT2

1

10

20

30

40

K L Q A A E I A T R
K I Q A A E I A
R T K I E A G K I A T S

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

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

K L R A A R I A S S

I A

L K E L K V Q V G E S V S G

I M K K L R E P V E K Y Y I R V N T L
M A T K I E S A T V A
R S K L L A A E K A Q A

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

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

E A A R V G L F

M A T K I K A A S T A

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

M A T K L A A A R I A
K L T A A E I A T R

S G G M R S K L L A A R I A G R V G I P

K I Q A A R L A T A
K I E A G K I A T T
I A

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

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

UniRef90_Q605N1 L R A A R L A A R S G T A T V I A S G R E G V L P R I L D G E L T P D V 80
UniRef90_UPI000478340B S G I E V I T A S G D N P A L I P D L V A G H G D C T R F A P E T T P L E A
UniRef90_E8UAB5 T R A G T P V V I A S G D E R D A L L R V A H G E P I R F H A H G A P L E A
UniRef90_A8HS47 A G T H M V I A S G H L K N P L K R I A E G G R C T W F L A G A T P A R A
UniRef90_D8G6P0 I E A A R I A T A S G V R T V I T L K G E V I G T Q F E P Q P R P V I N A
UniRef90_DOCQM5 W F K A K L D P H A
UniRef90_UPI0002260085 L V A A H I A T D S G C A M A I A L G K R P T W F L P G T D S R S A
UniRef90_M7CJS8 V R A A R L A A R S G A F T V I V G G R E R A I T R L R Q G E V I G T L
UniRef90_C1D9T9 T T V I A C G R E A N V L S R L A D G E A I G T Q L V A Q N D R W A A
UniRef90_M7N5U9 D V G T W F S A R G G R R S T
UniRef90_D3NX38
UniRef90_K0C236 L T A A R I A S R S G T A T I I I I D G R A I G T L L I P N E A P V S A
UniRef90_UPI00035E3CDE D V G T Y F H P G G R H P G T
UniRef90_A1KYH0 V T T V I T H G K K P E N L L K I I N G E D I G T K F E A Q L K N D N A
UniRef90_A6GR43 V I A S G H E N V L V R L M K G E P V G T Y L K A P L G R L A A
UniRef90_Q12Q10 R H A G I E V V I A S G H E N V I I K V V N K E G T H F S A I D S P L E S
UniRef90_S6EPD0 F A T N I K Q T N F Q A Q A N I G T V Y T A E N N P I W F E K H D S L L Y P T V
UniRef90_A0YVP6 I E A A R I A T S S G V R T V I T L D G A T I G T H F A A Q A R P V I N A
UniRef90_UPI00041ED35E A G V E V V I A A G H A E Q A V T K A A A G E N V G T R F R A T Q T P L E N
UniRef90_UPI00036D513E V D S A R I A T E A G V P T V L I T S E T V G T L F T A S S R R R P S T
UniRef90_L8HES0 P K A D I E V V K L G G S R T V L Y F V E A Q P L F F D P S G
UniRef90_UPI0002D77315 R R A G I E V V I A A G S A Q D V V I E S V S S P S G T R F V A L P E A L E N
UniRef90_V5PMZ6 V I A S G R E A D V L V R L A G G E A I G T Q L V A R T A V L T A
UniRef90_UPI00034B140B A G V T T V I T N G K N P D N I P K I L A G D S I G T K F T A Q P K T D N A
UniRef90_D2VNW6 R A A S D V Q T F N V I T V D N V P M F F S I E K E E I Y P T I
UniRef90_Q2NCX7 E R A G I A L A I T N G T H E A P I A R A L D G V G T V F V P Q R S D G A
UniRef90_K2QBJ1 I D A G K I A T S A G C A M I I A S G K N P L W F A A S K S P V T A
UniRef90_W1N2G0 V R A A R L A A R S G A V T V I L V G G E S L G T L L T P D R A P I A A
UniRef90_I3WG21 G D P V G T V F A P V K H R G S S
UniRef90_UPI00039FCD9E K T K L D A G K I A N A A G T A M I I T S G D R S T L F K A S D A P V I N A
UniRef90_Q72DJ9 L I L P G R E P R I L E R A F S G E P V G T W V R P E A R V V S R
UniRef90_UPI00037CE288 L I A S G H Q P H V L S R L L D G E S V G T L L T P D H A P I T A
UniRef90_Q114A6 R G T G I E A A K I A T S A G V R T V I T L N G E S I G T Q F E P Q P E Q V N G
UniRef90_W7WSL4 M L L R L C A G E A I G T C L V A G T P K N Q A
UniRef90_E2SB76 V G T R F H P T G K R R P A
UniRef90_UPI000469FCEA K T K L D A G K I A N A A G T A M I I T S G E R A T L F E P S R A P V I N A
UniRef90_UPI000463E014
UniRef90_D5UGS3 A G I T M V I C H G K E P D A L P R I A A G Q G T R F V A Q G A S H D T P
UniRef90_R5FW54 I S R M E E L R K E G L K P D A R S P Y L E E G I Y F F E R E G P N F P D D
UniRef90_H3ZJN9 H R A G I E V V I A S G H K K N V T L E A V D N K P V G T R F V I S K N S R L E A
UniRef90_UPI0003B5DCEE A G I P M L L L P G T R G V V L Q A L Q G E P V F F A A G E R R Y S G Q
UniRef90_UPI0003A035DC V R A A R L A A R S G A P T L I V G G K Q P V I R A F A Q G D S L G T L
UniRef90_E1VGG2 V G I I N G N S T E N V L K F L R G E E T G T F F S H I E D P K N K
UniRef90_F8E7X4
UniRef90_Q39QR3 S G N T V K Q T N F Q S T T S V G T I Y L N D E K P L F F K H G S G P L W P S V
UniRef90_J7RA33 V I A S G R E P H V L V R L A A A E P I G T Q L T A R T A R M A A
UniRef90_E5ALJ3 E D V G T W F T V N G A R K P V
UniRef90_B8H9P1 D N L Q S A R F T T T S G T Y Y V G S H D G E E V L W F Q M E G I V Y P T V
UniRef90_L2FC60 A R S G A S T V I A Y G R E P D A L L K I A G G V P I G T L L K P A Q S V M A S
UniRef90_UPI0003B4088B S G V H M V I A S G E R N D S I E V I A A G G R G T H F V A R D S K P H M
UniRef90_R5C110
UniRef90_UPI0003B6EC5C G G I S V Y I G K L T P E S R L I D M M K G T D V G T W F A P T G R R I R T
UniRef90_UPI000469B041 V R T A I A H G R R P E A I E Q I L A G E P H G T Q F E P R P R S E P A
UniRef90_U5DLT9
UniRef90_U9TU49 V I A S G R E R D V L V R L A A G E A I G T Q L I A R T A R M A A
UniRef90_B7CLS8 L K A G M E L I I A S G A K P E I D L V K G E G E A T F F K P T H S P L M V
UniRef90_E8LHT4 A I I N G L T P G N L L R L F D G E D I G T Y F F P A S N R M A A
UniRef90_UPI00047A98EE
UniRef90_Q1JWH3 K S G V A A I I F A G R G E R T L S R V M K G E L L L F L P A G E S L N R
UniRef90_W0SJK5 K T K I S A A R I A T S A G V R T V I T I Q G E D I G T Q F Q A Q P E P T S A
UniRef90_B5EEI5 I I A P G G A E D V L L R I W A G E P L G T Y F R P G V A K L A A
UniRef90_K9V9I0 A K D K L N I V K L S E
UniRef90_UPI0002624C69 I E T Y L F N G R S G E V V R A L A Q D R L Y G T R L H A G R T R I A A
UniRef90_UPI00039EABDC T S A G V R T V I T H G Q K P G Y L P K V L Q G E Q I G T Q F E P Q P P E N A
UniRef90_UPI0003091F95 G G V V A A I V N G H Q Q G V L Q N I V T G E D V G T L F L C G E D R Y S R H
UniRef90_UPI00037447B0 A G S G A S T V I A W G R E K D V L L R L T R G E S I G T L L V A N T H K M Q A
UniRef90_D0J046 T L L I P G R R P G V I L E A L A G A P L G T Y F H A R R Y R G Q
UniRef90_E8PQN0 G I P I F V G R I A Q E G D L L A A V L G N G Q G T Y F E A H G S A I P R
UniRef90_UPI00037CED22 R H A L P R
UniRef90_UPI0003B35841 V L A A Q R A S R S G C A T V I A S G R E P L V L E L R A G E M L G T L
UniRef90_I3BT74 S G A T V V I A D G R E Q D L L R L A K G E S I G T L F P P A T T N I E S
UniRef90_X0V9H9 A G A H M V I A S G K V K N P L R A I E T G A R C T W F L A P A N P V A S
UniRef90_X0V9H9 E R A G I A L A I I N T H S S P I D R A L D A G R G T L F L P Q G D E S A
UniRef90_A5PBB1 V G T V F A P R P E R M S A
UniRef90_AOR148 K G E P I S R S I W Q S S G G S A S I Y F L K K I P L A F S I S S D L V F P T L
UniRef90_GOTY82 S G I R V R L A D G R D P A V L E A L F A G E K V G T V F Q P S A T P L A D
UniRef90_K9P3G7
UniRef90_Q1DCK9 T A G I E S V I C S G S E P D A L V R I A R G E G T L F A P P V K H L D I A P
UniRef90_R7D115 E N H I A V L N K I P D K D R M E E V V M G G A V V C A F R P E E K R W E I L P
UniRef90_E1RGP7
UniRef90_UPI000367C569 K T K L Q A A K I V T R S G C A L F I A N G K R P D I F E T K D K T I F Y P V
UniRef90_C0QZ92 V I A S G R E P Q V L M R L S Q G E A I G T H L K A G K M K T L A
UniRef90_UPI00035F03B5 I I Q G E A I G T H F E P Q P E P T S A
UniRef90_U6L9V3 G A T T V I L S G K E P D N L R H L A A G N P V G T L F W P D M K P I K A
UniRef90_UPI0003A945E6 V I A S G R E T D V I V R L A R G E P L G T L L V S E T P P L T A
UniRef90_D7DW14 V I A W G R E P D V L T R L A A G E G I G T Q L T A T P R L T A
UniRef90_I1YK65 V A I I K G N E E Q S I T R F F E L K R V G T Y F A L P K E I L A R R K
UniRef90_A0A011NQR4
UniRef90_UPI00036D3856
UniRef90_V8CCT2

UniRef90_Q605N1 R K R W M A G Q L K L K G C F V V D E G A A R V L R D G K 110 L P G G V T A V S
UniRef90_UPI000478340B R K A W I L A G Q K P E S G V I T V D A G A E N A V L R R R G G A S S L L L P S G I V T A V S
UniRef90_E8UAB5 R K R W I L A E T V A S A S R I L T L D D G A A T A V L R R R G G A S S L L L P P V G V V R A D V S
UniRef90_A8HS47 R K A W I A G T L E A R S R G V L H L D D G A G V A A V L R R R G G A S S L L L P P A G I V V R V E
UniRef90_D8G6P0 R K H W I A N V L L P A G G V L Y L D D A G A V K A I L R S Q G G K S S L L L A A G I T Q I E
UniRef90_DOCQM5 A R K R W I S A M K P R G E I T T V D D G A A R A L E N Q G G S S L L L P A G I V T E
UniRef90_UPI0002260085 R K R W I A G G L T P M G D I T T L D D G A I R A L V Q Q G G S S L L L P A G V I T M V E
UniRef90_M7CJS8 R K Q W I A G H L Q T R G T L T L D D G A V K V L C G G R S S L L L P V G V V K S V A
UniRef90_C1D9T9 R K Q W I A H D H L R L A G R V L V L D D G A A R A V T S R H T S S L L L P A G V I A L V S
UniRef90_M7N5U9 R M L W L A H L A S T A Q G R V L V L D D P G A V R A V T T S R G A S S L L L P A G V I A V S
UniRef90_D3NX38 R K A W I A G H V N A A G V L V V D D G A M R A I S S H G A S S L L L P A G V I A V S
UniRef90_K0C236 R K R W L T A H L D V K G R V L V L D D V G A A Q A I R S R G V S S L L L P A G V I A V S
UniRef90_UPI00035E3CDE R L L W L A H A T T G R G R L S L D P G A V E A V R R R R K S S L L L P A G V I T S V E
UniRef90_A1KYH0 R K R W I A Y G L L P R G K L Y L D K G A V K A I S K G K S S L L L A A G I L K V E
UniRef90_A6GR43 R K Q W M A D H L K L K G S L L L D A G A A D A L R K K G S S L L L P I G V I T G R E
UniRef90_Q12Q10 R K Q W I L A G P A A K G C L V I D D G A A N A V I N G K R S S L L L S K G I T G A
UniRef90_S6EPD0 F T C W S C P Q L L L P V V I T H G F V I E R I F N G G A N L M L A G T V P P D E
UniRef90_A0YVP6 R K H W I A N V L T P M G K L Y L D E G A V R A I Q Q G G S S L L L A A G I T T Q V E
UniRef90_UPI00041ED35E R K R W L L A G P P P Q G E L V L D D G A V R A V V Q G G S S L L L P A K G V I A A R
UniRef90_UPI00036D513E R Q L W L A H A T A G R G S V V L D P G A V R A V A E E N S S L L L P A G V V K V D
UniRef90_L8HES0 R D D W V P T D L M L Q G E V V V D P K S S E W W Q K R P S L L L P A G V V K V D
UniRef90_UPI0002D77315 R K R W L A G P A A T G E V I D E G A V K A I T K G S S L L L A K G V I G V N
UniRef90_V5PMZ6 R K Q W M A D H L Q V R G R V V I D A G A C K K L A E G K S S L L L P I G V I D G V E
UniRef90_UPI00034B140B R K R W I A N G L V A M G K I Y L D D G A V K A I C Q Q G G S L L L P A G V I H L
UniRef90_D2VNW6 F A L Q I A P N L V D T I Y I A Q P V S H Y L L Q G G A D L M K P A G V S K N Q
UniRef90_Q2NCX7 R K A W L G G R L A P Q G T L R V D A G C A Q A L Q Q G G A S L L L A A G I V G I S
UniRef90_K2QBJ1 R K T W I A G Q L Q P A R L Q V L D N G A E G A L R S G G S S L L L P A G V R S V E
UniRef90_W1N2G0 R K R W L A G Q L Q V R G T L T L D D A G A V R V L R S G G S S L L L P A G V R K V E
UniRef90_I3WG21 R R L W I G F A S D P R G A L V A D A G A K A I V R G G R S S L L L A A G V V E V H
UniRef90_UPI00039FCD9E W K V W I S G H L D A A Q G L V I D D G A K A L K S G G S S L L L P A G V R E V
UniRef90_Q72DJ9 R K Y W L A Y Q S E P S G T V T V D D G A A R A L L Q G G S S L L L P G G V C
UniRef90_UPI00037CE288 R K R W L A G Q L Q V R G R L T L D D G A V R Q I R R G S S L L L A V G V V A V E
UniRef90_Q114A6 R K H W I A N V L V P A G R L Y L D D G A V K A I S E G K S S L L L A A G I A V
UniRef90_W7WSL4 R K R W M A D H L Q L R G S V R V D D G A V Q K I L G G K S S L L L P I G M T A V E
UniRef90_E2SB76 R L L W L A H A S E T K G R L V L D D G A V G A V A R G T S S L L L P A G I T A V E
UniRef90_UPI000469FCEA R K Q W L A D H L Q I R G N I M L D E G A V E A L V G G K S S L L L P I G V T N V I
UniRef90_UPI000463E014 W K T W I S G N L E P A G K L V D A G A K A L K S G G S S L L L P A G V K E I
UniRef90_D5UGS3 R L L W L A H A A R T R G R L V L D E G A V R A L V R R T S S L L L P A G V T D V E
UniRef90_R5FW54 R K L W I A L G G D S A K G I E V D E G A K R A L V R G G A S L L L P V G I V S V E
UniRef90_H3ZJN9 Y E P K L P K V V I A N K F A A E S V Y Q G A Q L Y A P G V L K A D E
UniRef90_UPI0003B5DCEE R K N W I F A G S R I A G K I I V D Q G A E Q A L S G S S L L L A K G I I T T E
UniRef90_UPI0003A035DC K L W L S Q L P K P A G E I L V D A G A A R A L R D G A S S L L L P A G I R G V
UniRef90_E1VGG2 R K Q W L A G H L Q M R G E T V Q L D E G A V R A L R R K G V S L L L P V G V S G V T
UniRef90_F8E7X4 K K L W L A Y A T I P K G D I V V D D G A V R A V R N K K S S L L L P S G I V D V S
UniRef90_Q39QR3 R K H W I A H T L R P S G R V I V D D G A R T V L R Q G K S S L L L P S G I R V E
UniRef90_J7RA33 Y A C W S H P G L L P I L T H S V V I E H L F N G A N L M I S G T M P P F
UniRef90_E5ALJ3 R K Q W V A D H L Q V R G H V V I D A G A L E K L T S G K S S L L L P V G I T V D V Q
UniRef90_B8H9P1 R L L W L A H V A S V Q G R L L L D E G A V R A V R H R T S L L L P A G I S A V H
UniRef90_L2FC60 Y T L W S N P D I V P L R K R W I A G Q L Q V R G R L T L D D G A V K V L R Q G R S S L L L P V G V V R H I S
UniRef90_UPI0003B4088B R K R W I A G Q L Q V R G R L T L D D G A V K V L R Q G R S S L L L P V G V V R H I S
UniRef90_R5C110 K K R W I A F G K R L K G S V I T V D K G G A D A L L K G G S S L L L P V G I T A V V Q
UniRef90_F7VFJ9 R K Q W I A G S L T P A G E I M I D D G A K E A I I N G A S S L L L P I G V I K V K
UniRef90_UPI0003B6EC5C R R L W L A H A A H T R G Q V L D D G A V R A I T V G K S S L L L A A G V T G V H
UniRef90_UPI000469B041 K K Q W L G L H S M V R G E I M I D A G A S Q A L T Q G K S S L L L P A G V L D V Q
UniRef90_U5DLT9 R K R W I A Y G L V T S G T L T L D W G A V Q A L R R R G K S S L L L A A G I T A V T
UniRef90_U9TU49 W K F P D M L L P K I P T F D M V I S K L T G G A N L M I P G I A F P S
UniRef90_B7CLS8 R K Q W M A D H L Q V R G H V V I D A G A V D K L T G G A S S L L L P I G V I A V V Q
UniRef90_E8LHT4 K K L W L S T M A K S S G Q I F I D D G A K E A I I N G A S S L L L P I G V I K V K
UniRef90_UPI00047A98EE R K H W L Q N A P A E P G G I F I D A G A G N A I V K G A S S L L L P S G V V A A E
UniRef90_Q1JWH3 K K H W I A F T K K P R G K L V D E G A V N A I V N G R S S L L L P S G I K G V E
UniRef90_W0SJK5 R K Q W L A D H L Q L A G A L T L D A G A Q T A L A G R G S S L L L A V G V V R V E
UniRef90_B5EEI5 R K H W I A F T I K P A G S I V V D A G A R D V L S R G R S S L L L P S G I A Q V E
UniRef90_K9V9I0 R K R W I A Y G L V P A G K L Y L D A G A V S A I A Q G K S S L L L A A G I L V E
UniRef90_UPI0002624C69 R K R W L V G Q L R P N G L L H L D A G A V K V L R K G S S L L L P V G I T A A E
UniRef90_L1JZM8 P H P Q A L A P V S K F V V N G A D L M L P G V V G V E
UniRef90_UPI00039EABDC R K Y W L R H A P V E A G A L I L I D D G A A A R A I T K G A S S L L L P G G V A G A T E
UniRef90_UPI0003091F95 R K R W I A Y G L V A M G K I Y L D D G A V R A I C N G G K S S L L L A A G I T Q T E
UniRef90_UPI00037447B0 R Q H W I A D V L H V A G Q I H I D A G A A Q A I I N G A S S L L L P I G M T D V E
UniRef90_D0J046 R K Q W I A D H L Q L R G S V L V D A G A V S K L R D G K S S L L L P I G M I T V E
UniRef90_E8PQN0 R A W L Y S L L R P K G E L T V D A G A V R A L R K G A S S L L L P A G I K A V R
UniRef90_UPI00037CED22 K K Q W L G F F S I P I G T L T I D A G A E E A M I H G C S S L L L P V G V K A A Q
UniRef90_UPI0003B35841 R K F W L A Y Q S D P A G S V H V D S G A A K A L L K G G S S L L L P G G V F R V E
UniRef90_I3BT74 R K Q W I A G Q L A A K G T L W L D S G A A D A I L K G K S S L L L P I G V T R V E
UniRef90_X0V9H9 R K R W M L A G L A T K G R L V V D K G A V V A L R Q N R S S L L L P A G I K A V E
UniRef90_D7AAT7 R K R W I A G A L E P A G T L H L D A G A V A A L R R G G S S L L L P A G V K K V E
UniRef90_A5PBB1 R K A W L S G R L A P A G V L T V D E G C T T A L A N G A S V L A A G L T E V E
UniRef90_A0R148 R K F W M R Y A A E S A G A L T L D D G A V R A V I K R R S S L L L P A G I T S V T
UniRef90_G0TY82 F F I L M M R D A I E R N N V F C R G P T S Q A L V S G A H L M I P G I V N V E
UniRef90_K9P3G7 R K S W L A H A L L E K G S V R V D A G A E R A L L Q G A S S L L L A V G I R E V E
UniRef90_Q1DCK9 R A A W I A H A L R A R G T V T V D A G A R E A I V T G R S S L L L P S G V R G V E
UniRef90_R7D115 R K L W L A L G D Q A H G S V T V D D G A A H A L T N G S S L L L A V G I R G V Q
UniRef90_E1RGP7 R T H A A L Y S K P E K G F V I A D D G A I E S I Q S G S S L L L A P G L V D I H
UniRef90_UPI000367C569 R L L W L A H A S T P L G A L T L D A G A V E A V V R H T S L L L A A G I E S V H
UniRef90_C0QZ92 K R R W I A Y A T T I V G K L V L N A G A K A V L K E S S S L L L P I G I T K V I
UniRef90_UPI00035F03B5 K K Q W L A D H L R V G K L V L D D G A V N V L S K G K S S L L L P I G V V D V L
UniRef90_U6L9V3 H G L W R C P Q M L P C M I V P S P V S Q L V L K G A D L M L P G I C R P I
UniRef90_UPI0003A945E6 R K Q W L A G H L Q T R G R L L I D E G A V K A I A S G R S S L L L P V G I Q A V E
UniRef90_D7DW14 R K R W I A Y G L V P M G K L Y L D D G A V N A I S Q G K S S L L L A A G I K A V Q
UniRef90_I1YK65 R Q Q W L V G H L I P K G K L I L D D G A V N V I C Q G R S S L L L P V G I R A V Q
UniRef90_A0A011NQR4 R K Q W L A D H L Q L N G K L I L D D G A V H A L R D G K S S L L L P I G I L T V Q
UniRef90_UPI00036D3856 R R Q W M V I D H L T T G E V V I D D G A A Q K L R D T R G K S S L L L P I G V I A V N
UniRef90_V8CCT2 K R F W I E S V A I P Q G K I I I D L G A S Q A L R H N K S S L L L P K G I L G V V

UniRef90_Q605N1 G E F R R G D L V A C T D S A G Q E 140 I A R G G L T N Y S A E E A R L I M R R Q P S
UniRef90_UPI000478340B G N F M R G A D V I A G P D G G R E E I I A R R G G L T R Y R D S A V A L L D R R I V K R R H G S
UniRef90_E8UAB5 G D F E R G Q D T V L R Y R G P D G G S E H E I I G R R G L L T R Y R D S A V A L L D R R I V K R R H G S
UniRef90_A8HS47 G Q L F E R G D T V L R Y R G P D G G S E H E I I G R R G L L T R Y R D S A V A L L D R R I V K R R H G S
UniRef90_D8G6P0 G E F Q S E D A V Q L C D A Q D G G K E E V A R G G L L V N Y S S F E L R R I Q Q G G Y H S S
UniRef90_DOCQM5 G D F G R G D P V A I K D H T G D G R R E L L G L G R G L L S R Y T A H E A D A R R I K G R R K S S
UniRef90_UPI0002260085 G E F S R G G D L V R S Y K D S D G R E E I V A R R G L L V N Y S S A E A D A R R I A G R R S S
UniRef90_M7CJS8 G Q F R R G E M V S C I D S D G R E E I V A R R G L L V N Y S S A E A D A R R I A G R R S S
UniRef90_C1D9T9 G S F L R G D A V A C I V D S D G R E E I V A R R G L L V N Y S S A E A D A R R I M R R H P S
UniRef90_M7N5U9 G S F F E A G D A V E C I V D S A A G T V I A R R G L L V N F S S A E L P Q M L M G R S T
UniRef90_D3NX38 G E F D R G D V V I V R T E S G G R E E V V A R R G L L V A Y S S A D D A R K I L R H K S
UniRef90_K0C236 G S F A A G D L V V C V N G E S G G D V L A R R G L L V N F D A A E I P G L K G R N S T
UniRef90_UPI00035E3CDE G E F A A G D P V D L C V N G E S G G D V L A R R G L L V N F D A A E I P G L K G R N S T
UniRef90_A1KYH0 G S F D S A D A V Q L C D E T G G Q E E I V A R R G L V N Y N Q E E I N K I K G N H P S
UniRef90_A6GR43 G N F Q R G D V V A C L S D P E Q G R T V L A R R G L V N Y N A A A E V K K I A K G Q H S
UniRef90_Q12Q10 G E F A R G G V T L R I V D T Q G R T V L G R G I S R Y C A K D V S C I G K P T S
UniRef90_S6EPD0 G N L K P G K L C G I A S K G P D M V M A V G V V Q L D L P I F E S V I R G K S
UniRef90_A0YVP6 G S F Q T Q D S V K I C D L G G Q E I A R R G L V N Y N Q A E L Q K I K G Y R S
UniRef90_UPI00041ED35E G S F Y R G D V V R L T N E N G E E I A R R G I V N Y N Q Y Q D I K K G L H S
UniRef90_UPI00036D513E G E F V A G D P V D L R D E D G R L V A R R G L V N Y D A V E I P D L M G R S T
UniRef90_L8HES0 G R W Q Q G S L R A L C V K S G K A P L I G V G H M L V S S E T V E R A G M S
UniRef90_UPI0002D77315 G N F A A G E V I A C I V D E A G G H E V A R R G L S N Y S S A E T R L I R R H A S
UniRef90_V5PMZ6 G T F A R G E V I A C I V D E A G G H E V A R R G L S N Y S S A E T R L I R R H A S
UniRef90_UPI00034B140B G E F G A N E A V E I V N Q Q G Q E L L I G K G L V N Y S S E E L T K I K G Q K S
UniRef90_D2VNW6 K N F K K G D I R S I Q V R G N P E I P F A I G D M I M D F D E F S K K A D
UniRef90_Q2NCX7 G A F R R G D L V S I V T V S G R K I A Q G L A E Y D S S E C Q Q A I G K R E S
UniRef90_K2QBJ1 G A F H R G D T V S I V T I E G G R E I A R G L L A G Y D A D E A R R I C G G R K S
UniRef90_W1N2G0 G S F V R G D M V L C V D E Q G G E I A K G L V N Y G A E D A G R I L G G Q P S
UniRef90_I3WG21 G E F S A G D P V W I D D E A G G A H L A R R G L L A G F D S E E I P Q M L G R N T S
UniRef90_UPI00039FCD9E G D F Q R G D T V S I L N L E J G R E V V A R R G L L A G Y D A V D A V K I A G H R S
UniRef90_Q72DJ9 G A F E P G A L V I A G P D G T V I A V G L S N Y G D R D L V R I K G H R R S
UniRef90_UPI00037CE288 G E F R R G D M V L C V D S V G E P V A K G L V N Y D A F D A R R I Q G V A S S
UniRef90_Q114A6 G E F N S R D A V K L C N E K G Q E I A R R G L V N Y S S E L Q K I L C C R S S
UniRef90_W7WSL4 G E F S R G D V I A V R D G A G Q E I A R R G L A N Y S S E A R L L C R K S S
UniRef90_E2SB76 G D F V A G D P V D L V G L D G A V V A R R G L V N F D S T E L P V M L G R S T
UniRef90_UPI000469FCEA G T F E R G E L V G C L D P I G R E I A R R G L I N Y N A A E T R R I L R R A S
UniRef90_UPI000463E014 G Q F E R G D T V A V L L N E E R R E I A R R G L I A Y D A D A D A R K I A G H K S
UniRef90_D5UGS3 G A F E A G D P V E L V D A A G T V V A R R G L V A Y G A E E V P Q L L G R S T
UniRef90_R5FW54 G A F S R G D L V D I K D T D G H L F A G R A G A P Y S E M S L A R G R Q D
UniRef90_H3ZJN9 K G I K E G D E V Q I R D P K G L L V G I A R M S A K E M V V I A T
UniRef90_UPI0003B5DCEE E T F L R G Y V V L I C N Q A G N E I A R G V V R Y K S I D I E K I K G Q H S
UniRef90_UPI0003A035DC G S F G V G E A V R C L G D P R D G K E L V G V G L V N Y S S A E L E R I K G A K T
UniRef90_E1VGG2 G D Y S R G E M V L C V L G D G K E R V A R G G L T N Y S S A E E T R K I L R A S T
UniRef90_F8E7X4 G K F G I G D V V R I V N K N E E E I A R G G K V R Y S H F D L K K I M G R K T S
UniRef90_Q39QR3 G E F D R G A C V R V C G A N D G A E I A R G V V D Y S H A E I E R I L G H R S
UniRef90_J7RA33 D H L H K G R P C G I A G A D G P D V I A V G T L K M D L E P F N T G V V G H
UniRef90_E5ALJ3 G I F A R G E V I A C I D E A G G E I V A R R G L T N Y S S A E V R L I R R H P S
UniRef90_B8H9P1 G V F E A G D A V E I A G A D G T I V A R R G L V N Y S S E E L P R M L G R S T
UniRef90_L2FC60 K G I K E G A V A I A S E N P S V P V A V G A C E I D V S A L Q N V R G A
UniRef90_UPI0003B4088B G E F D R G D L V L C L G L D G R E I A R G L S N Y G A S E A T R I I G A P S
UniRef90_R5C110 G E F H E G E T I S I L F N D E E I A R G M V N F S S A D D A R K I K G C N S S
UniRef90_F7VFJ9 G D F T Q G D L V V I D E S G R L A R R G L T S Y D A D D A R R I A G H R S
UniRef90_UPI0003B6EC5C G E F E V G D P V D L V D T R G V V V A R R G L V A Y S A D E L P T R M G R T S S
UniRef90_UPI000469B041 G E F H Q G D V V E V K D E K G R T L G R G I S N Y N A W Q I R A V K G L S S
UniRef90_U5DLT9 G E F L J A G D A V A L C T P D G K E F A R R G L S N F D N S E V E Q I L R G R Q S S
UniRef90_U9TU49 P E V N E G E L V S V V R G S K Q P M A V G T M N I S T K L L E P G S T R
UniRef90_B7CLS8 G V F A R G E V I A C V D D T G R E V A R G I T N Y S S A E T K I Q R K P
UniRef90_E8LHT4 G E F Y R G S I V T V C D L G K K L A K G S R Y S F D E V D R I K R K S
UniRef90_UPI00047A98EE G E F R R G D M V E L V E G G V R R V A R G V S Q Y S A A D I R R I A R R H S
UniRef90_Q1JWH3 G G F D R G D A V R L C D E Q G N E F A K G V T N Y S S A E L R I A M G K T
UniRef90_W0SJK5 G D F F R G A V A C R S H D G R E I A R G L I N Y S S S E A R R I A G H G T
UniRef90_B5EEI5 G R F D R G A C V R V L D P E G V E F A R G I T D Y S S Q E V E K I A G H Q S
UniRef90_K9V9I0 G E F D I Q E A V L C C D R T G N E I A R R G L V N Y G S E E L R K I Q G Q K S
UniRef90_UPI0002624C69 G N F Q R G D L L C C V D P E G Q E I A R R G L V N F A Y E D V L R M G K S S
UniRef90_L1JZM8 P D F D K G D L M L I Y C V I G N P M P F A I G D M L M S K K D A I S S G M
UniRef90_UPI00039EABDC G D F R R G D M V E I R G S D G A P C V A R G V S Q Y S A V E I R R I A G R H S
UniRef90_UPI0003091F95 G E F Q V S D A V Q L C D R N G N E I A R R G L V N Y S S T E I R Q Q I A G L S S
UniRef90_UPI00037447B0 G D F D K G E C V E V J A D A V V I A R R G L C N Y N S T D L K R V I Q Q G L S S
UniRef90_D0J046 G D F S R G E V I A V R D E N G V E I A R R G L A S Y A S A E A R L L C R K K S
UniRef90_E8PQN0 G R F R G R G E V R L L T E A G E E V G V G L A N Y A A E E I E R I K G H K S
UniRef90_UPI00037CED22 G H F H T G D V V E L V N L D G E V L G R G I V N Y D T E Q L L Q I L G L P S
UniRef90_UPI0003B35841 G S F Q Q G G L V R V L H E G Q S L J A G V G L S N Y S S D E L K K I M G L Q P S
UniRef90_I3BT74 G V F D R G E V S C V S E D G R L I A K G L V N Y S S E E A I R I K R Q P S
UniRef90_X0V9H9 G D F K R G D T V D I V S E A G G E R A A C G I S N Y S S Q E L A V I K G A R S S
UniRef90_D7AAT7 G V F E R G D A V L R G P D G A E I G R G L V A Y D H D H A E R I K G R S S
UniRef90_A5PBB1 G D F R R G D L V A I H G A K G E R I G G Q G L V E Y T A D E C R A I L G
UniRef90_A0R148 G R F H G G D V D L R A L D G H T V A R G V V A Y D Q A E L A S I I G R S T
UniRef90_G0TY82 T N I L K G D A V Y I Y S T G N R I P F A I G L A T E E L E R I K G R N A E S
UniRef90_K9P3G7 G H F S R R E A V R V L A S D G R E L G R G L S T L S S E E L R R I K G L S S
UniRef90_Q1DCK9 G D F G R G D P V D L V D A E G A V F A R R G L A A Y D A N E L R R I A G H R T E
UniRef90_R7D1I5 G P F A A G D L L V K D A S G M V I A R R G L A E A D S D T L E L A A G R R E
UniRef90_E1RGP7 P D V K D G D E V L I D R A G N C I G A G R S V N A D A V K M E
UniRef90_UPI000367C569 G A F S A G D P V E L R D E A G R P V A R R G L V N F D A K E L P Q L L G R S T
UniRef90_C0QZ92 N N F K K G D T V S I L D E N G T E F A R R G I V N Y N S D D V Q K I L G H H S
UniRef90_UPI00035F03B5 Q Q F E R G D V A C V D A Q G K E W A R G I V N Y N A N E V R R I K R K P S
UniRef90_U6L9V3 N S V E L G D I W A V R V A G N A L P I A V G R A V T R A P S L E L L G E T
UniRef90_UPI0003A945E6 G S F R R G E M V V C V G P D G R E V A R R G L V N Y S A Q D A A R I L G Q P T S
UniRef90_D7DW14 G E F D H Q E A V Q L C D G T G N E I A R R G L V N Y S S E E L Q K I C G C H S
UniRef90_I1YK65 G D F S R G E L V I C C D A Q G R E V A R R G L A N Y S A E S I R I M G Q P S
UniRef90_A0A011NQR4 G D F E R G A A V A C V S E G I E V A R R G L V N Y S S S D G R R I A R R A S S
UniRef90_UPI00036D3856 G E F G R G Q V I T C V D E H G K P L A R R G L T N Y A S S E V R R I M R R S S
UniRef90_V8CCT2 G E F R S D E V V S I C L Q E G E K E I A R G Q S K Y S A T E V A K I A R C D S

UniRef90_Q605N1 T R L E E L G Y V ¹⁷⁰

UniRef90_UPI000478340B G D A A E L H R D D L

UniRef90_E8UAB5

UniRef90_A8HS47 E K A H L G Y A G

UniRef90_D8G6P0 S G R A V M L H R D D L

UniRef90_DOCQM5

UniRef90_UPI0002260085 H R I T E V L G Y I S D E

UniRef90_M7CJS8 R D I E R L L G Y V G

UniRef90_C1D9T9 R D L G

UniRef90_M7N5U9 T E I R D E M I H R D D L

UniRef90_D3NX38 S E I E R L L G Y V G

UniRef90_K0C236 R E L A S E L I H R D D I

UniRef90_UPI00035E3CDE

UniRef90_A1KYH0 S A I E S L L G Y L D E

UniRef90_A6GR43 D E I E T I L L G Y D Y G D

UniRef90_Q12Q10 T G V A V Q I V H F L P D G L

UniRef90_S6EPD0 E K I P E V L G Y A G

UniRef90_A0YVP6 E Q I E A V L G Y V Y G

UniRef90_UPI00041ED35E R W L A R E I V H R D D L

UniRef90_UPI00036D513E Q G K G V E M L H L F Q D K L W

UniRef90_L8HES0 K Q I G S E V V H R D D L

UniRef90_UPI0002D77315 T D I

UniRef90_V5PMZ6 G D I A S I L G Y F G

UniRef90_UPI00034B140B K G K C F E T V H I F N D F M W Q F G

UniRef90_D2VNW6

UniRef90_Q2NCX7 N G R A A M I H R D D L

UniRef90_K2QBJ1 R R A

UniRef90_W1N2G0 A Q L R R F L G D E F

UniRef90_I3WG21 G E I E E I L G Y F

UniRef90_UPI00039FCD9E H E V A A E V V H

UniRef90_Q72DJ9 R D I A A Q L

UniRef90_UPI00037CE288 E N I S D I L G Y V G

UniRef90_Q114A6

UniRef90_W7WSL4 R D L L A E V V H R D D L

UniRef90_E2SB76 S E I E T V L G Y L G

UniRef90_UPI000469FCEA

UniRef90_UPI000463E014 P G Y D R E L V H R D D L

UniRef90_D5UGS3 E L K G N E L L E Y L N

UniRef90_R5FW54 R G I A V E V

UniRef90_H3ZJN9

UniRef90_UPI0003B5DCEE R D L E A E V I H R D Y F A L A S E L A

UniRef90_UPI0003A035DC D S I T A R L G Y V Y E P E L

UniRef90_E1VGG2 S E I

UniRef90_F8E7X4 G E I E A L L G Y K Y G D E I

UniRef90_Q39QR3 S G V V V E V A H H F A D G L

UniRef90_J7RA33

UniRef90_E5ALJ3 R D L G E E L

UniRef90_B8H9P1 K G H A V K N L H W A G D E M W G F S T

UniRef90_L2FC60 T E I

UniRef90_UPI0003B4088B H E I

UniRef90_R5C110 S E L A G E I I H R D D L

UniRef90_F7VFJ9 A G N D R E V V H R D D L

UniRef90_UPI0003B6EC5C Q E V A I E V I H

UniRef90_UPI000469B041

UniRef90_U5DLT9 K G I A V N V I H I F G D C L W S M G D Q S

UniRef90_U9TU49 S G E I E T V L G Y

UniRef90_B7CLS8 Q D I G A V V V H R D D L V V L G S

UniRef90_E8LHT4 R E I E S I L G Y S Y G D

UniRef90_UPI00047A98EE A E I E R V L G Y K Y G D E I

UniRef90_Q1JWH3 Q D I S A E L I H R D N L

UniRef90_W0SJK5 S E I E G I L G F R Y G D D

UniRef90_B5EEI5 Q A I A Q I L G Y K G

UniRef90_K9V9I0 K T L E V E I I H R D N L

UniRef90_UPI0002624C69 K G K C M R V L H T Y R D S L W E S G S S L A

UniRef90_L1JZM8 R E I A S V L G Y S Y G D D L

UniRef90_UPI00039EABDC D Q I P K I L L G Y M G T E

UniRef90_UPI0003091F95 Q E M A

UniRef90_UPI00037447B0 S E I

UniRef90_D0J046 A E I E A E V V H R D H L

UniRef90_E8PQN0 A E V V M E I V H R L

UniRef90_UPI00037CED22 H E V A A E V I H R D N L

UniRef90_UPI0003B35841 K S I A P E L I H R D N L

UniRef90_I3BT74 D K I E S L L G Y G Y G D E

UniRef90_X0V9H9 D E I V

UniRef90_D7AAT7

UniRef90_A5PBB1 H E L P V E M

UniRef90_A0R148 R G R G V Y I L H S Y K D N L W E

UniRef90_G0TY82 E E V

UniRef90_K9P3G7 A D I E A V L G Y R Y L D E

UniRef90_Q1DCK9 E D I

UniRef90_R7D1I5 R G Q V V R T

UniRef90_E1RGP7 G E L A R E V V H R D D L

UniRef90_UPI000367C569 D D I L K I L L G Y K N

UniRef90_C0QZ92 N E I

UniRef90_UPI00035F03B5 K G K A L D L M H R L G D S L W N H G K H V

UniRef90_U6L9V3 D A V A K I L L G Y L

UniRef90_UPI0003A945E6 R D I A

UniRef90_D7DW14 Q D I A I E S L L G Y V D E

UniRef90_I1YK65 Q D I

UniRef90_A0A011NQR4 A D I E G I L G Y V E G P E L

UniRef90_UPI00036D3856 R Q I E S L L G K S R G D E

UniRef90_V8CCT2

UniRef90_A4ERD7
UniRef90_UPI000376B474
UniRef90_L9U7U3
UniRef90_B9NRN3
UniRef90_R9T4W2
UniRef90_UPI0003B5744D
UniRef90_L0IFR7
UniRef90_UPI000366CE85
UniRef90_L0HHZ6
UniRef90_UPI0003B57032
UniRef90_Q1YPZ4
UniRef90_UPI0003F6042A
UniRef90_C5CAZ6
UniRef90_UPI000373FCCE
UniRef90_N6W9C1
UniRef90_A0A031GLV7
UniRef90_Q5QY57
UniRef90_A6W351
UniRef90_UPI000367BB94
UniRef90_U4TFV1
UniRef90_UPI0004793391
UniRef90_UPI0004195B8E
UniRef90_UPI000475BE40
UniRef90_UPI00035D0225
UniRef90_C0QQB5
UniRef90_UPI000368EA18
UniRef90_G0ADU6
UniRef90_E4RJ58
UniRef90_K9Q294
UniRef90_D3DKE2
UniRef90_UPI000348107D
UniRef90_V9W5P0
UniRef90_F7RVP1
UniRef90_UPI000475F85F
UniRef90_B9JUH8
UniRef90_G2D970
UniRef90_Q4QBR8
UniRef90_X5JLE3
UniRef90_UPI0004700BD7
UniRef90_UPI00046334A5
UniRef90_Q9KCR4
UniRef90_C4XR31
UniRef90_A0PXA5
UniRef90_K0JVD9
UniRef90_B6WVG2
UniRef90_Q1NBJ7
UniRef90_UPI000365CC60
UniRef90_HOPY94
UniRef90_UPI00026254B7
UniRef90_UPI000424E918
UniRef90_A6FCA8
UniRef90_B8GQQ4
UniRef90_G6FNU3
UniRef90_E3H7K5
UniRef90_A0A015MQX5
UniRef90_UPI00047C516B
UniRef90_UPI00041537FD
UniRef90_L0WC12
UniRef90_A0A017HGY1
UniRef90_A1TTD2
UniRef90_A3JSG6
UniRef90_UPI0003B62E19
UniRef90_Q8PK34
UniRef90_B2V6I4
UniRef90_Q21M06
UniRef90_B5ELU1
UniRef90_UPI0004771E8C
UniRef90_G0VLT7
UniRef90_F2N7G7
UniRef90_UPI00035C9070
UniRef90_UPI000365B3F8
UniRef90_UPI000248CDD3
UniRef90_Q4K5T9
UniRef90_E8N489
UniRef90_H3NWI3
UniRef90_UPI0004674897
UniRef90_UPI000476B665
UniRef90_F4H3K4
UniRef90_J6IQF8
UniRef90_Q24XR7
UniRef90_K6W8T4
UniRef90_L0KBY8
UniRef90_K9PEJ2
UniRef90_U1KVK2
UniRef90_E6KPN5
UniRef90_UPI000471471E
UniRef90_D5C4A5
UniRef90_C1CVQ3
UniRef90_A7BVA5
UniRef90_D7ETF5
UniRef90_W5Y249
UniRef90_E0XY66

1

10

20

30

40

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

UniRef90_A4ERD7
UniRef90_UPI000376B474
UniRef90_L9U7U3
UniRef90_B9NRN3
UniRef90_R9T4W2
UniRef90_UPI0003B5744D
UniRef90_L0IFR7
UniRef90_UPI000366CE85
UniRef90_L0HHZ6
UniRef90_UPI0003B57032
UniRef90_Q1YPZ4
UniRef90_UPI0003F6042A
UniRef90_C5CAZ6
UniRef90_UPI000373FCCE
UniRef90_N6W9C1
UniRef90_UPI0003GLV7
UniRef90_Q5QY57
UniRef90_A6W351
UniRef90_UPI000367BB94
UniRef90_U4TFV1
UniRef90_UPI0004793391
UniRef90_UPI0004195B8E
UniRef90_UPI000475BE40
UniRef90_UPI00035D0225
UniRef90_C0QQB5
UniRef90_UPI000368EA18
UniRef90_G0ADU6
UniRef90_E4RJ58
UniRef90_K9Q294
UniRef90_D3DKE2
UniRef90_UPI000348107D
UniRef90_V9W5P0
UniRef90_F7RVP1
UniRef90_UPI000475F85F
UniRef90_B9JUH8
UniRef90_G2D970
UniRef90_Q4QBR8
UniRef90_X5JLE3
UniRef90_UPI0004700BD7
UniRef90_UPI00046334A5
UniRef90_Q9KCR4
UniRef90_C4XR31
UniRef90_UPI00040XA5
UniRef90_K0JVD9
UniRef90_B6WVW2
UniRef90_Q1NBJ7
UniRef90_UPI000365CC60
UniRef90_HOPY94
UniRef90_UPI00026254B7
UniRef90_UPI000424E918
UniRef90_A6FCA8
UniRef90_B8GQQ4
UniRef90_G6FNU3
UniRef90_E3H7K5
UniRef90_UPI0004A015MQX5
UniRef90_UPI00047C516B
UniRef90_UPI00041537FD
UniRef90_L0WC12
UniRef90_A0A017HG1
UniRef90_A1TTD2
UniRef90_A3JSG6
UniRef90_UPI0003B62E19
UniRef90_Q8PK34
UniRef90_B2V614
UniRef90_Q21M06
UniRef90_B5ELU1
UniRef90_UPI0004771E8C
UniRef90_G0VLT7
UniRef90_F2N7G7
UniRef90_UPI00035C9070
UniRef90_UPI000365B3F8
UniRef90_UPI000248CDD3
UniRef90_Q4K5T9
UniRef90_E8N489
UniRef90_H3NWI3
UniRef90_UPI0004674897
UniRef90_UPI000476B665
UniRef90_F4H3K4
UniRef90_J6IQF8
UniRef90_Q24XR7
UniRef90_K6W8T4
UniRef90_L0KBY8
UniRef90_K9PEJ2
UniRef90_U1KVK2
UniRef90_E6KPN5
UniRef90_UPI000471471E
UniRef90_D5CA45
UniRef90_C1CVQ3
UniRef90_A7BVA5
UniRef90_D7ETF5
UniRef90_W5Y249
UniRef90_E0XY66

50 60 70 80

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

UniRef90_A4ERD7 R W L S A M K T R G V L T V D E G A A N A L V Q N G K L P A G V I R H V 120
UniRef90_UPI000376B474 R L L W L A H L A S V R G T L V L D D G A V K A L V R R R T S S L L L P A G V I R A V V K
UniRef90_L9U7U3 R K R W L A G Q L Q V R G T L V L D D G A V K A L V R R R T S S L L L P A G V I R A V V K
UniRef90_B9NRN3 W L S A M K P R G E T L M V D D G G A V A A L V R N G G K S S L L L P A V G I V R A D V Q T
UniRef90_R9T4W2 R W L A Y A F P H G T I Y I D K G G A E E A L R N G G N S S L L L P C G I G I T R S V V E K
UniRef90_UPI0003B5744D R K N W L A F S H T K G D L E V D D D G G A R K A L V R R G G K N S S L L L P A G V I V R A D V V K
UniRef90_L0IFR7 E G R L A E A F D P R G D I V V D D D E S E F P A L V R D G G K N S S L L L P A K F T F I C G C N D V G K
UniRef90_UPI000366CE85 R K R W L A G H L Q A K G Q L V L D D D G A V E A L R R Q G G R N S S L L L P A V G I V V S S F E D
UniRef90_L0HHZ6 H G A L R L H F E F P R M R L V V D D P D S A E F N R Q G G R N S S L L L P A K F L R C G D
UniRef90_UPI0003B57032 R T V W L A H L A A A K G R L V L D D D G A V A A V L E J E G R S S L L L P A G I V V T A V V E
UniRef90_Q1YPZ4 R K Q W L A G Q L Q V K G Q L V L D D G A L K A L V Q Q G R S S L L L P A V G I V V T A V V K
UniRef90_UPI0003F6042A R R L W I G F A A E P R G T L V V D D G A A K A V L R A G R S S L L L P A G A G I V T A V E
UniRef90_C5CAZ6 R A A W L G L T A E V R G R L V I D D D G A V A A I L D R G R S S L L L P A A G I V T G C G R T
UniRef90_UPI000373FCCE R K Q W L A G H L Q T R G V L T L D D G A V K A L V D D G H S L L L P A V G I V V K A V E
UniRef90_N6W9C1 R R L W I A H A A P A R G E V I V D D G A S R A L T R Q G K S S L L L P A A G I V T C G Y G
UniRef90_UPI00031GLV7 R K Q W M A D H L H T A R G A V V L D D A G A V Q K L R R Q G K S S L L L P I G V I T G V N
UniRef90_Q5QY57 K K H W L R H T L V A Q G E I L V D E G A E K A L L N G G A S S L L L S S G I V D V N Q Q
UniRef90_A6W351 R K Q W L A G H L K S R G A L V L D D D G A V K A L V R K G T S S L L L P A V G I V K D A V E
UniRef90_UPI000367BB94 R K R W I A D Q L H S R G V L H L D D D G A A R V L R S G R S S L L L P A V G V I A R V E
UniRef90_U4TFV1 K K S W I A F G A D C G R G E V H I D H G A Q V A V C R R R K S S L L L P A S G V I Q V V
UniRef90_UPI0004793391 R L L W L A H L A R I E G T L E L D D G A T R A I V R R R R S S L L L P A A G I T K V T T
UniRef90_UPI0004195B8E R K H W I A N V L V P T G K I Y L D D A G A I R A I S H R R K S S L L L P A A G I T G V E
UniRef90_UPI000475BE40 R K Q W L A A Q L Q V A G A V T L D D G A V N A L L A G A S S L L L P V G I V I S A I G E
UniRef90_UPI00035D0225 R K R W M L S G I S Q R G K I T V D S G A V G A I V K D H S L L L P A G I K S I V E E
UniRef90_C0QQB5 K K S W L Q T L S V A K G I T V D R G A E K A I R E G K S S L L L P A G I K D I V E E
UniRef90_UPI000368EA18 R K Q W I A S Q L Q M R G K V W L D E G A A N A I L N G G K S S L L L P I G V I T R I E E
UniRef90_G0ADU6 R K Q W M A D H L K T A G K V I V D D G A V Q K L R N G K S S L L L P G G I T A G V E E
UniRef90_E4RJ58 R K Q W L N F N L P P A S G K I F V D K G A A E A L L R N G K S S L L L P G G I T A G V E E
UniRef90_K9Q294 R K R W I A Y G L V P Q G K L Y L D D G A V N A L L K G K S S L L L P A A G I T K I E E
UniRef90_D3DKE2 K V I A M M E E P K G T I Y I D Y G A Y K A V K D G K S S L L L P A G I V K V E
UniRef90_UPI000348107D R K R W I A H G A I P A G T I Y L D G G A V E A L R H G K S S L L L P A A G I V A V E
UniRef90_V9W5P0 K K Q W V G F H S L P Q G S I V V D A G A E Q A L V Q G K S S L L L P A G I I K A S E
UniRef90_F7RVP1 K K H W L R H T L A Q G E I L V D S A G A V D V I R N G S S L L L T S G I V G I K A
UniRef90_UPI000475F85F R K R W L A G Q L Q V R G T L L V D A G A V N V L R R R G S S L L L P V G V I K A L N
UniRef90_B9JUH8 R K T W I A G Q L Q P A G L S V D A G A E T A L R A G K S S L L L P A G V V R E V S D
UniRef90_G2D970 R K R W L A G Q L Q V R G R L T L D D G A V R V L R Q G C S L L L P A V G I T L V D
UniRef90_Q4QBR8 I I Q A D S F S F L M I P T V L V N E G V V R F L L S G A H L M M P G I L S A R
UniRef90_X5JLE3 R K R W I A Y G L V P S G K L Y L D H G A V T A I S Q G K S S L L L P A A G I N I I E
UniRef90_UPI0004700BD7 R K R W I L A G P P A E R G D I V V D A G A V T A V T Q G G S S L L L P S K G I V A V R
UniRef90_UPI00046334A5 R K H W L G N A P P A E R G G I L I D D G A A D A L V K G A S S L L L P G G I L A V R
UniRef90_Q9KCR4 T K Q W I R L H S P V S G V V R I D D G A E R A I M N G K S S L L L P A G I V T S V H
UniRef90_C4XR31 R K F W L A Y H T E P Q G T L T V D D G A V R A L K K G N S S L L L P A G I V D V A D
UniRef90_UPI000475A5 K K H W M A F A T K P T G S I V D D D G A E K A L V N H N S S L L L P A K G I S I S D
UniRef90_K0JVD9 R R F W L G H A A D A T G R L T L D D G A V A A L V R R R S S L L L P A A G I T A V D
UniRef90_B6WVJ2 R K F W L A Y Q S D P A G T I V D A G A A E A L L K G N S S L L L P A G G V I R Q V L
UniRef90_Q1NB7 R K G W L A G R L T T P A G R I V D A G A E Q A L A K G N S S L L L P A G V I A R V L
UniRef90_UPI000365CC60 R K Q W M A D H L Q M R G A V V V D D G A V A K L R D G K S S L L L P I G M T A V E
UniRef90_HOPY94 R K Q W L A D H L Q L A G D L V I D D G A V T A L R S Q G S S L L L P V G V I T A V R E
UniRef90_UPI00026254B7 R K R W L A G H L R A R G T L H L D A G A V H A L R K Q G G S S L L L P V G V I K A V
UniRef90_UPI000424E918 R K F W V R H A A D A A G V L T L D A G A V E A V L R R R S S L L L P A G I T A V A S
UniRef90_A6FCA8 R K Q W L A G P P S P G L V I I D D G A V T A V T K G S S L L L P K G I T E V S K
UniRef90_B8GQQ4 R K Q W I A G Q L I A K G E I L L D T G A T K V L R E G R S S L L L P V G V I H V K
UniRef90_G6FNU3 R K R W I A Y G L V P S G K L Y L D E G A V V A I S Q G K S S L L L P A A G I T A L A
UniRef90_E3H7K5 K K H W I W Y G G K I E G T I Y I D N G A E K A L C G D K S S L L L P V G I V S D
UniRef90_UPI0004715MQX5 K K Q W L G F H S S P Q G R I T V D D G A E A A L Q G G K S S L L L P A G I R T I E
UniRef90_UPI00047C516B R K R W I A D H L Q L R G A V L V D D G A V A K L V G G K S S L L L P I G M T A V E
UniRef90_UPI00041537FD R K Q W M V D H L Q L R G S L K V D A G A A V K L R D G K S S L L L P I G V I V E Q
UniRef90_L0WC12 R K Q W L A G H L Q M R G R L V L D E G A V R R V R G G S S L L L P V G V I T D V F
UniRef90_UPI0004771E8C R W I L A E I A P S G R V M L D E G A A R A L A E G K S S L L L P A G I T A V H
UniRef90_G0VLT7 K K R W L V S G S K A Q G R L T V D E G C R N A I I R G S S L L L P V G I T A V E
UniRef90_F2N7G7 R K L W I A L G D A A H G S V S V D P G A A C A I R H G S S L L L P V G I V A V R
UniRef90_UPI00035C9070 K K Q W L G F L S T A P L G T L T V D N G A E A L L H H G R S S L L L P V G V I K A V
UniRef90_UPI000365B3F8 K K Q W L G Y L S R P L G A L T V D A G A K R A L A E G R S S L L L P V G I T A V E
UniRef90_UPI000248CDD3 K K Q W L G F H S Q T Q G S V Y V D E G A E L A L V G G K S S L L L P A G V K E V T
UniRef90_Q4K5T9 R K Q W L A G H L Q T R G T L V L D E G A V S A L S Q G G N S S L L L P V G V I K Q V
UniRef90_E8N489 R K R Y L L A G H Q V Q A G V W I D K G A A R A L S R G G S S L L L P V G I I R V E
UniRef90_H3NWI3 R K Q W L A S L L Y P R G E L V L D D G A C R V I T S G R S S L L L P V G V I K S A S
UniRef90_UPI0004674897 R K Q W L A G H L Q A K G Q L V L D D G A V K A L K Q G R S S L L L P I G V I V E V S
UniRef90_UPI000476B665 W K F W M L Y A A E T S G V L R L D A G A V T A V T D Q H S L L L P V G I T S I D E
UniRef90_F4H3K4 R L L W L A H A A R T H G K L V L D E G A V R A V L R R T S S L L L P A G V T G V E
UniRef90_J6IQF8 R K L W I A L G N S V K G R L I I D E G A A C A L V V G G S S L L L G V G V T G V E
UniRef90_Q24XR7 K K R W I A Y G G L S E G S I F I D E G A V K A L L K G K S S L L L A S G I T G I D
UniRef90_K6W8T4 R R F W V R H A A D A S G R L V L D D G A V T A V R R R R S S L L L A A G I V G V S
UniRef90_L0KBY8 R E Q W I A F N L D I A G K I V I D E G A T L A L T K G G S S L L L A C A G I V E A R
UniRef90_K9PEJ2 R K R W I A Y G L V P A G K L Y L D V G A I A A I S Q G K S S L L L A A G I K T V E
UniRef90_U1KVK2 R K Q W L M A G P P A S G E L L D E G A V R A M K S G S S L L L A K G L S D V L
UniRef90_E6KPN5 R R L W I A H A A P S R G E L V D D E G A A R A I T R K K S S L L L V A G V R K V L
UniRef90_UPI000471471E R K H W I F G A P P A G A V T I D D G A L A A L L R G S S L L L P K G I T C V E
UniRef90_D5C4A5 R K Q W L A G Q L Q T K G R L W L D A G A A Q V V R E G R S S L L L P V G I I A S E
UniRef90_C1CVQ3 R W I L A E I T T G R V H L D D G A A Q V R R R G S S L L L P A G I H R V D
UniRef90_A7BVA5 R K Q W L A S H L N M R G S L Y L D E G A V K V L R H G R S S L L L A I G V T R V I
UniRef90_D7ETF5 R R F W V R Y A A E A T G A L T L D A G A V R A V V S R R S S L L L A A G I T A V S
UniRef90_W5Y249 W K F W A L Y A A E T T G S L R I D A G A V K A V T S H S L L L A V G I T E I D
UniRef90_E0XY66 R K R W M L S G L S N G G N I V I D D G A S T A L L N N G S L L P A G V K E V V

UniRef90_A4ERD7
UniRef90_UPI000376B474
UniRef90_L9U7U3
UniRef90_B9NRN3
UniRef90_R9T4W2
UniRef90_UPI0003B5744D
UniRef90_L0IFR7
UniRef90_UPI000366CE85
UniRef90_L0HHZ6
UniRef90_UPI0003B57032
UniRef90_Q1YPZ4
UniRef90_UPI0003F6042A
UniRef90_C5CAZ6
UniRef90_UPI000373FCCE
UniRef90_N6W9C1
UniRef90_A0A031GLV7
UniRef90_Q5QY57
UniRef90_A6W351
UniRef90_UPI000367BB94
UniRef90_U4TFV1
UniRef90_UPI0004793391
UniRef90_UPI0004195B8E
UniRef90_UPI000475BE40
UniRef90_UPI00035D0225
UniRef90_C0QQB5
UniRef90_UPI000368EA18
UniRef90_G0ADU6
UniRef90_E4RJ58
UniRef90_K9Q294
UniRef90_D3DKE2
UniRef90_UPI000348107D
UniRef90_V9W5P0
UniRef90_F7RVP1
UniRef90_UPI000475F85F
UniRef90_B9JUH8
UniRef90_G2D970
UniRef90_Q4QBR8
UniRef90_X5JLE3
UniRef90_UPI0004700BD7
UniRef90_UPI00046334A5
UniRef90_Q9KCR4
UniRef90_C4XR31
UniRef90_A0PXA5
UniRef90_K0JVD9
UniRef90_B6WVW2
UniRef90_Q1NBJ7
UniRef90_UPI000365CC60
UniRef90_HOPY94
UniRef90_UPI00026254B7
UniRef90_UPI000424E918
UniRef90_A6FCA8
UniRef90_B8GQQ4
UniRef90_G6FNU3
UniRef90_E3H7K5
UniRef90_A0A015MQX5
UniRef90_UPI00047C516B
UniRef90_UPI00041537FD
UniRef90_L0WC12
UniRef90_A0A017HGYY1
UniRef90_A1TTD2
UniRef90_A3JSG6
UniRef90_UPI0003B62E19
UniRef90_Q8PK34
UniRef90_B2V614
UniRef90_Q21M06
UniRef90_B5ELU1
UniRef90_UPI0004771E8C
UniRef90_G0VLT7
UniRef90_F2N7G7
UniRef90_UPI00035C9070
UniRef90_UPI000365B3F8
UniRef90_UPI000248CDD3
UniRef90_Q4K5T9
UniRef90_E8N489
UniRef90_H3NWI3
UniRef90_UPI0004674897
UniRef90_UPI000476B665
UniRef90_F4H3K4
UniRef90_J6IQF8
UniRef90_Q24XR7
UniRef90_K6W8T4
UniRef90_L0KBY8
UniRef90_K9PEJ2
UniRef90_U1KVK2
UniRef90_E6KPN5
UniRef90_UPI000471471E
UniRef90_D5C4A5
UniRef90_C1CVQ3
UniRef90_A7BVA5
UniRef90_D7ETF5
UniRef90_W5Y249
UniRef90_E0XY66

UniRef90_A4ERD7 H E L L
UniRef90_UPI000376B474 H G K A L L
UniRef90_L9U7U3 H Q I A H E L I H R D N L L
UniRef90_B9NRN3 T G R A V L I H R D D L L
UniRef90_R9T4W2
UniRef90_UPI0003B5744D D E I R K L L G Y K Y Y D E
UniRef90_L0IFR7 T G M A V K V
UniRef90_UPI000366CE85 S Q I L S R L G Y S E G E F L
UniRef90_L0HHZ6 K G M C V K V
UniRef90_UPI0003B57032
UniRef90_Q1YPZ4 E R I A E I L L G Y R E D D
UniRef90_UPI0003F6042A
UniRef90_C5CAZ6
UniRef90_UPI000373FCCE
UniRef90_N6W9C1
UniRef90_A0A031GLV7 T E I E A I L L G Y M E G H E L L
UniRef90_Q5QY57 E D I A T E V I H R D D L L
UniRef90_A6W351 S N I G A E L I H R D D L L
UniRef90_UPI000367BB94
UniRef90_U4TFV1 S G K L A E V I H R D N L L
UniRef90_UPI0004793391 R
UniRef90_UPI0004195B8E D K I P E I L L G Y D G
UniRef90_UPI000475BE40 S K I E E I L L G Y L
UniRef90_UPI00035D0225 D R I E E T L G Y H Y G
UniRef90_C0QQB5 K D K F T E V I H
UniRef90_UPI000368EA18 K A I S A E L I H R D N L L
UniRef90_G0ADU6
UniRef90_E4RJ58 E E I K D I L L G Y F N
UniRef90_K9Q294 N Q I T E T L G Y A G
UniRef90_D3DKE2 R G Q E V K T I
UniRef90_UPI000348107D A E I M A I L H
UniRef90_V9W5P0 D E V R I E V I H R D E
UniRef90_F7RVP1 S A I A S E V I H R D D L L
UniRef90_UPI000475F85F H Q I A P E L I H R D N L L
UniRef90_B9JUH8
UniRef90_G2D970 Q R I E E I L L G Y V
UniRef90_Q4QBR8 A G V G V F V V Q C F R D N L L W Q
UniRef90_X5JLE3 S E I A E T V I H R D N L L
UniRef90_UPI0004700BD7 Q Q I A
UniRef90_UPI00046334A5 R E I D A I L L G Y N Y G
UniRef90_Q9KCR4
UniRef90_C4XR31 T R I A
UniRef90_A0PXA5
UniRef90_K0JVD9 H D L P A E V V H A D D L L
UniRef90_B6WVG2 H E V A A E V I H R D N L L
UniRef90_Q1NB7 E D I
UniRef90_UPI000365CC60
UniRef90_HOPY94
UniRef90_UPI00026254B7 A E I A
UniRef90_UPI000424E918
UniRef90_A6FCA8 C D I E S K L G Y G Y G
UniRef90_B8GQQ4
UniRef90_G6FNU3 S E I P V I L L G Y E G
UniRef90_E3H7K5
UniRef90_A0A015MQX5 E E V R I E V I H R D E
UniRef90_UPI00047C516B S G D I E R L L G Y
UniRef90_UPI00041537FD S G Y A A E L I H R D N L L
UniRef90_L0WC12 G E I A D V L G F M N E E
UniRef90_A0A017HGY1 K G R A T L I H R D D M
UniRef90_A1TTD2 S
UniRef90_A3JSG6 D Q I E K I L L G Y E G
UniRef90_UPI0003B62E19
UniRef90_Q8PK34 R E I G E N V V H R D D L L
UniRef90_B2V6I4 E G K D V E V I H
UniRef90_Q21M06 S R I D S L L G Y K D Y D E L L
UniRef90_B5ELU1 K A L C A E I T H R D N L L
UniRef90_UPI0004771E8C R D I G A E A V H R D D L L
UniRef90_G0VLT7 N G I Y E E V I H R D N L L V A M
UniRef90_F2N7G7 D E I A
UniRef90_UPI00035C9070 T E K K V E T V H R L L
UniRef90_UPI000365B3F8
UniRef90_UPI000248CDD3 E E V R I E V I H R D E
UniRef90_Q4K5T9 D A I V
UniRef90_E8N489 D Q I G E E V V H H
UniRef90_H3NWI3 A D I E A E L I H R D N L L
UniRef90_UPI0004674897 S E I G
UniRef90_UPI000476B665
UniRef90_F4H3K4 S
UniRef90_J6IQF8 K G T V V H R D E L L
UniRef90_Q24XR7
UniRef90_K6W8T4 T D L A P E V L H A D D L L
UniRef90_L0KBY8 E E I K S R L G Y Q A Y D E
UniRef90_K9PEJ2 R E I G V E V V H R D N L L
UniRef90_U1KVK2 E Q I G A V V I H R D D L L
UniRef90_E6KPN5
UniRef90_UPI000471471E Q Q I S E I L L G Y
UniRef90_D5C4A5
UniRef90_C1CVQ3 R E I
UniRef90_A7BVA5
UniRef90_D7ETF5 S E L P G E V V H A D D L V A V S A K Q A K
UniRef90_W5Y249
UniRef90_E0XY66 N Q I D E L L G H Q Y G D E

UniRef90_D0D1E5
UniRef90_C7MDI6
UniRef90_U2HXR5
UniRef90_L0R6L8
UniRef90_UPI000375FE5E
UniRef90_UPI000476FB6E
UniRef90_K4KRS1
UniRef90_B2AWW2
UniRef90_UPI00038174A5
UniRef90_B1KD28
UniRef90_UPI000382D1BF
UniRef90_UPI0003B69DF7
UniRef90_B5IBL5
UniRef90_Q9HHA0
UniRef90_H8L3G6
UniRef90_S5F981
UniRef90_F9EHK2
UniRef90_J9YZ73
UniRef90_UPI0003B4C091
UniRef90_J9Z9M4
UniRef90_UPI0003632E55
UniRef90_C6BZ93
UniRef90_UPI0003648715
UniRef90_UPI000472EF08
UniRef90_UPI0002ED5311
UniRef90_C5A452
UniRef90_UPI000477D941
UniRef90_UPI0003794EBE
UniRef90_U1RBM5
UniRef90_X2HD08
UniRef90_L2GY34
UniRef90_V9G738
UniRef90_UPI0004764300
UniRef90_Q2NVF0
UniRef90_I6U8I7
UniRef90_U7NM47
UniRef90_W7SZ31
UniRef90_UPI0004674285
UniRef90_UPI000378AA71
UniRef90_Q65KU8
UniRef90_A5VYC7
UniRef90_S3Z1E5
UniRef90_M4UNB5
UniRef90_T2G822
UniRef90_A0A022LLL6
UniRef90_G7VBU8
UniRef90_H1CZ10
UniRef90_I0GTE4
UniRef90_UPI00036162B1
UniRef90_B8D0Y5
UniRef90_I7JVH3
UniRef90_UPI00041DEAF9
UniRef90_UPI0003B32148
UniRef90_UPI00036F24F5
UniRef90_D8KP65
UniRef90_UPI00040DDD81
UniRef90_E8R3Q8
UniRef90_UPI0003609556
UniRef90_UPI0004767960
UniRef90_M1NUL4
UniRef90_R7GNJ6
UniRef90_B8GDN6
UniRef90_UPI000344031C
UniRef90_UPI0003B3BB71
UniRef90_G4RLV8
UniRef90_G6EZV6
UniRef90_Q60377
UniRef90_G0HIR9
UniRef90_UPI0003B5A3A3
UniRef90_H0E8L3
UniRef90_D3FZ73
UniRef90_G7E5X0
UniRef90_UPI00036A53D5
UniRef90_UPI00047C78ED
UniRef90_V4J9J7
UniRef90_F3ZV30
UniRef90_E1QJM1
UniRef90_F4GIK9
UniRef90_UPI000255C07A
UniRef90_I2GP46
UniRef90_U1KDS6
UniRef90_Z9JL67
UniRef90_D3V9T8
UniRef90_V5WE91
UniRef90_M5A1J3
UniRef90_Q8ZYG7
UniRef90_F4CWW4
UniRef90_UPI000478B074
UniRef90_X0TW63
UniRef90_L8Y0A7
UniRef90_Q8ZYB3
UniRef90_A4C727

1

10

20

30

40

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

UniRef90_D0D1E5
UniRef90_C7MDI6
UniRef90_U2HXR5
UniRef90_L0R6L8
UniRef90_UPI000375FE5E
UniRef90_UPI000476FB6E
UniRef90_K4KRS1
UniRef90_B2AWW2
UniRef90_UPI00038174A5
UniRef90_B1KD28
UniRef90_UPI000382D1BF
UniRef90_UPI0003B69DF7
UniRef90_B5IBL5
UniRef90_Q9HHA0
UniRef90_H8L3G6
UniRef90_S5F981
UniRef90_F9EHK2
UniRef90_J9YZ73
UniRef90_UPI0003B4C091
UniRef90_J9Z9M4
UniRef90_UPI0003632E55
UniRef90_C6BZ93
UniRef90_UPI0003648715
UniRef90_UPI000472EF08
UniRef90_UPI0002ED5311
UniRef90_C5A452
UniRef90_UPI000477D941
UniRef90_UPI0003794EBE
UniRef90_U1RBM5
UniRef90_X2HD08
UniRef90_L2GY34
UniRef90_V9G738
UniRef90_UPI0004764300
UniRef90_Q2NVF0
UniRef90_I6U8I7
UniRef90_U7NM47
UniRef90_W7SZ31
UniRef90_UPI0004674285
UniRef90_UPI000378AA71
UniRef90_Q65KU8
UniRef90_A5VYC7
UniRef90_S3Z1E5
UniRef90_M4UNB5
UniRef90_T2G822
UniRef90_A0A022LLL6
UniRef90_G7VBU8
UniRef90_H1CZ10
UniRef90_I0GT E4
UniRef90_UPI00036162B1
UniRef90_B8D0Y5
UniRef90_I7JVH3
UniRef90_UPI00041DEAF9
UniRef90_UPI0003B32148
UniRef90_UPI00036F24F5
UniRef90_D8KP65
UniRef90_UPI00040DDD81
UniRef90_E8R3Q8
UniRef90_UPI0003609556
UniRef90_UPI0004767960
UniRef90_M1NUL4
UniRef90_R7GNJ6
UniRef90_B8GDN6
UniRef90_UPI000344031C
UniRef90_UPI0003B3BB71
UniRef90_G4RLV8
UniRef90_G6EZV6
UniRef90_Q60377
UniRef90_G0HIR9
UniRef90_UPI0003B5A3A3
UniRef90_H0E8L3
UniRef90_D3FZ73
UniRef90_G7E5X0
UniRef90_UPI00036A53D5
UniRef90_UPI00047C78ED
UniRef90_V4J9J7
UniRef90_F3ZV30
UniRef90_E1QJM1
UniRef90_F4GIK9
UniRef90_UPI000255C07A
UniRef90_I2GP46
UniRef90_U1KDS6
UniRef90_Z9JL67
UniRef90_D3V9T8
UniRef90_V5WE91
UniRef90_M5A1J3
UniRef90_Q8ZYG7
UniRef90_F4CWW4
UniRef90_UPI000478B074
UniRef90_X0TW63
UniRef90_L8Y0A7
UniRef90_Q8ZYB3
UniRef90_A4C727

50 60 70 80

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

UniRef90_D0D1E5 R W I A A M K P C G V V I L D A G A A R A A M A E G R S L L L P V G V V T A T S E D
UniRef90_C7MDI6 R L V W L R F A T R G A G S L R L R L D E G A A D A V R S G R S S L L L A V G I T T S V E D
UniRef90_U2HXR5 W K F W A L Y S A D S P G G T L R L D S G A Q L K A V L T M G G N K S S L L L P A V G I T T D V D N
UniRef90_L0R6L8 R K Y W L A Y H C D P S G G D L I I D S G A Q Q A V L T M G G N K S S L L L P A V G I T T D V D N
UniRef90_UPI000375FE5E R K Q W I A G H L Q A R G T L V L D A G A V Q A V L V T S G R K S S L L L P T G T V I R A V T R
UniRef90_UPI000476FB6E R K F W V R H A A D S R M G A V L V D D G A G V Q A V L T S G R K S S L L L A A S G V T G I V R E E
UniRef90_K4KRS1 K K R W M A Y A A L S M G T V I I D D A G A E K A L L T H R K S S L L L A A S G V T G I V R E E
UniRef90_B2AWW2 R Y F W I L H G L R P H G T L F I D T G C Y K A L L L N K A G S L L L P V G V V V D V E R
UniRef90_UPI00038174A5 R K Q W M S D H L H T A G K K V L V L D A G A V I K A V L T T R G R S S L L L P L G V S E S V R
UniRef90_B1KD28 R K Q W I L A G Q A A K G K V L V L D V G A I K A V L T T R G R S S L L L P A G V V R D L S E
UniRef90_UPI000382D1BF R K Q W I A G H L Q A R G T L V L D A G A V A A L L R R G G K S S L L L P A G V V R D L S E
UniRef90_UPI0003B69DF7 R K R W I A Y S R P P K G R L I L D D G A R N A L L T Q Q G K S S L L L P A G V V R R R V
UniRef90_B5IBL5 A K R L H R A F A F P K F R V I V D D S A Q F N K Q G K N V F S K F V V G C D
UniRef90_Q9HHA0 R A R W I T L A R A S G T V R V D A G A K A A V L G K N S S L L L P A G I V D I E D
UniRef90_H8L3G6 R K H W L R H L P A V A G G I R I D E G A R H A L S R R A S S L L L P G G G I V Q I V D
UniRef90_S5F981 R W L F A A P Q V G E I V V D F G A E Q A L L Q H K S S L L L P V G V I S A I V K
UniRef90_F9EHK2 R L W M A H A S V P E G R I V I D A G A Q R A I T V G K S S L L L P G V V T G I N E
UniRef90_J9YZ73 R Q Q W I W N R P L Q K A T I H I D E G A S K A L G K N S S L L L A V I V K T G I E A
UniRef90_UPI0003B4C091 R K Q W L A G H L Q T R G T L T L D A G A V K A L A S D S H S S L L L P V G V I T A V A
UniRef90_J9Z9M4 K K V W I G F F S E P S G T L V L D E G A M K A I S H G K S S L L L A G G I T R H E E
UniRef90_UPI0003632E55 R Q H W I A E V L P A S G R M T I D D G A E K A L V H S G K S S L L L P V G I T A V E D
UniRef90_C6BZ93 R K Y W L A Y H C D P A G D L V I D D G A Q K A L S L S G K S S L L L P A G I I E V D
UniRef90_UPI0003648715 R N R W L A S G S L A V I G R V Q I D A G A V R A L Q Q R R S S L L L A V G I R A V L
UniRef90_UPI000472EF08 R K K W I A G S L T S Q G A I F I D A G A E K A L Q K G K S S L L L P A G V I S E I R E
UniRef90_UPI0002ED5311 K Q W I S F T E T K G K L F I D K G A E E A L L R G K S S L L L P A G I F R V E
UniRef90_C5A452 I A L W K R F G K M K K W V I V D K G A V E P I K N G A N L L A V G V L E A D
UniRef90_UPI000477D941 W K F W A L Y A A D V S G V R V D E G A A Q V V R Q R S G G S S L L L P V G V T E V D
UniRef90_UPI0003794EBE R K Q W L A G S Q V C G S L Q L D D G A V A V L R S G K S S L L L P V G V I T E V S D
UniRef90_U1RBM5 R R L W M A H A S Q V P E G R L I D S G A A R A L T V G K S S L L L P G L T G V D S
UniRef90_X2HD08 R Q Q W L G Q V Q L V G S K I T V D E G A E Q A L T Q H S S L L L A A G C V A V S
UniRef90_L2GY34 Y L R A H R G K E P L V Y P S I W I D E G A R E P L Q R G S D I F V P G V I V Y K Y
UniRef90_V9G738 K K Q W L G F M S S P L I G R I V V D P A E E A L L H G H S L L L P V G I K R I E
UniRef90_UPI0004764300 R K R W L A G H L R V R G T I T V D A G A V Q V L R R G S S L L L S V G I S R V Q E
UniRef90_Q2NVF0 R W L F G P P P A G D I T V D D G A L K A I L R R G S S L L L P V G V I A V E
UniRef90_I6U8I7 Y N P N L P T V V A N K Y A A E S V Y Q G A M L Y A P G V L K A E A
UniRef90_U7NM47 R K R W L A G Q L Q V S R G T L T L D A G A V K V L R R G S S L L L P V G I K A A A
UniRef90_W7SZ31 R R F W L A H A A D S A G R L T L D D G A V T A V V R R R S S L L L A A G I A G A H
UniRef90_UPI0004674285 R K F W L A Y H H D P Q G T L T I D D G A A R A L R G G K S S L L L P A G I V D V A
UniRef90_UPI000378AA71 R K Q W I G S I A P K G E V I D D G A V K A I N N G G S S L L L P A G V R K I K S
UniRef90_Q65KU8 R Q W I A F H S P V S G K I T V D E G A E L A I T N G G S S L L L P A G V T A I S
UniRef90_A5VYC7 R K Q W L A G H L Q T R G T L V L D A G A V Q A L R Q A N S S L L L P V G V K T V Q E
UniRef90_S3Z1E5 R L M W L M Y A S R G E T L V L D A G A V H A V V Q R R S S L L L P V G I T R V E
UniRef90_M4UNB5 R K N W L F A G S R I S G K I I D T G A A H A L L K G S S L L L A K G I V G T Q
UniRef90_T2G822 Y R L A Y N A V P V I G T L T V D N G A A N A L T N G K S S L L L P I G I R G V E
UniRef90_A0A022LLL6 R R F W V R H A A D A R G S V L D D G A V R A L T S R R S S L L L L A G V T S G V D
UniRef90_G7VBU8 L L P I E E A A R H L P K I W W R D S A V D A L C N G A P L A A P G V S K F E
UniRef90_H1CZ10 K K R D I T I G T A V K G K I F V D E G C C A A I L N G S S L L L P V G I L D T E E
UniRef90_I0GTE4 R K S W L A F G K R L A G E I T V D D G C C A A L R N G A S I L L A A G V T A C
UniRef90_UPI00036162B1 K K H W V R H T L R A K G E I W V D D G C C I E A L S Q G A S I L L S S G I V Q I K
UniRef90_B8D0Y5 R K Q W L R F N L P V S G S I K V D K G A E T A L V R G K S S L L L P G G I T G V E
UniRef90_I7JVH3 W K F W A L Y A A E S K G T L K L D E G A V E A I R G G K S S L L L T V T G I T D V E
UniRef90_UPI00041DEAF9 K K H W L R H T L V S Q G E V V V D S E T A D A V V A G D A L T T G I V D V Q
UniRef90_UPI0003B32148 R R A W I L G S L A R E G A L V L D D G A A A A I A K G R S S L L L P A G V V D V Q
UniRef90_UPI00036F24F5 R K L W L Q H T V T V R G A L H I D S G A M D A L V Q G N S S L L L A K G V V G V
UniRef90_D8KP65 W K F W V L Y T A D V A G L R I D A G A V E A V T G G N S S L L L A V G I T D V E
UniRef90_UPI00040DDD81 K K Q W I G F L S V P Q G R I V V D A G A E A A L L H G K S S L L L P A G I T G A E
UniRef90_E8R3Q8 R R R W I G L T A R P K G R L I V D D G A K V A L V K G R S S L L L P I G L T A R
UniRef90_UPI0003609556 K K Q W I L N S I A T K G S I M I D E G A E K A L K N G K S S L L L P I G L T A V E
UniRef90_UPI0004767960 R K N W I F A G S R V A G T I V V D D G A A K A I V S G S S L L L A K G I T G T L
UniRef90_M1NUL4 W K F W A L Y S A D T P G T L R L D A G A V D A I V T G H V S S L L L A V G I T A V E
UniRef90_R7GNJ6 R R H W L A Y R T K P R G T I V D A G C R K A I V J N G V S L L L P T G I K D V E
UniRef90_B8GDN6 R P A A A A L L T P T E R F V V I D D G A I P S I R D G A S V L A P G L A W I A
UniRef90_UPI000344031C M L P G L V V P P A G L P Q V Q D E G A A K A L L R G K S S L L L P A G I V D V Q
UniRef90_UPI0003B3B71 K K Q W I G L V L H S V T A G A V V V D E G A A K A L L R G K S S L L L P A G I V D V Q
UniRef90_G4RLV8 E A A R Y I R L P Y V V V D E E T A K H A I K G K S S L L P A K F I V R A S
UniRef90_G6EZV6 R K R W L A G G I T K G T Y Y I D Q G A Q N A L Y A G K S S L L P V G I K K I D
UniRef90_Q60377 K L N G A K D L M E K K K L I K I K N D V E F L K N R K S S L L R P V G I V E F T
UniRef90_G0HIR9 R M E K A V E H L P K V W I R D S A V A A V T Y G A D L A V P G I V K L N
UniRef90_UPI0003B5A3A3 R K Q W I A G Q T Q A K G T L Y L D D G A V N A L L R G K S S L L L P V G V E R C
UniRef90_H0E8L3 F K L W L R Y A K P A R G T I E V D R G A V R A L L T G T S S L L L P V G V T G V G
UniRef90_D3FZ73 S K Q W L A V H S E A S G Q I K I D K G A E R A L L E G K S S L L L P V G V V D V T
UniRef90_G7E5X0 R R W W V L H G L A P R G R V I V D A G A Y K A V L N G G R L L L P A G I V G V E
UniRef90_UPI00036A53D5 R E K W I A F N L D I E G K I V D Q G A V A A L L N G S S L L L C A G I I D I Q
UniRef90_UPI00047C78ED R R F W L A Y A A D T N G T L T L D D G A V A A V V H R R S S L L L A A G I T T S S
UniRef90_V4J9J7 R K R W I D S L L K T Q G T L Y I D E G A C R A L L R G K S S L L L P S G V G I E
UniRef90_F3ZV30 K K W I A H S E S F S G G E I Y I N E G A S I A L L K S D T S L L P I G I T H I Q
UniRef90_E1QJM1 H W I A F T A C Q N Q T G V I V V D Q G A V A P I S G G K S S L L A A G V S A V R
UniRef90_F4GIK9 R A R W I L N N S H A G T I T V D K G A E K A L R A H K S S L L P A S G M I G V T
UniRef90_UPI000255C07A S K Q W I A L H S P V S G K I E I D D G A V H A L L M K G K S S L L P A G I R Q I K
UniRef90_I2GP46 R N R W L A S G S L V V I G R L Q V D A G A V R A L Q Q R R S S L L L A V G I R S I L
UniRef90_U1KDS6 R K R W L S G P K S T G K I C D S G A L N A V C Q N G A S S L L A K G I V S I E
UniRef90_Z9JL67 R K Y W L R H A P V E P G V I F I D A G A A M A L Q Q G A S S L L P G G V C G A
UniRef90_D3V9T8 R K R W L F G A P P A G E I T V D H G A E I A L L K G S S L L L P K G I R N V K
UniRef90_V5WE91 Q R R R W L K H A E A S G R I V V D N G A L E A M R E H R S S L L P R G I S V A E
UniRef90_M5A1J3 R K L W L A F A A E V A G V V Q V D E G A R Q A L D R P N L L P A G V I S A T
UniRef90_Q8ZYG7 Y G A T L D R R V V I S R E A A E Y V K Q G R N V P A K Y V I E A A
UniRef90_UPI000478B074 R R F W L R H A A D V Q G R I D L D A G A V A A V T R R S S L L L A A G I H G I S
UniRef90_X0TW63 K Q W V G F L S V P Q G R I T V D P G A E N A L M N G S S L L L P A G V S S A S
UniRef90_L8Y0A7 K K R W I L N Q A H V L G S V V V D D G A R A L V E G K S S L L L A A G I I E I T
UniRef90_Q8ZYB3 V L L P I E E I A R H L P K I W V R D S A V D A I C N G A P L A A P G I S K F E
UniRef90_A4C727 R K R W L L A G P S S S G K L V L D A G A T D A V L Q G S S L L L A K G V K Q V K

UniRef90_D0D1E5
UniRef90_C7MDI6
UniRef90_U2HXR5
UniRef90_L0R6L8
UniRef90_UPI000375FE5E
UniRef90_UPI000476FB6E
UniRef90_K4KRS1
UniRef90_B2AWW2
UniRef90_UPI00038174A5
UniRef90_B1KD28
UniRef90_UPI000382D1BF
UniRef90_UPI000369DF7
UniRef90_B5IBL5
UniRef90_Q9HHA0
UniRef90_H8L3G6
UniRef90_S5F981
UniRef90_F9EHK2
UniRef90_J9YZ73
UniRef90_UPI0003B4C091
UniRef90_J9Z9M4
UniRef90_UPI0003632E55
UniRef90_C6BZ93
UniRef90_UPI0003648715
UniRef90_UPI000472EF08
UniRef90_UPI0002ED5311
UniRef90_C5A452
UniRef90_UPI000477D941
UniRef90_UPI0003794EBE
UniRef90_U1RBM5
UniRef90_X2HD08
UniRef90_L2GY34
UniRef90_V9G738
UniRef90_UPI0004764300
UniRef90_Q2NVF0
UniRef90_I6U8I7
UniRef90_U7NM47
UniRef90_W7SZ31
UniRef90_UPI0004674285
UniRef90_UPI000378AA71
UniRef90_Q65KU8
UniRef90_A5VYC7
UniRef90_S3Z1E5
UniRef90_M4UNB5
UniRef90_T2G822
UniRef90_A0A022LLL6
UniRef90_G7VBU8
UniRef90_H1CZ10
UniRef90_I0GTE4
UniRef90_UPI00036162B1
UniRef90_B8D0Y5
UniRef90_I7JVH3
UniRef90_UPI00041DEAF9
UniRef90_UPI0003B32148
UniRef90_UPI00036F24F5
UniRef90_D8KP65
UniRef90_UPI00040DDD81
UniRef90_E8R3Q8
UniRef90_UPI0003609556
UniRef90_UPI0004767960
UniRef90_M1NUL4
UniRef90_R7GNJ6
UniRef90_B8GDN6
UniRef90_UPI000344031C
UniRef90_UPI0003B3BB71
UniRef90_G4RLV8
UniRef90_G6EZV6
UniRef90_Q60377
UniRef90_G0HIR9
UniRef90_UPI0003B5A3A3
UniRef90_H0E8L3
UniRef90_D3FZ73
UniRef90_G7E5X0
UniRef90_UPI00036A53D5
UniRef90_UPI00047C78ED
UniRef90_V4J9J7
UniRef90_F3ZV30
UniRef90_E1QJM1
UniRef90_F4GIK9
UniRef90_UPI000255C07A
UniRef90_I2GP46
UniRef90_U1KDS6
UniRef90_Z9JL67
UniRef90_D3V9T8
UniRef90_V5WE91
UniRef90_M5A1J3
UniRef90_Q8ZYG7
UniRef90_F4CWWW4
UniRef90_UPI000478B074
UniRef90_X0TW63
UniRef90_L8Y0A7
UniRef90_Q8ZYB3
UniRef90_A4C727

130 140 150 160

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

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

UniRef90_D0D1E5
UniRef90_C7MDI6
UniRef90_U2HXR5 E D M P E E V V H A D Y L S N Y A S R L
UniRef90_L0R6L8
UniRef90_UPI000375FE5E S
UniRef90_UPI000476FB6E S G L R R P V I H A D D L
UniRef90_K4KRS1 E E K A E E L V H R D N L
UniRef90_B2AWW2 S E I
UniRef90_UPI00038174A5
UniRef90_B1KD28 D E I E S L L G Y D Y G D
UniRef90_UPI000382D1BF S M I E V E L V H R D N L
UniRef90_UPI0003B69DF7 T D I
UniRef90_B5IBL5 K G M C V K V
UniRef90_Q9HHA0
UniRef90_H8L3G6 R D I G T E V I H R D D L
UniRef90_S5F981 K E I
UniRef90_F9EHK2 D G H V A P V V H R D D L A E L
UniRef90_J9YZ73 N E I S T I L G F V R E D E I
UniRef90_UPI0003B4C091 E S I V E T L G Y
UniRef90_J9Z9M4 S G
UniRef90_UPI0003632E55
UniRef90_C6BZ93
UniRef90_UPI0003648715 V E V A
UniRef90_UPI000472EF08 S E I A K I L G Y A G
UniRef90_UPI0002ED5311 E E L H I E V I H
UniRef90_C5A452 R G T G V K
UniRef90_UPI000477D941 H G M K R P V I H A D Y L S S Y S S
UniRef90_UPI0003794EBE G A I Q E L L G Y Q G D
UniRef90_U1RBM5 P D H V A P V V H R D D L A E L
UniRef90_X2HD08 Q A I
UniRef90_L2GY34 K G N G F K V L S V E N D E L
UniRef90_V9G738 S Q V I L E V I H R D E
UniRef90_UPI0004764300
UniRef90_Q2NVF0 Q D I
UniRef90_I6U8I7 R G L A V E V I H R D N L
UniRef90_U7NM47 H Q I A P E L I H R D D L
UniRef90_W7SZ31 H H L A R E V V H A D D L
UniRef90_UPI0004674285 S R I A
UniRef90_UPI000378AA71 R E I
UniRef90_Q65KU8 H E E G I E V I H
UniRef90_A5VYC7 E A I E S I
UniRef90_S3Z1E5 E E I A A R V V H R D D L
UniRef90_M4UNB5 H
UniRef90_T2G822 A D I E A V L G P G L Y E
UniRef90_A0A022LLL6 T G Q G R P L V H A D D L
UniRef90_G7VBU8 R G L V V R T
UniRef90_H1CZ10
UniRef90_I0GTE4 E D I
UniRef90_UPI00036162B1 R D I
UniRef90_B8D0Y5 T D I S S E V I H R D N L
UniRef90_I7JVH3
UniRef90_UPI00041DEAF9 S S I A
UniRef90_UPI0003B32148 E D I
UniRef90_UPI00036F24F5 G D R G A E V V H R D D M A L T G I S L K K
UniRef90_D8KP65
UniRef90_UPI00040DDD81 R V E A V E V I H R D E
UniRef90_E8R3Q8 H D E I I H R D N L
UniRef90_UPI0003609556 D K I K E L L G Y V
UniRef90_UPI0004767960 H G R V V I H R D D L
UniRef90_M1NUL4 E G Q R R P V V H A D Y L S N Y A S R L
UniRef90_R7GNJ6 S E I
UniRef90_B8GDN6
UniRef90_UPI000344031C
UniRef90_UPI0003B3BB71 A E A A S E V I H
UniRef90_G4RLV8 K G Y A V K
UniRef90_G6EZV6 E E I N D E V I H H
UniRef90_Q60377 K G K V V K V R F F I K D
UniRef90_G0HIR9 K G I A V D V
UniRef90_UPI0003B5A3A3 Q S I P E V L G Y M G
UniRef90_H0E8L3
UniRef90_D3FZ73
UniRef90_G7E5X0 S E I
UniRef90_UPI00036A53D5 S K I K S E V I H R D N L
UniRef90_UPI00047C78ED H D R R R E V I H A D D L
UniRef90_V4J9J7 D E I A P I L G Y K D S D E L
UniRef90_F3ZV30 S K P I V H Y D Y L Y
UniRef90_E1QJM1 V E I E H S L G
UniRef90_F4GIK9 E D I
UniRef90_UPI000255C07A
UniRef90_I2GP46 V E V A
UniRef90_U1KDS6 S E S A E E I I H R D N L
UniRef90_Z9JL67 R D I E A L L G Y T Y G D D L
UniRef90_D3V9T8 Q Q I
UniRef90_V5WE91
UniRef90_M5A1J3 A D I P E E V V H R D D L
UniRef90_Q8ZYG7 R G Y A I K V R E S L K D
UniRef90_F4CWW4 S
UniRef90_UPI000478B074 E E A M V E V I H R D E
UniRef90_X0TW63 S L T I E K Q L G Y K Y Y D E
UniRef90_L8Y0A7 S D I I N K L G Y V I S E E I
UniRef90_Q8ZYB3
UniRef90_A4C727 E G K V V I H R D D L

UniRef90_B0T311
UniRef90_Q2IMF3
UniRef90_C5LQY4
UniRef90_S0G1U9
UniRef90_Q46F79
UniRef90_A7H6U8
UniRef90_K9EAQ7
UniRef90_F2LY01
UniRef90_M2MNX0
UniRef90_V4HZB3
UniRef90_A0LCZ2
UniRef90_W1F5X6
UniRef90_B1HVU9
UniRef90_F4HAT6
UniRef90_C5CE10
UniRef90_V4XKT7
UniRef90_I4VNIQ7
UniRef90_W9DXI9
UniRef90_E0DGM7
UniRef90_Q8FN82
UniRef90_R5SCR7
UniRef90_A4WH37
UniRef90_UPI000379FF07
UniRef90_UPI00035CE0B9
UniRef90_F7XQP4
UniRef90_U7Q167
UniRef90_F9Q682
UniRef90_UPI0003B36C9B
UniRef90_U2UYF8
UniRef90_K1XN81
UniRef90_UPI00038107C0
UniRef90_H5XWH6
UniRef90_B1YA19
UniRef90_R9KZ00
UniRef90_D4GW35
UniRef90_X1DK12
UniRef90_UPI00036A413E
UniRef90_T5A876
UniRef90_Q15MX0
UniRef90_E3DX54
UniRef90_F7UV59
UniRef90_Q46LE0
UniRef90_C9PME2
UniRef90_R7HQQ4
UniRef90_D4ILQ3
UniRef90_H8IAK7
UniRef90_B3QPU8
UniRef90_UPI00035FD12E
UniRef90_UPI0003B3FA10
UniRef90_M0PJG0
UniRef90_A2ST59
UniRef90_F0XQ15
UniRef90_W4Q754
UniRef90_UPI0002E041C7
UniRef90_UPI00030EF333
UniRef90_L9XBG1
UniRef90_N9LHF4
UniRef90_A3MY42
UniRef90_B5ES20
UniRef90_UPI0003002C40
UniRef90_K3W103
UniRef90_V4J0B7
UniRef90_L7JM46
UniRef90_UPI00047E95FA
UniRef90_D6XUG4
UniRef90_D5RI95
UniRef90_I3DJC6
UniRef90_M0CW71
UniRef90_UPI00036635F0
UniRef90_Q9LD90
UniRef90_K1Y8N7
UniRef90_A6LE73
UniRef90_B3EPG1
UniRef90_D5EQQ3
UniRef90_Q0YS89
UniRef90_UPI000478AC68
UniRef90_K0NG15
UniRef90_C2CMW8
UniRef90_Q0FAT1
UniRef90_NOAV01
UniRef90_N6UWL8
UniRef90_S9VZN8
UniRef90_A1RTG8
UniRef90_Q2HAW7
UniRef90_M7TD01
UniRef90_UPI00046FB1FB
UniRef90_O26140
UniRef90_D8DU56
UniRef90_J9FQQ7
UniRef90_D3ENC8
UniRef90_W1Z0M5
UniRef90_T0C9S2

1

10

20

30

40

Q Q V E D M A G T A G P
S L V E K I T P E I E S Y G G D P T S F

M T T K I Q A A E M A
I K T K I E A G L N A A K L G

K L Q A A Q I A Q R

A A R T A L Q
M Y T K I T A A D I A

Q F G A G A G D A L F P

R K I I H D I G E V L G V G A N M

M R T K I E A A R I C

M A T K V A A A D V A

K I D K K I L Q K V K S Q A G A G G M Q

Q F G A G A G D A L F P

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

G
P

M A T K L Q A A D I A

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

K I S L A
K L I A A E I A T K
K L E A A K T A L S
Q F G A G A G E A L F P

Q F G A G A G A A L F P

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

H I A Q K V A D

K I T P E I E G M A Q G T K H T T S G G M I S K L S A A K I A Q R

K I Q A A E V A C R
K I Q A A R K V I T S

K L I A A K T A L S
I R K L C E D I G E A L G T S A S

R G I I N I I A Y L Y G R E A E

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

M A T K L Q A A D V A

UniRef90_BOT311
UniRef90_Q2IMF3
UniRef90_C5LQY4
UniRef90_S0G1U9
UniRef90_Q46F79
UniRef90_A7H6U8
UniRef90_K9EAQ7
UniRef90_F2LY01
UniRef90_M2MNX0
UniRef90_V4HZB3
UniRef90_A0LCZ2
UniRef90_W1F5X6
UniRef90_B1HVU9
UniRef90_F4HAT6
UniRef90_C5CE10
UniRef90_V4XKT7
UniRef90_I4VNQ7
UniRef90_W9DXI9
UniRef90_E0DGM7
UniRef90_Q8FN82
UniRef90_R5SCR7
UniRef90_A4WH37
UniRef90_UPI000379FF07
UniRef90_UPI00035CE0B9
UniRef90_F7XQP4
UniRef90_U7Q167
UniRef90_F9Q682
UniRef90_UPI0003B36C9B
UniRef90_U2UYF8
UniRef90_K1XN81
UniRef90_UPI00038107C0
UniRef90_H5XWH6
UniRef90_B1YA19
UniRef90_R9KZ00
UniRef90_D4GW35
UniRef90_X1DK12
UniRef90_UPI00036A413E
UniRef90_T5A876
UniRef90_Q15MX0
UniRef90_E3DX54
UniRef90_F7UV59
UniRef90_Q46LE0
UniRef90_C9PME2
UniRef90_R7HQQ4
UniRef90_D4ILQ3
UniRef90_H8IAK7
UniRef90_B3QP08
UniRef90_UPI00035FD12E
UniRef90_UPI0003B3FA10
UniRef90_M0PJG0
UniRef90_A2ST59
UniRef90_F0XQ15
UniRef90_W4Q754
UniRef90_UPI0002E041C7
UniRef90_UPI00030EF333
UniRef90_L9XBG1
UniRef90_N9LHF4
UniRef90_A3MY42
UniRef90_B5ES20
UniRef90_UPI0003002C40
UniRef90_K3W103
UniRef90_V4J0B7
UniRef90_L7JM46
UniRef90_UPI00047E95FA
UniRef90_D6XUG4
UniRef90_D5RI95
UniRef90_I3DJC6
UniRef90_M0CW71
UniRef90_UPI00036635F0
UniRef90_Q9LD90
UniRef90_K1Y8N7
UniRef90_A6LE73
UniRef90_B3EPG1
UniRef90_D5EQQ3
UniRef90_QOYS89
UniRef90_UPI000478AC68
UniRef90_KONG15
UniRef90_C2CMW8
UniRef90_Q0FAT1
UniRef90_NOAV01
UniRef90_N6UWL8
UniRef90_S9VZN8
UniRef90_A1RTG8
UniRef90_Q2HAW7
UniRef90_M77D01
UniRef90_UPI00046FB1FB
UniRef90_O26140
UniRef90_D8DU56
UniRef90_J9FQQ7
UniRef90_D3ENC8
UniRef90_W1Z0M5
UniRef90_T0C9S2

UniRef90_B0T311
UniRef90_Q2IMF3
UniRef90_C5LQY4
UniRef90_S0G1U9
UniRef90_Q46F79
UniRef90_A7H6U8
UniRef90_K9EAQ7
UniRef90_F2LY01
UniRef90_M2MNX0
UniRef90_V4HZB3
UniRef90_A0LCZ2
UniRef90_W1F5X6
UniRef90_B1HVU9
UniRef90_F4HAT6
UniRef90_C5CE10
UniRef90_V4XKT7
UniRef90_I4VNIQ7
UniRef90_W9DXI9
UniRef90_E0DGM7
UniRef90_Q8FN82
UniRef90_R5SCR7
UniRef90_A4WH37
UniRef90_UPI000379FF07
UniRef90_UPI00035CE0B9
UniRef90_F7XQP4
UniRef90_U7Q167
UniRef90_F9Q682
UniRef90_UPI0003B36C9B
UniRef90_U2UYF8
UniRef90_K1XN81
UniRef90_UPI00038107C0
UniRef90_H5XWH6
UniRef90_B1YA19
UniRef90_R9KZ00
UniRef90_D4GW35
UniRef90_X1DK12
UniRef90_UPI00036A413E
UniRef90_T5A876
UniRef90_Q15MX0
UniRef90_E3DX54
UniRef90_F7UV59
UniRef90_Q46LE0
UniRef90_C9PME2
UniRef90_R7HQQ4
UniRef90_D4ILQ3
UniRef90_H8IAK7
UniRef90_B3QPU8
UniRef90_UPI00035FD12E
UniRef90_UPI0003B3FA10
UniRef90_M0PJG0
UniRef90_A2ST59
UniRef90_F0XQ15
UniRef90_W4Q754
UniRef90_UPI0002E041C7
UniRef90_UPI00030EF333
UniRef90_L9XBG1
UniRef90_N9LHF4
UniRef90_A3MY42
UniRef90_B5ES20
UniRef90_UPI0003002C40
UniRef90_K3W103
UniRef90_V4J0B7
UniRef90_L7JM46
UniRef90_UPI00047E95FA
UniRef90_D6XUG4
UniRef90_D5RI95
UniRef90_I3DJC6
UniRef90_M0CW71
UniRef90_UPI00036635F0
UniRef90_Q9LD90
UniRef90_K1Y8N7
UniRef90_A6LE73
UniRef90_B3EPG1
UniRef90_D5EQQ3
UniRef90_QOYS89
UniRef90_UPI000478AC68
UniRef90_K0NG15
UniRef90_C2CMW8
UniRef90_Q0FAT1
UniRef90_NOAV01
UniRef90_N6UWL8
UniRef90_S9VZN8
UniRef90_A1RTG8
UniRef90_Q2HAW7
UniRef90_M7TD01
UniRef90_UPI00046FB1FB
UniRef90_O26140
UniRef90_D8DU56
UniRef90_J9FQQ7
UniRef90_D3ENC8
UniRef90_W1Z0M5
UniRef90_T0C9S2

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

UniRef90_B0T311
 UniRef90_Q2IMF3
 UniRef90_C5LQY4
 UniRef90_S0G1U9
 UniRef90_Q46F79
 UniRef90_A7H6U8
 UniRef90_K9EAQ7
 UniRef90_F2LY01
 UniRef90_M2MNX0
 UniRef90_V4HZB3
 UniRef90_A0LCZ2
 UniRef90_W1F5X6
 UniRef90_B1HVU9
 UniRef90_F4HAT6
 UniRef90_C5CE10
 UniRef90_V4XKT7
 UniRef90_I4VNIQ7
 UniRef90_W9DXI9
 UniRef90_E0DGM7
 UniRef90_Q8FN82
 UniRef90_R5SCR7
 UniRef90_A4WH37
 UniRef90_UPI000379FF07
 UniRef90_UPI00035CE0B9
 UniRef90_F7XQP4
 UniRef90_U7Q167
 UniRef90_F9Q682
 UniRef90_UPI0003B36C9B
 UniRef90_U2UYF8
 UniRef90_K1XN81
 UniRef90_UPI00038107C0
 UniRef90_H5XWH6
 UniRef90_B1YA19
 UniRef90_R9KZ00
 UniRef90_D4GW35
 UniRef90_X1DK12
 UniRef90_UPI00036A413E
 UniRef90_T5A876
 UniRef90_Q15MX0
 UniRef90_E3DX54
 UniRef90_F7UV59
 UniRef90_Q46LE0
 UniRef90_C9PME2
 UniRef90_R7HQQ4
 UniRef90_D4ILQ3
 UniRef90_H8IAK7
 UniRef90_B3QPU8
 UniRef90_UPI00035FD12E
 UniRef90_UPI0003B3FA10
 UniRef90_M0PJG0
 UniRef90_A2ST59
 UniRef90_F0XQ15
 UniRef90_W4Q754
 UniRef90_UPI0002E041C7
 UniRef90_UPI00030EF333
 UniRef90_L9XBG1
 UniRef90_N9LHF4
 UniRef90_A3MY42
 UniRef90_B5ES20
 UniRef90_UPI0003002C40
 UniRef90_K3W103
 UniRef90_V4J0B7
 UniRef90_L7JM46
 UniRef90_UPI00047E95FA
 UniRef90_D6XUG4
 UniRef90_D5RI95
 UniRef90_I3DJC6
 UniRef90_M0CW71
 UniRef90_UPI00036635F0
 UniRef90_Q9LD90
 UniRef90_K1Y8N7
 UniRef90_A6LE73
 UniRef90_B3EPG1
 UniRef90_D5EQQ3
 UniRef90_Q0YS89
 UniRef90_UPI000478AC68
 UniRef90_K0NG15
 UniRef90_C2CMW8
 UniRef90_Q0FAT1
 UniRef90_NOAV01
 UniRef90_N6UWL8
 UniRef90_S9VZN8
 UniRef90_A1RTG8
 UniRef90_Q2HAW7
 UniRef90_M7TD01
 UniRef90_UPI00046FB1FB
 UniRef90_O26140
 UniRef90_D8DU56
 UniRef90_J9FQQ7
 UniRef90_D3ENC8
 UniRef90_W1Z0M5
 UniRef90_T0C9S2

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

UniRef90_E1QNH7
UniRef90_F4G245
UniRef90_U4L986
UniRef90_A8FCC4
UniRef90_R9SK94
UniRef90_N1PD08
UniRef90_UPI00036B0F65
UniRef90_F3PX45
UniRef90_B0XW54
UniRef90_K6DK88
UniRef90_UPI0003778AC3
UniRef90_R4W8F8
UniRef90_UPI00035D231B
UniRef90_W9Y7T0
UniRef90_X0ZGH2
UniRef90_B7GJH2
UniRef90_B1X3P3
UniRef90_F0S1S0
UniRef90_UPI0003B67FAD
UniRef90_Q8TZ08
UniRef90_Q4QM08
UniRef90_UPI00035CC04C
UniRef90_M9SC41
UniRef90_E5WM18
UniRef90_UPI0002628D33
UniRef90_F0R2A7
UniRef90_C5G848
UniRef90_Q5CTN5
UniRef90_Q64C00
UniRef90_D5GBG1
UniRef90_B4SG69
UniRef90_I0JJ38
UniRef90_D3E4A1
UniRef90_Q5VH53
UniRef90_W3X3Q5
UniRef90_A6KXU9
UniRef90_W9B8V4
UniRef90_UPI000477ADD3
UniRef90_S2JUG4
UniRef90_D1PZS4
UniRef90_R7ZPW8
UniRef90_M4YUN2
UniRef90_F6BF51
UniRef90_UPI000372A782
UniRef90_K4MPW4
UniRef90_J3NJJ8
UniRef90_Q5L123
UniRef90_D5E6Q0
UniRef90_E0TE16
UniRef90_A6USA4
UniRef90_X6LC15
UniRef90_UPI0004729FDF
UniRef90_UPI00047E81C2
UniRef90_R5EUP7

1

10

20

30

40

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

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

Q G K D L S D Y I Q A E K S G F G R G G M L

Q F G R G A G D A L F P

K D D I K K L K A Q F G N G A G D A L F T K I S M A

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

R D L S E Y I Q D T K S N F G R G G M I

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

K K D M I R S I A D Q F G K G A G T V L V P

Q G K D L S N Y I Q T S K S S F G R G G M L

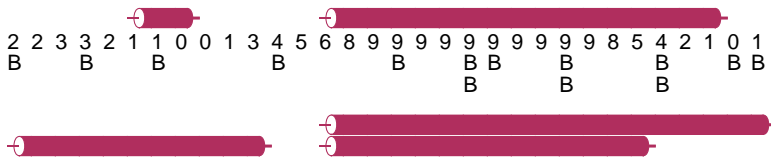
S H Y N S K K E C E K I N P D L E Y Q Y G A K I I D K L A A A R I A I D

G G I K S K L L A A K T A L D

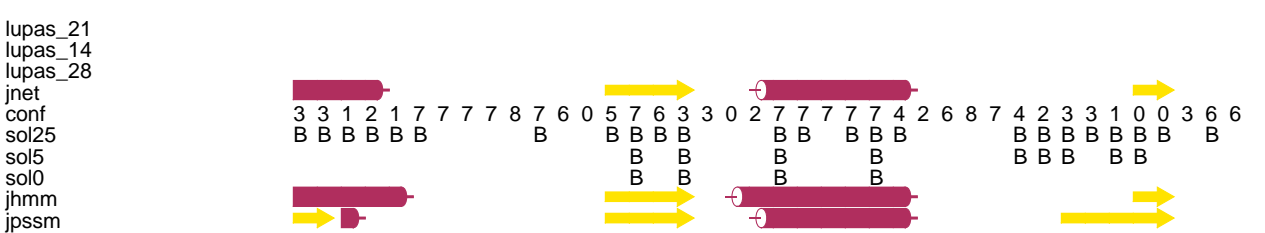
c c

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

9 9 8 7 1 0 2 2 3 3 2 1 1 0 0 1 3 4 5 6 8 9 9 9 9 9 9 9 9 8 5 4 2 1 0 1 7 7
B B B B B B B B B B B B B B B B



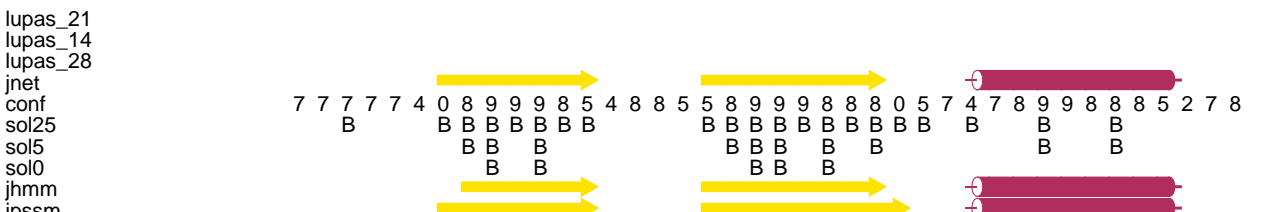
UniRef90_E1QNH7 R F A L L K K C S N P P R L R V W I V R D S A V D A I C H G A A L A V P G I V K L T
UniRef90_F4G245 R Y F W I L H G L K P H G T L I I N D E V I Q A I M K E G N V F A K H V I N V D
UniRef90_U4L986 R R Q W I Q F H S P V S G K I M I D A G A E A A I L H G R S L L P A G V I D V A
UniRef90_A8FCC4 S I M P M E E A A S H L P K I Y I K D S T V A A I T H G A D L A A G G I S L L S
UniRef90_R9SK94 R Y F W L L H G L T S H G I V Y I D Q G A C N A L E T K A G L L P A G G I I D V E
UniRef90_N1PD08 K K Q W M A F Y A R T D S L V E I D T G A E K A L E Q G R S L L A A G I R L I E
UniRef90_UPI00036B0F65 K K W L A H S E G F A K G E L H I N D C A T Q L L S K A A S I L L P I G I T A V V
UniRef90_F3PX45 R S F W L L H G L K P R G S L Y I D H G A Y S A L L N K A S L L P A G V V G V D
UniRef90_B0XW54 S K Q W I A L H S N V A G E I E I D N G A D A L L K G K S L L A A G I I N V K
UniRef90_K6DK88 K K Q W L A H H A Q P K G S I M I D S G A E R A V V K G K S L L S A G V K A V N
UniRef90_UPI0003778AC3 E A R A W T N S G A P V K R V E I D E F V P H G S A L L A P G V V D A D
UniRef90_R4W8F8 R S R W L L H S A P R G K I T V D S G A M R A I R N H N S L L P S G I V A V E
UniRef90_UPI00035D231B R A F W L L H G L A P H G T I Y V D R G A S Q A L A N K A G L L P V G V V G V E
UniRef90_W9Y7T0 F L L A H E G A R R I Q K W V S I H D G V L Q Y L I D G A L M L P G V V Q G C D
UniRef90_X0ZGH2 R K Q W I A Y H S E V A G A I E I D E G A E T A L L K G K S L L P A G V I N V V
UniRef90_B7GJH2 R Q S W L A H A I K I P T G K L T I D N E S E K A I L G G A S L L I S G I I N V R
UniRef90_B1X3P3 R L L Y L M K I K T G K L Y I D E G A V K A I V N G K S L L S R G L K K V E
UniRef90_F0S1S0 R K G W L K G R L T A K G R I L V D A G A A K A L A G G A S L L P A G A T G V E
UniRef90_UPI0003B67FAD H V R P M E E G L E H L P R I E I R D T A V D A I C H G A N L A A P G I V R V E
UniRef90_Q8TZ08 Q W L F A A P S A L I T I D D G A K N A I L Q N K S L L P A G G I I N V E
UniRef90_R4QM08 L K K W L A Q H P T T Q G R I Q V N E G A K V V L I D A T S L L P V G I V S I D
UniRef90_UPI00035CC04C R K R L V E N T P A P R M R V Q V A D D A V P F I S Q G R N A F C Q F V T A V D
UniRef90_M9SC41 W L A L H S V P N G K I E V D D Q G A H A L S Q G K S L L P A G V T A N I
UniRef90_E5WM18 R R F W L G Y A A G T R G R L H L D D G A V A A V V R R R S L L A A G I T G V D
UniRef90_UPI0002628D33 K K W L A H S E G F A K G E L H L N A G A V E A I K G K K S I L L P V G V T R I
UniRef90_C5G848 R S F W L L H G L S P H G T I Y I D A G A Y A A I L N K A G L L P A G V V G V E
UniRef90_Q5CTN5 H K R W I M S L P I S G K I F L D K G A I K S V T D S K S L L F S V G I V N V K
UniRef90_Q64C00 K L G G S R L H A F L P R V V V N S D E A P F V R D R D K T A F A R H I T D V D
UniRef90_D5GBG1 R Y F W I L H G L A P H G T I Y I D E G A Y G A L T R R D K L L P V G V V D V A
UniRef90_B4SG69 K R W I A N S E G M E K G A V T V N M G A E M A L V A G N S L L P V G I E S V E
UniRef90_I0JJ38 K K Q W I A F N S G P E G E V I D H R A K E S I L V E K R S L L P M N V H H V K
UniRef90_D3E4A1 S K L G A K R L A A I E G M V M I D N S V E S F A R D K S V F A K F I K D C D
UniRef90_Q5WH53 T K Q W I V F H S E P A G S I E I D S G A S T A L L R G K S L L P A G V L S A K
UniRef90_W3X3Q5 R K I T I Q P L E T L L V G R I V L K D S T V N A I C Y G A K L M L P G I R Y E
UniRef90_A6XU9 K K W I A H S E G F A K G E L H V N E Q A V K V L K K A V S L L P V G V V R I E
UniRef90_W9B8V4 K K Q W I A F N S G P E G E V T I K P S A K E A I L N H T S L E P S A V Y S V N
UniRef90_UPI000477ADD3 R K F W L R H A A E S S G I A V D D G A R A A I A R S R L L P A G I L S V E
UniRef90_S2JUG4 R K W W I Q Y A L H T A G T I Y V D E G A A K A M L T K S S L L F A A G I I Q V
UniRef90_D1PZS4 K K W I A H S E S F A K G K I H I N D K A E E A L K K A V S L L L V G V T G I E
UniRef90_R7ZPW8 K K W L A H S E N Y S K G E V V V N E G A K N A L Q K I T S L L P I G I V A A K
UniRef90_M4YUN2 I K P I E Y G L R H L K K V V V V K D S A V D A I C H G A D V Y V K G I S K L S
UniRef90_F6BF51 R Q K W L A S G S I T I G S L R V I D K G A E K A L L S R K S L L T V G I H D V K
UniRef90_UPI000372A782 E G T E L M V P S G N Y Q V R I D D F V P L K G S L L A P G V I E A D
UniRef90_K4MPW4 R S F W I L H G L K P H G T I Y I D Q G A H R A L L G K A G L L P V G I V D V E
UniRef90_J3NJG8 K K W I A H S E G F A K G E I H I N E Q A T E V L N K A V S I L L P V G I T R I E
UniRef90_Q5L123 I I R P M E E A L V N L P H I T I R D S A V S A I C H G A A L T V P G I V G F D
UniRef90_D5E6Q0 R R R W L S G V H E R S G S M D I D A G A L K A L K A E A S L L A C G V V Q V A
UniRef90_E0TE16 K L M L H K K L E F P K R V I V D K S V E E F A R A G K S V Y S K F V K C D
UniRef90_A6USA4 R Q R W L L G L S N K Y K I Y L D A G A V G A L L E R K S L L F A V G V K H I E
UniRef90_X6LC15 K K W L A H S D D F A R G E V F V N D G A R D A L L R A T S L L T I G I T G V Q
UniRef90_UPI0004729FDF P K Q W I A Y H S N I S G Q I T I D K G A E Q A I V H G R S L L P A G I T D I A
UniRef90_UPI00047E81C2 R W I A H S E G F A K G E L H I N A G A V K A I Q Q A V S L L P V G V T R I E
UniRef90_R5EUP7



UniRef90_E1QNH7
UniRef90_F4G245
UniRef90_U4L986
UniRef90_A8FCC4
UniRef90_R9SK94
UniRef90_N1PD08
UniRef90_UPI00036B0F65
UniRef90_F3PX45
UniRef90_B0XW54
UniRef90_K6DK88
UniRef90_UPI0003778AC3
UniRef90_R4W8F8
UniRef90_UPI00035D231B
UniRef90_W9Y7T0
UniRef90_X0ZGH2
UniRef90_B7GJH2
UniRef90_B1X3P3
UniRef90_F0S1S0
UniRef90_UPI0003B67FAD
UniRef90_Q8TZ08
UniRef90_Q4QM08
UniRef90_UPI00035CC04C
UniRef90_M9SC41
UniRef90_E5WM18
UniRef90_UPI0002628D33
UniRef90_F0R2A7
UniRef90_C5G848
UniRef90_Q5CTN5
UniRef90_Q64C00
UniRef90_D5GBG1
UniRef90_B4SG69
UniRef90_I0JJ38
UniRef90_D3E4A1
UniRef90_Q5VH53
UniRef90_W3X3Q5
UniRef90_A6XU9
UniRef90_W9B8V4
UniRef90_UPI000477ADD3
UniRef90_S2JUG4
UniRef90_D1PZS4
UniRef90_R7ZPW8
UniRef90_M4YUN2
UniRef90_F6BF51
UniRef90_UPI000372A782
UniRef90_K4MPW4
UniRef90_J3NJG8
UniRef90_Q5L123
UniRef90_D5E6Q0
UniRef90_E0TE16
UniRef90_A6U5A4
UniRef90_X6LC15
UniRef90_UPI0004729FDF
UniRef90_UPI00047E81C2
UniRef90_R5EUP7

130 140 150 160

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



	170	180
UniRef90_E1QNH7	R G I A V K T	
UniRef90_F4G245	R G V A V T V	
UniRef90_U4L986	S Q I A	
UniRef90_A8FCC4	K P E V I H R D H W V	
UniRef90_R9SK94	N G I I V N T N H V F M D E	
UniRef90_N1PD08	S Q I A E I I G Y	
UniRef90_UPI00036B0F65	E G I F I H	
UniRef90_F3PX45	K R P V V H Y D Y L Y	
UniRef90_B0XW54		
UniRef90_K6DK88		
UniRef90_UPI0003778AC3	K E K A A E V I H	
UniRef90_R4W8F8	R G V A V D V R H V	
UniRef90_UPI00035D231B	S	
UniRef90_W9Y7T0	S E V	
UniRef90_X0ZGH2		
UniRef90_B7GJH2	E E A K R Y S F H H	
UniRef90_B1X3P3		
UniRef90_F0S1S0		
UniRef90_UPI0003B67FAD	A D L A A I L G H	
UniRef90_Q8TZ08	R G I M V D T K R V L M	
UniRef90_Q4QM08		
UniRef90_UPI00035CC04C	Q K P L V H Y D Y L Y	
UniRef90_M9SC41	K G I A V K T	
UniRef90_E5WM18	R S V V I H R D H W V	
UniRef90_UPI0002628D33	H	
UniRef90_F0R2A7	Q R P L V H Y D Y L Y	
UniRef90_C5G848		
UniRef90_Q5CTN5		
UniRef90_Q64C00	H G M G V D V	
UniRef90_D5GBG1	S K I Q E L L G Y A G	
UniRef90_B4SG69	Q K P L I H Y D Y L Y	
UniRef90_I0JJ38		
UniRef90_D3E4A1	T G Q A I K T R K G F K D	
UniRef90_Q5VH53		
UniRef90_W3X3Q5	H G V V A K V K R C I M	
UniRef90_A6KXU9	Q K P M V H Y D Y L Y	
UniRef90_W9B8V4		
UniRef90_UPI000477ADD3		
UniRef90_S2JUG4	T E I	
UniRef90_D1PZS4	L K P L I H Y D Y L Y	
UniRef90_R7ZPW8		
UniRef90_M4YUN2	Q G V A V K V G H Y P R M W K Y S T D L G	
UniRef90_F6BF51	E G V A V D V E R I Y M	
UniRef90_UPI000372A782		
UniRef90_K4MPW4	R G V A V D L R H V	
UniRef90_J3NJG8	A E I G	
UniRef90_Q5L123	K K A V V H Y D Y L Y	
UniRef90_D5E6Q0	S G I A A I T E R V I N D D V Y	
UniRef90_E0TE16		
UniRef90_A6USA4	Y G V A V N I	
UniRef90_X6LC15		
UniRef90_UPI0004729FDF		
UniRef90_UPI00047E81C2		
UniRef90_R5EUP7	A K P F V H Y D Y L Y	

