

1 10 20 30 40
QUERY G P E Y K V A I L T V S D T V S A G A G P D R S S G P R A V S V V D S S S E K L G
UniRef90_J4TGY6 G P Y R V G I L T V S D R A S K G G E Y E D K S S G G P V T K E L V E A A
UniRef90_U2S3D2 F K A A G V L T V S D R S F R G G E R P D A G N R A M I D S N R A M I D S N R A M I D S N R A M I
UniRef90_K4ATA1 P C P T A I G V L S T G D E L V R G Q I R D S N R A M I D S N R A M I D S N R A M I D S N R A M I
UniRef90_R7B3U2 R A A A I I T S S D S G Y A G K R E D V S S G P V I A E M V L R E A A
UniRef90_UPI000310B333 L S A A A I I T S S D S G Y A G K R E D V S S G P V I S Q E M L K E A A
UniRef90_R5Y085 F T A A I V T L S D K G Y A G G E R E D K S S G P M I S Q E L L E A A C T D S
UniRef90_R5TNB1 Y R A G I V T L S D K G A A G E R E D K S S G A V I R E I L L E A A
UniRef90_J2ICE4 Q A K I G I V T V S D R A S A G I Y E D L S S G K A I I D T L R E Y L S S D G
UniRef90_B3SAE9 L K V G I V T V S D K G S R G E R E D L S S G P N L I R I I R E D G S F G E
UniRef90_D5XCK3 Y R V G I I T A S D K G S R G E R E D L S S G P V I K K K V A E I K
UniRef90_J7IUE3 L R V G I I T A S D K G S R G E R E D L S S G P T L S K L V A Q E I
UniRef90_R4KC00 F K V A I L T M S D K G S R G E R E D R S S A G V I K E I V A A Q
UniRef90_UPI0003A57CAA Y R V G I L T A S D K G S R G E R E Q D Q S A A V I K E I V A A Q
UniRef90_E4RMK3 K I K T A V L T T I S D K G S R G E R E D L S S G P V L E K M M L E V
UniRef90_UPI00047889AD K A K I G I V T L S D R A S A G I Y E D L S S G K A I Q D T M K E Y L I T
UniRef90_Q30RS8 I T K I G V I T A S D R A S K G I Y E D L S S G V A I Q D T M K E Y L K S E
UniRef90_A8MHR9 I T K I G V I T A S D R A S K G E R T D T S G P L I G E L L E P I
UniRef90_D9S0D1 P V I R V G I L T A S D K G A K G E R E D L S S G K V I G E M M E A V N
UniRef90_R5X4M6 Y R V G I I T A S D K G S R G E R E V D E S S A K I K E V V G E F
UniRef90_F6CJD0 W R V G I L T A S D K G S R G E R E D K S A Q V I R D M V A G I
UniRef90_B2V611 K A K I G V L T I S D R A S K G I Y E D I S S G K A I I D Y L N D V L I T
UniRef90_D5V644 E I K I G L V T A S D R A S N G V Y E D L S S G K A I I D T L N E Y L T S K W
UniRef90_Q31FD4 P P L R A A V I T L S D R A S R G E R E D L G G P A M Q E W V G K A L T S E W
UniRef90_R5R5F7 P V F R V G I V T L S D K G Y Q G E R E D K S S G P L V A E M L P A E Q
UniRef90_R7JRB2 K A G I I T V S D K G S L G L R E D T S G P K I K E L L W K I
UniRef90_A0A017RUH4 Y K I G I V T M S D K G S R G E R E D A S G A T I R E M V A G L G
UniRef90_F6B7C2 K P K V A I L S T G D E L T P G T I W D C N R I T L I S F L R R R N
UniRef90_T1K5Z4 W R V G I L T A S D K G S R G E R E D R T S A Q V I R E M I S Q E E L
UniRef90_UPI00035C5609 K V A V L T A S D K G A R G E R E D R S A E V I K E M V I
UniRef90_K4LD16 I K V G I L T V S D K G S K G K R V D S T G P A I K Q L L D D K
UniRef90_W6N367 R I G I V T L S D R A S S G G Y A D L S G P A I E A W L R Q A I T
UniRef90_A71BB5 F R V A V V T A S D K G S R G E R E D E S G R V I E D M I V T L
UniRef90_B115T6 P P I R I G I I N V S D R A S A G V Y E D I P G K A V V D L L N Q Y L T C A W
UniRef90_UPI000367C9DB V R I G I V T V S D R A S R G E R E D Q G G P A I R S W L E S A L V S A
UniRef90_L0DYC9 F R V G I L T V S D K G F R G E R Q D T T H L A I R S V L A G G P F
UniRef90_Q5SLF2 Y T V G I I T S S D K G Y A G G E R E D K S S G E V V R E I V E A A
UniRef90_L1QED5 F T V G V L T I S S D K G A G G D R D D K S G A V I H E I L P S I
UniRef90_X1EJL2 W K V G V L T V S D R S S R G E R P D L S S G P A I K D R L I A A R I
UniRef90_A0A023CQ84 F Q A A V I T L S D R S S R G E R E D L S S G P L L Q E M L R A Q
UniRef90_D6DGP0 Y R C G V L T S D K G A R G E R E D T S S G P L L Q E M L R A Q
UniRef90_E8RIA2 Y R C G V L T S D K G A R G E R E D T S S G P L L Q E M L R A Q
UniRef90_E3HCH1 Y K A V V V C L S D K G Y R G E R E D K T S S Q V M I E I L E K N
UniRef90_R6EYF1 Y K T A I I T M S D K G A A G R R K D E S S G P A A R M I I E G Q G E
UniRef90_A0LEC1 T V A I I T V S D R G A R G E R E D A S G Q A L H D L L T R S H
UniRef90_D8GLZ0 I N T A I I T M S D K G S Q G K R E D K T G P A I E N M L D K S Q
UniRef90_M3KB47 K I G V V T V S D R A S R G E R E D L S S G P A I E N W L K S A I V T
UniRef90_R5D8G6 F T A A V I T L S D K G S R G E R E D K S S G P S A V S L A E E A
UniRef90_R4JYW9 I S T A I L L T V S D K G S R N E R E D T T G P S I K D T L P E D
UniRef90_M5RRF3 V G V L T V S D R A S R G E Y E D R G G P A I H E Y L N E I L L D C D W
UniRef90_H2Y4D4 V R I A V V T V S D R S S R G E S E D V S G P T L Q K L I T E I K R F Q
UniRef90_UPI0003F62E36 W Q A A V I T L S D K G A R G E R E D K S S G P A I V Q R L E A E
UniRef90_R6R7N9 Y Q A A V I T L S D K G A R G E R E D L S S G P A I V D R L K A A
UniRef90_R5AN94 P K I G V L S T G D E L M P G R I Y D S N K V I T L S M L K E N
UniRef90_UPI000258F21F I K I G V V V A S D R A S A G L Y A D E S G K A I E Q V L S E Y L L N P L
UniRef90_E7FZA7 E F R A A V L T I S D R S S K G E S K D L S S G P A M K D V L Q Q M Q S A
UniRef90_K3XC11 R V S V V T V S D R S C H A G T R T D E S S G P K L V L V D T S Q K V N A
UniRef90_G0MXV3 K A A L L I L S D R G A R G E R A D A S G P A L E K W L S Q Q G V T T N
UniRef90_A5G7C6 G I V T L S D R A T A G V Y E D K S G P A I R E V Y T R W L A M
UniRef90_UPI00047C9A28 F K V A I L T C S D K G Y E N K R I D D S G K V I K E I V E S V
UniRef90_UPI0002883060 L R W A L R T V S D R C S Q Q A E D T S G R N L E E I V N S K K L I N G
UniRef90_R5ICN5 F Q A A V I T L S D K G A K G E R V D E S S G P A A K E M L E Q A
UniRef90_B0S052 Y K V A V L T V S D K G S Q G K R E D L S S G K K I I E I L E K N
UniRef90_R5S4M2 Y T A S V I T V S D L G S R G L R Q D T S G P A V R A M L E D A
UniRef90_UPI00036DF79B I T V I S I L T V S D S A A G K R E D L S S G P A L R A R C D D L
UniRef90_G5H474 A A V I T A S D K G A R G E R E D K S S G A A I R E M L E E A
UniRef90_C9LWF5 F R T A I V C M S D K G A R G E R E D L S S T K V I E K I V T E
UniRef90_H1PP24 I K T A I I T V S D K G S R G E R E D G T G E A L K N M L D P N
UniRef90_C6PV89 T A A V L T L S D K A S R G E R V D E S S G P A A V K I L K D Y
UniRef90_R71SJ7 I K T A I L T I S D K G S R G E R V D E S G L E I K K L A N L
UniRef90_F0K8J3 R M R V A V L T L S D K A S I G Q R K E D T S G P L I E K I M T E H
UniRef90_B7CBK2 V G V L T T S D R V S Q G I A I D Q S G P E I V A I I K N Q L K Q M M
UniRef90_Q54KM0 Y T C A V L T T S D Q G A K G K R E D T S G P A L R E L L S E R
UniRef90_Q1NNY9 L K A A V L V L S T F E G K R K D T S G K I L V E R L K E Q P
UniRef90_T0L9C4 T I G V V T V S D R A S V G L Y E D E S S G P A L I A Y L T R I L T
UniRef90_UPI0003F65702 F T A A V I T L S D K G A D G L R V D E S S G P A A V S L L S D A
UniRef90_E9SMF9 R A S V V T V S D R A S G T Y A D R S S G P L L A A G L V E L G F A V D
UniRef90_E3JB96 I G L V T I S D R A S Q G V Y A D Q G I P A L N D W L A N A L A
UniRef90_S6A9T6 Y R A L V V T A S N R A A A G V Y E D K G P A I A A G L E S F G A V D
UniRef90_S2XX62 R W K V A I L T A S D K G S R G E R E D T S A Q V I R E L V E E L
UniRef90_C6CVK7 V R I G L V S I S D R A S R G V Y E D Q G I P A L Q E W L S R A L R N P I
UniRef90_UPI000363818C K F G I V T V S D R A S T G I Y D D L S S G P A I L Q F F H E A I K S R
UniRef90_E1Z8Y3 K A A V L T I S D S V S A G T R A D R S S G P A V R E R L E Q L
UniRef90_Q028Z5 K P T V A V E S T G S E L A S G E I R D S N R I L L I T T L Q S N N F K T L
UniRef90_H2Y4D3 R A A I L T L S D K G A R G E R V D A S G P A L S A W L A E R
UniRef90_B3E5H9 F T F A V I T I S D K G A S G K R I D T S G A G L K Q L L E G E
UniRef90_V4J5V1 Y T V G I I T I S D K G A A G R R E D K S G Q K I R Q M L P K D
UniRef90_R5UMQ0 R I A I L T V S D S C W N Q T R E D I S S G P V L R Q L I N S N I L S N
UniRef90_UPI00047EDC72 E V K C A V L T V S D T R D Q E T D K S G K L M I Q L L E E A
UniRef90_B5Y839 P V I T C S I L I C S D R C F R G E R E D K T G P V L K E T L E R L

QUERY G A K V V A T A V 50 P D E V E R I K D L L Q K W S D V D E M D L I L T L G G T G G
UniRef90_J4TGY6 G M E V V D Y T I V P D D E K G R I A K A K L L Y F S D D Q R R Q V D L V F T T G G T G G
UniRef90_U2S3D2 G Y A V I T E T A I V P D D E K G R I E A A A L R Q W N A F D R E S P G V D L L L V S T T S G G T G S
UniRef90_K4AT1 C K V I D L G I A R D D D E Q E I E A R L L D N A F A S G P D I D L L L V T T S G G G V S
UniRef90_R7B3U2 G Y E V V W Q K V L P D D D Q A M L E E A M K E I C D E D E G K A D L L L L T T S G G T G
UniRef90_UPI000310B333 G Y E V V K T M L L L P D D E R Q A M L A D R T M K K I L A D D E H Q A D L L L L T T T G G T G
UniRef90_R5Y085 K Y Q I L E K M I L P D D E R K A K I E R Q L C L A D D Q R Q L N V L F T T T G G T G
UniRef90_R5TNB1 G Y E V A A Q S L L P D D E G E A L K K E L T R L S A D D Q V Q C D L V L T T T G G T G
UniRef90_J2ICE4 W Q A E Y R L L P D D E Q P L I E A Q T L L I E L A E D Q Q G C C C L I L V T T T G G T G
UniRef90_B3SAE9 N P N I V Y K C V A P D D E V D D I K A Q V L L D W S A D N V K V L L I L V T T T G G T G
UniRef90_D5XCK3 G R V E H Y V I L P D D D R Q Q T I A E R L K D W A D N Q G L D L L I F T T T G G T G
UniRef90_J7IUE3 D G E V V E Y L V L P D D D Q A Q L E A T M C Q W A D E L R N L D L L I T T T G G T G
UniRef90_R4KC00 G W T V A E Y R V I P D D D Y D T I V I E T L I D L V D R G L N L D L L I L T T T G G T G
UniRef90_UPI0003A57CAA G W Q V A D Y R V V P D D E L E V I K E S L L L H M V D H D R L D L L I T T T G G T G
UniRef90_E4RMK3 G A E L V H R E I V A D D F M E E I K Q S A L L I Y L A D D H K K Q V D L L I L T T T G G T G
UniRef90_UPI00047889AD P F E C U P I 0 0 0 4 7 8 8 9 A D P D D F M E E I K Q S A L L I Y L A D D H K K Q V D L L I L T T T G G T G
UniRef90_Q30RS8 F E I V Y R C I P D D E Q E M I E K T M I E L S D K Q E C C C L I V T T T G G T G
UniRef90_A8MHR9 G I V K E Y M I V P D D E R E K L A E G L L I Y M C E D E A K L D L L I F T T T G G T G
UniRef90_D9S0D1 G R I E E Y V M V P D D D L E A I K N S L L A M C E K G L D L L V L T T T G G T G
UniRef90_R5X4M6 G Y E V K F Y K V L P D D D K D V L A E E M K S L C D K N E V L D L L I L T T T G G T G
UniRef90_F6CJD0 G G E V V S Y R I V P D D D L D V L K E A L T K M V D D R K G L D L L I L T T T G G T G
UniRef90_B2V611 P F E V D Y R V I P D D E L E L I K E T L I D M I V D N K G C C S L I L V T T T G G T G
UniRef90_D5V644 E P V V A R V I P D D E Q E T I E N T L K D L V D N E N C C C L V V T T T G G T G
UniRef90_Q31FD4 T P V A R V I P D D E Q A L I E K T L K E L A D T E N C C D L L I L T T T G G T G
UniRef90_R5R5F7 G Y Q I E E T L L L P D D G M Q P L K N Q L I R L A D G R Q M D L L I L T T T G G T G
UniRef90_R7JRB2 Y E V V S M R L L P D D E R A M I E E E L I R L A D L E Q C D L V L T T T G G T G
UniRef90_A0A017RUH4 G C E V V D Y I V P D D E R E T I S Q E L I R M A C E K K D L H M V F T T T G G T G
UniRef90_F6B7C2 T V E Q Y R V I P D D D P E I K A T L I E Y A C D Q H K L D L V L T T T G G T G
UniRef90_T1K5Z4 Y D V I D L G I V E D D L R Y L E S R I C S G L E K S D L L I L T T T G G T G
UniRef90_UPI00035C5609 G G E I V E Y R I V P D D E K D E I M A G L L T E M A D Y F Q T H L L L I L T T T G G T G
UniRef90_K4LD16 G G E V V A Y D V V P D D E K E L K K G L L E Y A D A R G L D L L I L T T T G G T G
UniRef90_W6N367 D Y N V E Y K I V P D D E M E D I E K E L V Y L S D T K L D L V L T N G G T G
UniRef90_A7IBB5 S P W S V D Y R I V P D D G F E S V R D T L I D M C D H A G L D L I L C T T T G G T G
UniRef90_B115T6 G W E L V D T R I V P D D L V E I J E T L V E L C D D R A D L L V L T T T G G T G
UniRef90_UPI000367C9DB E P V V Y R V I P D D E Q D Q L S A A F I E M A D V Q E C C C L I V T T T G G T G
UniRef90_L0DYC9 W E P V A R V I P D D E C A R V E E T L A E L A D T A G C C C L V V T T T G G T G
UniRef90_Q5SLF2 E V A A Y E I V P D D E P P M I K K V L R L W A D R E G L D L L I L T N G G T G
UniRef90_L1QED5 G F K V V K Q V I L P D D E K E M L A N E F K Y M C D E L K V N L V L S T T G G T G
UniRef90_X1EJL2 D A R I A N Y E V I P D D E K E P I A A K L V K W A D E D D L D L I L T T T G G T G
UniRef90_A0A023CQ84 D G E V A V Y E I P D D E R P V I E A T L I R F V D E V C C D L L I L T T T G G T G
UniRef90_D6DGP0 G F E V V E T L L L P D D D R E K L R Q E L I R L C D D Q R R P D L L I L T T T G G T G
UniRef90_E8RIA2 G Y E I A T L L I L P D D Q Q P L I K E Q T L S W V D E Q Q G L D L V L T T T G G T G
UniRef90_E3HCH1 N Y E V V E N I L L P D D D Y Y L K H T L T E I C D D Q K K A D L L I L T T T G G T G
UniRef90_R6EYF1 F E V T E M V I L P D D E P E I L K R E L T R L S D R E R H D L L I L T T T G G T G
UniRef90_A0LEC1 G F D V C Y Q T I V P D D E A E V I S Q A I R E C A V V K R V A L L I L T T T G G T G
UniRef90_D8GLZ0 Y K V E Y Y K V I P D D E I E I K K Q L C Y I C A V D D L K L N L I L T N G G T G
UniRef90_M3KB47 P Y E I D K R V I P D D G M E S V R D T L T D L V D N V G C D L I L T T T G G T G
UniRef90_R5D8G6 G Y I V K E S L L L P D D E K E A L K K E L K R L S A D D Q R Q L N V L F T T T G G T G
UniRef90_R4JYW9 K Y S V D Y K I I P D D E I D I K K E L I Y L S D T V G I N V L V L T N G G T G
UniRef90_M5RRF3 S V V A R I V S D D V Q A I E S A L I E L C D D Q S H C S L V V T T T G G T G
UniRef90_H2Y4D4 V V I K V Y K I V P D D E F E I K S T L K D W S D R L N L N L I L T T T G G T G
UniRef90_UPI0003F62E36 G F T V A V R E V V P D D E R F V I A Q T L R R L C A L E D I S C V I L T T T G G T G
UniRef90_R6R7N9 G Y E V V E Q T L L A D D A A A L K T T L T R L A D Q R Q L D L I L T T T G G T G
UniRef90_R5AN94 G Y E I A E T L L L P D D G E Q P L K A E L M R L A D Q R Q I D L I L T T T G G T G
UniRef90_UPI000258F21F G Y D S I D M G I A V D D E V V M V N K I K H A I K Q V D V L I T T S G S V S
UniRef90_E7FZA7 E F V Y R L L P D D E Q D L L E Q T L I E L S D R A S C A L I V T T T G G T G
UniRef90_K3XC11 K T H I V D A A V V P D D E I D E I Q R V I M A W T D S K A L D L V L T T T G G T G
UniRef90_G0MXV3 T V N V G S P T V V P D D V T A I Q E A L E N C K N S D V I L T T T G G T G
UniRef90_A5G7C6 R C E V I P D D E G A M I J E R L R E W A D S N T F D L I L T T C G G T G
UniRef90_UPI00047C9A28 P W Q E A Y R L V P D D E Q P A I E A A L C E L A D V V R C P L I V T T T G G T G
UniRef90_UPI0002883060 G Y T V E K Y I L V L P D D K N M I S N E L I E C S D N L N V D L I L T T T G G T G
UniRef90_A0A023FPC9 L V V I R Q C V P D D A E L I K R T L V S W S D A E K L D L L I L T T T G G T G
UniRef90_R5ICN5 G Y E V V E T L L L P D D E P A M L K T Q L M R L A D G R Q L D L L I L T S G G T G
UniRef90_B0S052 G Y K L E K Y D I V P D D E K E I K E K L I E Y S N D N I E L I L T T T G G T G
UniRef90_R5S4M2 G F T V V H T A I V S D D E R G Q I S A L L R A C A D E K R I N L I L T T T G G T G
UniRef90_UPI00036DF79B G W Q V V H Q R T V S D N A D E I K E R L A A W S D G K A C R L I L T T T G G T G
UniRef90_G5H474 G Y H V A G N I V S D D A K E V I M R E M T L W A D R G V A L I L T T T G G T G
UniRef90_C9LWF5 G Y R I A R R V I L P D D E E A L A K E M Q E C A D L G V A L V A T T T G G T G
UniRef90_H1PP24 G Y K V V K K L I P D D E Y E L I K E T L K N I C D D N E A D L I L T T T G G T G
UniRef90_C6PV89 Y Y S I D Y K I I P D D E L D K I V I E L V Y L S D D L Q V N L V L T N G G T G
UniRef90_R7ISJ7 G Y D I I E T L I L P D D E Q D Q I E R E L I R L S D D R Q A D L I I T T T G G T G
UniRef90_F0K8J3 G Y E I S F Y K I I P D D E R R D I E K E L I Y L A D E L K Q V N L I L T N G G T G
UniRef90_B7CBK2 G Y N V T S V T V I A D D E N E I V S Q L N L S D R C Q N D L I L T T T G G T G
UniRef90_Q54KM0 G N V I T V Y K V V P D D E I E H I Q Q M I T Q W T H L K Y K L I L T T T G G T G
UniRef90_Q1NNY9 G F T V T D H A L V A D R L A E I S R V L L N V E W I D R R K T D L V I L T T T G G T G
UniRef90_T0L9C4 V I E V V K Y E I L P D D E E K I R A V L L N V E K E K V D L I L T T T G G T G
UniRef90_UPI0003F65702 S P F H I V R R I I P D D G F D S V R D A L I D L A D N A H C D L I L T T T G G T G
UniRef90_E9SMF9 G Y R V I E A F L I P D D E P K E L K H H L R L S D S R Q T S L I L T T G G T G
UniRef90_E3JB96 G P V V V P D D E R G R I V A A L R A L S A G A D L V T T T G G T G
UniRef90_S6A9T6 T P W R A I T R M L P D D E Q A Q I E A A L R Q L A D E E G C C L I L T T T G G T G
UniRef90_S2XX62 G P R V V P D G P V I E A A L R A G A E A G Y D V L V T T T G G T G
UniRef90_C6CVK7 G G E I V D Y R V I P D D E Q D E I M A A I J E M T E Y Q A D V L V L T T T G G T G
UniRef90_UPI000363818C T W E T R L I P D D E R E G I A A T L R E L V D E R G C D L V L T T T G G T G
UniRef90_E1Z8Y3 W Q V V Y R V I P D D E R P L I E E T L K E L C D K E G C C L V V T T T G G T G
UniRef90_Q028Z5 G W S V A V M E V I P D D V I S E I G E R L A T L A D G G Q V V S A I F T T T G G T G
UniRef90_H2Y4D3 D F G I V P D K P G E L K A A L L S A C E K A D V V V T T T G G T G
UniRef90_B3E5H9 G V T T V A A E V I A D E Y Q Q I T A R L T A W A D S D T A D L I L T T T G G T G
UniRef90_V4J5V1 G F T L V H Y E I V P D D E Y A Q I G A A T I R A V D D M S A D L V L T T T G G T G
UniRef90_R5UMQ0 E Y E V V S Y K I I P D D E R K Q I A D E L V R L S D D M K C N L V L T T T G G T G
UniRef90_A8NTT2 S D V E N F L V S D D E K E I A H M L N L C K T F D V I S T T T G G T G
UniRef90_UPI00047EDC72 H S I A D Y I V K D E T A S I R E A V L K G C E D P N T D A V L T N G G T G
UniRef90_B5Y839 G Y H V H D V K V V P D D E L D V I V D Q L K E W V R L G M D L I I T S G G T G

QUERY UniRef90_J4TGY6 UniRef90_U2S3D2 UniRef90_K4AT1 UniRef90_R7B3U2 UniRef90_UPI000310B333 UniRef90_R5Y085 UniRef90_R5TBN1 UniRef90_J2ICE4 UniRef90_B3SAE9 UniRef90_D5XCK3 UniRef90_J7IUE3 UniRef90_R4KC00 UniRef90_UPI0003A57CAA UniRef90_E4RMK3 UniRef90_UPI00047889AD UniRef90_Q30RS8 UniRef90_A8MHR9 UniRef90_D9S0D1 UniRef90_R5X4M6 UniRef90_F6CJD0 UniRef90_B2V611 UniRef90_D5V644 UniRef90_Q31FD4 UniRef90_R5R5F7 UniRef90_R7JRB2 UniRef90_A0A017RUH4 UniRef90_F6B7C2 UniRef90_T1K5Z4 UniRef90_UPI00035C5609 UniRef90_K4LD16 UniRef90_W6N367 UniRef90_A7IBB5 UniRef90_B115T6 UniRef90_UPI000367C9DB UniRef90_L0DYC9 UniRef90_Q5SLF2 UniRef90_L1QED5 UniRef90_X1EJL2 UniRef90_A0A023CQ84 UniRef90_D6DGP0 UniRef90_E8RIA2 UniRef90_E3HCH1 UniRef90_R6EYF1 UniRef90_A0LEC1 UniRef90_D8GLZ0 UniRef90_M3KB47 UniRef90_R5D8G6 UniRef90_R4JYW9 UniRef90_M5RRF3 UniRef90_H2Y4D4 UniRef90_UPI0003F62E36 UniRef90_R6R7N9 UniRef90_R5AN94 UniRef90_UPI000258F21F UniRef90_E7FZA7 UniRef90_K3XC11 UniRef90_G0MXV3 UniRef90_A5G7C6 UniRef90_UPI00047C9A28 UniRef90_UPI0002883060 UniRef90_A0A023FPC9 UniRef90_R5ICN5 UniRef90_B0S052 UniRef90_R5S4M2 UniRef90_UPI00036DF79B UniRef90_G5H474 UniRef90_C9LWF5 UniRef90_H1PP24 UniRef90_C6PV89 UniRef90_R7ISJ7 UniRef90_F0K8J3 UniRef90_B7CBK2 UniRef90_Q54KM0 UniRef90_Q1NNY9 UniRef90_T0L9C4 UniRef90_UPI0003F65702 UniRef90_E9SMF9 UniRef90_E3JB96 UniRef90_S6A9T6 UniRef90_S2XX62 UniRef90_C6CVK7 UniRef90_UPI000363818C UniRef90_E1Z8Y3 UniRef90_Q028Z5 UniRef90_H2Y4D3 UniRef90_B3E5H9 UniRef90_V4J5V1 UniRef90_R5UMQ0 UniRef90_A8NTT2 UniRef90_UPI00047EDC72 UniRef90_B5Y839

90 100 110 120

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

QUERY	K
UniRef90_J4TGY6	S
UniRef90_U2S3D2	S
UniRef90_K4ATA1	
UniRef90_R7B3U2	
UniRef90_UPI000310B333	K
UniRef90_R5Y085	R
UniRef90_R5TNB1	S
UniRef90_J2ICE4	
UniRef90_B3SAE9	Q
UniRef90_D5XCK3	K
UniRef90_J7IUE3	K
UniRef90_R4KC00	
UniRef90_UPI0003A57CAA	
UniRef90_E4RMK3	K
UniRef90_UPI00047889AD	
UniRef90_Q30RS8	N
UniRef90_A8MHR9	K
UniRef90_D9S0D1	R
UniRef90_R5X4M6	
UniRef90_F6CJD0	
UniRef90_B2V611	E
UniRef90_D5V644	E
UniRef90_Q31FD4	E
UniRef90_R5R5F7	K
UniRef90_R7JRB2	R
UniRef90_A0A017RUH4	R
UniRef90_F6B7C2	
UniRef90_T1K5Z4	
UniRef90_UPI00035C5609	
UniRef90_K4LDI6	Q
UniRef90_W6N367	K
UniRef90_A7IBB5	
UniRef90_B1I5T6	
UniRef90_UPI000367C9DB	
UniRef90_L0DYC9	
UniRef90_Q5SLF2	
UniRef90_L1QED5	
UniRef90_X1EJL2	K
UniRef90_A0A023CQ84	K
UniRef90_D6DGP0	R
UniRef90_E8RIA2	K
UniRef90_E3HCH1	K
UniRef90_R6EYF1	
UniRef90_A0LEC1	Q
UniRef90_D8GLZ0	
UniRef90_M3KB47	
UniRef90_R5D8G6	R
UniRef90_R4JYW9	
UniRef90_M5RRF3	
UniRef90_H2Y4D4	K
UniRef90_UPI0003F62E36	
UniRef90_R6R7N9	R
UniRef90_R5AN94	R
UniRef90_UPI000258F21F	
UniRef90_E7FZA7	
UniRef90_K3XC11	
UniRef90_G0MXV3	K
UniRef90_A5G7C6	Q
UniRef90_UPI00047C9A28	
UniRef90_UPI0002883060	
UniRef90_A0A023FPC9	Q
UniRef90_R5ICN5	R
UniRef90_B0S052	Q
UniRef90_R5S4M2	
UniRef90_UPI00036DF79B	
UniRef90_G5H474	R
UniRef90_C9LWF5	R
UniRef90_H1PP24	
UniRef90_C6PV89	
UniRef90_R7ISJ7	N
UniRef90_F0K8J3	N
UniRef90_B7CBK2	K
UniRef90_Q54KM0	N
UniRef90_Q1NNY9	K
UniRef90_T0L9C4	
UniRef90_UPI0003F65702	
UniRef90_E9SMF9	R
UniRef90_E3JB96	R
UniRef90_S6A9T6	
UniRef90_S2XX62	R
UniRef90_C6CVK7	
UniRef90_UPI000363818C	
UniRef90_E1Z8Y3	E
UniRef90_Q028Z5	R
UniRef90_H2Y4D3	
UniRef90_B3E5H9	R
UniRef90_V4J5V1	K
UniRef90_R5UMQ0	
UniRef90_A8NTT2	
UniRef90_UPI00047EDC72	K
UniRef90_B5Y839	H

UniRef90_K1QYH1
UniRef90_A0A023BXQ0
UniRef90_D2A001
UniRef90_I7BTN5
UniRef90_S7VGX6
UniRef90_A0A023DCY3
UniRef90_C8KZN0
UniRef90_T1JB58
UniRef90_D2Z8P7
UniRef90_X8JWA9
UniRef90_UPI00036F548B
UniRef90_Q5P7P9
UniRef90_W5JCU1
UniRef90_F9MUJ6
UniRef90_I3C8V9
UniRef90_G1QI49
UniRef90_B3EHH0
UniRef90_UPI00046221C4
UniRef90_J9JRK6
UniRef90_Y0KJD2
UniRef90_A4TQG3
UniRef90_UPI00038046F2
UniRef90_B8HK73
UniRef90_I0XTH0
UniRef90_UPI00039E54AF
UniRef90_N1WD73
UniRef90_G2YM15
UniRef90_UPI000465CF5F
UniRef90_G8NSJ3
UniRef90_C6BYR9
UniRef90_UPI000469D205
UniRef90_C8WZL0
UniRef90_H8ISP2
UniRef90_E9GEV6
UniRef90_D3BJV5
UniRef90_UPI0003818458
UniRef90_S2JRG0
UniRef90_B3QWW7
UniRef90_E0V126
UniRef90_F4QAI9
UniRef90_D3PL90
UniRef90_C7N1E6
UniRef90_E4UX67
UniRef90_U5EWG7
UniRef90_E6W4G0
UniRef90_S6CFG0
UniRef90_J9I1P7
UniRef90_C0C3E5
UniRef90_A0A024UTC4
UniRef90_UPI000300D0C2
UniRef90_UPI0003B6D74B
UniRef90_UPI00035E06CF
UniRef90_G1XIE9
UniRef90_UPI0002F4EBDA
UniRef90_K9YV12
UniRef90_K6GA40
UniRef90_C5CFK2
UniRef90_K9HQ0
UniRef90_A1W4W1
UniRef90_UPI0003F5F98A
UniRef90_E3S4Y1
UniRef90_T0CQU7
UniRef90_UPI000307BEAE
UniRef90_G4D3J4
UniRef90_Q13VF9
UniRef90_UPI000255A879
UniRef90_B9L040
UniRef90_UPI00047068C4
UniRef90_F3KYD4
UniRef90_E6ZW59
UniRef90_M8E780
UniRef90_B2V7D0
UniRef90_B0WB77
UniRef90_A0A011NT90
UniRef90_E8SEV2
UniRef90_Q8YYP6
UniRef90_UPI00036FE983
UniRef90_H6RMP9
UniRef90_W3Y378
UniRef90_I0JPR1
UniRef90_UPI00036399E2
UniRef90_O34457
UniRef90_G9PWZ2
UniRef90_Q4P115
UniRef90_I8TP50
UniRef90_A6E7T0
UniRef90_G2FFZ0
UniRef90_C0NPH6
UniRef90_W4BR84
UniRef90_M3TVW8
UniRef90_Q9K814
UniRef90_B8DRK1

1 10 20 30 40

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

UniRef90_K1QYH1
UniRef90_A0A023BXQ0
UniRef90_D2A001
UniRef90_I7BTN5
UniRef90_S7VGX6
UniRef90_A0A023DCY3
UniRef90_C8KZN0
UniRef90_T1JB58
UniRef90_D2Z8P7
UniRef90_X8JWA9
UniRef90_UPI00036F548B
UniRef90_Q5P7P9
UniRef90_W5JCU1
UniRef90_F9MUJ6
UniRef90_I3C8V9
UniRef90_G1QI49
UniRef90_B3EHH0
UniRef90_UPI00046221C4
UniRef90_J9JRK6
UniRef90_Y0KJD2
UniRef90_A4TQG3
UniRef90_UPI00038046F2
UniRef90_B8HK73
UniRef90_I0XTH0
UniRef90_UPI00039E54AF
UniRef90_N1WD73
UniRef90_G2YM15
UniRef90_UPI000465CF5F
UniRef90_G8NSJ3
UniRef90_C6BYR9
UniRef90_UPI000469D205
UniRef90_C8WZL0
UniRef90_H8ISP2
UniRef90_E9GEV6
UniRef90_D3BJV5
UniRef90_UPI0003818458
UniRef90_S2JRG0
UniRef90_B3QWW7
UniRef90_E0V126
UniRef90_F4QAI9
UniRef90_D3PL90
UniRef90_C7N1E6
UniRef90_E4UX67
UniRef90_U5EWG7
UniRef90_E6W4G0
UniRef90_S6CFG0
UniRef90_J9I1P7
UniRef90_C0C3E5
UniRef90_A0A024UTC4
UniRef90_UPI000300D0C2
UniRef90_UPI0003B6D74B
UniRef90_UPI00035E06CF
UniRef90_G1XIE9
UniRef90_UPI0002F4EBDA
UniRef90_K9YV12
UniRef90_K6GA40
UniRef90_C5CFK2
UniRef90_K9HQR0
UniRef90_A1W4W1
UniRef90_UPI0003F5F98A
UniRef90_E3S4Y1
UniRef90_T0CQU7
UniRef90_UPI000307BEAE
UniRef90_G4D3J4
UniRef90_Q13VF9
UniRef90_UPI000255A879
UniRef90_B9L040
UniRef90_UPI00047068C4
UniRef90_F3KYD4
UniRef90_E6ZW59
UniRef90_M8E780
UniRef90_B2V7D0
UniRef90_B0WB77
UniRef90_A0A011NT90
UniRef90_E8SEV2
UniRef90_Q8YYP6
UniRef90_UPI00036FE983
UniRef90_H6RMP9
UniRef90_W3Y378
UniRef90_I0JPR1
UniRef90_UPI00036399E2
UniRef90_O34457
UniRef90_G9PWZ2
UniRef90_Q4P115
UniRef90_I8TP50
UniRef90_A6E7T0
UniRef90_G2FFZ0
UniRef90_C0NPH6
UniRef90_W4BR84
UniRef90_M3TVW8
UniRef90_Q9K814
UniRef90_B8DRK1

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

UniRef90_K1QYH1
UniRef90_A0A023BXQ0
UniRef90_D2A001
UniRef90_I7BTN5
UniRef90_S7VGX6
UniRef90_A0A023DCY3
UniRef90_C8KZNO
UniRef90_T1JB58
UniRef90_D2Z8P7
UniRef90_X8JWA9
UniRef90_UPI00036F548B
UniRef90_Q5P7P9
UniRef90_W5JCU1
UniRef90_F9MUJ6
UniRef90_I3C8V9
UniRef90_G1QI49
UniRef90_B3EHH0
UniRef90_UPI00046221C4
UniRef90_J9JKR6
UniRef90_Y0KJD2
UniRef90_A4TQG3
UniRef90_UPI00038046F2
UniRef90_B8HK73
UniRef90_I0XTH0
UniRef90_UPI00039E54AF
UniRef90_N1WD73
UniRef90_G2YM15
UniRef90_UPI000465CF5F
UniRef90_G8NSJ3
UniRef90_C6BYR9
UniRef90_UPI000469D205
UniRef90_C8WZL0
UniRef90_H8ISP2
UniRef90_E9GEV6
UniRef90_D3BJV5
UniRef90_UPI0003818458
UniRef90_S2JRG0
UniRef90_B3QWW7
UniRef90_E0V126
UniRef90_F4QAI9
UniRef90_D3PL90
UniRef90_C7N1E6
UniRef90_E4UX67
UniRef90_U5EWG7
UniRef90_E6W4G0
UniRef90_S6CFG0
UniRef90_J911P7
UniRef90_C0C3E5
UniRef90_A0A024UTC4
UniRef90_UPI000300D0C2
UniRef90_UPI0003B6D74B
UniRef90_UPI00035E06CF
UniRef90_G1XIE9
UniRef90_UPI0002F4EBDA
UniRef90_K9YV12
UniRef90_K6GA40
UniRef90_C5CFK2
UniRef90_K9HQR0
UniRef90_A1W4W1
UniRef90_UPI0003F5F98A
UniRef90_E3S4Y1
UniRef90_T0CQU7
UniRef90_UPI000307BEAE
UniRef90_G4D3J4
UniRef90_Q13VF9
UniRef90_UPI000255A879
UniRef90_B9L040
UniRef90_UPI00047068C4
UniRef90_F3KYD4
UniRef90_E6ZW59
UniRef90_M8E780
UniRef90_B2V7D0
UniRef90_B0WB77
UniRef90_A0A011NT90
UniRef90_E8SEV2
UniRef90_Q8YYP6
UniRef90_UPI00036FE983
UniRef90_H6RMP9
UniRef90_W3Y378
UniRef90_I0JPR1
UniRef90_UPI00036399E2
UniRef90_O34457
UniRef90_G9PWZ2
UniRef90_Q4P115
UniRef90_I8TP50
UniRef90_A6E7T0
UniRef90_G2FFZ0
UniRef90_C0NPH6
UniRef90_W4BR84
UniRef90_M3TVW8
UniRef90_Q9K814
UniRef90_B8DRK1

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

	130	140	150	160	
UniRef90_K1QYH1	R L V C G L R G R T L L I I N L P G S S V K A S E E C L R F V C P G I P H A I D L L				
UniRef90_A0A023BXQ0	R S V A G T I K N T L L V L A L P G S S T N G A S E R E S M D A F I F P E L V L H H V F R L L				
UniRef90_D2A001	H E G A K K L L V F G L P G G S P K S A S V T T C L L H F L F L P P L L R H H L D L L				
UniRef90_I7BTN5	R G V S V Q R G R T L L V I V N M P G G S P K A V R E T L H L H F L L P L L P H H A L D L I				
UniRef90_S7VGX6	R A I A G T I G Q S L V V N M P G G S P K A V R E T L G A I L L P A L P H H A L D K L				
UniRef90_A0A023DCY3	R A I A G V I R N D T A I F E S T P G G S P G A V R L A V T L I F A P E L G H V V Q R E L L				
UniRef90_C8KZNO	R Q V G A G I R N G E T L I F E S T P G G S P K A I K E T L E L G I F A A V P Y C L L				
UniRef90_T1JB58	A T V T V S N K K S L I L F C L P G G S P V S A T V T F H F V L P A L Y H M T G H V				
UniRef90_D2Z8P7	R G L A N G T R G G S L L I L A M P G G S V R G A I Q C F Q A V E S V I G H G L E T L				
UniRef90_X8JWA9	V P T P N G G R K L V F G L P G G N P A S A L V T F L F V L P A L R R L				
UniRef90_UPI00036F548B	R G R A G V A G R T L L I V N L P G G S S G G V K D G L A V L A P L L T H A V D Q L				
UniRef90_Q5P7P9	R Q V A G I R G R T L L I V N L P G G S P K S I R E T L E S I F A A I P Y C L D L L				
UniRef90_W5JCU1	R A V C A G I R D R T L L I V N L P G G S K K A V R E E C Y E S I V D V L P H V L N L L				
UniRef90_F9MUJ6	R A V A G V R N Q T L L I N L P G G S T K A V E E E C L T A I L Q A L F H G L E I I				
UniRef90_I3C8V9	R S V A G T I R K Q A L I F E S T P G G S T N G A R E E S M D A I F P H V L H H V F K I L				
UniRef90_G1QI49	R P V C G I R G K T L L I N L P G G S P P L L Q E E C F Q F I L P A L P H H A I D L L				
UniRef90_B3EHH0	R L A A G M I G N S L L I C L P G G S P G A A A D A L E V L V P A I F H A F A M L				
UniRef90_UPI00046221C4	R P V A G T I R R T L L V N T L P G G S V K A V Q E E C L C A A L L G S V V P H H A E L L V				
UniRef90_J9JK6	R A V S G I R K T L L I N L P G G S S K A S K E C L C A A L L G S V V P H H A V S L I				
UniRef90_Y0KJD2	R Q V A G I R K Q S L L I N L P G G S P K A T Q E T L E G I F A A V P Y C L D L L				
UniRef90_A4TQG3	R Q V G V I R K Q A L I F E S T P G G S T G A V R L A M N L I V P E L G H V V R E L				
UniRef90_UPI00038046F2	R A I A G T R K G K M I F S T P G G S T G A V R L A M N L I V P E L L H L R G Q L				
UniRef90_B8HK73	R A T A G V M G D K L V F S L P G G S S N A V K L A A E L I L P E L L H L R G Q L				
UniRef90_I0XTH0	R S I A G R I G K T L L V V S V P G G S S T N G A T E S L Q A I L P A V F H A K K M M				
UniRef90_UPI00039E54AF	R E L A G I R G K T V I N L P G G S S T N G A Q E S M E A L F P G L L H A F P M L				
UniRef90_N1WD73	R S I A G R I G K S L I V S V P G G S S N G A R E E S M T A I L P A I F H A K K M M				
UniRef90_G2YM15	R P V A G V R N K T L L I N L P G G S P K G A K E S M L Q S I L K L L P H A C F Q				
UniRef90_UPI000465CF5F	R G V S V I R G K T L L I N L P G G S P K A V K E S M D C I V D Q L P H H G L N V Q				
UniRef90_G8NSJ3	R G V C G V A R K A L I L N L P G G S P S G A E S S L R A V L P V L P H A L D L L				
UniRef90_C6BYR9	R A V A G T L G E S V V V N F P G G S P K A V E E S M D A V L P A L K H T V D K L				
UniRef90_UPI000469D205	R G V A G F L A N G K M L V T F P G G S K N G A E E S M D A L F P Q V L H L F K V V				
UniRef90_C8WZL0	R A V A G V A G Q T L I C N L P G G S P K G V R E N L E S I L P A L Q H T L D K I				
UniRef90_H8ISP2	R S V C G V A G R T L I V N L P G G S P G G V R D G L G V L A D V L D H H A D D Q L				
UniRef90_E9GEV6	R P V C G I R K Q S L I N L P G G S P K A V K E C F H I V S P L P H H A V D L I				
UniRef90_D3BJV5	R P V A G I T D M S L I F T L P G G S V K A V R E N F I T I M P A L P H A L A L I				
UniRef90_UPI0003818458	R A M A G L A N G T Y L F A L P G G S T G A C R D A W D G I L				
UniRef90_S2JRG0	I P Q G P K R P K L V F A L P G G N P V S A T V A F H F V L P A L R R				
UniRef90_B3QWW7	R L T A G V I K N S L I V V C L P G G S T G A A K D A L A V L P T V F H A F H M M				
UniRef90_E0VI26	R G I S G I R G K S L I V N L P G G S K K A S E E C L T S I C S V I S H A V D L I				
UniRef90_F4QAI9	R P V A G M I D S T L V N T F P G G S A K A V R E N F T A I L P A L P H				
UniRef90_D3PL90	R G V A G V R G K T L I N L P G G S P Q G S K D S L E V I L P A I P E A V Q R I				
UniRef90_C7N1E6	R A I A A Q R G R T L I N L P G G S E K A A R E N W A G I E G A L A H A V S M M				
UniRef90_E4UX67	R P V A G V R H K S L I I T V P G G S P K G A K E C V E A V I K L L P H A C A Q				
UniRef90_U5EWG7	R A T C G V R N N T L I I N F P G G S K K A V E E E C F Q S I S D V I P H I L Q L L				
UniRef90_E6W4G0	R A V V G L C K A S L I N L P G G S E K G A R E N L A A I E P A L F H A I K K L				
UniRef90_S6CFG0	R A I C A Q R G H T L I N L P G G S T K A A T E N W E G I V E A L P H A V K K M M				
UniRef90_J9I1P7	R A V I G T R G K T M I N L P G G K P K A V K E N F E I L M R V L V H A L G Q L				
UniRef90_C0C3E5	R S A A G I R G D V L V N L P G G K P N A K A V K Q C L D Y L L P E I T H A V E V I				
UniRef90_UPI00042UTC4	R P V A G M R G H T L V L T L P G G K P N A V V E T L T A L P V L P H A L H L L				
UniRef90_A0A0240C2	R A I A G T Y R G R A I F S T P G G S S G A V K L A M E L I V P E L G H V V R E L				
UniRef90_UPI0003B6D74B	R M V A G A R N R K L I N L P G G S P K A V K E D L E F I D V I P H A V D K L				
UniRef90_UPI00035E06CF	R G I A G V V G R T L V N L P G G S T G G A R D G L A V L G P I L A H A V D Q I				
UniRef90_G1XIE9	R P V A G V R G D T V I V N L P G G S P K G A K E N L E S I T K L L P H A C I Q				
UniRef90_UPI0002F4EBDA	R G V A G V A G R T L V N L P G G S T G G V K D G M A V L A R L L V H A V D Q M				
UniRef90_K9YV12	R A I A G V Y S N Q L I F S T P G G S T K A V Q L G L E L I L P E L V H L V K Q L				
UniRef90_K6GA40	R A V A G T V G R A I V I N V P G G S P K A V R E T L A A V M A A I P H G L D K L				
UniRef90_C5CFK2	R A V V G I R N E T L I F A L P G G S P K A V K E N L A N I T N A I P H A I E K L				
UniRef90_K9HQR0	R A T A G V A R G T Y L F A L P G G S T G A C K D A W D G I L				
UniRef90_A1W4W1	R Q V A V I R G Q S L I N L P G G Q P K A T A E T L E G I F A A V P Y C I D L I				
UniRef90_UPI0003F5F98A	R A T S G V R N N R I L I F E S T P G G S R G A V K L A M E L I L P E L P H A V R E I				
UniRef90_E3S4Y1	R P V A G L R K Q T L I L T L P G G S P K G A K E N L E A V L K L L P H A C I Q				
UniRef90_T0CQU7	R G I S G I R N N T V I N L P G G S P K G A I E S I E F V I D I I G H G I E I L				
UniRef90_UPI000307BEAE	R G T A G V A G G T L V N L P G G S S G G V R D N G L A V L A R L L V H A V E Q M				
UniRef90_G4D3J4	R Q V C G T I G S C L I V N L P G G S P K A K E N I S F L S P L K H A I K M L				
UniRef90_Q13VF9	R Q V A V I R H A A L I I N L P G G Q T K S I R E T L E G I F A A V P Y C I D L I				
UniRef90_UPI000255A879	R A L G G L A N G T L I F C L P G G S T G A C R T G W D R I T K E				
UniRef90_B9L040	R A L A G V Y R G R I V I A M P G G S T G A V R L A M E L V L P E L A H H L V F E A				
UniRef90_UPI00047068C4	R Q T A V I R K Q S L I L N L P G G Q T K S I K E T L E G L K D E S G H V				
UniRef90_F3KYD4	R A L G G M A N R T V I F C M P G G S T G A C R T A W E G I L K E				
UniRef90_E6ZW59	R G V T G I R G E A L I V A L P G G S P K A V E E C V E V L L A L L R H A L E L L				
UniRef90_M8E780	R A V A G T R G N S L I I N L P G G N T K G V E I C F N A I G D M L L S D A L H I L L				
UniRef90_B2V7D0	R A V C G I A G H T L I N L P G G S T G G V K D N L R M L A P A L K H A I R M A				
UniRef90_B0WB77	P F T F A S K D I T R F F G L P G G N P V S A F V T F H F A L A R K Y L A T L				
UniRef90_UPI0001NT90	R Q V A V I R R Q A L T V N L P G G Q T K A T R E T L E G I F A A I P Y C I D L I				
UniRef90_E8SEV2	R A V A G T A K R T L I F C L P G G S T G A V K L A L M L I L P E L T H H V Y E M				
UniRef90_Q8YYP6	R A V A G V Y K N Q L I F S L P G G S S N A V R L G M L I L P E L T H H L V S Q V				
UniRef90_UPI00036FE983	R A V A G T L G G A L V N M P G G S P K A V R E C L I E P L L P L L A H T L E K L				
UniRef90_H6RMP9	R G L A G T A G R T L I V N L P G G S T G G V K D G L A V L G P L P H H V S Q L				
UniRef90_W3Y378	R A E A G V N N H T L I F S V P G G S V G A V T L A M K L I I P E M A H H V S R E I				
UniRef90_I0JPR1	R A T A G V S E K T A I F S M P G G S S G A V K L A M D L I L P E I S H H V R E I				
UniRef90_UPI00036399E2	R G H A G V S G A T F V N L P G G S T G G V W D G L K V L E P L D H H V D Q L				
UniRef90_O34457	R A T A G V I Q H T A V F S T P G G S S G A V K L A M N L I I P E L A H H V R E L				
UniRef90_G9PWZ2	R S V A V V K D R S L V I A F P G G S K R G A G Q C F E A I T G G L R H A V E T L				
UniRef90_Q4P115	R G I T G I R K E A L I C L P G G S P K A V K E C L Q L V L G L L K H A L E L L				
UniRef90_I8TP50	R P V A G V R N K T L I I T L P G G S P K G A K E N L D A V L F K L L P H A C T Q				
UniRef90_A6E7T0	R G I A G F I G E T L I L T L P G G S K K G V E E S L D A L F P Q V L H H L F K				
UniRef90_G2FFZ0	R V I S G L A N G T L I F C L P G G S T G A C R T G W D K I L K E L D H H A L				
UniRef90_C0NPH6	R P V A G L R G K S L I T L P G G S P K G A E N L Q A V L K L L P H H A C I Q				
UniRef90_W4BR84	R A I A G T I G N T A V F S M P G G S T G A V K L A M E L I I P E L R H H V M R E I				
UniRef90_M3TVW8	R G V A G V A G A T L I V N L P G G S T G G V R D G L G V L A G V V H H A L E Q I				
UniRef90_Q9K814	R A I A G V R D G K A I F S M P G G S T G A V K L A M R L I I P E L G H H V M R E I				
UniRef90_B8DRK1	R A V A G T L G G A V I V N L P G G S R K A V E N L A A V L P A L A H A L D K L				

UniRef90_K1QYH1	K
UniRef90_A0A023BXQ0	K
UniRef90_D2A001	
UniRef90_I7BTN5	
UniRef90_S7VGX6	
UniRef90_A0A023DCY3	R
UniRef90_C8KZN0	S
UniRef90_T1JB58	K
UniRef90_D2Z8P7	R
UniRef90_X8JWA9	
UniRef90_UPI00036F548B	R
UniRef90_Q5P7P9	
UniRef90_W5JCU1	S
UniRef90_F9MUJ6	N
UniRef90_I3C8V9	R
UniRef90_G1QI49	R
UniRef90_B3EHH0	K
UniRef90_UPI00046221C4	R
UniRef90_J9JRK6	K
UniRef90_Y0KJD2	
UniRef90_A4TQG3	
UniRef90_UPI00038046F2	N
UniRef90_B8HK73	R
UniRef90_I0XTH0	R
UniRef90_UPI00039E54AF	
UniRef90_N1WD73	R
UniRef90_G2YM15	
UniRef90_UPI000465CF5F	
UniRef90_G8NSJ3	
UniRef90_C6BYR9	Q
UniRef90_UPI000469D205	K
UniRef90_C8WZL0	H
UniRef90_H8ISP2	
UniRef90_E9GEV6	
UniRef90_D3BJV5	
UniRef90_UPI0003818458	
UniRef90_S2JRG0	
UniRef90_B3QWW7	Q
UniRef90_E0VI26	
UniRef90_F4QAI9	
UniRef90_D3PL90	
UniRef90_C7N1E6	
UniRef90_E4UX67	
UniRef90_U5EWG7	
UniRef90_E6W4G0	H
UniRef90_S6CFG0	
UniRef90_J9I1P7	K
UniRef90_C0C3E5	K
UniRef90_A0A024UTC4	Q
UniRef90_UPI000300D0C2	K
UniRef90_UPI0003B6D74B	K
UniRef90_UPI00035E06CF	R
UniRef90_G1XIE9	
UniRef90_UPI0002F4EBDA	H
UniRef90_K9YV12	
UniRef90_K6GA40	R
UniRef90_C5CFK2	K
UniRef90_K9HQR0	
UniRef90_A1W4W1	
UniRef90_UPI0003F5F98A	
UniRef90_E3S4Y1	
UniRef90_T0CQU7	K
UniRef90_UPI000307BEAE	H
UniRef90_G4D3J4	N
UniRef90_Q13VF9	
UniRef90_UPI000255A879	
UniRef90_B9L040	R
UniRef90_UPI00047068C4	
UniRef90_F3KYD4	
UniRef90_E6ZW59	R
UniRef90_M8E780	Q
UniRef90_B2V7D0	K
UniRef90_B0WB77	N
UniRef90_A0A011NT90	
UniRef90_E8SEV2	N
UniRef90_Q8YYP6	R
UniRef90_UPI00036FE983	H
UniRef90_H6RMP9	R
UniRef90_W3Y378	
UniRef90_I0JPR1	N
UniRef90_UPI00036399E2	E
UniRef90_O34457	R
UniRef90_G9PWZ2	
UniRef90_Q4P115	
UniRef90_I8TP50	
UniRef90_A6E7T0	
UniRef90_G2FFZ0	
UniRef90_C0NPH6	
UniRef90_W4BR84	
UniRef90_M3TVW8	R
UniRef90_Q9K8I4	
UniRef90_B8DRK1	Q

1 10 20 30 40

UniRef90_C8PX71 L N T A I L T V S D T R S L E E D T S G K Y L A D S L V E S
UniRef90_E2N4Z2 L T A A V I V C D S D T R T P E T K K E D K A G K A I I T H L E R Y
UniRef90_UPI000403CF7F R V S A C A V I T V S D S D T R T P E T K K E D K A G Q L I H Q F L L Q N A
UniRef90_N8TE71 V S A A V I V L S D S V A S G E T K P D T A G R S V V E T L L T E A G F D P
UniRef90_UPI0003FFF3E0 V S C H V V T V S D T R Y K E E E D S D K S G R F I Q E S L L A A A
UniRef90_R5D2H5 K V A I L T A N T Q V Y K E E E D S D K S G R K V L R K I V E E A
UniRef90_R9TZE2 R V N C K V I T V S D T R T E D T D K S G R L M K E F L A E D
UniRef90_UPI00017468B1 I S V G I I T V S D R A S A G V Y E D F G G P A V R K A S E G Y
UniRef90_UPI0003781F3B R R T A R V I T V S D T R A A A G V Y E D R T G P L I V A W L A E E R
UniRef90_G4LZ84 P R L S V G V L T V S D T C S K D V L L D Q S G P V A E S L L Q E A
UniRef90_F6FQP3 Y R V A V V V A S D R A A A G V Y E D R S G P A A A A W F A E R
UniRef90_U1GA89 L R P A I L T V S E T A F K D P A T D K A G N I L R E T L K A E G S D K
UniRef90_UPI00046485CD V R C G V V T V S D T R S P E T D K S G Q L Q D L L T A A
UniRef90_UPI0004755ACA R A V V V T V S N R A A A G I Y S D R A G P I L V E G L R G L G F E V D
UniRef90_K2QUW8 Q L K A A I L T V S E T A A K D P S T D K C G D T L K D V F Q R E G A G Q W
UniRef90_K9ST61 R V N C A V I T V S D T R S F D N D K S G N F I K Q S L S N A
UniRef90_N1V4Z8 T A G V V I A S N R A A A G T Y P D R T G P V I S Q W L R D Q G F D P L
UniRef90_D6E8V0 L T F A I V T C S D T R S M K E D T A G A A L E A L I A E K G W T C A
UniRef90_X1AT59
UniRef90_H5WZ18 K R T A R V I V A S N R A A A N G V Y A D Q T G P I I T R W L A E R
UniRef90_T1CCC3 I R V G A V I T L S D R A H A G V Y A D H S G P E A V R A L T A L
UniRef90_W7QXN6 E L N I A V L T I S D R A T S G V Y E D K G I P S L E A W L Q K A L A
UniRef90_UPI0003717FA8 I V I G L V S I S D R A T S G V Y E D K G I P S L E A W L Q K A L A
UniRef90_A6FMM3 V R L A V L T V S D R S R D I S E D R S G E V L V N R I E E A
UniRef90_U5WFI4 I R A R V I V A S N R A A A G V Y A D T S G P L L V A G L R E I G C E V D
UniRef90_UPI000304D9AE I G L V S I S D R A S S G T Y E D Q G I P A L R D W F S A A L A
UniRef90_Q0FVR3 V R I A V L T I S D S R S L A E A D R S G D T L V Q R L T E A
UniRef90_V4JD80 I A I L T I S D S R T E A D D K S G A L L R D K A E A A
UniRef90_F9UFI7 I A V L T I S D S R T E D N D T S G R L L V Q R A E A A
UniRef90_I0RFX1 E R S A R V I T A S T R A S A G V Y D D R C G P L I A E W L E R Q G F S D
UniRef90_A9WDP0 I C A V I T I S D S R S E A T D D S G R Y I C T A L T Q A
UniRef90_K4KP09 L N T A I L T V S D T R S L D T D T S G Q A L V D A L T H A
UniRef90_H2BW34 L T A E V V V C D T I S K G I G E D K A G K T I V S K L K A L G I S S N
UniRef90_E6QKA8 F A V V T I S D R C F A S T Q V D T A G Q A V A R M V E V Q W
UniRef90_E1V189 V N V A V M T V S D T R T E E T D T S G Q W L E D A V L E E
UniRef90_UPI00034B6E1E V N L A V L T I S D T R T L E T D K S G Q V F V D L I S E T
UniRef90_UPI000346D439 R A A V I V A S T S A A A G Q N P D L T G P E I V A W L R S R G F A V P
UniRef90_A7HR03 L N T A V L T V S D S R T P E T D K S G D V L A E R I A A A
UniRef90_L0J5V3 R S A R V V I A S T R A A A G V Y E D R T G P I I V D W L N G Q G I T T P
UniRef90_A0R447 G V T R S A R V V I A S T R A A A G V Y E D R T G P L I V E W L A K R
UniRef90_UPI0003785A54 I S C K A V I T V S D T R T D E T D K S G Q T L M R L L K E N
UniRef90_UPI0003F4BF7A C A V I T V S D T R D E T T D R S G Q L M R S Q L I N S
UniRef90_B4WSH0 G L V S I S D R A S R G V Y D D E G I P N L E A W C R K A I T
UniRef90_H3KCS4 P G Y R A L G V T A S N R A A A G V Y A D R G G P L I V A A L C E L G F T V D
UniRef90_F8JX79 K P R V G V M S T G D E V T D I T D K S G P L I R D L L T L L R G W R L
UniRef90_H6BN09 A R I I T A S T R A A D G T Y E D R T G P R L E R W L C G R G L A P
UniRef90_UPI00026C6C42 D I K C A L L T V S D T R D Y E T D K S G Q L A Q S L L S E L N V S I A
UniRef90_Q49ZJ3 V R I A A L T V S D T R T A A T D R S G D V L V Q R I T E A
UniRef90_I3ZM09 L N I A A L T V S D T R A L G D D K S G A T L V D R L T T A
UniRef90_Q13BU9 L R V G A V S I S D R A S R G D Y V D A G I P A I H D W L D S A L S
UniRef90_H8L410 L N I A V L T V S D T R D L A T D R S G A L L I E R L E G A
UniRef90_F1Z791 L N I A L L T V S D T R T F E T D S S G D T L Q Q C L Q D S
UniRef90_UPI000379464B V N A A V I T A S T R A S A G V Y E D R S G P V I V D W L N E R G I A T S
UniRef90_I4BPC6 V N A A V I T V S T S R S L E E Q D K S G H W I A E Q L R E Q
UniRef90_B8FAF8 R K T A V L T V S D T R T L D T D D S G R T L V D A L Q D A
UniRef90_R11Q50 P G L R V G I V S D S R T L A T D D K S G D A L E G A V L S Y
UniRef90_A0A024HB95 L R R I A V L T I S D S R T L A T D D K S G D A L E G A V L S Y
UniRef90_A0L7R1 G L R V G I V S D T R T K E T D Q S G A L I I D L L K R E Q M
UniRef90_M5JHT9 F N L V G I V I V S D S C Y K D R S L D K V I P C L E K F F K D H T
UniRef90_W6MXP0 F K L G I L T I S D S K G W Q G Q R Y D K S G K V I K D S P F V L
UniRef90_X1MM16 V R C D V I T V S D S R T L E T D K S G K L M L S L L E E E G L K
UniRef90_UPI00036FAC48 L K T A I L T V S D T R T P E N D T S G D A L V S G L T E A
UniRef90_UPI0003784404 L K I A I L T V S D T R V Q A D D R S G Q T L R D L A E G A
UniRef90_R4V352 V N C G I L T I S D T R T P E T D T G G A I I R A G L E G A
UniRef90_A7NNY8 L K V A I L T V S T T A S K D P S T D K S E L V L K D V I E Q E G G G K
UniRef90_T0LZC3 L N I S V L T V S D T R T E E T D T S G K T L I K G L T D A
UniRef90_C7RBX0 L R L C V L T V S D S R T A D N D T S G D F L V D A L T D A
UniRef90_UPI0003B6E159 A R V V I A S T R A A G V Y E D R T G P I V V A W L A E R G F D V P
UniRef90_Z5X3D0 L N V A V L T V S D R H S V D S D S S G S Y L H E A L T E A
UniRef90_B2VBW6 V K G A V I T V S D R C S S G E R E D H S G P L A R K M L S E Y
UniRef90_UPI0004214519 L N T A V L T V S D T R T F E N D T S G Q Y L V D A L Q E E
UniRef90_UPI000463F496 L N I A V L T V S D T R S E D N D T S G Q Y L N Q A A I V D
UniRef90_K7AU51 A T V I T C S D R A F R D V Y E D R S G P V L R D G L A T V
UniRef90_F9NVA6 P V P R V A V V T A S N R A A A G V Y P D R S G P V V A E G L R G
UniRef90_D7B7T5 L N I A V L T I S D T R T F D T D T S G Q T L V D R L Q G A
UniRef90_E2XTU8 P T L R A R V I V A S T R A A T G Q Y T D R T G P I I V E W L G A Q
UniRef90_I6YEN6 K I C A I V L T V S D T R T P E T D T G G A L V K T L A E A N
UniRef90_W3AANO E L I V G F V S I S D R A S A G T Y Q D E G I P A L R D W F G A A L S
UniRef90_B2U8M0 G A G R R A V V L V S T S A A A G T A E D S A G P V L V G W L Q E R
UniRef90_UPI0002F30C27 G P R V R A V V T I S D T R T P E T D T S G Q Y L R A Q L L A A
UniRef90_H8GRT2 L N T A V L T I S D T R T K G S K G E R E D L S G K E I E K L M D S I N A E K A
UniRef90_H2J480 L N V A V L T V S D S R T L E Q D T S G Q Y L V D S L Q E A
UniRef90_A5WBY6 L N I C V L T V S D T R T L A T D T S G Q Q L Q D L L E A A
UniRef90_B3PHC3 L N I C V I V I A S T R A A T S I I Q D R S G P L A V E F L R E Q G F D T P
UniRef90_UPI00035F46F9 L S V A I M T V S D S R D A S Q D S S G D Y L A E A I R E A
UniRef90_UPI00047172C9 V N L A V L T V S D T R T E E N D T S G H L V D S L T A A
UniRef90_UPI00036F94A9 P R A A V V T A S N R A S A G V Y A D R G G P L I V G W L R E R
UniRef90_C6WHY3 L S T A L L T V S D S R G E G E D S S G K F L E N S I I E A
UniRef90_W5YNE3 L S I A L L T V S D T R T L A E D R S G D A L Q Q R L E A A
UniRef90_UPI00020017D7 V H C A I V T I S D T R T P E T D R S G Q L I Q G L T I Q N
UniRef90_K9TEJ4 L N T A V L T V S D T R G F D R D G S G D L L C A R L I E A
UniRef90_UPI00036E9431

UniRef90_C8PX71 G H T L A E R A I I R T D D I Y Q I R A L V S Q W L A D P A I H A I I T T G G T G
UniRef90_E2N4Z2 A I P A T Y T I I A D E I A D I Q S I V S K K A V D A G T S L V L I T T G G T G
UniRef90_UPI000403CF7F G Y P L I D Y Q I I K D E P Q E I T E L L K K L C Q I S E L D A C I F N G G T G
UniRef90_N8TE71 G F Q T V L Y N L V P D E R G A I T A E V K K G L E H P D V D V I L L T N G G T G
UniRef90_UPI0003FFF3E0 G G Q H V I F A K A L V P V D K K V L S T V M Q R M A D G N M A D L I L T T G G T G
UniRef90_R5D2H5 G H E I V S Y E I V K D E K E M I Q K A V L E G C L D R R I D A I L T N G G T G
UniRef90_R9TZE2 G W T V L A E A V V P D D Q G A I Q Q A I R S F S A Q G C G L V L T T G G T G
UniRef90_UPI00017468B1 G F D V P A P V V V T D G A P V I G A E L R R A I A D G V D V V L T S G G T G
UniRef90_UPI0003781F3B G F D V P A L K D C V P D N P H I I R C V I M K W V A S R Q V V E A V L T S G G T G
UniRef90_G4LZ84 G W S V D A V R V V P D G E P V R A A L G G G P G G D R A P D L I V T S G G T G
UniRef90_F6FQP3 G W T E P W L E I V P D D A T R I Q N A V R K W T D H N N A N M I T T S G G T G
UniRef90_U1GA89 G H E V G D Y E I V K D N P E A I A K R L E I L A H T L E A L I F S G G T G
UniRef90_UPI00046485CD G P V V V P D G E P V V K E L R E A I S V A Y D V V L T T S G G T G
UniRef90_K2QUW8 H V Q T V E I V P D N V L A I Q R F I Q R W S D S E D A N L I V T T S G G T G
UniRef90_UPI0003781F3B G H I I S S Y V I V K D E P E Q I R E Y V Q K L A A D P E L D A I I L N G G T G
UniRef90_K9ST61 P V R V V P D G E P V K A A L A D L L A E R P G V I I T S G G T G
UniRef90_N1V4Z8 S H V V V P D G E P V K A A L A D L L A E R P G V I I T S G G T G
UniRef90_D6E8V0 Y K L I D Y K I V V K D E R A D I A A A I V A A C D E L D A D I V L T C G G S G
UniRef90_X1AT59 S Y E V P E P V V V P D D G E P V A Q A L R E S L S D E V D V I T T T G G T G
UniRef90_H5WZ18 G A E L V N A E V L P D D L A S L A E A L T R L A A S A N G I D L V L C C G G T G
UniRef90_T1CCC3 G K V V E R T I V K D D I Y Q I R A V L S A W I A S A N V Q A V L T T G G T G
UniRef90_W7QXN6 S P W R T E K R L V P D E I V D T I S K T L V I E L V D D I G C D L V L T T G G T G
UniRef90_UPI0003717FA8 G H V L A P R M I V R D E R D Q I A D Q L R E W I A S D G V D V V I T S G G T G
UniRef90_A6FMM3 G H V L A P E P V V V P D G E P V A E L R T A L A E G I A V I V T S G G T G
UniRef90_U5WFI4 S P W Q M E T R L I P D E R S L I E K T L I E L V D D L G C D L V L T T G G T G
UniRef90_UPI000304D9AE G H D L A A R A I C T D D R D K I L A A Q L R A W V A D G E I T R D V I L S T G G T G
UniRef90_Q0FVR3 G H R V V A K Q I V A D D I Y Q M R A I F S H R W I A D P E I Q V V L S T G G T G
UniRef90_V4JD80 G H R I M A K R I V P D D I Y R M R A A F S E W I A D P E I Q V V L S T G G T G
UniRef90_F9UF17 G H R I M A K R I V P D D I Y R M R A A F S E W I A D P E I Q V V L S T G G T G
UniRef90_I0RFX1 G H N V V Q Y A V V R D E P A Q I V E M V R R F A A E G C K V I T N G G T G
UniRef90_A9WDP0 G H T L G A R E I V K D D I Y Q I R A A V S G W I A Q P D I Q A V L I T G G T G
UniRef90_K4KP09 I T I T I P D E A E E I R S V L K N A K T D L V L I T T G G T G
UniRef90_H2BW34 P D E T I G R G L V P D H E D A I G T L L H E L C H N Q Y R L I T V G G T G
UniRef90_E6QK48 G H V L V E R V L V R D D I Y Q I R A V L S D W I A D P E V E A V L I T G G T G
UniRef90_E1VI89 G H H L V D R A L V P D D C E A I V D R L K T W I S N P D I D V V I S T G G T G
UniRef90_UPI00034B6E1E D P R I V A D G C P V I G E A L R E E L T A G S R V I I T T G G T G
UniRef90_UPI000346D439 G H N L A A R S I V S D D V L I R R L L K Q W V A D S R T D V V I S T G G T G
UniRef90_A7HR03 A P V V V P D G A D V S R A L S A A G E N V D V V I S T G G T G
UniRef90_L0J5V3 G Y D V T E Q M V V P D G S A V A G A L R A A L S E N V D L I I T S G G T G
UniRef90_UPI0003785A54 G H H L E D K Q I V I D D V Y K I R A V V S S W I A D E K I E A I I T G G T G
UniRef90_UPI0003F4BF7A G H E T A S Y I V K D E A D S I R R S V L S G L E E A H I D A I L L N G G T G
UniRef90_B4WSH0 G H T I S Y Q I V K D E P K Q I A A L V I T L A N R L D V Q A I L N G G T G
UniRef90_H3KCS4 T P I K V H K R L I P D E R F D I E K T L R E L V D I I G C D L I L T T G G T G
UniRef90_F8JX79 G P R V V V P D G A P V G S A L R E A V A A G Y D V V V T T T G G T G
UniRef90_UPI00036C6C42 C E E V D L G I A R D T P A T E S E A K L R S A Y R L H D L D V V L T T G G T G
UniRef90_Q49ZJ3 S H Y R I V K D D Q D L I Q K Q L R E W L K E D I D V V I T T G G T G
UniRef90_I3ZM09 G H T L A Y R E L V R D D A D V I E V L L K R W I E D S S I D V V I S T G G T G
UniRef90_Q13BU9 G H R L A S R E I V P D D I E A I R A V V R R W I A D P G L D A I I T T G G T G
UniRef90_H8L410 S P W Q L E T R L I A D D R A A I E A A L T E L V D V A R C D L V I T T G G T G
UniRef90_F1Z791 G H S L A R A I V K D D V A D I R A Q V Q A W V A D P A V D I I V S T G G T G
UniRef90_UPI000379464B G H R L A D R Q L R P D D I Y E L R A V V S D W I T R E N V Q V V L V T G G T G
UniRef90_I4BPC6 A A V V V A D G E P V I G S A L R D A L V R E A D V V I T S G G T G
UniRef90_B8FAF8 G H K V I E H F V T P D L A P E I Q S A V K R L V Q S G E V S V L I N G G T G
UniRef90_R1IQ50 G H Q L A D K K I V I D D I Y K I R A V V S Q W I A D E N V Q A V L I T G G T G
UniRef90_A0A024HB95 G H V L A A R R L V S D D L Q A Q I R A A I S A W I A D P D I Q V I C L L T T G G T G
UniRef90_A0L7R1 G G R V V Q R T L V A D D Q A V L A A C L T W A D E Q G V D V I L T T G G T G
UniRef90_M5JHT9 N V V D Y E I V K D D R E A I Q A A I Q S A G A E V D V I L M N G G T G
UniRef90_W6MXP0 D Y S I A K A A I V P D S V D D I Q Y I V S K W S E E E D L R L I L T T G G T G
UniRef90_X1MM16 D N R V V K A Y E V V P D E V D I A S K L S Q W A D E G D V D I I T T G G T G
UniRef90_UPI00036FAC48 V L D R T I V P D E M E K I Q R S V Q Q S L E N E M V D V V L L N G G T G
UniRef90_UPI0003784404 G H A L A D H V I C K D D V Y Q L R A V V S K W I A D E A D V Q S I L V T G G T G
UniRef90_R4V352 G H H V E R E I V I D D R Y R I R E V V S R W I A D A A V Q V V L A T G G T G
UniRef90_A7NNY8 G H T V L R Y M V V K D E P A Q I V D I V R D F A A A G C Q V I I T S G G T G
UniRef90_T0LZC3 W V V T D S K I V P D L V P Q I Q R Q I M L W A D E D G A N L I L T T G G T G
UniRef90_C7RBX0 G H Q L A G K N I V K D D I Y Q I R A V V S Q W I A D E K V Q V I L T T G G T G
UniRef90_UPI0003B6E159 G H R L L D R A I L R D D K Y R L R A Q V S A W I A D E E C D G I L V T G G T G
UniRef90_Z5X3D0 D A S V V D G S A V G D A L R A A I D A G A D V V I T S G G T G
UniRef90_B2VBW6 G H Q V L D R A I V P D N R Y R I R A V V S S W I A S R D V Q V V L I N G G T G
UniRef90_UPI0004214519 G I D V G E V V I V P D G I E H V Q A A L I Q S A L I D A G A R V I I T V G G T G
UniRef90_UPI000463F496 G H T L A D R A L L K D D I Y Q I R A Q V S V W I A D A N D I H V V L I T T G G T G
UniRef90_K7AU51 G H N V I H K K I V D D K F Q I R A V V S N W I A A A N D I Q V I L V T G G T G
UniRef90_F9NVA6 G F K V D A P V I V P D D I E A I R A A V L K A V A A G A R V V L T T G G T G
UniRef90_D7B7T5 G C E V G P W V V P D G E P V A R A I G R A L D E R L D V V L T T G G T G
UniRef90_E2XTU8 G H V L V D R G L V I D D I Y Q I R A Q V S L W I A D P E V Q V V L M T G G T G
UniRef90_I6YEN6 G F R V D E P V V V P D G E A V G D A I R S A L G A S L V I T T G G T G
UniRef90_W3AANO G I E V A G Y R I V K D D V A A I K R A V A E W L E K A E L D A I S T G G T G
UniRef90_B2U8M0 S P W Q C V I E R L I P D E Q A A I A E T L I D L V D H A G C D L V L T T G G T G
UniRef90_UPI0002F30C27 G Y E V D G A Q I V P D G P E V G R H H L H E L P D A Q R P R I L V T T G G T G
UniRef90_H8GRT2 G H E V T G H V I V R D D A V E I R S A L V R L M Q G C D L V I T T G G T G
UniRef90_H2J480 G Y K I L P D E K E L I A E E L R N L V K E D I D I L T T G G T G
UniRef90_A5WBY6 G H N L A D R Q L I T D D I Y Q I R A V I S G W I A D P E V H A V M T T G G T G
UniRef90_B3PHC3 G H R L H G R T L V V D D I Y Q I R A V T S Q W I V D P L A Q V V L I T T G G T G
UniRef90_UPI00035F46F9 D A V V V A D K D I Q R T I D E L F A Q D N L P N V V L T S G G T G
UniRef90_UPI00047172C9 G H Q V A E Q L I C P D N R Y S I R A G V S R W I A S E Q V Q V I I N G G T G
UniRef90_UPI00036F94A9 G H T L V D K A I V K D D I Y Q I R A V V S R W I A P K C V Q A V L V T G G T G
UniRef90_C6WHY3 G Y D V P D P A V V P D G E P V A E A L R A A V A K G V A V V I T T G G T G
UniRef90_W5YNE3 G H R L V A R R I L P D D V Y L I R A L M S G W I A D P E I N V V I T T G G T G
UniRef90_UPI00020017D7 G H V L Q E R R L V P D N R Y R I R A E L L S R W I A D E A V Q V V I T S G G T G
UniRef90_K9TEJ4 S H A V D Y T I L P D E P A I Q G H L V A L G Q H P E A V E A V I F N G G T G
UniRef90_UPI00036E9431 G H W L G D R R I V P D D I Y R I R A V V S E W I A R D G I H A V L V N G G T G

UniRef90_C8PX71
UniRef90_E2N4Z2
UniRef90_UPI000403CF7F
UniRef90_N8TE71
UniRef90_UPI0003FFF3E0
UniRef90_R5D2H5
UniRef90_R9TZE2
UniRef90_UPI00017468B1
UniRef90_UPI0003781F3B
UniRef90_G4LZ84
UniRef90_F6FQP3
UniRef90_U1GA89
UniRef90_UPI00046485CD
UniRef90_UPI0004755ACA
UniRef90_K2QUW8
UniRef90_K9ST61
UniRef90_N1V4Z8
UniRef90_D6E8V0
UniRef90_X1AT59
UniRef90_H5WZ18
UniRef90_T1CCC3
UniRef90_W7QXN6
UniRef90_UPI0003717FA8
UniRef90_A6FMM3
UniRef90_U5WFI4
UniRef90_UPI000304D9AE
UniRef90_Q0FVR3
UniRef90_V4JD80
UniRef90_F9UFI7
UniRef90_I0RFX1
UniRef90_A9WDP0
UniRef90_K4KP09
UniRef90_H2BW34
UniRef90_E6QKA8
UniRef90_E1VI89
UniRef90_UPI00034B6E1E
UniRef90_UPI000346D439
UniRef90_A7HR03
UniRef90_L0J5V3
UniRef90_A0R447
UniRef90_UPI0003785A54
UniRef90_UPI0003F4BF7A
UniRef90_B4W5H0
UniRef90_H3KCS4
UniRef90_F8JX79
UniRef90_H6BN09
UniRef90_UPI00026C6C42
UniRef90_Q49ZJ3
UniRef90_I3ZM09
UniRef90_Q13BU9
UniRef90_H8L410
UniRef90_F1Z791
UniRef90_UPI000379464B
UniRef90_I4BPC6
UniRef90_B8FAF8
UniRef90_R1IQ50
UniRef90_A0A024HB95
UniRef90_A0L7R1
UniRef90_M5JHT9
UniRef90_W6MXP0
UniRef90_X1MM16
UniRef90_UPI00036FAC48
UniRef90_UPI0003784404
UniRef90_R4V352
UniRef90_A7NNY8
UniRef90_T0LZC3
UniRef90_C7RBX0
UniRef90_UPI0003B6E159
UniRef90_Z5X3D0
UniRef90_B2VBW6
UniRef90_UPI0004214519
UniRef90_UPI000463F496
UniRef90_K7AU51
UniRef90_F9NVA6
UniRef90_D7B7T5
UniRef90_E2XTU8
UniRef90_I6YEN6
UniRef90_W3AAN0
UniRef90_B2U8M0
UniRef90_UPI0002F30C27
UniRef90_H8GRT2
UniRef90_H2J480
UniRef90_A5WBY6
UniRef90_B3PHC3
UniRef90_UPI00035F46F9
UniRef90_UPI00047172C9
UniRef90_UPI00036F94A9
UniRef90_C6WHY3
UniRef90_W5YNE3
UniRef90_UPI00020017D7
UniRef90_K9TEJ4
UniRef90_UPI00036E9431

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

UniRef90_C8PX71 R A L A G M A N N T V I F C L P G S S T K G A S E S M D A L F P A V L H I F K V L
UniRef90_E2N4Z2 R S V A G T I G N T L V I A L P G S S T K G A S E S M D A L F P A V L H I F K V L
UniRef90_UPI000403CF7F R A V A G F V I G N T L V I A L P G S S T K G A S E S M D A L F P A V L H I F K V L
UniRef90_N8TE71 R G V A G F I D R S L V I T L P G S S R G G A S E S M A A I T P A L V H I F D
UniRef90_UPI0003FFF3E0 R A S A G T A S G K A L F C M P G S S S G A V K L A V E L I K P E L P H I V R E L
UniRef90_R5D2H5 R G V A G F R G N T L I V N L P G S K A S G A A K E S L E Y I L P E L V H A A E L
UniRef90_N9TZE2 R A A A G V I Q N K A V F A T P G S S S G A V K L A M K L I V P E L A H V I R E L
UniRef90_UPI00017468B1 R C L A A I V D Q S L V I A L P G G K P Q G A V E C L S F V V G A I P H S V K L A
UniRef90_UPI0003781F3B R G V C G V A G R T L I V N L P G S S T G G V K D G L G V L A G V L D H A L D Q L
UniRef90_G4LZ84 R F V A G V C G N E T L L I T L P G S S T R A V S Q C I P V I L R V M K H A I H Q I
UniRef90_F6FQP3 R G I A G V R G R T L V V N L P G S S V G G V D G L D A L A D V L P H A V E Q L
UniRef90_U1GA89 R P V A G V R G K A L I L T L P G S S P K G A K E N L Q A V L K M L P H A C L Q
UniRef90_UPI00046485CD R A V A G T Y R G M I L F S L P G S S T G A V Q L A M E L I L P E L R H H L V T Q L
UniRef90_UPI0004755ACA R G L A G L A G G T L I V N L P G S S T G G A R D G M A V L E Q V L V H A V E Q V
UniRef90_K2QUW8 R P V A G V R N K T M V I T L P G S S P K G A K E N L E A V T K L P H A C L Q
UniRef90_K9ST61 R A V A G I Y Q N K L V F S L P G S S S N A V K L A I E L I Q P E I J H L V R Q M
UniRef90_N1V4Z8 R G L A G V S G T T F I V N L P G S S A G G V R D G L D V L A P L L E H I C T Q L
UniRef90_D6E8V0 R A L C M Q R G G R H L V I N L P G S S E K A A R E S W D G I V A A L P H A A K M M
UniRef90_X1AT59 R G Y S G I R G G T L I V N L P G S S P K A V E S L E V I I P L L D H G I E V L
UniRef90_H5WZ18 R G M A G V A G R T L I V N L P G S S R G G V S D G L E V L A A V L D H A V D Q I
UniRef90_T1CCC3 R A E V A L V N Q T L V I L L P G S H P R A V V Q G L D L L P L V P H A L A M V
UniRef90_W7QXN6 R A V A G L A N G V A I F C L P G S T G A C R T G W E G I I
UniRef90_UPI0003717FA8 R Q V A V V R H A A L I V N L P G G Q P K S T Q E T L E G I F A A V P Y C I D L I
UniRef90_A6FMM3 R A T G G V A N G T Y L F A L P G S S P G A C K D A W D E I L S L
UniRef90_U5WFI4 R G L A G V A G H T L I V N L P G S S S G A K D G L A V L G P L L V H T V D Q I
UniRef90_UPI000304D9AE R Q V A V I R H A A L I M N L P G G Q T K S T K E T L E G I F A A V P Y C I D L I
UniRef90_Q0FVR3 R A T G G V A G G T Y L F A L P G S S T G A C R T A W D E I L A
UniRef90_V4JD80 R A L A G L A N G S T L V F C L P G S S S G A C R T A W D D L L A
UniRef90_F9UFI7 R A L A G L A N G T F I F C L P G S S S G A C R T A W D R I L
UniRef90_I0RFX1 R G L C G V A G R T L I V N L P G S S P G G V R D G L G V L A D V L D H A L D Q L
UniRef90_A9WDP0 R A T A G V F G G T L I F C L P G S S P N A V Q L G L D L I L P E L A H L V
UniRef90_K4KP09 R A L G G L A N Y T A I F C L P G S S T N A C K T G W R L I E P Q L
UniRef90_H2BW34 R S I A G I M D K K L V L A F P G S S T K G A A E C M D A I F P H V L H V E N M I
UniRef90_E6QKA8 R A V A G L R G S T L I V N L P G S E R G A T E C L Q A I L P L L P H A L D I
UniRef90_E1V189 R A V A G M A N N T V I F C M P G S S N N A C A T A W E G I I
UniRef90_UPI00034B6E1E R A T A G V I A G T Y L F A V P G S S S G A C R D A W D E I L
UniRef90_UPI000346D439 R G V A G F A G S C F V V N L P G S S R G G V R D G L G V L E P L L G H L L A Q
UniRef90_A7HR03 R A T A G V A D G T F L F A L P G S S P G A C K D G W D E I
UniRef90_L0J5V3 R G I C G V S G R T L I V N L P G S S T G G V K D G L G V L D D V L E H A L D Q L
UniRef90_A0R447 R G V C G V S G R T L I V N L P G S S P G G V K D G L G V L D H V L E H A L D Q L
UniRef90_UPI0003785A54 R A V A G F A N K T V I F C M P G S S T G A C K T A W S K I
UniRef90_UPI0003F4BF7A R A A A G T A G G K A V F S C P G S S T G A V R L A M N L I L P E L G H I R E L
UniRef90_B4WSH0 R A I A G T R G Q T L I F S L P G S S T K A V G L A L E L I L P E L Q H I T N R L
UniRef90_H3KCS4 R Q V A V L R H A A L I I N L P G R P K A I A E T L E G I F A A V P Y C I D L I
UniRef90_F8JX79 R G I A G V A G R T L V N L P G S S T G G V R D G L A V L A P L L T H A V D Q L
UniRef90_H6BN09 D N N S G D R G K L V F G L P G N P A S A L T A N L F V L P C L Q K H L V G L V
UniRef90_UPI00026C6C42 R G V A G M A G R S F V V N L P G S S R G G V K D G I A V I D P L L D H L E Q
UniRef90_Q49ZJ3 R A I A G A V G D K L I F S I P G S S T G A V K L A L N L I K P E L N H L V K E I
UniRef90_I3ZM09 R A V A G V A A G T Y L F A L P G S S P G A V V D A W E L L P L L
UniRef90_Q13BU9 R A T A G V A G A T Y I F C L P G S S P G A C R D G W D G I L A A
UniRef90_H8L410 R Q V G A L R H A A L I T N L P G S S T K A I R Q T L E G I F A A I P Y C L D L I
UniRef90_F1Z791 R A F A G Q L E D T F I F C L P G S T G A C K D G W D L V L
UniRef90_UPI000379464B R T V A G T A N R T L I F T M P G S S P G A C R T A W E K V I
UniRef90_I4BPC6 R G V C G V S G R T L I V N L P G S S V G G V R D G L G V L A D V L D H A L D Q L
UniRef90_B8FAF8 R A A A G V V G K T A V F C M P G S S L G A C K L C T S L I L P E L G H L I K H I
UniRef90_R1IQ50 R A I A G F A N H T V I F G M P G S S T G A C R T G W N G I I
UniRef90_A0A024HB95 R A L A G T I S N G T L V C C L P G S S P G A C R T A W E R I L R E
UniRef90_A0L7R1 R G V T A L R G Q T L V N L P G S S T R G A L H S L Q A V A D L I P H A L R M
UniRef90_M5JHT9 R A I A G T I E R K I V F C M P G S S T N A V R L A M E L I L P E L R H L V W E L
UniRef90_W6MXP0 R P V A G V R K K S L I T L P G S S P K A V L E N L G S V F P T I S H A L T Q I
UniRef90_X1MM16 R A V A G V R G K C L I T N L P G S S P K A V R E
UniRef90_UPI00036FAC48 R A L A G T K A G K A I F C T P G S S S G A V R L A M R L I L P E L R H I K R E L
UniRef90_UPI0003784404 R A F A G V A N R T V V F C M P G S S T G A C K T A W N G I I R E
UniRef90_R4V352 R V V A G V A N A T L V A A L P G S S P G A C R D G W E G I L A
UniRef90_A7NNY8 R A T A G V F Q R S L I F C L P G S S P A A V R L G M E L I L P E L A H L V
UniRef90_T0LZC3 R P V A G V R N K T L I T L P G S S P K G A K E N L Q A V L K T L P H A C V Q
UniRef90_C7R BX0 R A L A G L A N R T L I V C M P G S S P N A C R T A W Y Q I L E E
UniRef90_UPI0003B6E159 R A F A G L A N G T F L F C L P G S S T S A C K T G W E K L I
UniRef90_Z5X3D0 R G V C G V A G R T L V I N L P G S S T G G V R D G L S V L A D V L D H A L D Q L
UniRef90_B2VBW6 R A L A G I A N G T L I F A V P G S S T G A C Q L A W E R I I P Q L D H F V S H L
UniRef90_UPI0004214519 R G L V I G V T G R A I I V N S P G S S K G G V R D V V S V I G P L V P H I L E Q L
UniRef90_UPI000463F496 R A L A G L A N G T L I A C L P G S S T G A C R T G W T K L L
UniRef90_K7AU51 R A L G G M A N T A I F C M P G S S T G A C K T A W N S I L
UniRef90_F9NVA6 R G L S G V I D R A V L V N V P G S S R G G A R D A M A V L K E L L L H I I D Q L
UniRef90_D7B7T5 R G L A G V A H R M L V V N L P G S S R G G T A D G M E V L A P V L R H A V D Q L
UniRef90_E2XTU8 R A L A G V S N G V L V C C M P G S S P G A C R T A W D Q I L
UniRef90_I6YEN6 R G V C G V A G R T L V V N L P G S S A G G V R D G L A V L G G V L G H A L D Q L
UniRef90_W3AAN0 R A S A G V A S D K A I F V L P G S S R G A V K L A M E L V L P E L A H I
UniRef90_B2U8M0 R Q V A V I R R A T L I V N L P G G Q P R A I K E T L E G I F A A V P Y C I D L I
UniRef90_UPI0002F30C27 R G T A G S A G R T F V V N L P G S S V G G V K D G I T V L D P L L H H I Q A Q L
UniRef90_H8GRT2 R A L G G L S R G A L F A L P G S S L N A V Q T A W E G L L D Q L G H L V
UniRef90_H2J480 R A V V G I R A N K T L I I N L P G S S P R A V R E N L A V L P A I P H A V E K I
UniRef90_A5WBY6 R A I A G M A N N T V I F C L P G S S S G A C R T G W T K I I
UniRef90_B3PHC3 R A I A G L S N R T L I F C L P G S S T G A C T T A W E K I I R E
UniRef90_UPI00035F46F9 R A I A G V S G H T F L M T L P G S S R G G V K D G C T V I L E P I L G H I I D T I
UniRef90_UPI00047172C9 R A L A G L A N Q T L I F A L P G S S T S A C R Q A W E R I I
UniRef90_UPI00036F94A9 R T V A G M A N G T V I F V M P G S S N N A C K T A W E G I I
UniRef90_C6WHY3 R G V A G V A G R T L V V N L P G S S T G G V K D G L A V L D A V L E H A V E Q V
UniRef90_W5YNE3 R A F G G L A N H T V I F C L P G S S T G A C R T G W N G I L
UniRef90_UPI00020017D7 R C L A G V A N G T V V F V L P G S S L D A V E T A W D R L I S A
UniRef90_K9TEJ4 R A I A G L Y Q S K L I F S I P G S S S G A V K L A L Q L I L P E L I H L T Q Q V
UniRef90_UPI00036E9431 R A I G G V A N R T L V F A L P G S S P K A C A T A W D G I L

UniRef90_C8PX71	
UniRef90_E2N4Z2	K
UniRef90_UPI000403CF7F	
UniRef90_N8TE71	
UniRef90_UPI0003FFF3E0	K
UniRef90_R5D2H5	
UniRef90_R9TZE2	R
UniRef90_UPI00017468B1	R
UniRef90_UPI0003781F3B	S
UniRef90_G4LZ84	K
UniRef90_F6FQP3	R
UniRef90_U1GA89	
UniRef90_UPI00046485CD	R
UniRef90_UPI0004755ACA	H
UniRef90_K2QUW8	
UniRef90_K9ST61	Q
UniRef90_N1V4Z8	
UniRef90_D6E8V0	
UniRef90_X1AT59	R
UniRef90_H5WZ18	
UniRef90_T1CCC3	R
UniRef90_W7QXN6	
UniRef90_UPI0003717FA8	
UniRef90_A6FMM3	
UniRef90_U5WFI4	R
UniRef90_UPI000304D9AE	
UniRef90_Q0FVR3	
UniRef90_V4JD80	
UniRef90_F9UFI7	
UniRef90_I0RFX1	
UniRef90_A9WDP0	
UniRef90_K4KP09	
UniRef90_H2BW34	K
UniRef90_E6QKA8	
UniRef90_E1VI89	
UniRef90_UPI00034B6E1E	
UniRef90_UPI000346D439	
UniRef90_A7HR03	
UniRef90_L0J5V3	R
UniRef90_A0R447	
UniRef90_UPI0003785A54	N
UniRef90_UPI0003F4BF7A	K
UniRef90_B4WSH0	R
UniRef90_H3KCS4	
UniRef90_F8JX79	R
UniRef90_H6BN09	Q
UniRef90_UPI00026C6C42	
UniRef90_Q49ZJ3	
UniRef90_I3ZM09	
UniRef90_Q13BU9	
UniRef90_H8L410	
UniRef90_F1Z791	
UniRef90_UPI000379464B	
UniRef90_I4BPC6	R
UniRef90_B8FAF8	
UniRef90_R1IQ50	
UniRef90_A0A024HB95	
UniRef90_A0L7R1	
UniRef90_M5JHT9	Q
UniRef90_W6MXP0	E
UniRef90_X1MM16	
UniRef90_UPI00036FAC48	
UniRef90_UPI0003784404	
UniRef90_R4V352	
UniRef90_A7NNY8	
UniRef90_T0LZC3	
UniRef90_C7RBX0	
UniRef90_UPI0003B6E159	
UniRef90_Z5X3D0	S
UniRef90_B2VBW6	K
UniRef90_UPI0004214519	
UniRef90_UPI000463F496	
UniRef90_K7AU51	
UniRef90_F9NVA6	
UniRef90_D7B7T5	R
UniRef90_E2XTU8	
UniRef90_I6YEN6	
UniRef90_W3AAN0	
UniRef90_B2U8M0	
UniRef90_UPI0002F30C27	E
UniRef90_H8GRT2	
UniRef90_H2J480	N
UniRef90_A5WBY6	
UniRef90_B3PHC3	
UniRef90_UPI00035F46F9	E
UniRef90_UPI00047172C9	
UniRef90_UPI00036F94A9	
UniRef90_C6WHY3	
UniRef90_W5YNE3	
UniRef90_UPI00020017D7	
UniRef90_K9TEJ4	K
UniRef90_UPI00036E9431	

1 10 20 30 40

UniRef90_X0SVE3 V R V A V L T V S D T R T P K T D R S G P L L A S M I E D A
UniRef90_U2Y4K2 I N I A L L T V S D T R T G P E D D T S S G N L L A D R I R K A
UniRef90_UPI00036C1629 V R L A V L V M S D T R T L G D T D T S S G F T L V K R I E A A
UniRef90_F8AW77 L R A R V I T V S D R A H T G G Y A D R S S G P L A A G A L G R I G F A V D
UniRef90_B7UXP0 L N I A V L T V S D T R T T L E T D T S S G L L F V D R L T E A
UniRef90_QOVLW7 A V L T V S D T R A P E T D T S S G D L L V A R L L K E A
UniRef90_D8PGU1 C M V I T C S D T R A P E T D T S S G R L I Q Q L L K D K
UniRef90_G2R2J5 L K A A I L V V S T T A A K D P S T D A A E T V L R E V F E Q D G G G R
UniRef90_A3VBZ4 V R I A V M T V S D T R T V E D D R S G E T L V G R I E A A
UniRef90_D9UTM4 T A L V V T A S N R A A A G V Y P D R S G P L I A E A L R A W G F A T E
UniRef90_I2JM42 A V L T V S D T R T D E S T D S S G Q Y L V A A L G A A
UniRef90_UPI0003B49D6E I A V L T V S D T R T L A D D K S G N L L V E R L A A D
UniRef90_UPI000419C6AB I A I L T V S S R R G E D E D T S G H Y L R D A A L E A
UniRef90_C2CSE3 R A V V I V A S T R A A A G I Y E D R S G P I A V E F L R R M G F D T P
UniRef90_UPI000467F4DA I A I L T V S D T R T A E T D R S G D S L V E R L T A A
UniRef90_A9WQ16 A G I V V A S T R A A N G V R A D L S A A G I T Q W L E E Q Q
UniRef90_K2ADW1 G E Y E D R G G P A C E D W L R R V I T
UniRef90_B2WGC2 I G V L S T G D R S A A G L G E V R T N R G P T I T A A R S H R F
UniRef90_E8N6U7 A R V I T V S D R S A A G L R R E D R G G P L A V S L L R D A G F D C A
UniRef90_G9XED3 L N I A V L T V S D K R S A Q G L R Q D G C K E K I V N V L G K E I V
UniRef90_UPI00037EFF07 L R L A V L T V S D S K R D A S N D T S G D Y L R E A A T E A
UniRef90_T0K134 V R I A V L T V S D S R T A A D D R S S G D A L V D R L T A A
UniRef90_A1RTS5 R F Y I V T V S T S R Y R E K A E D E S G D L A E K M A R E A
UniRef90_G2PN45 L T A D V V C S D T T I S K G K G E D R A S G E A I M E R L K V I G V E S Q
UniRef90_D5G7Q4 K L N A A I V V S S T T I S K D P S S D A S G D L T E F I A N S S A E S T
UniRef90_G6XHH9 L H I A V L T V S D T R N M E N D L S G N S L V D Y L T R A
UniRef90_L9PGU6 I G L V S V S D R A S G G V Y Q D L G V P A L Q D W L A R A L T
UniRef90_UPI0003645195 V R V A V L T V S D R T R T E E T D T S G Q Y L L A E L R A R A G
UniRef90_UPI00036FA05 R A L V V V D D R A A Q S E H E D T T G P L V T E L L E E A G F I V D
UniRef90_W8GCG2 L T V S I L T V S D T R N R A N D T S G N Y L A D A V S N V
UniRef90_UPI00036C9DB6 L R I A V L T V S D T R Q L E N D D R S G T V L A E R I A G A
UniRef90_UPI0003B689F2 D H R A L V I A S T R A A A G I Y E D D A G P Q L V K W L Q A R G Y A T Q
UniRef90_Q4L8D9 I Q C A V L T V S D T R P K E T D K G G Q L V Q T L I Q D I N V E V L
UniRef90_UPI00037A8E25 G P T V F V A I V T V S D T R T P E T D K N A A Y L R E Q L A A G
UniRef90_B8NU05 P T L Q P A I L T V S D T A S E D P S T D K V V D A L T P L L L T T D Q S
UniRef90_B6GCU9 D I S F A I V T C S D T R G L A E D E A G A A L T S L I E G A
UniRef90_S9PJ2 V S A F V V T C S D R S N A A R A D E S G R V L R E V L E A E
UniRef90_V9XLQ6 R A L V V V D D R V S H G D S P D S A G P L V T E L L V E G G F A V D
UniRef90_V5IMB4 L K A A I L T V S T T A A Q D P A T D S A D V T L R Q V F D E Q Q A Q W
UniRef90_A3WBS7 I N I A V L T V S D T R T R Q D N D T S G D I L A A R I E A A
UniRef90_M7XVX8 F S V A L L C V S D T A A A V P S S D R S L P L L H D I L T S Q P N D
UniRef90_D3QI35 I N C A V L T V S D T R D K K S D K G Q L V Q T L L H D V D A E L A
UniRef90_W8X9X3 L R V R L G I V T L S T T R A G P A E D E S G N W M A A A S R E A K
UniRef90_S7THE5 L R A A I L V S T T A A Q D P S T D A A E A A L R E V F D Q D G G G R
UniRef90_G0S6E0 L R T A I L T I S N S R T F S D T N G L M I Q S A L T N Y
UniRef90_F9MPU8 R A L V V V A S T R A A A G V Y E D T S G K L L V E W L R G K G F D T P
UniRef90_W5XY00
UniRef90_X1I6A9 L T I A V L T I S D T R D L N T D R S G A L L A E R L E L A
UniRef90_W7QQT5 I R I A V I S I S T T R K L A D D K S G A W I K K Q A Q K E
UniRef90_S0G5K3 L N I A V L T V S D S R G A A D D S S G D Y L A S A L T Q A
UniRef90_R1F5V5 K L K A A I L V S D T A S R R D P S T D E A G N V L T D T F A A D G G H
UniRef90_C0RZR3 L K I A V L S M S S T R T I E N D K S G E W I K K Q S K K E
UniRef90_UPI00035F6595 I A V L T V S D T R S L D N D Q S G D T L Q Q R L I G A
UniRef90_W5YKT8 V N I A V I T V S D T R S A A D D R S G D A L A E R I A G A
UniRef90_G7ZHE3 V S F G I V T V S D S R T E D T D E S G R Y L T D V L L E H
UniRef90_D8K021 I H V A I L T V S D T R D Y D S D K G Q L I Q S L I N Q H E N H
UniRef90_Q5HLX4 K L R V A I S V S T T R D L S Q D K S G T W I K Q Q A K K E
UniRef90_C0QKG2 L N V G V I S V S T R T E K T D E S G S W I K K L A I K E
UniRef90_E1Y9Z0 D V K I G V I T V S D T A S R G E K E D A S G K F L V E A L K E S G N E N
UniRef90_B6YVA0 E L K A A V I T V S T R Y E E K V D E S G K T I V E A F K S
UniRef90_D3RYA2
UniRef90_E1RFE3
UniRef90_H3ASQ8
UniRef90_UPI00034CC79C L N I A V L T V S D T R T E E T D S S G R A L V E R A T E A
UniRef90_L7U8T7 V S A F V V T C S D T R S R D A A R D G S S G K V L R D G L E S A
UniRef90_M5T7J4 L R V A V I T L S D T R T I D N D P S G D R I V A L L E D V
UniRef90_UPI00035FBDE6 G P V S V A I V T V S D T R T P Q T D T N Y H Y L E P E I T G M
UniRef90_UPI00034B1884 C A V I T A S N R A A A G V Y P D R S G P I L V E E L E R A G F A A E
UniRef90_UPI00047CFC08 L R I A V L T V S D R V S A G K A D D V S G P E L I N A L G K L G A D
UniRef90_S9QZK3 L K I A V L T V S D T R S P A T D R S G D T L A E R I A A A
UniRef90_UPI00036CF471 L K I A V M T V S D T R G E A D D K S G K I L V D N L N A A
UniRef90_H2Y4D7
UniRef90_U7LW90 T A I V L V A S T R A A A G V Y E D R S G P I A V D F L R R K G F D C P
UniRef90_F8J944 I R I A I L T M S D S R T L A E D T S G A Y L E R A I G E A
UniRef90_M2U3R5 V N I A L A T I S D T R T P A D D R S G D T L A A R L E A A
UniRef90_C7HVU8 Y N Y A F V V I S D T R S T G E N K D G C I D A C Q K I M P E N Y K M
UniRef90_E2SDJ6 R A V V V A S G R A S A G I Y E D T T G P L T V E A L R Q W G L D V G
UniRef90_A9G1Z6 V R V A T L T L S D T R T L D D D E G G Q L L G E L L K R A G F S V T
UniRef90_A0A031FLR3 R G L V I V A S T R A A Q G V Y E D E S G K T L A T W L T S R S F D T P
UniRef90_E0DI74 V A V L T V S D G V A A G E R E D L G S G P A V A S A A E R M L G A G A
UniRef90_UPI000348181E P S A V V I T V S N R A S A G V Y P D R S G P V L A E A L R G A G L R P D
UniRef90_UPI000367D24D A V L T L S D T R G V D E D R S G A L L C E R L Q A A
UniRef90_UPI0002D7879C L N C A V L T I S D S R T P E T D T S G D Y L S E A I A A A
UniRef90_E4BJ11 E I K A R V I T V S D R C A S G A A T D R S G P L A L S L A G L G Y S W L
UniRef90_H2XXW3 P A I F V G V L T I D D K C Y N A Q K K D V T G P K I Q S I L T E I K
UniRef90_B0RHK8 P R G R A V V I V A S T R A A A G E Y Q D R T G P V I A A V L A E R G Y R V G
UniRef90_UPI0000221AF8 R V S V I T V S D S S H A G T R V D E S G P K L V E L V D K S L K F V I
UniRef90_UPI0004717A78 V A L L T V S D R S S M A E D A S G A L L A Q R I G Q A
UniRef90_Z5XR09 L N I A I L T V S N S R G P E Q D T A G D L L Q Q K V I D S
UniRef90_UPI00037D4B20 L S I A V L T V S D S R S S A E A D S G D L L C Q L L Q T A
UniRef90_U9VH32 I A V L T V S D S R T E A T D K S G Q L L V E H L Q T A

UniRef90_X0SVE3 G H V V A E R A T A A D D V K S I R K Q V K K W I K N K K I D V V I T T G G T G
UniRef90_U2Y4K2 G H K L T A R A I E K D N A D L L V K R L N S W I D D P Q V D A I I I S T S G G T G
UniRef90_UPI00036C1629 G H I V A D R K I V P D E S K A A I R A Q V S A W I A D P D G A H L V V T T T G G T G
UniRef90_F8AW77 G N L A A R V L L K D D L Y R I R A Q V A T W I A E D S V Q V V L T T T G G T G
UniRef90_B7UXP0 G H T L Q A R L I V K D D L Y Q L R K Q V S D W I A D D S R I Q Q A I I V T T G G T G
UniRef90_QOVLW7 G H R L A A Y H L V K D D E P A E L K A R I A E A L T A N N E S V Q G A I I I N G G T G
UniRef90_D8PGU1 W D V A E V K F V A D T T E T Q R Q I M L W T D A A D P V N L V I T T T G G T G
UniRef90_G2R2J5 G H V L A D R T I V K D E R E V I A A K L R D W A N P E I D V I V L T T T G G T G
UniRef90_A3VBZ4 G P Q V V P D D G A P V I E A A L R A A I E T G Y G V V V T T T G G T G
UniRef90_U9UTM4 G H H L I D K Q I V K D D V Y Q I R A T V S A W I A N P S I E A V L L T T G G T G
UniRef90_I2JM42 G H R L A A R L I K S D D R Y G I R A R L S N W L D D D T V D V I I T T G G T G
UniRef90_UPI0003B49D6E G H Q V V D K T I V K E N M Y A I R A R V S E W I A S D D D L Q V V L I N G G T G
UniRef90_UPI000419C6AB N A L I V P D A E I D E A L N T V F A E G P S V I L T S G G T G
UniRef90_C2CSE3 G H Q L H E K R I V P D D I Y Q L R A A V S Q W I A D P D G V I Q V L T T T G G T G
UniRef90_UPI000467F4DA Y D V L E P L I V A D G E P V R E A L L Q L V G A G A K L V L T T T G G T G
UniRef90_A9WQ16 S P V E I L R I T P D G R A E V A A Q L C D L A D I W G A D L I L A T T G G T G
UniRef90_K2ADW1 E V I D L G I V S D K P G S T L E Q A L R D A F R K C G D V I I T T G G T G
UniRef90_B2WGC2 D A I V V V D G A E S V Q A L R S A V I A A G P G L I V T T T G G T G
UniRef90_E8N6U7 Y K L V N Y V I V P D E M D K I E E V I R K N V S E K V N L I L T T S G G T G
UniRef90_G9XED3 G H Q V V D H A V I G D N R Y R I R A L I S R W I A S E D V D V V I I N G G T G
UniRef90_UPI00037EFF07 G H V L A D R R I E R D D K S V I V A R L H A W I D D P E V D V I I T T G G T G
UniRef90_T0K134 G H Q V V G R D L I P D D L Y L I R R K T L E L I S R E D V D I V V F T T G G T G
UniRef90_A1RTS5 T W K V V A R R I V S D D R E E I Q G A L K T L E G P T K L N L I V T T G G T G
UniRef90_G2PN45 G H V L S D R A L V R D N V P D I K S H L E K W I E D P G T D V V I S T T G G T G
UniRef90_D5G7Q4 T P Y R L E T R L I A D E Q A Q E I E A T L T E L V D T A R D H L V L T T G G T G
UniRef90_G6XHH9 G H E V V G Y R V V R D E A P E I R A A L E G F M R D A T V V L T S S G G T G
UniRef90_L9PGU6 G N V A V A G E A V E I R N A L N T A V I G G V D V V I T V I G G T G
UniRef90_UPI0003645195 G H N I R E K A I V V D N L Y K I R S Q L S S W I A D E V T Q V I I T T G G T G
UniRef90_UPI00036C9DB6 G H T L A D R R I V P D D A E Q I R E A V R G W L S D S T G V V I T T G G T G
UniRef90_UPI0003B689F2 Q A L V V A D H D L A A T M E H V I A G D Y G P M P D V L I T T S G G T G
UniRef90_Q4L8D9 N S N Y A I I K D D K V A I Q S Q L E Q W L A S D D R M I L F N G G T G
UniRef90_UPI00037A8E25 G N E V V G Y R I I K D E P D Q V K A V L N E F A A S D A V N L V L L S G G T G
UniRef90_B8NU05 P W K T P F S N I V P D N V D I Q R S I C D W T D G Q D A V N L V L L S G G T G
UniRef90_B6GCU9 G W S V C S R V V V P D D T R E I S L A I R A A T D E R G V D I V L C G G T G
UniRef90_S9PJV2 G H T V S G Y K V I P D E P E A I R A T V A E A R E A G A R V R V L T T G G T G
UniRef90_V9XLQ6 G V V T V A A D E V E I R N A L N T A V I G G V D L V I S V I G G T G
UniRef90_V5IMB4 E V H E S K I I V P D D V V Q I K Q K I T H W T N Q A T A N L I V T T G G T G
UniRef90_A3WBS7 G H T I A E R A I I K D D A L L V D E I L E S W I D N P N I D T I I V T T G G T G
UniRef90_M7XVX8 A Y R V V A Q G I V P D E T A E I V E N V R T W V H M G V D L I L T T S G G T G
UniRef90_D3QI35 I K D Y A I K D E K I A I R N Q L Q L W L K S D D I Q V I I T T G G T G
UniRef90_W8X9X3 G H V L Q A R A L C P D D R Y R I R K V L S D W I A D P D I Q V I I C G G T G
UniRef90_S7THE5 G H E I L F H R V L P D D A A V I R E T L L S L L D E H D P D A V L M N G G T G
UniRef90_G0S6E0 W T V S E A K I V S D V V T H I Q Q Q I M L W A D D A D V N L I V T T S G G T G
UniRef90_F9MPU8 G H V V D Y A I V K D D R D A I T R H I H E W V C S V D M V I T T S G G T G
UniRef90_W5XY00 D A V I V A D R D I P A Y V A G L V D L Q E E L T K A V D K L H L D L I L T T G G T G
UniRef90_X1I6A9 Y Q I I P D E K D I Q E E L T K A V D K L H L D L I L T T G G T G
UniRef90_W7QQT5 G H R L A E R R I V D D I Y R I R A V V S E W I A D P D I Q V I I T T G G T G
UniRef90_S0G5K3 G H E V V I H Q V V K D D I T D I R N L L T H V V E K I T P H A V I M T G G T G
UniRef90_R1F5V5 G H K L V D R A L C A D N L F R V R A Q I V S Q W I V D D N V Q V V L I N G G T G
UniRef90_C0RZR3 N W H T P V T V I V P D N V E I Q R Q I L S W T D T G N Y F N L V I T T G G T G
UniRef90_UPI00035F6595 G H E V V I H Q V V P D D A N A I T D A L E H I I E R I A P H A V I M T G G T G
UniRef90_W5YKT8 G H Q L S E R V L V K D N V Y A I R A V V S R W I A S A Q V P V I V T T G G T G
UniRef90_G7ZHE3 G H R L A A R T I V R D D I A A I R A Q V Q A H I A D P Q I D V V I T T G G T G
UniRef90_D8K021 G H S V N G Y Q L I K N N G E A I H R V I E K F I G H P E I Q I I I F T G G T G
UniRef90_Q5HLX4 V D I N H Y R I V T D D I E A I T H Q L K L W T S S N Q L D V I I T T G G T G
UniRef90_C0QKG2 G H E V V H H V V T D E I A A I R N M V E H V V T Q I T P N A I L L T T G G T G
UniRef90_E1Y9Z0 G H N I T F Y Q V I P D D I Y K I A E T T R E A V F E Q K V Q A L L T T G G T G
UniRef90_B6YVA0 V H Y T I V P D E K L A I K A V I E S I E K G A D V I V L T T G G T G
UniRef90_D3RYA2 I V A Y K L V P D D T K K I L K A V L E M E A D V V I L T T G G T G
UniRef90_E1RFE3 N I D L S F Y E V V P D D I N L I K G A V F E A L E S S N C I I V N G G T G
UniRef90_H3ASQ8 F Q E T L T D W C D E K E L N L I L T T G G T G
UniRef90_UPI00034CC79C G H S I V A R Q L I A D D V Y R V R A V V A G W I A D P D V Q V V L T T G G T G
UniRef90_L7U8T7 G H N I A G Y V V V K D D P E A I R A V V A A Q A A G A R A L L F T T G G T G
UniRef90_M5T7J4 G H L V A E R L V I T D D E G P L R E S I E A F V A D D S V D A I I T T G G T G
UniRef90_UPI00035FBDE6 G H K V V G Y R I I K D D E L Q V A E A L E E M V K S G A Q I I I F N G G T G
UniRef90_UPI00034B1884 G P W V V V P D G A P V A E A L R R A L J A E G Y D A A I T T G G T G
UniRef90_UPI00047CFC08 V R A E V Q P D G I E P L R S R L V A L A D E G V R L C L C G G T G
UniRef90_S9QZK3 G H V L A A R E L L P D D R A I A A R L R G W A A D P A I D V I T T G G T G
UniRef90_UPI00036CF471 G H D L V E K V I V P D N I Y K I R A V I S R W I A D E S V Q V I L T T G G T G
UniRef90_H2Y4D7 V I K V I K L V P D E K T E L K S T L K D W S D R L N L I L T T T G G T G
UniRef90_U7LW90 A A R V V P D A D I A A A V D Q A F A E K P A V I L T T G G T G
UniRef90_F8J944 G H E L A D R K L A K D D K A Q I R S I V E G W I N D A S V D C V I T T G G T G
UniRef90_M2U3R5 G H R L A A R T I L K D D A N T I V E Q L S E W I D D T Q I D C V I T T G G T G
UniRef90_C7HVV8 V Y K S I I N D D L E N I E K E L N K L V D E N I Q L I L T T S G G T G
UniRef90_E2SDJ6 D P V V V P D G D P V I G R A I A A V A D G V I A V V S T T G G T G
UniRef90_A9G1Z6 S H A V L R E E P E L L R A A I V Q L A D A G S A D A I V T T G G T G
UniRef90_UPI00031FLR3 P V E V V P D G A D S V I E Q A L R R A L A A G A R A I I T T G G T G
UniRef90_E0DI74 E P V I V A D A D I P N H F A Q L F G D I A S L P Q V V L T T G G T G
UniRef90_I0IG02 V V R T A S T A D G R E A V E R A L R D L L A E E P D L L L T T T G G T G
UniRef90_UPI000348181E G P W V V P D G E P V A E A L R R A L A G Y D A A L T T G G T G
UniRef90_UPI000367D24D G H H L A E R E I L P D D R Y R I R A V L S R W I A D P A V I Q A V L T T G G T G
UniRef90_UPI0002D7879C G H R C V R R G L C A G N M Y E L R K L I S D W I A D D E I Q I V I T T G G T G
UniRef90_E4BJ11 R P G P V V V V P D G M I D S V R G A L R D A L R H G Y R L V V T T G G T G
UniRef90_H2XXW3 G F R V I R K I L V R D D I D E I K N T L C V W S D K L A L D M I I T V G G I S
UniRef90_B0RHK8 A P I V R A D G P G V A A L A E A V A G G A R V I L T T G G T G
UniRef90_UPI0000221AF8 H L M T H L D S T R S M Q L S M W E V R L W C Q M M S K R F G R L F K S A V
UniRef90_UPI0004717A78 G H Q L V D R Q L T P D D R Y R I R A V V S G W I A D P G V A V V I S S G G T G
UniRef90_Z5XR09 G H V L A N R Q L H K A N Y K V R A E V A T W I A S D D I D V V I S S G G T G
UniRef90_UPI00037D4B20 G H Q L A E R I V L P N K Y H V R A V L S Q W I A S E T I Q V V L L N G G T G
UniRef90_U9VH32 G H T L A E K M I V P D D I Y Q I R A V V S R W I A D V G V Q A I I T T G G T G

UniRef90_X0SVE3
UniRef90_U2Y4K2
UniRef90_UPI00036C1629
UniRef90_F8AW77
UniRef90_B7UXP0
UniRef90_Q0VLW7
UniRef90_D8PGU1
UniRef90_G2R2J5
UniRef90_A3VBZ4
UniRef90_D9UTM4
UniRef90_I2JM42
UniRef90_UPI0003B49D6E
UniRef90_UPI000419C6AB
UniRef90_C2CSE3
UniRef90_UPI000467F4DA
UniRef90_A9WQ16
UniRef90_K2ADW1
UniRef90_B2WGC2
UniRef90_E8N6U7
UniRef90_G9XED3
UniRef90_UPI00037EFF07
UniRef90_T0K134
UniRef90_A1RTS5
UniRef90_G2PN45
UniRef90_D5G7Q4
UniRef90_G6XHH9
UniRef90_L9PGU6
UniRef90_UPI0003645195
UniRef90_UPI00036FCA05
UniRef90_W8GCG2
UniRef90_UPI00036C9DB6
UniRef90_UPI0003B689F2
UniRef90_Q4L8D9
UniRef90_UPI00037A8E25
UniRef90_B8NU05
UniRef90_B6GCU9
UniRef90_S9PJY2
UniRef90_V9XLQ6
UniRef90_V5IMB4
UniRef90_A3WBS7
UniRef90_M7XVX8
UniRef90_D3QI35
UniRef90_W8X9X3
UniRef90_S7THE5
UniRef90_G0S6E0
UniRef90_F9MPU8
UniRef90_W5XY00
UniRef90_X1I6A9
UniRef90_W7QQT5
UniRef90_S0G5K3
UniRef90_R1F5V5
UniRef90_C0RZR3
UniRef90_UPI00035F6595
UniRef90_W5YKT8
UniRef90_G7ZHE3
UniRef90_D8K021
UniRef90_Q5HLX4
UniRef90_C0QKG2
UniRef90_E1Y9Z0
UniRef90_B6YVA0
UniRef90_D3RYA2
UniRef90_E1RFE3
UniRef90_H3ASQ8
UniRef90_UPI00034CC79C
UniRef90_L7U8T7
UniRef90_M5T7J4
UniRef90_UPI00035FBDE6
UniRef90_UPI00034B1884
UniRef90_UPI00047CFC08
UniRef90_S9QZK3
UniRef90_UPI00036CF471
UniRef90_H2Y4D7
UniRef90_U7LW90
UniRef90_F8J944
UniRef90_M2U3R5
UniRef90_C7HVU8
UniRef90_E2SDJ6
UniRef90_A9G1Z6
UniRef90_A0A031FLR3
UniRef90_E0DI74
UniRef90_I0IG02
UniRef90_UPI000348181E
UniRef90_UPI000367D24D
UniRef90_UPI0002D7879C
UniRef90_E4BJ11
UniRef90_H2XXW3
UniRef90_B0RHK8
UniRef90_UPI0000221AF8
UniRef90_UPI0004717A78
UniRef90_Z5XR09
UniRef90_UPI00037D4B20
UniRef90_U9VH32

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

UniRef90_X0SVE3
UniRef90_U2Y4K2
UniRef90_UPI00036C1629
UniRef90_F8AW77
UniRef90_B7UXP0
UniRef90_Q0VLW7
UniRef90_D8PGU1
UniRef90_G2R2J5
UniRef90_A3VBZ4
UniRef90_D9UTM4
UniRef90_I2JM42
UniRef90_UPI0003B49D6E
UniRef90_UPI000419C6AB
UniRef90_C2CSE3
UniRef90_UPI000467F4DA
UniRef90_A9WQ16
UniRef90_K2ADW1
UniRef90_B2WGC2
UniRef90_E8N6U7
UniRef90_G9XED3
UniRef90_UPI00037EFF07
UniRef90_T0K134
UniRef90_A1RTS5
UniRef90_G2PN45
UniRef90_D5G7Q4
UniRef90_G6XHH9
UniRef90_L9PGU6
UniRef90_UPI0003645195
UniRef90_UPI00036FCA05
UniRef90_W8GCG2
UniRef90_UPI00036C9DB6
UniRef90_UPI0003B689F2
UniRef90_Q4L8D9
UniRef90_UPI00037A8E25
UniRef90_B8NU05
UniRef90_B6GCU9
UniRef90_S9PJV2
UniRef90_V9XLQ6
UniRef90_V5IMB4
UniRef90_A3WBS7
UniRef90_M7XVX8
UniRef90_D3QI35
UniRef90_W8X9X3
UniRef90_S7THE5
UniRef90_G0S6E0
UniRef90_F9MPU8
UniRef90_W5XY00
UniRef90_X1I6A9
UniRef90_W7QQT5
UniRef90_S0G5K3
UniRef90_R1F5V5
UniRef90_C0RZR3
UniRef90_UPI00035F6595
UniRef90_W5YKT8
UniRef90_G7ZHE3
UniRef90_D8K021
UniRef90_Q5HLX4
UniRef90_C0QK2
UniRef90_E1Y9Z0
UniRef90_B6YVA0
UniRef90_D3RYA2
UniRef90_E1RFE3
UniRef90_H3ASQ8
UniRef90_UPI00034CC79C
UniRef90_L7U8T7
UniRef90_M5T7J4
UniRef90_UPI00035FBDE6
UniRef90_UPI00034B1884
UniRef90_UPI00047CFC08
UniRef90_S9QZK3
UniRef90_UPI00036CF471
UniRef90_H2Y4D7
UniRef90_U7LW90
UniRef90_F8J944
UniRef90_M2U3R5
UniRef90_C7HVV8
UniRef90_E2SDJ6
UniRef90_A9G1Z6
UniRef90_A0A031FLR3
UniRef90_E0DI74
UniRef90_I0IG02
UniRef90_UPI000348181E
UniRef90_UPI000367D24D
UniRef90_UPI0002D7879C
UniRef90_E4BJ11
UniRef90_H2XXW3
UniRef90_B0RHK8
UniRef90_UPI0000221AF8
UniRef90_UPI0004717A78
UniRef90_Z5XR09
UniRef90_UPI00037D4B20
UniRef90_U9VH32

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

UniRef90_X0SVE3
UniRef90_U2Y4K2
UniRef90_UPI00036C1629
UniRef90_F8AW77 R
UniRef90_B7UXP0
UniRef90_QOVLW7
UniRef90_D8PGU1
UniRef90_G2R2J5
UniRef90_A3VBZ4
UniRef90_D9UTM4 H
UniRef90_I2JM42
UniRef90_UPI0003B49D6E
UniRef90_UPI000419C6AB
UniRef90_C2CSE3 E
UniRef90_UPI000467F4DA
UniRef90_A9WQ16
UniRef90_K2ADW1
UniRef90_B2WGC2
UniRef90_E8N6U7
UniRef90_G9XED3
UniRef90_UPI00037EFF07
UniRef90_T0K134
UniRef90_A1RTS5 K
UniRef90_G2PN45 E
UniRef90_D5G7Q4
UniRef90_G6XHH9
UniRef90_L9PGU6
UniRef90_UPI0003645195
UniRef90_UPI00036FCA05 S
UniRef90_W8GCG2
UniRef90_UPI00036C9DB6
UniRef90_UPI0003B689F2 R
UniRef90_Q4L8D9 N
UniRef90_UPI00037A8E25
UniRef90_B8NU05
UniRef90_B6GCU9 R
UniRef90_S9PJV2
UniRef90_V9XLQ6 S
UniRef90_V5IMB4
UniRef90_A3WBS7
UniRef90_M7XVX8
UniRef90_D3QI35 N
UniRef90_W8X9X3
UniRef90_S7THE5 R
UniRef90_G0S6E0
UniRef90_F9MPU8 K
UniRef90_W5XY00
UniRef90_X1I6A9 K
UniRef90_W7QQT5
UniRef90_S0G5K3 R
UniRef90_R1F5V5
UniRef90_C0RZR3
UniRef90_UPI00035F6595 K
UniRef90_W5YKT8
UniRef90_G7ZHE3
UniRef90_D8K021 R
UniRef90_Q5HLX4 N
UniRef90_C0QKG2 S
UniRef90_E1Y9Z0
UniRef90_B6YVA0 R
UniRef90_D3RYA2 K
UniRef90_E1RFE3
UniRef90_H3ASQ8 R
UniRef90_UPI00034CC79C
UniRef90_L7U8T7
UniRef90_M5T7J4 K
UniRef90_UPI00035FBDE6
UniRef90_UPI00034B1884 R
UniRef90_UPI00047CFC08
UniRef90_S9QZK3
UniRef90_UPI00036CF471
UniRef90_H2Y4D7 K
UniRef90_U7LW90 E
UniRef90_F8J944
UniRef90_M2U3R5
UniRef90_C7HUU8 E
UniRef90_E2SDJ6 H
UniRef90_A9G1Z6
UniRef90_A0A031FLR3 K
UniRef90_E0DI74 E
UniRef90_I0IG02 Q
UniRef90_UPI000348181E R
UniRef90_UPI000367D24D
UniRef90_UPI0002D7879C
UniRef90_E4BJ11
UniRef90_H2XXW3 K
UniRef90_B0RHK8 R
UniRef90_UPI0000221AF8 K
UniRef90_UPI0004717A78
UniRef90_Z5XR09
UniRef90_UPI00037D4B20
UniRef90_U9VH32

1 10 20 30 40
UniRef90_F0Z4Q9 K A A I F T L N T G L Y K A R K E S A A T A L K R M L E Q V
UniRef90_M0M8H6 V A I V T V S S S R G A D D E E D P S G D A I A E I L A D A
UniRef90_G8QTB8 K M R A F V L C A S S D K G Y A S L R V D E S T P A V C R L A E E S
UniRef90_UPI0004774FAF D R I A V L T V S S S R G A T A A T D R V D E S T G P A V C R L A E E S
UniRef90_L0JWZ0 P R I G V V T V A T D R S L S A T D A S G E T I E D V L E E R
UniRef90_J9YVW6 K V N L A L L T V S T D T R T F E L N D K S G G I L V K K I E E A
UniRef90_H0EBK7 R A A L L T V S T S R A E A P P D D P G T L A L A A A L
UniRef90_M0B7M0 A A I V T V S S S R A E A A D D D P G G D T V Q E C F E N A
UniRef90_UPI000371D20C I A V L T V S S D T R T P A D D T S G D T L E A R I R A A
UniRef90_W2BSE6 I K A A V V T V D S R V V S G T K P P K G A Q T A V S L L R E A G I S
UniRef90_W4QUH5 I R C M L L T V T D S C S Y E N D P S G A L I R S M L E A E
UniRef90_W7TR83
UniRef90_C0FT76 V R I A V L T I S D T R D E E S D T S G R L L A E R V T G A
UniRef90_B4RD87 F K A S V V T I S D T S L A H P S L D G S G A I L L V D Q L S I
UniRef90_I2FVR1 G P L K A A L L I V S S S T A A K D A S A D A S G P I L L T Q V L K D E G D G K I
UniRef90_F9FLU9 Q L L V G V I T V S S T S R F R K D A S A E D L S G R A I L D R L E A A G R S F T
UniRef90_G7WM85 F G V L T T S D T H T E E D D E S G S L V K K L L T E I D I
UniRef90_B9E9E2 R R R A L V V L V S D H A L S G E D T D R L L T E L L I E G
UniRef90_T1A255 F G V V T V S S S R S L D D D P S G E Y L V S A F E E A
UniRef90_M1NKE5 R A L V V I V D D R T A H G D N T D S I G P L V T E L L N E A G F L V D
UniRef90_M0E3Y3 A R I I V V D D R V V A G E R P D K A G P A T R T R L Q E A G L S S
UniRef90_T1VS81 I E A A V I T V S S T T R D S L S D S S G A L T R D L L T G A
UniRef90_K7RT80 L Q I A V I L T V S S T S R D L A G D S S G A T L G E L L E A
UniRef90_B8GGD3 I N A G V I T V S S T T R D K D T D T S G K I I C D L F K L H
UniRef90_L0DVQ9 L N I A V L T I S D T R T E A D D T S G K T L V D R V L A A
UniRef90_H1Z3M2 L N I A V L T I S D T R S L A N D P S G D L L Q G R V V D G
UniRef90_UPI0003649C15 P L L H A M V V I V S D S R T L A E A D T S G Q A L V D G L I Q A
UniRef90_D0L210 R A L I V S I T D H T L H G E D D G G A L V T E L L Q E A G F V V D
UniRef90_W5WSB8 P K L K A A I L V V S D T A A R D P S T D R A G P V L A E A F A E A E K W D
UniRef90_H1G2Q6 I L V V S D R V F K G E A E D E S G K L M K G L L E S K
UniRef90_C8X7S5 I L V I S T S R T E K E D T A G K A I Q S L F Q E S S P
UniRef90_C4JDA2 V N I A I L T I S D S R T F E N D R S G D V L A N C I E S A
UniRef90_H9ZZM5 V N I A I L T I S D S R T F D N D T S G K V L E D K A S K D
UniRef90_Q2FN80 P V R R A I V V L V S D S A M D S D D R T G D L V T E L L S E D N F E V D
UniRef90_E0Y0Y6 L N F K I I S I N D D V F Y S R N A D V S A Q K M K E I L N M H F C A T T
UniRef90_C0N8D5 L N F Y I V I T S T S R Y K E S P V V D E S G D V I K Q L V I S S N
UniRef90_U3GTD7 G G A L G I A V V T I A A D R T L A T D E A G E A I V S A L L E A C F E G E S
UniRef90_F0K819 Q R R A L V V L V A D H A S S G E D T D R L V T E L L Q E D G F A
UniRef90_W7L5T2 I K V G I L T I S D K G S R G E R D L S G K V I K E V V K R I
UniRef90_M0BEC4 R A L V V I T D H P D N E A A Q D T S R L A G E L L A E A E F T V D
UniRef90_L1MIL3 I K F S I L T L D Y K L D R N D E K E L T G K I I Y D Y I K E K S L G
UniRef90_UPI000425CA56 R A L V V L G D K L D S G P D T D R L V A E L L S E
UniRef90_X1DPV3 A V V T I A S S R S L D S D E A G E A I V T A L L E E A
UniRef90_C3PF21 V G I V T V S S S R A Q S D E E P G G D T L Q E C F E A E
UniRef90_F0K4A5 G S P V G V G L V T V A T N R P D A T G A G G E I A T Y F E G S
UniRef90_E0DIU9 I A V L T V S D T R T L Q D D K S G D T L A A R I A E A
UniRef90_M0LH86 L H A L V V L V T D H V N P D D Q S G E L V A E L L A E E D F M
UniRef90_M0LRJ5 T A A L L I I G N E I L S G R T R D A N A W L A N Q K L F Q R
UniRef90_L9WQT7 K A A V I T T G S E V Y K G R K D T F T P V I I D K L K E Y N
UniRef90_B9TM03 V A I E T I S S S R S V S N D A A G D A I A A A F E S E
UniRef90_S4XL29 I A V L T V S S S R D V E D D P A G D A I K T L T E A
UniRef90_E9CPJ0 L K A G L I T T G S E V F K G R K D T F T P V I I E K L K A Y
UniRef90_UPI000477C2E8 P R A L V I I V D D N A G E K S D R I G S L V A E L L A E D H F G
UniRef90_UPI000367FA35 K A G I V T T G S E V Y H G R K D E F T P V V K E K L A D F
UniRef90_R7GLT5 L K A A A I V V S D R I V G G E R E N T V T A V L E S E L L K V A E G
UniRef90_U1NE25 A L V V L T D H I A S G K D T D R L V T E L L E E
UniRef90_M0IBG0 K L R A G L L T T G G E V F S G R I Q D R F G P A V R S K L E A F
UniRef90_UPI0003704642 V G L L T I S S S R T I E E D G A G D A I A E A M A D A
UniRef90_C6CVK8 K A L V L V S D T V Y E G R G E D T S G E L A V R M L R E R
UniRef90_Q3IN08 I T A A V V V M S D R V L S G E R P N G A G E A C R D R L L A E G L G D V
UniRef90_I3TG18 L K A G L I T T G N E V F Y G R I Q D T F T P V V V A K L E K Y
UniRef90_U2RQZ6 G T A P R A A M L A I G D E L I S G R T K D N I A H L A G L L T L A
UniRef90_R5QZU7 Q P K V A V V I T G D E V A R G K V F D A N G P L L R A W F K D Y G I E
UniRef90_UPI0003A0BCD0 T A Q V I V V S D R V C G G E R R D A G A A V D T L R R A G L R C A
UniRef90_N9EBU0 W T A A L A V I S G D E I L S G R T Q D K N I A Q I A T W L N V Q
UniRef90_UPI00026CC52C P T A A L I V V S N R I V D G S K P D H A T D T A T L A G A G I S L I
UniRef90_G7I0H7 N V A I V V T V S G D E L L A G R T D T N A A W L C E R L A G R
UniRef90_L9Y9W3 V S V V T I S A D R E L E S D P A G N V M V T A L E A
UniRef90_L9W097 V R A C L I I I G N E I L S G R T H D K N L P Y L A E E L N K L
UniRef90_K2LX14 T H L L T V S D R V S A G T A E D T A G A A V R A L L S E A L P D W P
UniRef90_UPI000255F23C R I F A S L L I I G D E I L S G R T Q D T N T S F L A K W L N E R
UniRef90_UPI0003643A0E V T A A F I L V V G D E I L S G R T K D K N I G H V A D V L T M T
UniRef90_UPI00039D037C T A G L I T T G G E V H S G R I Q D R F G P A V R A K L E A L G S A
UniRef90_M0AL60 P S P T A A V L I T G D E I L S G R T R D T N L N T L A R F L A P L
UniRef90_W8YQX8 K R K V G I V T T G N E V F Y G R I K D T F T P V I I E K M K S Y G A E I H
UniRef90_F4R129 T A C L I T V G D E I L R G Q I V D T N T S Y L A K N L T A A
UniRef90_R5N9P4 K V G I V T T G S E V F Y G R I K D T F G P V I I R E K L A E Y
UniRef90_F8A299 G V V T V S S S R S L A T D E A G E A I S T A L E D
UniRef90_E2A1L7 P T A A I I I I G D E I L S G R T T D T N V N T I A K F L N A L
UniRef90_U5RZD8 N V A L L T V G D E L L A G Q T T N T N A S W L A A R L S E R
UniRef90_L9ZBW7 R P R V A V L S T G D E V V T G D E S A A G T R E D L S G P A A A E R L R A A G F A
UniRef90_V4NNY0 L K V G V V T T G S E V Y H G R I Q D Q F G P V I Q R K I T E L G S Q I L
UniRef90_D3SZH6
UniRef90_Q2IQM6
UniRef90_T0IY93

UniRef90_F0Z4Q9
UniRef90_M0M8H6
UniRef90_G8QTB8
UniRef90_UPI0004774FAF
UniRef90_L0JWZ0
UniRef90_J9YVW6
UniRef90_H0EBK7
UniRef90_M0B7M0
UniRef90_UPI000371D20C
UniRef90_W2BSE6
UniRef90_W4QUH5
UniRef90_W7TR83
UniRef90_COFT76
UniRef90_B4RD87
UniRef90_I2FVR1
UniRef90_F9FLU9
UniRef90_G7WM85
UniRef90_B9E9E2
UniRef90_T1A255
UniRef90_M1NKE5
UniRef90_M0E3Y3
UniRef90_T1VS81
UniRef90_K7RT80
UniRef90_B8GGD3
UniRef90_L0DVGQ9
UniRef90_H1Z3M2
UniRef90_UPI0003649C15
UniRef90_D0L210
UniRef90_W5WSB8
UniRef90_H1G2Q6
UniRef90_C8X7S5
UniRef90_C4JDA2
UniRef90_H9ZZM5
UniRef90_Q2FN80
UniRef90_E0Y0Y6
UniRef90_C0N8D5
UniRef90_U3GTD7
UniRef90_F0K819
UniRef90_W7L5T2
UniRef90_M0BEC4
UniRef90_L9XKU0
UniRef90_L1MIL3
UniRef90_UPI000425CA56
UniRef90_X1DPV3
UniRef90_C3PF21
UniRef90_F0K4A5
UniRef90_E0DIU9
UniRef90_M0LH86
UniRef90_M0LRJ5
UniRef90_L9WQT7
UniRef90_B9TM03
UniRef90_S4XL29
UniRef90_E9CPJ0
UniRef90_UPI000477C2E8
UniRef90_UPI000367FA35
UniRef90_R7GLT5
UniRef90_U1NE25
UniRef90_M0IBG0
UniRef90_UPI0002DD2BC2
UniRef90_A0A018MGD3
UniRef90_C4LHF7
UniRef90_J6HA16
UniRef90_W5XYZ1
UniRef90_UPI0003704642
UniRef90_C6CVK8
UniRef90_Q3IN08
UniRef90_I3TG18
UniRef90_U2RQZ6
UniRef90_R5QZU7
UniRef90_UPI0003A0BCD0
UniRef90_N9EUB0
UniRef90_UPI0004761C3F
UniRef90_UPI00026CC52C
UniRef90_G7I0H7
UniRef90_L9Y9W3
UniRef90_L9W097
UniRef90_K2LX14
UniRef90_UPI000255F23C
UniRef90_UPI0003643A0E
UniRef90_UPI00039D037C
UniRef90_M0AL60
UniRef90_W8YQX8
UniRef90_F4R129
UniRef90_R5N9P4
UniRef90_F8A299
UniRef90_E2A1L7
UniRef90_U5RZD8
UniRef90_L9ZBW7
UniRef90_V4NNY0
UniRef90_D3SZH6
UniRef90_Q2IQM6
UniRef90_T0IY93

50 60 70 80
G F E V K A G V L P E D K K V A F A V L K R L A D T G A V E L I L T T T G G T G
D H V V T A R Q L I P D D D Y V R I K T T V S E L L D C Y S D A D I V I T T T G G T G
G Y E I V E G T C L L S D D D R Y T L R S E K M A S V C D R Y Q Q A D L L L T T T G G T G
G Y C L R E Q T L L V S D D D R Y Q V R A I V S R M I A D P 0 0 0 I Q V I I T T T G G T G
G H E V P M R E H V G S D D H D K V Q S I V S R M I D R D D I D V L V I T T S G G A T S
S H N L A D R K I C K D N K E D I K S L I N E W L K E K A D I D V L V I T T A G G T G
G A E V A V A E R V P D D D R A A I A A R L V A F A D E A A V D L V L V T T A G G T G
G H E V R E R L L V R D D D Y A A I R T A V R G L V A R A G A D I D V V L T T G G T G
G H R L E A R A I V S D D D R Q K L Y D Q V R A W T L E A S L R D V V I T T G G T G
UniRef90_W2BSE6 G H S V S E Y Q I I N S D Y S L I Q H W I K I A A L R A D V D C I L I T T G G T G
UniRef90_W4QUH5
UniRef90_W7TR83
UniRef90_COFT76
UniRef90_B4RD87
UniRef90_I2FVR1
UniRef90_F9FLU9
UniRef90_G7WM85
UniRef90_B9E9E2
UniRef90_T1A255
UniRef90_M1NKE5
UniRef90_M0E3Y3
UniRef90_T1VS81
UniRef90_K7RT80
UniRef90_B8GGD3
UniRef90_L0DVGQ9
UniRef90_H1Z3M2
UniRef90_UPI0003649C15
UniRef90_D0L210
UniRef90_W5WSB8
UniRef90_H1G2Q6
UniRef90_C8X7S5
UniRef90_C4JDA2
UniRef90_H9ZZM5
UniRef90_Q2FN80
UniRef90_E0Y0Y6
UniRef90_C0N8D5
UniRef90_U3GTD7
UniRef90_F0K819
UniRef90_W7L5T2
UniRef90_M0BEC4
UniRef90_L9XKU0
UniRef90_L1MIL3
UniRef90_UPI000425CA56
UniRef90_X1DPV3
UniRef90_C3PF21
UniRef90_F0K4A5
UniRef90_E0DIU9
UniRef90_M0LH86
UniRef90_M0LRJ5
UniRef90_L9WQT7
UniRef90_B9TM03
UniRef90_S4XL29
UniRef90_E9CPJ0
UniRef90_UPI000477C2E8
UniRef90_UPI000367FA35
UniRef90_R7GLT5
UniRef90_U1NE25
UniRef90_M0IBG0
UniRef90_UPI0002DD2BC2
UniRef90_A0A018MGD3
UniRef90_C4LHF7
UniRef90_J6HA16
UniRef90_W5XYZ1
UniRef90_UPI0003704642
UniRef90_C6CVK8
UniRef90_Q3IN08
UniRef90_I3TG18
UniRef90_U2RQZ6
UniRef90_R5QZU7
UniRef90_UPI0003A0BCD0
UniRef90_N9EUB0
UniRef90_UPI0004761C3F
UniRef90_UPI00026CC52C
UniRef90_G7I0H7
UniRef90_L9Y9W3
UniRef90_L9W097
UniRef90_K2LX14
UniRef90_UPI000255F23C
UniRef90_UPI0003643A0E
UniRef90_UPI00039D037C
UniRef90_M0AL60
UniRef90_W8YQX8
UniRef90_F4R129
UniRef90_R5N9P4
UniRef90_F8A299
UniRef90_E2A1L7
UniRef90_U5RZD8
UniRef90_L9ZBW7
UniRef90_V4NNY0
UniRef90_D3SZH6
UniRef90_Q2IQM6
UniRef90_T0IY93

UniRef90_F0Z4Q9
UniRef90_M0M8H6
UniRef90_G8QT8
UniRef90_UPI0004774FAF
UniRef90_L0JWZ0
UniRef90_J9YVW6
UniRef90_H0EBK7
UniRef90_M0B7M0
UniRef90_UPI000371D20C
UniRef90_W2BSE6
UniRef90_W4QUH5
UniRef90_W7TR83
UniRef90_C0FT76
UniRef90_B4RD87
UniRef90_I2FVR1
UniRef90_F9FLU9
UniRef90_G7WM85
UniRef90_B9E9E2
UniRef90_T1A255
UniRef90_M1NKE5
UniRef90_M0E3Y3
UniRef90_T1VS81
UniRef90_K7RT80
UniRef90_B8GGD3
UniRef90_L0DVGQ9
UniRef90_H1Z3M2
UniRef90_UPI0003649C15
UniRef90_D0L210
UniRef90_W5WSB8
UniRef90_H1G2Q6
UniRef90_C8X7S5
UniRef90_C4JDA2
UniRef90_H9ZZM5
UniRef90_Q2FN80
UniRef90_E0Y0Y6
UniRef90_C0N8D5
UniRef90_U3GTD7
UniRef90_F0K819
UniRef90_W7L5T2
UniRef90_M0BEC4
UniRef90_L9XKU0
UniRef90_L1MIL3
UniRef90_UPI000425CA56
UniRef90_X1DPV3
UniRef90_C3PF21
UniRef90_F0K4A5
UniRef90_E0DIU9
UniRef90_M0LH86
UniRef90_M0LRJ5
UniRef90_L9WQT7
UniRef90_B9TM03
UniRef90_S4XL29
UniRef90_E9CPJ0
UniRef90_UPI000477C2E8
UniRef90_UPI000367FA35
UniRef90_R7GLT5
UniRef90_U1NE25
UniRef90_M0IBG0
UniRef90_UPI0002DD2BC2
UniRef90_A0A018MGD3
UniRef90_C4LHF7
UniRef90_J6HA16
UniRef90_W5XYZ1
UniRef90_UPI0003704642
UniRef90_C6CVK8
UniRef90_Q3IN08
UniRef90_I3TG18
UniRef90_U2RQZ6
UniRef90_R5QZ07
UniRef90_UPI0003A0BCD0
UniRef90_N9EUB0
UniRef90_UPI0004761C3F
UniRef90_UPI00026CC52C
UniRef90_G7I0H7
UniRef90_L9Y9W3
UniRef90_L9W097
UniRef90_K2LX14
UniRef90_UPI000255F23C
UniRef90_UPI0003643A0E
UniRef90_UPI00039D037C
UniRef90_M0AL60
UniRef90_W8YQX8
UniRef90_F4R129
UniRef90_R5N9P4
UniRef90_F8A299
UniRef90_E2A1L7
UniRef90_U5RZD8
UniRef90_L9ZBW7
UniRef90_V4NNY0
UniRef90_D3SZH6
UniRef90_Q2IQM6
UniRef90_T0IY93

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

UniRef90_F0Z4Q9 R S A A G I R K H T L M V N L P E G A K S A K E S L E Y I L P E L V H V V E M L
UniRef90_M0M8H6 R A T A G I L A R D T V P V F V L P G G S E N A V R L A T E I I A A E A P H L A G L
UniRef90_G8QTB8 R S V C A G T A R E N G T L I V N L P G G S T K A A V E N L S A I L S P L E H G L L M L
UniRef90_UPI0004774FAF R A L G G V A T R E N G T Y V F V L P G G S T A A C R L A W E Q L I A
UniRef90_L0JWZ0 R T L A G V S G G V P V F C L P G G S N R D A V R L G L E L L L P E A G H L V S L A
UniRef90_J9YVW6 R A C A V L A K G K Y V F A L P G G S S G G V T D A W D E I L
UniRef90_H0EBK7 R G V A A I R G R T L V V N L P G T P R A A E A E P V L G P L L T H A I R L L
UniRef90_M0B7M0 R A T A G I A V D T P V F C L P G G S Q S A C R T C E D L I V P E A P H L A G L
UniRef90_UPI000371D20C R A T G G V A N A T F I F V L P G G S S G G A C K D A W D G I L
UniRef90_W2BSE6 R A V V G V T S R T V I A N C P G S S S G G V K D T L A V L L P L L R Y I Y E Q L
UniRef90_W4QUH5 R A I A G V R D G K A I F S M P G A I G A V N L A M R I L I P E V G H V M K E I
UniRef90_W7TR83 R P V A G I V R G G T F I V T L P G G S P K A V K E N L D T L L P L L P K V F G L L
UniRef90_C0FT76 R G V S G I R K E A L I V N L P G G S P K A V R E C L E Y A I G A L T H G I D L L
UniRef90_B4RD87 R A L A G I V K G C F V F C L P G G S N G A V K D G W D K V I A A
UniRef90_I2FVR1 R S V T G I C K A N L L V A L P G G S P K A V K E C L E V L L
UniRef90_F9FLU9 R P A A G V R N S S L I V T L P G G S P K G A K E N L Q A I V K T L P H A C I Q
UniRef90_G7WM85 R A A A G V V G G V P V F C L P G G S P S A A S L G L D L I L A E V D H H I L H H I
UniRef90_B9E9E2 R A L C G T K D N T V I F S I P G G S V G A V N L A M K L I T Q E I H H I V H E E L
UniRef90_T1A255 R A S L F A L H N R P V F A V P G G S A R A C Q L A W E L I P T V E H H L V E E L
UniRef90_M1NKE5 R G I A G V S G S T V V F N L A A S S R A A V R D G M A T L M P L V H H V I D Q L
UniRef90_M0E3Y3 R A V A G I V S A T P V F C L P G G S E N A V R L D G V E V I L P E V G H L V G L
UniRef90_T1VS81 R G L V G V S G K E T V V A N L A S T R P A I R D G M A T L T A L A S H V I A E L
UniRef90_K7RT80 R E V V G V T S G A L V V A S P G S R G G A A D T L D V V L P L L P H I L A Q L
UniRef90_B8GGD3 R A V A G V T S G K A I F C I P G S N G A V T L A T E L I P Q I R H I V T H
UniRef90_L0DVQ9 R A L S G V A N G T F I F V L P G G S R N A C R T A W T R I E A
UniRef90_H1Z3M2 R A I A G I I E K K A V F C I P G G S N A A V K L A M E I L K E A S H I I T H
UniRef90_UPI0003649C15 R A L A G V A N G T Y L F C L P G G S S G A C R L G W D K I I
UniRef90_D0L210 R A T S G V A N G T Y L F V L P G G S T S A C R D A W D Q I I
UniRef90_W5WSB8 R G V A G I S G S T V I V N L A G S R G A I R D G M A T L G P L V R H V I A D M
UniRef90_H1G2Q6 R A L A G V A N G T Y V F C L P G G S S G A C R T A W T R L T
UniRef90_C8X7S5 R G L V G V S G S T L V A N I A G S R A A I R D G M A T L T P L A I H V I D Q L
UniRef90_C4JDA2 R S E M F L Y D G R V S V C I P G S L D A V K T G F E L I A G L V P H L L E E
UniRef90_H9ZZM5 R A V G G I L D G K A I F V I P G G S K N A A E L A T D I I P E I Y H I L T H A
UniRef90_Q2FN80 R A C A G V A H G T Y L F A L P G G S P G A C M D G W E I L
UniRef90_E0Y0Y6 R S V A G V A N G T F I F S L P G G S S G A C R T G W D E I L
UniRef90_C0N8D5 R G I A G V S G S T V I V N L A P S R A A I R D G M A T L G P L V H H V I D Q L
UniRef90_U3GT07 R S I A G I N G S T L I Y T I P G S K K A V I E Y M E I L K T M E H I I H I
UniRef90_F0K819 K A S A G V L N G K V I Y M L P G G S P R A V E L A M E L I V P E A P H L V Y I V
UniRef90_W7L5T2 R A T A G L A A D T P V F C L P G G S Q S A C E T C E E L I V P E A P H L
UniRef90_M0BEC4 R T L A G V A D G K P I F C L P G T A A G A R L G E E L I L P E A R H L V T L
UniRef90_L9XKU0 R G V A G V S G S T V L V N L A P S R A A I R D G M A T L G P L V H H V I D Q L
UniRef90_L1MIL3 R A V A G M T H G T F V M T L P G S R G G V K D G C A V L E P V L G H L L D L
UniRef90_UPI000425CA56 R G I S G I V S G S T V I V N L A S S R A A V R D G M A T L T P L V H H L V D Q L
UniRef90_X1DPV3 R G I S G I V S G S T V I V N L D G R P A V I R D G S M A T L T P L V H H L V D Q L
UniRef90_C3PF21 R G L S G V S G S T V V V N M A G R S R L A I R D G M A T L T P L V H H L V D Q L
UniRef90_F0K4A5 R T L A G V S E G K P V F C L P G G H A D A A R L G T E I L P E A R N L
UniRef90_E0DIU9 R A T A G I A V D T P V F C L P G S T A G A C Q T C E E L I V P E A P H L A G L
UniRef90_M0LH86 R C F A G I A D E V P V F C L P P S R D A V R L G L E L V L P E A R Q L V T L A
UniRef90_M0LRJ5 R A T A G V A N A T F I F
UniRef90_L9WQT7 R G V A G V S G S T V V N L A S S R A A I R D G M A T L C P L A R Y I I G E L
UniRef90_B9TM03 R Q V G A I R K Q A L I I N L P G Q P K S I K Q T L E G I F A S V P Y C I Q L L
UniRef90_S4XL29 R M A R L P Q G A E M I C P A T I A P G A K T H N V Y V L A G V P H I F A
UniRef90_E9CPJ0 R N M A A V G N A L V I C L P G K P K G A V E C L G F V V G A I P H C V E
UniRef90_UPI000477C2E8 M F L L S Y K G D T P I V G L P G C V M Y A R T V F D L V L P R L
UniRef90_UPI000367FA35 R A T A G I T D T V P F C L P G G S E N A A T L G N E L I V P E A S H L A G L A
UniRef90_R7GLT5 R A T A G I V D D T P T F C L P G S E N A A R L G T E I I V A E A P H L A G L A
UniRef90_U1NE25 R A T A G I V D D T P T F C L P G C V M Y A K A T F D L V L P R I A A G V K L
UniRef90_M0IBG0 R G I A G I S G S T V V N L A S S R A A I R D G M A T L T P L V R Y V I N D M
UniRef90_UPI0002DD2BC2 Y F D D K P I M G L P G S V M Y C K T V F D I I L P
UniRef90_A0A018MGD3 R G L L G V T G R H P V A N A P S S K G G V K D T M A V L I P V V P N I L E G L
UniRef90_C4LHF7 R G V A G V S G S T V V N I A P S R A A I R D G M A T L P L V D H V I E Q L
UniRef90_J6HA16 M L L M G Y L N G V P I M G L P G C V M H D P T S F D V L L P R I
UniRef90_W5XYZ1 R A V G G I A D G A A V F C L P G S E N A A Q L G T E I I V A E A P H L V G L
UniRef90_UPI0003704642 S R A G E T F D G R V M A V L P G S A D G V E V G L S I L E I A H H L L E E
UniRef90_C6CVK8 R E V V I G V T G K A L V C S P G S K G G M S D T L D V V V P L L R H V Y I Q L
UniRef90_Q3IN08 C L A Y F A D G T T V M G L P G C V M Y A K A T F D L I L P R V V A G V
UniRef90_I3TG18 R M A R T P E G A T L I D N P V S V A P G F R M E N V F V M A G V P T I F A A M
UniRef90_U2RQZ6 E Y Q S K D K H N C Y I L G L P G N P A A V Y V C M Q I Y G K V L D A L
UniRef90_R5QZU7 R G I V G V T E G T L I A N A H S V G G V A D C L G V L V P L L P V I F E
UniRef90_UPI0003A0BCD0 R M A R V P E G A D L I E N R M S G A P G I R S N I F I M A G V P H I
UniRef90_N9EUB0 R G L I G V T Q T Q L I I N S A G S R G A V R D T L E V V L P L I G D I F R E
UniRef90_UPI0004761C3F G T A A L P A G A R A L H N E P G V A P G A A L E G V Y V L P G V P
UniRef90_UPI00026CC52C R T I A G V A D D P I F C L P G K A P A A R L G I E I L P E M R H L V G V A
UniRef90_G7I0H7 R M A R I P V G A E L I Q N P I S K A P G F R M E N V Y V M A G V P M I M Q A M
UniRef90_L9Y9W3 R G V A G V V D P P L V V T L P G S R A A
UniRef90_L9W097 K M A K M P R G A G L I Y N P S S A P G F Y V K N V F T L P G V P A I L Q S M
UniRef90_K2LX14 R M A R I P A G A D L I E N P V I S K A P G F R I G N V H V M A G V P N I M Q A M
UniRef90_UPI000255F23C R T T A G V T D G R P V F C L P G S N A N A A R L A T E L I V P E C R H L V E L A
UniRef90_UPI0003643A0E M L L I G Y L G G T P V L G L P G C V M H D P T S F D V L L P R I
UniRef90_UPI00039D037C R M A R V P D G G V L I A N P V I S G A P G F Q V I E N V F V M A G V P K I M E A M
UniRef90_M0AL60 L L S Y L E D G T P V M G L P G C V M Y A K A T F D L V L P R I I A G I E
UniRef90_W8YQX8 R G L V I G T A S G A V L V N L P G S P R G V A E
UniRef90_F4R129 R R L A I V P N S C E I I N I P G S P K Y F E A A A D V I I P R L K R C
UniRef90_R5N9P4 L L A Y Y K N T P I L G L P G C V M Y A R T I F D L V L P R V
UniRef90_F8A299 R T L A G V A D G T P V F C L P G A D A A R L A L A E I I S E A P V L V G L A
UniRef90_E2A1L7 R R M A R I P H G A L I K N P V I S A A P G F Q L G N V F V L A G V P K I M
UniRef90_U5RZD8 P D L V A D Y G A T P I V V D E G W A P G A C V V D G V Y V F A G I P D E M
UniRef90_L9ZBW7 P F L F A R I A G G A P V L G L P G S P S A C L V A F E V
UniRef90_V4NNY0 M F M L A R I G D I P V L G L P G C V M Y H K T T F D L L V P R I
UniRef90_D3SZH6
UniRef90_Q2IQM6
UniRef90_T0IY93

UniRef90_F0Z4Q9	S
UniRef90_M0M8H6	
UniRef90_G8QTB8	S
UniRef90_UPI0004774FAF	
UniRef90_L0JWZ0	R
UniRef90_J9YVW6	
UniRef90_H0EBK7	R
UniRef90_M0B7M0	
UniRef90_UPI000371D20C	
UniRef90_W2BSE6	N
UniRef90_W4QUH5	
UniRef90_W7TR83	K
UniRef90_C0FT76	K
UniRef90_B4RD87	
UniRef90_I2FVR1	
UniRef90_F9FLU9	
UniRef90_G7WM85	S
UniRef90_B9E9E2	N
UniRef90_T1A255	
UniRef90_M1NKE5	Q
UniRef90_M0E3Y3	
UniRef90_T1VS81	S
UniRef90_K7RT80	
UniRef90_B8GGD3	
UniRef90_L0DVQ9	
UniRef90_H1Z3M2	
UniRef90_UPI0003649C15	
UniRef90_D0L210	
UniRef90_W5WSB8	N
UniRef90_H1G2Q6	
UniRef90_C8X7S5	S
UniRef90_C4JDA2	
UniRef90_H9ZZM5	
UniRef90_Q2FN80	N
UniRef90_E0Y0Y6	
UniRef90_C0N8D5	
UniRef90_U3GTD7	Q
UniRef90_F0K819	
UniRef90_W7L5T2	R
UniRef90_M0BEC4	
UniRef90_L9XKU0	
UniRef90_L1MIL3	Q
UniRef90_UPI000425CA56	
UniRef90_X1DPV3	
UniRef90_C3PF21	Q
UniRef90_F0K4A5	K
UniRef90_E0DIU9	R
UniRef90_M0LH86	
UniRef90_M0LRJ5	
UniRef90_L9WQT7	R
UniRef90_B9TM03	
UniRef90_S4XL29	N
UniRef90_E9CPJ0	E
UniRef90_UPI000477C2E8	
UniRef90_UPI000367FA35	
UniRef90_R7GLT5	
UniRef90_U1NE25	
UniRef90_M0IBG0	R
UniRef90_UPI0002DD2BC2	
UniRef90_A0A018MGD3	
UniRef90_C4LHF7	
UniRef90_J6HA16	
UniRef90_W5XYZ1	S
UniRef90_UPI0003704642	Q
UniRef90_C6CVK8	
UniRef90_Q3IN08	
UniRef90_I3TG18	
UniRef90_U2RQZ6	
UniRef90_R5QZU7	
UniRef90_UPI0003A0BCD0	
UniRef90_N9EBU0	
UniRef90_UPI0004761C3F	
UniRef90_UPI00026CC52C	
UniRef90_G7I0H7	
UniRef90_L9Y9W3	
UniRef90_L9W097	R
UniRef90_K2LX14	
UniRef90_UPI000255F23C	
UniRef90_UPI0003643A0E	
UniRef90_UPI00039D037C	
UniRef90_M0AL60	R
UniRef90_W8YQX8	
UniRef90_F4R129	
UniRef90_R5N9P4	
UniRef90_F8A299	
UniRef90_E2A1L7	
UniRef90_U5RZD8	
UniRef90_L9ZBW7	R
UniRef90_V4NNY0	
UniRef90_D3SZH6	R
UniRef90_Q2IQM6	
UniRef90_T0IY93	

1 10 20 30 40

UniRef90_UPI0003B41C77 Q R R A L A V V V T D H P D A Q P Q D T S K L L T E L L S E A E F Q V D 40
UniRef90_X0YK45 K L K V A I I T T G N E V Y K G L I Q D G F G P L L K E K F S Y F
UniRef90_D6ZFL1 R A L V V V D D Q A A A G H P G D M L G A L V K E K L D E F G
UniRef90_V7I3L2 K A G I V V T T G S E V Y H G R I K D T F G P V I R R R K L D E F
UniRef90_U1H834 V T A G I L V I G D E I L S G R T K D K N I G F I A R E Y L T E N I
UniRef90_D4GZR6 I A I L T V I G N E I L L A G D T E N T N A T W L A R R R L T E N A Q
UniRef90_M9MKK9 N A C L L V I G N E I L L A G D T T N T N A T W L A R A R L T A E R S F
UniRef90_Q18IK2 R V A V L T I G D E I L L A G D T T N T N A T W L A Q R L L T A E R S F
UniRef90_UPI0003655110 T A R I V V A S T R A A D G V Y A D T T G P L I A G W L L A E R S F
UniRef90_MOHE70 K A A V V T V G D E I L L A G D T V D T N A T W L C T Q L T E H
UniRef90_UPI000373D433 V T A G L V V I G D E I L L S G R T K D T N A G Y I A E Y L T E H
UniRef90_H1PP21 K Y K V G M V T T G N E V F F Y G R I E D S F T P V I T D K L L K E F
UniRef90_U2W4D1 R V G I V T T G N E V F Y H R I E D S F T P V I T D K L L S E Y E T E I I
UniRef90_E6VWY5 K V G I L V T G T E V F K G L I D D K F I P I I T A K V A R S L
UniRef90_B8J4K6 K A R V G I L V T G T E V F K G L I D D K F I P I I T A K V A R S L
UniRef90_UPI0003EAF887 G R S V T A G I I I V G D E I L K G H T Q D T N T F F L C R T L L T
UniRef90_Q1QK74 G D I I T A G V L V I G D E I L S G R T K D K N I G F I A D Y L T N I
UniRef90_J7IN13 K V G I V T T G S E V Y H G R I Q D K F G P V L R A K V E N W
UniRef90_V4ZPH0 L K V G L I T T G S E V Y H G R I K D K F G P V I R K K F S K L N S
UniRef90_C6BWC3 P T A A L I V I G D E I L S G R T K D K N I G W L A E Q L T E A F S Q
UniRef90_D5BRL0 P N P S A A M L V I G D E I L S G R T R D A N M Y H L A G E L T E A
UniRef90_Q16BM4 P N P T A A M L V I G D E I L S G R T R D A N L A H L A Q E F T A A
UniRef90_X7FC02 R V G V V T T G S E V F Y G R I Q D A F G P V I R K K F V A L
UniRef90_UPI0003B67F01 K A G L I T T G N E V F Y G R I E D T F S P V I E K K L G A F
UniRef90_G9YG60 N V A I V T V G N E V L L A G D I E N T N A T W L A R E L T E R
UniRef90_E4NLX9 K Y K A A L I V I G D E V L L A G Q V A D A N T Y L A K S L Q K V
UniRef90_UPI000224655C R V A I V T V G D E I L L A G E V A D T N A R W L C E R L T E
UniRef90_V4XX36 Y K A C L L I I G N E I L L S G R T Q D A N M A F L A G E K L N D L
UniRef90_UPI0004780E66 P N P T A A M I V I G D E I L S G R T R D S N M H Y L A K K Q L T A Q
UniRef90_A3JRT2 P N P T A A M I T T G N E V Y S G R T K D A N F G P V L K E K L K E F N
UniRef90_Q8XJG6 Y T A G L I V I G D E I L R G Q L I D T N T S Y L A K K L Q A S G I K L R
UniRef90_UPI0003DF7D41 P R A A M L V I G D E I L S G R T R D A N M H H L A G R L T E S
UniRef90_K2GNK4 R V A I L T V I G N E L L A G D T E N T N A T W L A R R L T E E
UniRef90_M0GT56 L R V G V V T T G T E V F L G R I E D T F T P V L A A K L K A F G L A I A
UniRef90_U2SVU5 R M N A A I L T V I G D E L L A G D V E N T N A T W L A S R L A D R
UniRef90_D2S009 P P V T A G I I I G D E I L K G H T Q D T N S F F M C K K L R S I
UniRef90_Q6ING7 R S G V I T T G S E V Y K H R I V D N F T P V I E D K L K E Y
UniRef90_BONF20 L K V G I V T T G S E V I V T G R I A D R F G P R I R E K L L A P F
UniRef90_UPI00037288EB R A G I V V T G T E V L T G R I V D R N G P W L A D R L L E L
UniRef90_UPI000400982D K I R V G I V T T G S E V Y T G L V E D A F Y P V L K A K F S A Y P L
UniRef90_A0A059N0E7 R A M I E S T G A E V L K G E I K D N S I T I A E A L R E Q
UniRef90_J2WXZ4 Q P K I A V L I T G D E V S Q S K V F D A N A P M V R T W L K E H G F A E
UniRef90_N9CWR5 N V S V V T V G D E L L A G E T V D T N S T W L A A Q L T D R
UniRef90_U1QQK1 R V A I V T V I G D E I L L A G D T V N T N A T W L C E Q L T E R
UniRef90_J3F0K2 T A G C L I I G N E I L L N G K T H D K N S N T F A K F C F D L
UniRef90_M5G655 K A A T V T I G D E I L I G Q I V D T N S A W M A Q N L T L A
UniRef90_F8X023 R V G I V T T G S E V Y N H R I E D K F T P V V I Q K V E E Y
UniRef90_D4MAF0 R V G L V T T G G E V F S G R I A D K F G P V I R N K V E A L
UniRef90_UPI00036B741E F K V G I V T T G S E V F Q G R I Q D K F G P V L K A K V E G W T
UniRef90_I4D766 P T A C L V I G N E I L S G R T Q E V N V Q Y I A R R L S E T V
UniRef90_G2I2J0 K I T A A I I I G N E I L S G R T Q E V N L S H L S I W L N K
UniRef90_UPI0004711224 Q P K I A V L I T G D E V S E S K V F D A N A P M I L T W L N E Q
UniRef90_UPI0002486E5D K V N A A L I I G N E I L S G R T Q D K N I A F I S S W L N T K C
UniRef90_UPI0003B7529D V T A A A L V I G D E I L S G R T K D K N I L G A I A D F C N I
UniRef90_UPI00036321A8 R V G L V S V I G D E I L L A G D T V N T N A A W L G N R L T E R
UniRef90_M0MKV8 T A G I V I V G D E I L K G Y T Q D T N S F F M C R R L R A L
UniRef90_H0Z188 K V G I V T T G S E V Y K G R I T D T N S G P V L S E K M A S Y
UniRef90_A4J865 R L K Y R I I T V S S T R T K E T D R S G D A M E S F I
UniRef90_T0NE34 V A L V S V G D E I L A G D T V N T N A A W L G Q R L A A R
UniRef90_D8J5F3 T A S L I V V G D E I L R G Q I V D T N T A S Y L A R N L T A A
UniRef90_A0A026WK18 N V A I V T V G D E I L L A G S T N T N A S W L A A R I T E R
UniRef90_L0JKU4 N V A I V T V G D E I L L A G S T N T N A S W L A A R I T E R
UniRef90_O28033 P R P R V V I L S I G N E I L S G D T N T N A A Y M A K K L T R A
UniRef90_E8JH16 F R A G L L T I S D R V Y A G T V R D M S G P A M A G A L R Q V D K V R
UniRef90_M4BVR6 R L K V G L I T T G N E V F Y G R I Q D R Y A P V L I E K L N K F
UniRef90_A1HSF3 K V A I V T T G N E V Y Y G R I K D A F K D A I E K R V Y P Y
UniRef90_UPI000421723C G R S V T A G I I I V G D E I L K G H T Q D T N T Y F L C R T L R S L
UniRef90_V9HCP1 V T A G I I I G D E I L K G H T Q D T N S F F M C R R L R R L
UniRef90_UPI0003F1971F L R V A V L S T G D E V A E G Q I H D A N R Y L L M A L L R R L
UniRef90_UPI00035072B3 N V A L V T V G D E I L S G D T V N T N A A W L G E R L T E R
UniRef90_UPI000443A08A V A L I T V G D E I L S G D T V N T N A N W I A G R L A E R
UniRef90_UPI00042029A2 D L K L G I I T T G N E I F Y G R I K D K A R E A L A G E K L G K Y
UniRef90_E7QYK1 P R A A V I V T G T E V L G G W V S D A N G P W L A Q R L G A L G V Q H
UniRef90_V4XPP9 V K A E L I A I G D E I L Y G Q I V D T N S H W I S Q E L D L V
UniRef90_D1AIG2 P R A A V I V T G T E V L G G W V S D A N G P W L A Q R L G A L G V Q H
UniRef90_UPI00047AB772 V K A E L I A I G D E I L Y G Q I V D T N S H W I S Q E L D L V
UniRef90_UPI000426576E P N P S A A M L V I G D E I L S G R T R D S N T H H L A C E L T K E Y F K A Q Y I
UniRef90_X1GUW1 L S V G S I V I G D E I L K G Y V Q D T N T A F L A S T L F K N
UniRef90_Q2CD40 A C V I T T G N E I A K G L I T D F T P V I M D K L A G Y
UniRef90_E4XDL2 A L I I G N E I L S G R T K D E N I Q F L A L R L G E L
UniRef90_F5YPB4 K A A L V T I G D E I L I G Q I V D T N S S Y I A K A L D K I
UniRef90_UPI00047AA772 L R A G I V V T G T E V L T G R V A D A N G P W L S E H L R K L A
UniRef90_Q1YL19 P T A A V L I G D E I L S G R T R D I N L Q Q I A T Y L A P L
UniRef90_V6ZL14 K A A I V T I G D E I L I G Q I I D T N S G F I A K S L D K I
UniRef90_A0A059FKG7 L N A E I V A V G T E L L L G Q I A N T N A Q W I S E K L A S I
UniRef90_UPI00047B5EFE K P T A G I I I G D E I L K G Q T L D T N S H F I C T E L Y K L
UniRef90_E6LYI7 N C L I T T G N E V Y S G R I K D A F L P V I K S K L G Y Y
UniRef90_UPI0002628403 R V A I V T V G D E I L V G D T V N T N A A W L G E R L T E R
UniRef90_W4YSG1
UniRef90_V9H3C9
UniRef90_MOCR11

UniRef90_UPI0003B41C77 G[V]V[T]V[K]A K 50 K S K I R Q A I I E T A V V G G V D L V V T I G G T G
UniRef90_X0YK45 G A E L Q G Q T F C P D N I E E I K K A I L Q F R K Q G G A D L I A L S G G M S
UniRef90_D6ZFL1 G F H V D A I V V V P A D N M A N I R N A I L N T A V I G E G V D L V V S V G G V G
UniRef90_V7I3L2 D I E V L G Q K I V V P A D N Q E M I R E A I V S F L I E E G A D M V F C T G G G M S
UniRef90_U1H834 G I D L K E V R V V A D D E A D I I S A L D A L R H R Y T Y V F T T G G G I G
UniRef90_D4GZR6 G A T V L A R I Q T V P D D H E V I A E T V A D W A A A F D A V L V T G G G L G
UniRef90_M9MKK9 G I R L L E R V R V I P D I E H E H I Q T V T E Y C R S R F D I I F T C G G I G
UniRef90_Q18IK2 G V T V R R I L T V P D E H S L I R S R V R E Y S G N F D A V I V T G G G I G
UniRef90_UPI0003655110 G V A V E R P V V V P D G E P V J A R A L R D A L A A G A D L V L T T G G T G
UniRef90_MOHE70 G I E A C E I R M V P D D V T S M I V E A V D T L R A R Y T Y V F T T G G G L G
UniRef90_UPI000373D433 D Q E V I A Q L L S Q D S K D M I K R K A Q E L L D M G A E M L I F T G G M S
UniRef90_H1PP21 G Q E L T K T D I V P D D R E T I T A S A R A M L D A G C D L I V T T A G G M S
UniRef90_U2W4D1 G C E V V R T G I V P D D R V M M G K A V A E F S M R T A G V D L L V T T A G G L S
UniRef90_E6VWY5 G V Q V C R V S V V P D E V A T I A A E V T S F S N R F T H D A V V T T G G I G
UniRef90_UPI0003EAF887 G I D L K E V R I V A D D E A D I V A A L N A L R A R Y T Y V F T T G G G I G
UniRef90_Q1QK74 G S E V I A H T L A N D D V S L I Q S S I R E Q L H Q G G A E M V L V S G G M S
UniRef90_V4ZPH0 G I D L R E A R V V S D D E A A I V E A V N A L S Q A H A Y V F T S G G I G
UniRef90_C6BWC3 E V I G Q T F V S D D P D M T S T A I L K A I D D G A Q M V V V T G G M S
UniRef90_D5BRL0 G I D L R E A R V V P D I E R A T I I N T V R H M S S E Y D L V F T S G G I G
UniRef90_Q16BM4 G I D L R E A R V V S D D E A A I V E A V N A L S Q A H A Y V F T S G G I G
UniRef90_X7FC02 G S T V E M G Q T L T S D D E P A E T A G A I R D F L E Q G A D F I V V T S G G M S
UniRef90_UPI0003B67F01 G A A V E M H V I L L A D D P A E T A V I K A D M L N K E M D V V V T G G M S
UniRef90_G9YG60 G V K V A R V I T I P D E E T I I A E T V G E W S M S F D A V V V T G G L G
UniRef90_E4NLX9 G I Q I R R V V V I P D E V D V I A K E V S E I S K N F A P V V V T S G G V G
UniRef90_UPI000224655C G I D V E R V T T V P D R V A D I A R V V N E H R R A A H D A V V V T G G I G
UniRef90_UPI0004780E66 G I R L D E A R V I P D V A E R I V A T V N D V R D R F D Y V F T T G G I G
UniRef90_A3JRT2 G I D L L E A E V R V V A D E A D N I I S A V K G L S A T Y D N V F T S G G I G
UniRef90_Q8XJG6 I D L E A R Q V I L P D D E K E I I E I K R A L E E G A E L I L C T G G M S
UniRef90_UPI0003DF7D41 K V T V I L D I V D E I A K T I L D F S K E Y S V F T S G G I G
UniRef90_K2GNK4 G V E L A E I R V V H D D P D A I V G A I R A L S D A Y D H V F T S G G I G
UniRef90_M0GT56 G A T V A R I Q T V P D D H D V I A G V S E W S A S F D A V V A T G G L G
UniRef90_U2SVU5 A H R L T D D V I T E H T Q A T I E E L L J A C G M D I L C T G G M S
UniRef90_D2S009 G V V V N G E I R V V P D D A A L I A T A V R E F T D R F D A T I V T G G L G
UniRef90_Q6ING7 G V Q V N K I S V V P D D D L I A G E I A G F S D R Y T Y V L T S G G I G
UniRef90_BONF20 G V E M E D Y A I C D D K P E M I T D A I H K M L D K G M D M I I C T G G M S
UniRef90_UPI00037288EB G A V V L G Q K I V G D D Q K A D I Q A G I R E F L A Q G G A E L I C T G G M S
UniRef90_UPI000400982D G V E L A H I T L C G D R P R D I E S Q L R F L A A E G V D L I I T S G G L G
UniRef90_A0A059N0E7 V T I V K Q E F V D D Q P Q K I T V A I K K M L A Q G V D L I V C T G G M S
UniRef90_J2WXZ4 G Y T V Q F G G T L R D D Q E L I A G S L R K A V F E G Y S D L V I T T G G V G
UniRef90_N9CWR5 V H L E H V I D D E K I L T Q A L S N V M N H Y S D V V I T T G G V S
UniRef90_U1QQK1 G C T V T R V T T V P D D I E V I A A V V N E Y R A A S D A V V V T G G L G
UniRef90_J3F0K2 G V R V R E V T T V P D R L A D I A R V V N E Y N A E Y D A V L V T G G I G
UniRef90_M5G655 G I E V K R I T V V P D E E E D I V E A A R M V S L Y D F V I T S G G I G
UniRef90_F8X023 G F E V E E M Q S I G D N A Q Q L K D T I S D V F Q R V D V V L M T G G L G
UniRef90_D4MAF0 G T L V I G Q R L S G D D V D A E T G F I R E F L E A G A D M V L C T G G M S
UniRef90_UPI00036B741E G S T L V D Q R F A P D D V K A I E E Q Q I H S I R D H L N Q G A D M I L V S G G M S
UniRef90_I4D766 G S V L G Q T F A S D D I S M I Q H S I R D H L N Q G A D M I L V S G G M S
UniRef90_G2I2J0 G I T L S E V R I T P D I R T V I R N V T E T R A A Y D N V F T T G G I G
UniRef90_UPI0004711224 G V R V D E V R I T D K E N K I J D C V N E L R K K F N Y V F T T G G I G
UniRef90_UPI0002486E5D G I T D V H L E H V I D D E D M L T Q A L S N A M N H Y D L V I T T G G V S
UniRef90_UPI0003B7529D G I S V N E V K I I P D I E K I I E N V R L L S K K F N Y L F T T G G I G
UniRef90_UPI00036321A8 G I D L R E V R I V P D V T E A I V A V N A L R L R T R Y D Y V F T T G G I G
UniRef90_M0MKV8 G A T V E R C V V V P D R I E T I A E V I S E L H D R Y D A V L V T G G L G
UniRef90_H0Z188 G V S V A R I S V V P D D V E A I A S E V A A F A A R F T Y V L T S G G I G
UniRef90_A4J865 G A T V I E L A Y A P D D A Q V I A E K I N H A I E K G A D I L V S G G M S
UniRef90_T0NE34 G V N C S R S L V K D D E L Q I L S E F F G Y Y N S T D V F I Y I T G G T G
UniRef90_D8J5F3 G V D V E R V T V P D R I E I A S V S E Y R S E Y D A V I V T G G L G
UniRef90_A0A026WK18 G V R L E R V T V V P D V V E H I A K E I N N V S N O H A I I F T S G G V G
UniRef90_L0JKU4 G S S V E R V L T I P D D R D L I A D T V A R W S D A F D A V I V T G G I G
UniRef90_Q28033 G H K V K K I T I P D D V N L I A E E V R K A S K R A D E F V L V T G G L G
UniRef90_E8JH16 G A Q T F R V A A V P D E R A K L R E T I E D Q L V R A D L V L V T T G G I S
UniRef90_M4BVR6 I E V V S A K V V P D E V D Q I Q A V V K E W P K P S R C Y T R S S Q G S T G
UniRef90_A1HSF3 G T D L L A I V Y K P D D R D A I T A A I L D F K Q Q G A D V V I A T G G M S
UniRef90_UPI000421723C G A P L R E V R I I P D I R E T I I T V T E M K R F G Q V V F T T G G I G
UniRef90_V9HCP1 G C E I V G Q T I I K D N L I E E I K E A I N Y W L I E N G A E M I L C T G G M S
UniRef90_UPI0003F1971F G V Q V C R V S V V P D E V A T I A A E V T S F S S R F T H V L T A G G I G
UniRef90_UPI00035072B3 G V R V A R V S V V P D E V D T I A A E V A A F A S R F T H V L T A G G I G
UniRef90_UPI000443A08A G V Q V C R V S I V P D E V A D I A A E V A A F A S R F T H V L T A G G I G
UniRef90_UPI00042029A2 G C S V T D R G I V P D R A E T V R S A L T M A A A E V D A V V T S G G V S
UniRef90_E7QYK1 G V A V E R V F V V P D R A E V G D I A R V V N E A R A E Y D A V L V T G G L G
UniRef90_V4XPP9 G V T V A R I L S V P D E R E T I A D R V A A Y S D A F D R V I V T G G I G
UniRef90_D1AIG2 G V T N I V Q V F M P D K K E K I T A K I K E L T D D D T D I L C T G G M S
UniRef90_UPI00047AB772 V S T V V V G D R P E D I R A A L E H T R D G G L E L V T S G G L G
UniRef90_UPI000426576E G V K V V Q K T T V G D K R E D I L A A F E A A E K R A D L V L I T G G L G
UniRef90_X1GUW1 G I D L R E A R V V P D D P E A I V A V N A L R R E R Y D E V F T S G G I G
UniRef90_Q2CD40 G V K L S Q I A V L P D D K N L I A E H V A L F S S K F D V V I T S G G I G
UniRef90_E4XDL2 G I S V I K H I T G D G D T K V A G A I A C A R K E N P D L I L C T G G M S
UniRef90_F5YPB4 G I P L R E L R V I P D I R E T I I N T V T E M R A K Y D E V F T T G G I G
UniRef90_F1YT74 G I A T H E M L S I S D D K Q H I L D T F Y S L I Q N K V N V V I V T G G I G
UniRef90_UPI00047AA772 G I D L K E V R I V G D E P H F I A D T L N T L R R S Y D Y V F T S G G I G
UniRef90_Q1YL19 G V D V A H V C I C G D R R E D L A Q L K F L T D Q D V D L I V T S G G L G
UniRef90_V6ZL14 G I P V R E S R T V P D I E D E I V E A V N Q L R A K Y T Y V F T T G G I G
UniRef90_A0A059FKG7 G V E L W E M L S V S D D K Q H I L D T F K E L I Q N K V D L V I T T G G L G
UniRef90_UPI00047B5EFE UniRef90_E6LYI7 G I N V H H H A V V G D N L R R V E E Q F R I S G N R A D V V I V T G G L G
UniRef90_UPI0002628403 G V R V E R V S V I H D D L S V I A E E V A S F S K R Y T H V I T S G G I G
UniRef90_W4YSG1 G S E V I N Q V I L P D S K E R I I E E I K N G L S E N V D M I C T G G M S
UniRef90_V9H3C9 G V D V E R V V T L P D R V A D I A R I V N E Y R A A Y D A V L V T G G L G
UniRef90_MOCR11

UniRef90_UPI0003B41C77 V G P R D K T P E A T A A V L D K Q L P G V A Q A L R S S G Q A C G A V D C V S 90 100 110 120

UniRef90_X0YK45 V D P D D L T P G A I R E S G A K V V T Y G V P V V Q P G N

UniRef90_D6ZFL1 V S D D R D V T P E A T L E L L D L Q L P G I E Q A L R A S G L S A G S V E G I S

UniRef90_V7I3L2 V D P D D V T P S A I R S T G A E V V T Y G S P V L P G A M F L L S

UniRef90_U1H834 P T H D D I T A D S V A K A F G V D I H H H P E R F R E R W S E Q D L N E A R L

UniRef90_D4GZR6 G T P D D I T M E A V A A G L D R A F V V N E E T A A Q V E S T I A A L L E R R

UniRef90_M9MKK9 P T H D D I T M E A C I A K A M G V P L L R H E P T F Q K L E A L M G K E K F N A

UniRef90_Q18IK2 S T P D D V T V D A V A D A F D R N L V I S E Q A R A D V I E T L E A L S D T V

UniRef90_UPI0003655110 V S P T D D R T P E A T A P V L D A E L P G L A D A L R E A G R D A V P T A V L S

UniRef90_MOHE70 P T H D D I T M D A V A A A F G R E L P H E E A A T W L E T N G G Y S D L V K

UniRef90_UPI000373D433 P T H D D I T A D A I A T A F G V G L E I D Q R A V A M L R Q R Y P E M D L T P

UniRef90_H1PP21 V D P D D V T P S A I R C A A E R V V S Y G A P V L P G A M F

UniRef90_U2W4D1 V D P D D R T P Y S I R C A A E R V V S Y G A P V L P G A M F

UniRef90_E6VWY5 V D P D D V T R T A L V D A G L R D A L Y G V P M L P G T

UniRef90_B8J4K6 V D P D D V T R Q

UniRef90_UPI0003EAF887 P T H D D V T F E A V A Q A F G K P H P K L E A A T K A L G G E G W E K L S L V

UniRef90_Q1QK74 P T H D D I T A D S V A K A F G V G I D H R P E V V E R F K E R Y K K P G E L N

UniRef90_J7IN13 V D P D D V T P T A I K E M G A E L I T Y G A P V L P G A M F L L A Y I G

UniRef90_V4ZPH0 V T P D D V T V G A V R P L F D R D L P G F G E Q F R S I E T V G P H A M L S

UniRef90_C6BWC3 V D P D D Q T P A S I R A T G A E T V T Y G S P T F P G V M F M I

UniRef90_D5BRL0 P T H D D I T T E A I A A A F D K P V L R H P D A E A V L L K H Y E F N A A R Q

UniRef90_Q16BM4 P T H D D I T A D C I A E A F D R T I D V R A D A R A L L E A H Y A K N A A R L

UniRef90_X7FC02 P T H D D I T A D S I A R A F G V P I D V R E D A R A L M E A H Y E M N E A R L

UniRef90_UPI0003B67F01 V D P D D R T P T A I R A S G A E V V S Y G A P V Y P G A M F L L

UniRef90_G9YG60 V D P D D R T P A A I R N T G T R I V F Y G A P V L P G A M F

UniRef90_E4NLX9 G T P D D L T M P G V A A G L D R T I D R I L E R K P D I E F D L K V E W Y A S

UniRef90_UPI000224655C P T H D D V T Y E G V K A F P D Q P E A K R M A V V P C P C E L D V S Y K R Q G S

UniRef90_V4XX36 P T H D D I T M E G V A A A V G R D V V E H E A A L S W L T G D D G S H D D L

UniRef90_UPI0004780E66 P T H D D I T S Q C I A D A F A V P L I L H P E A H R L M L D F Y G Q E Q L T E

UniRef90_A3JRT2 P T H D D I T A D C I A A A F D T H I D V R L L A D M Y E K T G R E F V N A A R M

UniRef90_Q8XJG6 V D P D D V T P T A I K E C G G E L I T Y G S P V L P G A

UniRef90_UPI0003DF7D41 P T H D D V T Y E A I A K G L G L K L E Q H E E L V D I Y L N L F P N H Y V Y S

UniRef90_K2GNK4 P T H D D I T A D A V A A A F G V P I D V R D D A R A L L Q A H Y E L N E A R L

UniRef90_M0GT56 G T P D D L T M E A V A A G L S R E F A E R V E A T I D A I L E R R P D I D F D

UniRef90_U2SVU5 V D P D D R T P A A I R A A G V D I V T Y G A P V L P G A M F L L G Y A E R E G

UniRef90_D2S009 S T P D D V T L F E G V A R A F D V S L E R D D E V R D I R D E Y P Q F E F D L E

UniRef90_Q6ING7 P T H D D V T F E G V A K A F G E K T F P H P E L V S L V Q T F F G K S E S W S

UniRef90_BONF20 V D P D D R T P L A I K N V A E D I V T Y G A P V L P G A M F

UniRef90_UPI00037288EB V D P D D R T P G A I H E L A T E V V A Y G M P I L P G S

UniRef90_UPI000400982D P T A D D L T V E T V A R F C G R

UniRef90_A0A059N0E7 V D P D D L T P L A I K Q T G A E I V T H G T P V L P G S

UniRef90_J2WXZ4 A E S K Y D C T V E A V L D L D T H A A T P Y I C T F T K G H G R H V K D G V

UniRef90_N9CWR5 V G D Y D L I R P V S M A L G A K E I F W Q V A Q K P G K P L Y F

UniRef90_U1QQK1 P T H D D R T M A V S A A A V G R E L E H H P E A E A W L T N D G G Y D D L D A

UniRef90_J3F0K2 P T H D D I T M D A V A A A F G R E V A E H P D A W F D D H D G Y S G T D L A E

UniRef90_M5G655 P T H D D I T Y Q S L A K A F Q Q D L V H D Q E C I R R M T E F S K G R Y D L V S

UniRef90_F8X023 P T K D D L T K K T L C E Y F D T T L D A V L D N I R N V I S N F T S L N E L T

UniRef90_D4MAF0 V D P D D R T P L A I R T A S D H V I S Y G A P V L P G A

UniRef90_UPI00036B741E V D P D D R T P G A I A G V I G A E V V R Y G T P M L P G S

UniRef90_I4D766 V D P D D V T P T A I K E M

UniRef90_G2I2J0 P T H D D I T S A C V A E S F G V P W V H H P E T F R L L E A H F A P D A F N A

UniRef90_UPI0004711224 P T H D D I T A E S I S K A F N L N Y E L H H E A F N L L E K Y Y K F N K G R Q

UniRef90_UPI0002486E5D V G D Y D L I R P I S M T L G A K E I F W Q V A Q K P G K P L Y F A

UniRef90_UPI0003B7529D P T H D D I T A Q S I A K A F K V Y E F H Q E A Y E L L E K Y Y G K N F R K

UniRef90_UPI00036321A8 P T H D D I T A D A M A A A F G V E I P R A I E L L L Q F I K P E N L N E A R R

UniRef90_M0MKV8 P T H D D L T M D A V A R A F D R E L E E S D E A I E W L A E H G G Y E R D L A

UniRef90_H0Z188 P T H D D V T F E A V A K A F G E R V V L H P E L V A L V R E F F G K T E M K S

UniRef90_A4J865 V D P D D V T P L G I R K S G A E I I K Y G A P A L P G A M

UniRef90_T0NE34 V S R L D Q T S M A I R K I A E K E M P G F G Q L F R E K S G G I F P Y L S

UniRef90_D8J5F3 P T H D D L T M E G V A A A L D R G I E R N E E A L S W L T E E G G Y A R E T A

UniRef90_A0A026WK18 P T H D D V T Y E A V A K A F G L K L E L H E E L L D I Y A R L I P D K Q E I K

UniRef90_L0JKU4 G T P D D V T V E A V A D G L E R E F V V H G E I R E R L V I E K A A F R D E N

UniRef90_O28033 A T H G D V T A E G I A R A F N R K L V I S K E V Y E W L S K L S K N E A V R

UniRef90_E8JH16 Y G S D D T V R E V L G S L G T V R F D N V A A W P G H I L G V G T

UniRef90_M4BVR6 Q R N S R V S Y K

UniRef90_A1HSF3 V D P D D V T P E A I R A A G A A V V S Y G S P V L P G A

UniRef90_UPI000421723C P T H D D I T A A C I A E A F G T T L E L H Q D T A A R M E A H Y G V D Q F R H

UniRef90_V9HCP1 V D A D D L T P K A I R E I G A E I V S Y G T P I F P G A

UniRef90_UPI0003F1971F P T H D D V T F E A V A Q A F G D E L K P H P E L E A A I R A L L G G K G F E K A

UniRef90_UPI00035072B3 P T H D D V T F E A V A K A F G K V A P H P E L V A L V R E F F G K T D M Q C

UniRef90_UPI000443A08A P T H D D V T F E A V A Q A F G E E L K P N P E L Q A A V R A L G G Q G L D K L

UniRef90_UPI00042029A2 V G E E D H V K A L E A A G G R L H Q W R L A I K P G K

UniRef90_E7QYK1 P T H D D L T M E G I A A A V G V P V E E H T E A V E W L H S D Y S H A D L T S

UniRef90_V4XPP9 G T P D D V T M E A V A D A F G R D V E E R L R Q I A T R L P D R E L N V D V D

UniRef90_D1AIG2 I D P D D V T P D A I K E S G C E M V T Y G T P V L P G A

UniRef90_UPI00047AB772 P T E D D L T A Q V I G E F A A R P I A L D P E L E G R I W K I I E P M S

UniRef90_UPI000426576E P T Q D D L T K A E Y F H C P I K E V P E A V E A I T A F F K R R G R E M T P L

UniRef90_X1GUW1 V D P D D L T P G A I R E S G A K V V T Y G A P V I Q P G N

UniRef90_Q2CD40 P T H D D I T A E C I A R A F G V G I D V R D A R Q L L A E H Y A R T E A R L

UniRef90_E4XDL2 P T H D D L T F E S V A Q S F D E V A I D S E L R K L V R K I F G D V A D D S

UniRef90_F5YPB4 V D P D D N T P G A I R Q S G A A V S Y G A P V M P G V M F V L G G Y E

UniRef90_F1YT74 P T H D D I T A C V A E A F G V P W E F H P P T F K L L E T Y F G P E E F N A

UniRef90_UPI00047AA772 P T K D D I T K K T F C D Y F D D E L I E N E A V L T H V K S I I E G F Y K R P

UniRef90_Q1YL19 P T H D D L T A D A V A A A F G L P I G E H P E A V E L L A D Y Y E F T D A R R

UniRef90_V6ZL14 P T A D D M T L P T V A E A F G T L I F D G V L E A A L M D R L R P M A N R W

UniRef90_A0A059FKG7 P T H D D I T A D A I A K A F G V G L S E H P V E A E R Y A A M G T E Y T P A R R

UniRef90_UPI00047B5EFE P T K D D V T K K T F C D Y F E

UniRef90_E6LY17 V S A R N I V P E T T Q A V I C D V E L P G I A E Q I R A V G L K N T P Q S V L S

UniRef90_UPI0002628403 P T E D D L T R E A F Q Q I T G M E I V I E H E P A M K C F Q K Q K T A M T P N N

UniRef90_W4YSG1 P T H D D V T F E G V A K A F G E I V P H P E L V K L C K D Y F G A N S S L L

UniRef90_V9H3C9 V D P D D V T P T A I K E C G G E L V T Y G S P V L P G A

UniRef90_MOCR11 P T H D D L T M D G V A A A F G H E V V E S D E A L E W L A E E G G Y D D L A E

UniRef90_UPI0003B41C77 R G V S G I S G S T V V V N L A P S R A A L R D G M A T L P P L V H F L I T E L
UniRef90_X0YK45 M F M L A Y L G K T A L I G I P G A S L S Y K N T L D L V L P R I
UniRef90_D6ZFL1 R G V A G V S G S T L V V N L A G T R A A L R D G M A T L I P L A A N V I H Q L
UniRef90_V7I3L2 Y Y Y N G N I P V V N L A G T V M Y E R R S F D L I L P R I
UniRef90_U1H834 R M A R V P D G A E L I I V M A G I P T I M Q A M M D I V A P T L K S G V R M L
UniRef90_D4GZR6 P Y A S M P A D A E V L P N E E G L A P G C R A G N V Y V L P G I P
UniRef90_M9MK9 R M A M L P E G S T P I E N A I S A A P G F S I G N V H V M A G V P S I F A A M
UniRef90_Q18IK2 P N I D V D I D A R P L L N T E G L A P G C V V E N V Y V L P G I P S E L K T M
UniRef90_UPI0003655110 R G L A G V A G R A
UniRef90_MOHE70 G T T D L P A G A R M L P N E A G V A P G A V V G S V Y V L P G V P
UniRef90_UPI000373D433 R M A R I P H G A E L I E N T V I S G A P G F Q I G N V F V M A G V P K I M Q G M
UniRef90_H1PP21 M F L L S Y L G D V I V M G L P G C V M A K R T I F D L V L P R V
UniRef90_U2W4D1 M L A Y T K D E I P I L G L P G C V M Y A R T I F D L V L P R L
UniRef90_E6VWY5 M T L V G R L G S A Q I L G V P A C A L F Y K T T L D V I L P R L
UniRef90_B8J4K6
UniRef90_UPI0003EAF887 P S S A R L H Y G T P C T G Q P F R F P L V S V R N V Y L F P G I P E L L R
UniRef90_Q1QK74 R M T R I P D G A E L T Q S A T I L A P G F R I G N V I V M A G V P S I M Q A M
UniRef90_J7IN13 K I P I M G L P G C V M Y S K T A F D L I A P R L
UniRef90_V4ZPH0 R A T A G V A G A V P V F C L P G S R Q A A E F G T E L V L P V V A H L V G L
UniRef90_C6BWC3 G Y L N G V P I V G L P G C V M Y R A S F D L I V P R I
UniRef90_D5BRL0 K M A D I P M D A D L I D N P L S A A P G F I L H N V H V L P G V P S I L Q A M
UniRef90_Q16BM4 R M A R I P E G G V L I D N P V S A A P G F I L V E N V Y V M A G V P S V F R A M
UniRef90_X7FC02 R M A R I P D G A T L I V N A V S A A P G F T L E N V H V M A G V P S V F R A M
UniRef90_UPI0003B67F01 A Y A Q G A G R V P V L G L P G C V M Y H K A S F D L V L P R L L A G I E
UniRef90_G9YG60 L L S Y T D D N R P V V G L P G C V M Y A R T I F D L V L P S L
UniRef90_E4NLX9 M P A G A T P I P N P E G L A P G C V A E N V Y V L P G I P
UniRef90_UPI000224655C D G E Y S V I K A N N V Y L P G S P R Y F R A G V D A I V P G L
UniRef90_V4XX36 A E G T A D I G A R F L E N D A G V A P G A V V E S V Y V L P G V P
UniRef90_UPI0004780E66 R M A H V P E G A E L V E N D I S I A P G Y R M G N V F V M A G V P K I M Q S M
UniRef90_A3JRT2 R M A R I P D G A T L I D N P V S T A P G F T L K N V H V M A G V P S V F E A M
UniRef90_Q8XJG6 M L L L A Y N D V P I I G I P S C A M Y S R T A L D L V L P R V
UniRef90_UPI0003DF7D41 P K K Y A I V K V K N I Y I L P G S P K Y F E L S I D T I I P Q L K
UniRef90_K2GNK4 R M A R I P E G A T L I E N P V S A A P G F S L R N V H V M A G V P Q I F A A M
UniRef90_M0GT56 L D V A W Y A G A E V L P N D E G L A P G C R A G N V Y V L P G I
UniRef90_U2SVU5 R Q V T V M G L P G C V M F D K A T I F D I L P R A I A
UniRef90_D2S009 E A A R Y P S E G R I V P N E E G L A P G W V I A N V Y I V P G L
UniRef90_Q6ING7 R L N Y G T D K R T G D C F K Y P L V S V G N V Y V F P G I P S L L E
UniRef90_BONF20 M L A Y Y D G D I P I M G L P G C V M Y A R T I F D L V L P R V
UniRef90_UPI00037288EB M T M L A Y I G E V P V F G L P G A V I Y E E T A F D L F L P R I
UniRef90_UPI000400982D
UniRef90_A0A059N0E7 M F L L A Y K G E Q T I I G L P G G V F S E K T V F D L L L P R L
UniRef90_J2WXZ4 R I A V G E F D D A L I I S L P G P N D E V R S S M P L V M E S T L
UniRef90_N9CWR5 A E Y Q T D F H H A Y L I G L P G N P A A V L T C L A V H V S T L L A A L
UniRef90_U1QQK1 G T T D L P A G A R M L P N E V I G V A P G A V I E S I Y V L P G V P
UniRef90_J3F0K2 G T T H L P T G S R M L N E E G V A P G C V V G G V Y V L P G V P
UniRef90_M5G655 K Q T E E Q K T A R L M A L F P S G E V L F C N E C I F P G I P R L F N E M
UniRef90_F8X023 R N Q A V P R N C T V I Q N K V I G T A P I T K D K V L V S M P G V P H
UniRef90_D4MAF0 M F M L A Y K G N V P I V G L P G C V M Y A R T I F D L I L P R L
UniRef90_UPI00036B741E M L M I A Y K G E V P I L G L P G A V M E T F T S F D V F L P R I
UniRef90_I4D766
UniRef90_G2I2J0 R M A T M P Q G A T P I R N M A G V P R I M R A M F E E V L P T L P H G
UniRef90_UPI0004711224 K M A M M P S K A L I Y N P T S G A P G F S V E N V F C L P G V P S I L Q S M
UniRef90_UPI0002486E5D E Y Q Q D D H H A Y L I G L P G N P A A V L T C L A V H V S T L M A A L Q G I
UniRef90_UPI0003B7529D K M A K M P R G A K L I Y N P S S A A P G F M T K N V L S L P G V P S I L N S M
UniRef90_UPI00036321A8 R M A R I P R G A D L V M N R V S A A P G F W I E N V I S V M A G V P S V V Q A M
UniRef90_M0MKV8 A G T A D L P T G A R V L N E A G V A P G C V V E S V Y V F P G V P
UniRef90_H0Z188 R L N Y G T D G H T G S T F K Y P L V S V R N V Y I F P G I P A L M E
UniRef90_A4J865 F L M A Y K D G V A V L G I P A C G M Y F R T L D L V L P R L
UniRef90_T0NE34 D A S L F I Y R K K I I F T L P G S E D A Q G I A Y S I I S E I V P H L F H E I
UniRef90_D8J5F3 G T A D L P A G A R K L H N E A G V A P G A A L E G V Y V L P G V P
UniRef90_A0A026WK18 R L A V A P S S C R V I Y V L P G S P K Y F E P A D A I I P R L
UniRef90_L0JKU4 P D L V E E Y G A T P I V I D E G W A P G C I V E N V Y V F A G I P
UniRef90_Q28033 K I S S V P E G S E I V W N D V I G A A P A F I V E N V A V M P G V P
UniRef90_E8JH16 V G G E D G G T P I F C L P G D P V S A Q V C F E F V R P A L R H
UniRef90_M4BVR6
UniRef90_A1HSF3 M F M L A Y L D D T A V I G M P A C G M Y A K T T F D L V F P R I
UniRef90_UPI000421723C R M A M L P K G A T P I I N K A S V A P G F T I G N V H V M A G V P S I M Q S M
UniRef90_V9HCP1 M F L I S Y K G N I P I L G L P G G V I F S K T T F D V I L P R V
UniRef90_UPI0003F1971F R L H Y G T D P H T G R P F K F P L V S V R N V Y L F P G I P E L L R
UniRef90_UPI00035072B3 P E M
UniRef90_UPI000443A08A A V V P A H Y G T D P R T G Q S F R F P L V S V H N V Y L F P G I P E L L R
UniRef90_UPI00042029A2 P V A L G Q I G G V P L L G L P G N P V A A M V T F L L V A P L L L H L
UniRef90_E7QYK1 G T T H L P K G S R M L P N D V G V A P G A E I E D I Y V L P G V P
UniRef90_V4XPP9 A E A A L P E E S R P L L N D A G L A P G C V L E N V Y V L P G I P E E L K A M
UniRef90_D1AIG2 M F L L G Y V K E K V I M G L P G G V V F S K N S F D L L L P R I
UniRef90_UPI00047AB772 R R W K G I S Q D A V R E A N R K Q A L V P E G A E I L
UniRef90_UPI000426576E N V L Q G H R N G T Y W M S M P G V P H E M K L V K D F V L P K L P T L F D L
UniRef90_X1GUW1 M F M T A Y L G N T V L L G V P G C A M Y R T T L D V V L P R I
UniRef90_Q2CD40 R M A R I P E G A R L I D N P I S V A P G F T I G N V H V M A G V P S I F E A M
UniRef90_E4XDL2 P H M K L C R S S K L L F G T P F R Y P I V I T V N N V Y V L P G I P S L F E
UniRef90_F5YPB4 D G R P I I G L P G C V M A A A T I F D L V L P R V A A G L P G M
UniRef90_F1YT74 R M A K L P Q G A I P I V N P V S I A P G F S I G N V H V M A G V P R I M R G M
UniRef90_UPI00047AA772 E Q A L V P T K A K V L F N Q A G T A P G M K E N T V F I L P G V P Y E M K Y L
UniRef90_Q1YL19 R M T R T P E G A T L I D N P V S K A P G F R V D N V F V M A G V P Q I E Q A M
UniRef90_V6ZL14 E N V V I G I E A Q A L V P A R P G A I M S A G D V I V V L P G P H E L Q R M
UniRef90_A0A059FKG7 R M A R I P H G A S V V A N P V I S G A P G F Q T G N V F T L A G V P Q V A R A M
UniRef90_UPI00047B5EFE
UniRef90_E6LY17 R A V V G V T S R T V I V N C P S S S G G V S D A L Q V V L P L L H Y I I E Q L
UniRef90_UPI0002628403 R K Q A V F A G S D V I E N N T G M A S G M S L S Y E F F L P G V P R E M K Q M
UniRef90_W4YSG1 K M A L V P K S S T L T E N L K T G Q K M I S V K N V Y I F P G I P K L L E
UniRef90_V9H3C9 M F L L A Y Y K D I P I L G V P S C A M Y S R T V L D L V L P R I
UniRef90_MOCR11 G T A D I P R G A R I L L K N P E G V A P G C V I G S V Y V L P G V P

UniRef90_UPI0003B41C77 Q
UniRef90_X0YK45
UniRef90_D6ZFL1 S
UniRef90_V7I3L2
UniRef90_U1H834 S
UniRef90_D4GZR6
UniRef90_M9MKK9
UniRef90_Q18IK2
UniRef90_UPI0003655110
UniRef90_M0HE70
UniRef90_UPI000373D433
UniRef90_H1PP21
UniRef90_U2W4D1
UniRef90_E6VWY5
UniRef90_B8J4K6
UniRef90_UPI0003EAF887
UniRef90_Q1QK74
UniRef90_J7IN13
UniRef90_V4ZPH0
UniRef90_C6BWC3
UniRef90_D5BRL0
UniRef90_Q16BM4
UniRef90_X7FC02
UniRef90_UPI0003B67F01
UniRef90_G9YG60
UniRef90_E4NLX9
UniRef90_UPI000224655C
UniRef90_V4XX36
UniRef90_UPI0004780E66
UniRef90_A3JRT2
UniRef90_Q8XJG6
UniRef90_UPI0003DF7D41
UniRef90_K2GNK4
UniRef90_M0GT56
UniRef90_U2SVU5
UniRef90_D2S009
UniRef90_Q6ING7
UniRef90_BONF20
UniRef90_UPI00037288EB
UniRef90_UPI000400982D
UniRef90_A0A059N0E7
UniRef90_J2WXZ4
UniRef90_N9CWR5
UniRef90_U1QQK1
UniRef90_J3F0K2
UniRef90_M5G655
UniRef90_F8X023
UniRef90_D4MAF0
UniRef90_UPI00036B741E
UniRef90_I4D766
UniRef90_G2I2J0
UniRef90_UPI0004711224
UniRef90_UPI0002486E5D
UniRef90_UPI0003B7529D
UniRef90_UPI00036321A8
UniRef90_M0MKV8
UniRef90_H0Z188
UniRef90_A4J865
UniRef90_T0NE34
UniRef90_D8J5F3
UniRef90_A0A026WK18
UniRef90_L0JKU4
UniRef90_Q28033
UniRef90_E8JH16
UniRef90_M4BVR6
UniRef90_A1HSF3
UniRef90_UPI000421723C
UniRef90_V9HCP1
UniRef90_UPI0003F1971F
UniRef90_UPI00035072B3
UniRef90_UPI000443A08A
UniRef90_UPI00042029A2
UniRef90_E7QYK1
UniRef90_V4XPP9
UniRef90_D1AIG2
UniRef90_UPI00047AB772 E
UniRef90_UPI000426576E
UniRef90_X1GUW1
UniRef90_Q2CD40
UniRef90_E4XDL2
UniRef90_F5YPB4
UniRef90_F1YT74
UniRef90_UPI00047AA772
UniRef90_Q1YL19
UniRef90_V6ZL14
UniRef90_A0A059FKG7
UniRef90_UPI00047B5EFE
UniRef90_E6LYI7
UniRef90_UPI0002628403
UniRef90_W4YSG1
UniRef90_V9H3C9
UniRef90_M0CR11

1 10 20 30 40

UniRef90_UPI000346FA0E K L R V A V F S T G D E L L A A G Q I Y D T N R F A V H L M L D A L L

UniRef90_UPI000407B061 L K I R L I T T G N E V Y K G L I Q D R F Q A I V R E K V T R L L

UniRef90_Q5JGM9 K P K V A V I S T G N E I L P G K I Y D I N G R A I T D A V R E E

UniRef90_B2GCL9 Q P R I A I I A T G T E L L A G K I Y N S N G P M L K R L V E E T

UniRef90_UPI0002493459 R V A A V L S I G D E L L S G E V V D T N A S H I A D R L F Q A

UniRef90_B5ED03 P N P T A A M L V I G D E L L S G E V V D T N A S H I A D R L F Q A

UniRef90_Q28VR2 R R R A M V L V A D H G I G S G P D T G A L L A E L L L E A N F D V D

UniRef90_UPI000381AA0D R L R V A G I V M S T G D E I L A S G E V Y D S N G Y T L H G V L T R L

UniRef90_C4ZP89 G A R V T A G I V A T G S E L L A G R V R D A N G P W I A E R L T R L G R L

UniRef90_UPI0004779C80 Q V T A A V L V I G D E I L S G R T K D K N G I G Y L A E Y L T A

UniRef90_B8IQV0 K T A I I T L G D E I L I G Q I V D T N T A W M A Q K L T N A

UniRef90_UPI0004242FAA P R V A I L S T G D E L L C H G R L V D T N A P S L A L A V R R A

UniRef90_Q1D4N6 V T A A L I T I G N E I L S G R T Q D A N L Q Y I A K G L G D I

UniRef90_B3TB73 A E I L T I G T E I L L G D I V D T N S A W I S G R L A D L

UniRef90_A0A023X020 A A I L V I G N E I L L G R T R D A N I Q F L A T E L L G A L

UniRef90_S9TLF6 E L S I G V L S T G D E V M P G Q L Y D T N R P M L K A M V T K D

UniRef90_Q4PNH5 P S L A V L I T G D E V S Q S L D N D A N S S P M I L T W L H E R

UniRef90_UPI0002E0A28B T A A L L I I G D E I L K G Q T Q D T N S S F L S K S L H D L

UniRef90_H2YMQ1 A A C L I I G D E V L N G K T H D S N S N F L A K Q L F D L

UniRef90_G7EAR6 R Y G V V T T G S E V Y K N R I Q D A F T P V I E R K L S E Y G C T M M

UniRef90_R5AK78 K A E I I T I G T E L L L G Q I V D T N S Q W I G Q K L A E

UniRef90_UPI00036D3FED I T A A I L V I G N E I L S G Y T K D E N I E Y I A K N L M E R

UniRef90_K7YIR9 G G G V T A A L I I G D E I L K G H T M D T N S A F L C R G L R K L

UniRef90_W5LAG4 T A A G C L I I G D E I L N G K T L D R N S S N Y F A R F C F E N

UniRef90_S7PVZ4 K V G V L V T G T E I F R G L V D D K F I P I I R N K V E K L

UniRef90_D8FFG6 I G V I I T I G D E I L S G R R T D K H L P K I I E L L G A R G L S L D

UniRef90_G8M751 K A T L V T I G D E I L S G Q I I D T N S G F I A K A L D K I V

UniRef90_V6S6M3 P T A S M I V I G D E I L S G R T R D S N M H H L A K E L T K

UniRef90_D0DBC7 K A A L L V I G N E I M G G V T R D E N G H F L I Q E L R K L G L

UniRef90_L1IH81 L R V A L L S T G D E L L A P G E I Y D S N R I G L A A M L S R L

UniRef90_H2FWH7 K A T I L T I G D E I L I G Q I V D T N S V S I A K H L N T A D L V I

UniRef90_K1VBJ9 I K A E I I A I G D E I L L Y G Q I V D T N S H W I S Q E L S K

UniRef90_UPI00040013CC A E I I T I G D E I L L I G Q I V D T N S A F I A K E L S K A A A

UniRef90_UPI00047B67A8 A E I I A I G S E L L L G V T I D T N S A Y L A R Q L A A A

UniRef90_A9WJE6 A A L V T V I G D E I L S G D T E N T A T W L C A G R L A D R

UniRef90_B9LPK6 P T A A M L V I G D E I L S G R T R D A N M Y F L A G E L T K H

UniRef90_B7QYN3 V R A E V I T I G D E I L F G Q I T D T N T Q W I S T E L T N L

UniRef90_UPI00035CBC3C T A S L I V V G D E I L R G Q I I D T N T S Y L A K N L T A A

UniRef90_F4WNNK6 R P R V A I F S T G D E V C Q G G E I Y D S N R F T I K S M V R K L

UniRef90_A8FPG0 N F G L I T I G D E I L S G R R Q D K H M V K V I E L L A A R

UniRef90_UPI00034A435C K P R I A L I S T G S E I A D P A M Q D N P D M I N S Q M A K I F F Q Q L

UniRef90_V2PWR9 T A A L I A T G S E V Q K G L I E D K F T P V V E S K L A A F Y L

UniRef90_K8W9A3 P T A Y I T V G N E L L I G R V V N T N A A W L A S K L T

UniRef90_A3MS85 T A C F L V I G N E V L S G R T R D S N T Q T L A H A L N A Q

UniRef90_UPI000367667D K V G I I T T G S E V Q K G L I K D T F T P V L K E K L D E F S C Q I L

UniRef90_R7D9R8 L K V G I T T G D E L T K G Q I Y N S N G P M L Q A L V E K L

UniRef90_A3Y5R7 P A P T A A L L I I G D E V L S G R T K D A N L S H L G T Q L S E M G I R M M

UniRef90_K2KMS3 A E I I T I G D E I L L I G Q I I D S N S A F I G K E L N K

UniRef90_UPI000423BP59 P R P R V V I S I G D E A R P G A V F D A N G H A L A T A L S D A

UniRef90_S2VZW5 V T A A C C I I G D E I L S G K T K D T N S H Y L A T M L F G L

UniRef90_S2IXV6 T A A L I I G D E I L K G H T V D T N S G F L L R A L R Q L

UniRef90_G3PEE7 I G L I I I G D E I M S G K R S D Q H F P N V V Q I L K E R G L G L D

UniRef90_C3X1C2 V R I G V L S T G N E I L Q S G K I P D V N R P L L S Q L S S Y G

UniRef90_W8W049 K A T I T I G D E I L I G Q I V D S N S A W M G S A L N K

UniRef90_B8C340 P K I A V V T T G D E V A S G K I F D A N A P L I Q A W F Q S R N Q Q

UniRef90_N8UHY0 R L R I A L L S T G D E L A P G Q I H D S N R V M L Q A A L L Q A

UniRef90_UPI00040B74C2 K I G L I I I G D E L L S G L R Q D K H M A T I I G F L K A R G L

UniRef90_I3BWN0 N A E I I T I G D E I L I G Q I V D T N S A Y I A Q E L N K I

UniRef90_I0WGR1 K P K V A I L S T G S E L V A G K I Y N S N E P L I V S L A E E Y

UniRef90_W7B267 G P R I A V V V S G D E I A S G K V F D A N T P L I M S W L Q G V G R D

UniRef90_V2V1A6 R L K V A V L S T G S E V T P G T I I N S T K P M L I S L L R Q D

UniRef90_D9Q2T3 K P R L G I L S T G D E V T K G K I Y D S N R I T I S I R L L D F

UniRef90_UPI00036B3B9D K L R V A I F S T G D E L A V G Q I Y D T N R F A I S L M L H K L

UniRef90_UPI0003B5083E K A S V I T T G T E V Y E G R L K D K F L P K I R R K L A N F

UniRef90_UPI00036B5083E P T A A M I V I G D E I L S G R T R D S N L H H L A G K L T D H

UniRef90_A0A059INF7 T A A C L I I G D E V L G K T V D T N S S L F A K Y C F S I

UniRef90_J3KHJ7 R A I V E A S G A E V I A G K I K D T N S P Y I L A A L E R N G Y Q A R

UniRef90_Q2RHL0 K A A V I T T G N E V F Y G R I K D G F T P V I E K K I N E F G V E M A

UniRef90_R5RK70 K P R A W I N I G N E L L I G R I I N T N A S W I A R E L T L R

UniRef90_A2BM72 K V K V G V F S T G D E V A P G V E Q D S N R F T I G M L Q K L

UniRef90_B7VNU0 K V K V G V F S T G D E V V T G R T P D S N G V A V A G L V R A L G A E

UniRef90_A7HD38 Q L K V G I T T G D E R L G S Q I F N S N A P M L T A L F H T L

UniRef90_V8QNC1 R P T A A V L L I G D E L L S G K I R D E N G W F L A S Q L C R R R

UniRef90_V8QNC1 L K V A I F S T G D E V A P G H I F D S N G R F T L M A L I A A A

UniRef90_A6GEL9 L R T G I I T T G S E I Y S G R I S D R F E P V L R S L L K R Y P G E V L

UniRef90_UPI00036FDDFF R L K V A I L S T G D E L T A G K L Y D T N R F T V S L L L E K L N

UniRef90_J4KE42 R R R I G I V I T G T E I Y Q G R K K D L Y H P V I K A K A D R Y

UniRef90_F0QYM5 K V Q I I S I G N E L L N G D T I N T N A S W L G D Y M T S M

UniRef90_UPI00035E903A R W R V A V L S T G D E V A P G Q V Y D S N R V G L A A L L T E A

UniRef90_Q9RY74 E W S A E V I A V G N E L L T G R T V N T N S A F I A A R L T S L

UniRef90_H2C8U8 Q L R V A V L S T G D E A G P G Q I F D A N R P M L L S L I H R L

UniRef90_Q5LX88 R P R V A I L S T G D E L V T P E T P L Q S G Q I V N Q Y A I A A L V Q Q M

UniRef90_UPI000349BF5B R P R V A I L S T G D E I L A G D T V N T N A T W L A T E I H D R

UniRef90_E7QRG4 R V G L L I T G N E V F K G L I K D R F A D V I E A K V T S L

UniRef90_M1WY95 T A A A L M I G D E I L N G K T L D T N S N Y F A K F C F E H

UniRef90_UPI00044186A5 K A T I V T V G D E I L I G Q I I D T N S S F I A K S L D K I

UniRef90_A6GZ17 R L K V A I L S T G D E L V P G Q I Y N S N R F T L M G L L T E A P F

UniRef90_Q0AY63 R V K V S V I S T G D E L V A G Q I R D V N S Y A L A A M L T E F

UniRef90_E4PK65 K I S A A C I I I G D E V L N G K I V D T N S R F F A K L C F S L

UniRef90_Q8GDS0

UniRef90_H2AP42

UniRef90_UPI000346FA0E G C E V L D L G I I 50 K D D P A A L R A A F Q Q A D A R A D V V I S S G G V S
UniRef90_UPI000407B061 G G T L E E S V I L P D D N R R E S L I R S R Q I Q K F L E K D T D L V I I T S G G G S
UniRef90_Q5JGM9 G G V E A L F L G I A R D D D D D D Q I K S L L E E G L E C H C D V V L L S G G G A S
UniRef90_B2GCL9 G G V V D E E V Q L L P D D D D D D Q I K S L L E E A I A S H E H E I V I V L T D G G G V S
UniRef90_UPI0002493459 G H H F L K K Y I V K D D N S E Q I I S A Y N K L I E T D C K L I V L V N G G G T G
UniRef90_B5ED03 G G R V E R H L T V P D D A E A I A S A L T E A E L G A R Y D A V L V T S G G L G
UniRef90_Q28VR2 G I T L S E A R M I S D D H A V I A R H V A E L S G A Y D H V F T S G G L G
UniRef90_UPI000381AA0D G I T T V A S K K S Q I R K A I E T A V V G G T D F V L T V G G T G
UniRef90_C4ZP89 G C E L D L G V V P D R P E E A L E E A F R E A A Q A A D V I T S G G V S
UniRef90_UPI0004779C80 G I D V T E I V L V G D R P E E M A A A L V R S L A E V D L V V T S G G L G
UniRef90_B8IQV0 G I D L R E V R V V P D I A E E I V G A L N A L R T R Y T Y V F T T G G L G
UniRef90_UPI0004242FAA G F D V T E K L S L G D N A R Q I K A L I A D R V E T R Y D V L V T S G G L G
UniRef90_Q1D4N6 G G I P T Q L G I A R D D T R D A V L A L S R L D G F D V V L T S A G G V S
UniRef90_B3TB73 G T R L R E V R V T P D V D E V I V E T A L S R D T C R A S R A Y D V F T T G G L G
UniRef90_A0A023X020 G V S I F R H T T V G D D T P K R I V N A M R E A A S R A D L V T T S G G L G
UniRef90_S9TLF6 G I P L A E V R V V R D D T A D I V A G L D A L R A R Y S Y V F T S G G L G
UniRef90_Q4PNH5 N H F C S D Y G I I I D D K T S L Q E G Y E K A L V I E N N V V I S T T G G A S
UniRef90_UPI0002E0A28B G F H T V H I E H V I D D E V L K K A L A N A L D H Y D L V V T T S G G V S
UniRef90_H2YMQ1 G V V V K K I S V V G D D Q E I A A E V K N F S K L Y D L V L T S G G V S
UniRef90_G7EAR6 G I S L K E I Q V I P D E E E R I T E A A K R M T A S Y D L V V T S G G L G
UniRef90_R5AK78 Q H I D L Y Y K V A V L G D N K E R I L D T L D H S F K R A D L V I C T G G M S
UniRef90_UPI00036D3FED G I R L F E V R L V R D E E L A I E A V T A L A D R Y T Y V F T S G G L G
UniRef90_W5LAG4 G I S V Q R I T V V P D V E R E V I A E E V A R L S P S V T H L I T T S G G L G
UniRef90_S7PVZ4 G I L K R I E V V P D E E D D I V E A S R R M V Q K Y D F V I L T T S G G L G
UniRef90_D8FFG6 G S R V V D A M I A P D E K H A I Q E G I Q R L L N A G A D L I T T A G L S
UniRef90_G8M751 W A D G I V Y E M L S I T D D K Q H I L D T F S K I Q N H S D V V I M T G G L G
UniRef90_V6S6M3 G I D L R E V R M V S D D R E A I V S A V T A L A A E T T H Y V F T S G G L G
UniRef90_D0DBC7 G I D L R E V R M V S D D R E A I V S A V T A L A A E T T H Y V F T S G G L G
UniRef90_L1IH81 D T V E V M I R D D Q N K I A E T V R R L S D S H K Y D L V V T S G G L G
UniRef90_H2FWH7 G V E V T D Y G I I K D D P E L I R K A F L K A A S H H K Y D A L I T S G G V S
UniRef90_K1VBJ9 G I V V R E K I S I G D D R T Q I L D T V S R A L H D S E V I T V I T T G G L G
UniRef90_UPI00040013CC G V K V R K T T V G D D N R T D I L T A F A E A E K R A D L I L I T T G G L G
UniRef90_UPI00047B67A8 G V S V Y Q I T S V G Q D D R D H I L K A F K E A E S N A N I I I T T G G L G
UniRef90_A9WJE6 G V N V Y R K T V V G D N E G R I T A A V R E A L E R A D L V I C T G G L G
UniRef90_B9LPK6 G V T V R R V T V V P D E V A E I A R V V N E S Y Y A E Y D A V L V T S G G L G
UniRef90_B7QYN3 G I D L K R E V R I V S D D E A A I A A V T S L S N S F D H V F T S G G L G
UniRef90_UPI00035CBC3C G I R T V R K T S V S G D G A P A I L E A L H E A S H N R A D L I M T G G L G
UniRef90_F4WNNK6 G I K L Q K V L M V S D S T V D D I A K E I S K A S K Q Y S V V F T S G G V S
UniRef90_A8FPG0 G C E V I D L G I I H H D D R E Q L T V A L R E A F A S G D V V F S C G G I S
UniRef90_UPI00034A435C G H A L A W A R Y I G D D R E Q L T V A L R E A F A S G D V V F S C G G I S
UniRef90_V2PWR9 G A E V S Y I G V V P D D K Q A L L R D T F K S L K N F D M I V T S A G I S
UniRef90_B8W9A3 G I E T V H C A K P G D D M D A L V A I L R K A Q H L G V D M I V C T G G M S
UniRef90_A3MS85 G Y S V R R I V V V P D V E E D I V E A F R E A M A K A D V V I S T G G L G
UniRef90_UPI000367667D G I L L S E V R T L P G D I P Q R I L D A V T E C R A R F D M V F T S G G M S
UniRef90_R7D9R8 G I L L S E V R T L P G D I P Q R I L D A V T E C R A R F D M V F T S G G M S
UniRef90_A3Y5R7 G Y K V A S Y Q H A S D N H D E T E T L A K M A V H C D I L S S G G V S
UniRef90_K2KMS3 E A R V P I D E A R I T E A V N E L R A R Y T Y V F T T G G L G
UniRef90_UPI00023BP59 G I D V H Q I S S V K D D K Q H I L D A I E E A S N R V D L V V I T T G G L G
UniRef90_S2VZW5 G A Q T F R V A A V P D E R A T L R Q T I E D Q L V I S R A D L I I T T G G I S
UniRef90_S2IXV6 G I E L K A I Q V V P D E T H E D I T A K S V R E L S S Q Y D L V F T S G G I G
UniRef90_G3PEE7 G V S V Q R I T V V P D V E Q E V I A K E V A L L S P Q Y T H L I T S G G I G
UniRef90_C3X1C2 W A G D E P E R I V S V L R E T F S G S D I V F C C G G I G
UniRef90_W8W049 G I S V F E I T S I G D D R D H I L S A F A K A E Q Q S D L V L V T T G G L G
UniRef90_B8C340 S C E P V D L G I V G D D D F W G D E S E Q S N T C N G S I D V L I T T G G I S
UniRef90_N8UHY0 G A T V A R V L V V P D D T A V I A D Y V R R W V D E F D A V V T S G G L G
UniRef90_UPI00040B74C2 G F E V L D L G H V Q D D L A L R S R F A D A D R L A D A V I T S G G L G
UniRef90_I3BWN0 Q L A W M R M I G D D W D L L V Q T L R E T L P S K A D I V F S F G G I G
UniRef90_I0WGR1 G V S V Y Q I T S V S D D K S H I L K A L N E A E V N A D I V I T T G G L G
UniRef90_W7B267 G A E V V Y H E A L S D D Y E V T L T R L R E I A G K V D L I V T T G G V S
UniRef90_V2V1A6 G F E P I D M G T V P D D A D M I R S K I S E G L R V A D A I I T T G G T S
UniRef90_UPI00036B3B9D G C E I V S S K I M G D D V D V D S E I L D N L I D K V D A I I T T G G V S
UniRef90_D4GNB0 G C E V I D L G I I K D D P A A L R A A F T E A D R Q A D V V I S T G G V S
UniRef90_UPI0003B5083E G V E V E R S V I L P D D R R I R I R D K F L E F R S D S E F V I I T G G S S
UniRef90_A0A059INF7 G I D L V E A R V I G D R R Q T I I D T V N A L R A R V D H V F T S G G I G
UniRef90_J3KHJ7 G V Q L K R V E V I A D D E D E I I E A V R R M S N R Y D L V V T S G G I G
UniRef90_Q2RHL0 F G G V L E D D L V A A A N R L D E G A L E E G Y G L V I T T G G V G
UniRef90_R5RK70 F H E T F N D D D K K I T K G C L D A V N A G I D I I F C T G G M S
UniRef90_A2BM72 G V D V K R I V V V G D D I A E I V G V L R D A I G N A D L V V T T G G L G
UniRef90_B7VNU0 G C D I V D Y G I E D D E Q K M M D V L H A A S L E T D M V L T S G G V S
UniRef90_A7HD38 G I D V E R R A V E D R L D A V A A A I S D A A R R E C D A V L T S G G V S
UniRef90_V8QNC1 G A Q V S Q V L H A R D D L N A T H E A L N T L F S E C D L V I S V G G V S
UniRef90_A6GEL9 G M E L R E I A V V P D E L D T I G E A L L R L L A L V P T V F T S G G V S
UniRef90_A4SQB4 G C E V M D L G I I P D D P A L R Q Q L E Q A A A N A D L V L T S G G V S
UniRef90_UPI00036FDDFF G V R V C D D D T G M I A A A E E F I A S G A D L L F T T G G M S
UniRef90_J4KE42 C E I L D Y G I S D D P A L F E K T F S E A Q A A S D V L I T S G G V S
UniRef90_F0QYM5 G W E I V Y S T V I P D D E E K I T A I R E A I N N G A A E T V V T G G M S
UniRef90_UPI00035E903A G F E V T E V H T L S D E L E V I K K T I S R S M S E S D L V L C T G G L G
UniRef90_Q9RY74 G Y E V L D L G H A P D S P A A L R R E R L G A A G G A D L L I T S G G V S
UniRef90_H2C8U8 G F Q V R R V T V V G D E V E I R E C F L E A L G R N P K L I I T S G G L G
UniRef90_Q5LX88 G H A P V D L G R V P D D R T T L R A T F D R A A A E A D V I L T S G G A S
UniRef90_UPI000349BF5B G A E A I M L G I V P D E P T A L E E A I A N A L T Q A D L I I S S G G V S
UniRef90_E7QRG4 G G S V R R I T T V P D E E G I E N T V R E W N E S F D A V I V T G G L G
UniRef90_M1WY95 G S T V V A S H I R P D D S S A I A D A A R S L E G A G C D L I V T T A G L S
UniRef90_UPI00044186A5 G I D L V R R I E V I P D D E D D I T E A S R R L V K K Y D E V I T S G G L G
UniRef90_A6GZ17 G I G V H H E M L S T D D K Q H I L Q T L S L L V Q N K V D V V I T G G L G
UniRef90_Q0AY63 G G R F M S Q T I V P D S P E I I A E I H R F I G E A D F I I T G G M S
UniRef90_E4PK65 G C E V L L C E T L R D K R E A T R E T L R R A A E A A D S Q L V I T S G G V S
UniRef90_Q8GDS0 G C D V T P M G I V K D S Y E Q F F T A L R G A E V A T S Q L V I S G G S S
UniRef90_H2AP42 G I K L R E V V V I G D D E S Q I I E T V R R L W K Q H Q F I V T S G I G

UniRef90_UPI000346FA0E V G E A D Y T K Q M L D E L G E 100 110 120 L S F W K L A M K P G K
UniRef90_UPI000407B061 V D P D D V T K E A I E D S G F E Q I H Y S S A V L P G A M
UniRef90_Q5JGM9 G G I R D L T S S I I E E L G R V Y I H G I A L Q P G K
UniRef90_B2GCL9 V G D Y D F L I G D A A R N A D E M L F N K V K Q R P G S
UniRef90_UPI0002493459 I A V R D V T I E T L E P K F V K A I P G F G E F R K I S F D E I G I R A L A S
UniRef90_B5ED03 P T P D D L T A E A A A R A A G T E L E L S S E A L D H L E R F A Q R H P A N R
UniRef90_Q28VR2 P T H D D L T A E A V A D A L G A A C G I R D D A R A L L Q A H Y D K S G Q R L
UniRef90_UPI000381AA0D V G P R D K T P E A T A D V L D Q D V P G V A Q A L R S S G Q A C G V D A T T S
UniRef90_C4ZP89 V G E A D F I R E M M N R M G E V A F W K L A I K P G R
UniRef90_UPI0004779C80 P T A D D L T A A V V A D L T G R P L E L D E H M
UniRef90_B8IQV0 P T H D D I T A D C V
UniRef90_UPI0004242FAA P T K D D L T K K T L C E Y Y G T E L D S V L A N L Q N V V S T W T A L N P L T
UniRef90_Q1D4N6 V G E R D Y V K E V L A E L G V E Q H F W R V A I K P G K
UniRef90_B3TB73 P T H D D I T S A A I A R A F G R R I E R N A Q A V A I M E A Q Y E R N E A R L
UniRef90_A0A023X020 P T S D D L T N E C L A E L A G V R M V E Y P E A R R H I D E K F R K F G R K P
UniRef90_S9TLF6 P T H D D L T S A V A A A F G V E L V R D P E A V R R L A L R H R G D D L N A
UniRef90_Q4PNH5 Q G I E D H T Q E V L T S L G F E V I F W R I A M K P G R
UniRef90_UPI0002E0A28B V G D Y D L I R P V S Q A L G A K E I F W Q V A Q K P G K P I Y F A
UniRef90_H2YMQ1 P T H D D V T L P A I A H A C G E E L F P H P T L V Q L C E K H F G V K A L D S
UniRef90_G7EAR6 P T H D D I T Y D S M A K A F G K Y H D E T I H R M Y E M G K K R Y A E Q K Q T
UniRef90_R5AK78 V D P D D R T P L A I R N A G V K V V S Y G A P V L P G A M F L L S
UniRef90_UPI00036D3FED P T Q D D L T R E A I A D A L D K N E D L L I E I K N Y F D K M G Y Q M A N N
UniRef90_K7YIR9 S T H D D I T T A S I A K A F N I P I E Q N V E V M R S Y A S N G V E F N V A
UniRef90_W5LAG4 P T H D D V T F E S V A M A F G E G L H A H P E L T G L I Q K F F G T V D P N S
UniRef90_S7PVZ4 P T H D D I T Y A S L A K S F N Q G L V H H Q E T L R R M M E M S K N R P W I S
UniRef90_D8FFG6 V D P D D V T R Q A L I D A G V Q D M L Y G V P V L P G A
UniRef90_G8M751 A T P D D H T R Q C A A L A C G Q P L Q L H P E A
UniRef90_V6S6M3 P T K D D I T K K T F C A K D Y R D E L E V T D E T V L A H V T N L I E N Y F K R P
UniRef90_D0DBC7 P T H D D I T A D C V A A A F G A H I D I R E D A Y H Y E R Q G A E F N T A R Q
UniRef90_L1IH81 P T H D D V T V A Q A F G C G L Q T R T E I L E L N Q H L P N E E I N E Y H V
UniRef90_H2FWH7 V G D A D H T K V V L E D V G R I G F W K L A I K P G K
UniRef90_K1VBJ9 P T K D D I T K E L F G C G M H Y D E T V A A H V E R M L T A R G I D F N E L N
UniRef90_UPI00040013CC P T Q D D L T K P A F F K Q R G D E I T P L N L Q G H L P S C C T Y V P N E V
UniRef90_UPI00047B67A8 P T K D D I T K K T I A H Y F D D E L T E E N V S V R Q N I E H L W E H V K K P
UniRef90_A9WJE6 P T L D D V T R E A V A A A L D R P L E F H P E A A R F A M N R P M S E S N R
UniRef90_B9LPK6 P T H D D V T M E A V A A A F G R D V A N D Q A A D W L A E R G Y S A D D L V A
UniRef90_B7QYN3 P T H D D I T A D C I S K A F D V H L D V R D D A R A L L Q A H Y D K S G Q R L
UniRef90_UPI00035CBC3C P T K D D I T K K T L C E Y F G V G M V R N Q V A L E L V T S F F V
UniRef90_F4WNNK6 P T H D D V T Y E A V A K A F E L K L E L N Q E L F D L Y T R M V P D Q A E I K
UniRef90_A8FPG0 V G D A D F L K L A L E R V G Q I N F W R I N M R P G R
UniRef90_UPI00034A435C A T P D D H T R Q C A A L A C G Q P L Q L H P E A
UniRef90_V2PWR9 A G D F D Y M N L T A I D K S G I K W H F N K I N Q K P G Q
UniRef90_C8W9A3 V D P D D N T P G A I K R S G A H I V T Y G A P V L P G A M M C L G Y L D A A N
UniRef90_A3MS85 P T P D D I T N L A F C K A L G A E P V V N E E A L K M V R E K Y P M T E E R V
UniRef90_UPI000367667D P T H D D L T T A C V A E A F G R C H Q E S Y D A L N A L F P E E A F N Q A R Q
UniRef90_R7D9R8 V D P D D R T P G A I K D T G A E I V T Y G A P V L P G A M L L L
UniRef90_A3Y5R7 V G E E D H V K N V I E A N G E L F L W K I A I K P G K
UniRef90_K2KMS3 P T H D D I T S A C I I A K A F G K N D I R H H E A M A V L A A H Y E F N D A R K
UniRef90_A0A023BP59 P T K D D I T S H T I C E Y F G V D L R H V E K L F A K Y I A T P I S D V N K
UniRef90_S2VZW5 Y G S G D T V R E V L G S L G T I R F D S V A A F P G H I L
UniRef90_S2IXV6 P T H D D I T Y E S I A A A Y Q L D M K V D Q E T Y D Y I Q P N T A M T K F H A
UniRef90_G3PEE7 P T H D D V T L E S V A M A F Q E D L Y H H P E L A R V V E E L F G V T D K N S
UniRef90_C3X1C2 S T P D D H T R Q C A S I A L G K P L E L H P E A R I K I I E R M V
UniRef90_W8W049 P T K D D I T K T I C E Y F D D H L V H N Q E V L Q H I R E M F A K Y V K D A
UniRef90_B8C340 M G E K D I M E Q V F I Q G M G G H V H F N G R M N M K P G K P T T F I T I D Q
UniRef90_N8UHY0 V G D Y D F V R P V A L K I G F E Q L F W K V K Q K P G K P M F F A
UniRef90_V4GWR4 G T H D D V T M R A V A D A F D R
UniRef90_UPI00040B74C2 V G D A D L V R Q V V G E L G D I R V W K I A I K P G K
UniRef90_I3BWN0 A T P D D L T R Q A A A A S G R Q L L R H P Q A V A L I E S R F G E Y P N R I
UniRef90_I0WGR1 P T K D D L T K E T L C D Y F G D S L V M N Q E V
UniRef90_W7B267 V G D F D F M A E I A K H E A Q L L F N K I Q M R P G S
UniRef90_V2V1A6 V G D Y D F I R P A T L N L E G F K Q V F W K V K Q K P G K P I F F A
UniRef90_D9Q2T3 L G A Y D L V P D V V A R M G K V L F N G V R M R P G K
UniRef90_UPI00036B3B9D V G K K D I M H E V I K E I N A D R L F W R V R M K P G T
UniRef90_D4GNB0 V G E A D F T K T M L E E L G V I R F W K L A M K P G K
UniRef90_UPI00035B083E V D P D D V I S K R A L K R A G V K F I R E G N P I Q P A N N L S
UniRef90_A0A059INF7 P T H D D I T A D A V A A A F G L T A G I R D D A R A L L E D Y F E A T P A R M
UniRef90_J3KHJ7 P T H D D I T Y Q S I A K A F N L N L K F H E E A F N R M
UniRef90_Q2RHL0 A E D K D F S V I A I K N T G D P E A H T P W I L K F K P D Y Q R H H K E G V
UniRef90_R5RK70 V D P D D K T P L A I L R T G A D I I S Y G S P V L P G A M F L L S Y K K D D
UniRef90_A2BM72 P T D D D K T M E A V A V A V N R P L T L N P D A Y R M V R E F Y E S Q G Y M A
UniRef90_B7VNU0 V G D A D Y I K L A L D K L G E I N F W R I N M R P G R
UniRef90_A7HD38 I G E R D H V P A A L A G L G A D V R V H G V P M K P G K
UniRef90_V8QNC1 V G E K D L V K P A L E A L G A S L D F W K V R M K P G K
UniRef90_A6GEL9 P T H D D V T L E A I A R A T R R A L V R N A E M E A L L R H Y K G R S T E A A
UniRef90_A4SQB4 V G N A D F I K Q V L A E L G Q I A F W R I Q M R P G R
UniRef90_UPI00036FDDFF V D P D D V T P R A I R E T G A E L L T H G M P A Q L E K L G K V N F W K I A M K P G K
UniRef90_J4KE42 V G E A D F T K A V L E K L G K V N F W K I A M K P G K
UniRef90_F0QYM5 V D P T D K T P I A I R N L G A K V I A Y G I L E K L G K V N F W K I A M K P G T T
UniRef90_UPI00035E903A P T H D D I T K E L F Q V Q L Q Q N E D V L S F V Q E I F K K R K I P F S N S N
UniRef90_Q9RY74 M G R Y D F M R D L L L G E G E I T F W K V K M R P G G
UniRef90_H2C8U8 P T Y D D R T V E G L A A A L G R K L V Y N Q E A L N E V T R K Y K E K E R L
UniRef90_Q5LX88 A G D E D H V S A L L R A A G A M Q Q W R I A L K P G R
UniRef90_UPI000349BF5B V G D Y D Y V E Q L L E S L G G K I H V R S V A M K P G K P F P T P H S P L L T
UniRef90_E7QRG4 G T P D D V T M D A V A S A L D R E Q R R F A E E N P E L T D E Y D L D L D L D
UniRef90_M1WY95 V D P D D V T R Q G L M
UniRef90_UPI00044186A5 P T H D D I T Y A S L A K E Y F D Q E L V Y H E E T L R R M E E M I K S R P S M A
UniRef90_A6GZ17 P T K D D I T K K T L C E Y F N D K L I N E K V L V H V T Q L I E D Y F K R P
UniRef90_Q0AY63 V D P D D V T P L G I K A S G A E V V F Y G A P V L P G S
UniRef90_E4PK65 V G E E D H V R A V L E E S G S L S L W K M A I K P G K
UniRef90_Q8GDS0 V G A R D Y T V K A I D A L G A P G V L F H G I S I K P G K P T I
UniRef90_H2AP42 S T H D D I T Y E C

UniRef90_UPI000346FA0E P F A F G R L P G S W F C G L P G N P V S A A V T F Q L V Q P L L A H L S G Q 130 140 150 160
UniRef90_UPI000407B061 F L L G Y Q G R T T I M G L P A C G L Y H R T T F D L I L P R V
UniRef90_Q5JGM9 P T I L G E I N G K P I F G L S G Y P T S C L T N F T L L V P L L R K L I G
UniRef90_B2GCL9 V T T A F V Q D G K T L V M A L S G N P G A C F T G F
UniRef90_UPI0002493459 G A T A G I E N D Q L C Y L L P G S T N A C T T G L E V I L L P D L N H L I K E I
UniRef90_B5ED03 R Q A L L P K G A R L I D N P L I G T A L G V R I G Q A F F M P G V P Y E M E R M
UniRef90_Q28VR2 R M A R V P D G A L I D N P L I S A A P G F T L G N V H V M A G V P K I F E A M
UniRef90_UPI000381AA0D R G I S G I S G S T V V V N L A A S R A A I R D G M A M L P A L V H H L I D Q L
UniRef90_C4ZP89 P M A F G R I G D A V L F G L P G N P V A V M V T F Q F V Q D A L L Q L M G
UniRef90_UPI0004779C80
UniRef90_B8IQV0
UniRef90_UPI0004242FAA H D Q A F D R N D K V L V S M P G V P Y E M K F N M E E I L P R L
UniRef90_Q1D4N6 P L V V G R R G A T L F F G L P G N P T S S L V T F E F V R P A L R K R L L G H A
UniRef90_B3TB73 K M A D M P E G A E L V L N P V S G A P G F R V E N V Y V M A G V P G I M R A M
UniRef90_A0A023X020 K Q A L L P E G T E M I D N P L I G T A P G A L L A A E A V F A T L P G V P S E M
UniRef90_S9TLF6 K M A D I L P A G A S L I D N P L I S Q A P G F R I G N V F V L A G V P S V L Q A M
UniRef90_Q4PNH5 P M A V G K R N H Q L V I C L P G N P V A T F V C Y R L I V P L L D Y L
UniRef90_UPI0002E0A28B E Y K K Q K H A S Y L L G L P G N P A A V F V C L E I H L S T L L K A M Q G L
UniRef90_H2YMQ1 P E M
UniRef90_G7EAR6 E E Q M Q A R K R M V L F V Q P D W V P I V R L G K L C I L P G V P R L F Q Q L
UniRef90_R5AK78 Y T D T G I P V C G L P G C V M Y A R T I F D L V L P Y L
UniRef90_UPI00036D3FED L K Q A Y D K D G K I I I S M P G V P I E M K T M M E T I I P Y L K
UniRef90_K7YIR9 R Q K M A P V G A K L I N N P V S V A P G F I V K N V H V M P G M P D I L R A M
UniRef90_W5LAG4 S T M T V P L S A K L N F G T D P R T G L V S V R N V Y I F P G I P S L M E
UniRef90_S7PVZ4 Q Q T
UniRef90_D8FFG6 M T V I A R I G S V R V F G V P A C A L Y F K T T
UniRef90_G8M751
UniRef90_V6S6M3 D Q A L V P S K C T V L F N P V G T A P G M W M E N E F I L P G V P F E M K H L
UniRef90_D0DBC7 R M A R I P D G A V L I E N P V S I A P G F A L E N V Y V M A G V P S V F E A M
UniRef90_L1IH81 K M A S I L P Q G S Q L I R N T E G P D P L L V K N N V Y I L P G V P Q Y C K
UniRef90_H2FWH7 P F A F G H I D R C A F F G L P G N P V S A A V T F H L L V P G L A R L A G E
UniRef90_K1VBJ9 R S Q A V P D A C T V L F N A H G T A P G M R D G H V V V L P G V P Y E M E H L
UniRef90_UPI00040013CC G T A P G M W N G T Y W M S M P G V P H E M K L M K D F V L P K L P S L F T L
UniRef90_UPI00047B67A8 L M Q V N I D Q A L V M N K F G S A P G M K D K N V F I L P G V P Y E M K A L
UniRef90_A9WJE6 R Q A Y V P A G A R I I P N P R G T A P A F L V G T V I V L P G V P
UniRef90_B9LPK6 E T T H L P A D C R P L A N E A G V A P G A V V E S V Y V L P G V P
UniRef90_B7QYN3 R M A R I P D G A T I D N P V S T A P G F T L R N V H V M A G V P S V F Q A M
UniRef90_UPI00035CBC3C
UniRef90_F4WVW6 R L A L V P N A C K I I I I D S E A F P I I N I K N V Y V L P G
UniRef90_A8FPG0 P L A F G Q I G D S L F F G L P G N P V A V M V S M Q F V Q P A L R
UniRef90_UPI00034A435C
UniRef90_V2PWR9 H M A F G F M G H T P V E A C P G N P V S A M F C N
UniRef90_C8W9A3 S S T S Q I P I L G L P G C V M Y S A T T F D L V L P R I A A G I E L T
UniRef90_A3MS85 K M A M M P P G A V P L P N P V G T A P G I L Y E I V V L L P G V P R E M E A I
UniRef90_UPI000367667D K M A W L P E G S T P I K N T V S T A P G F S L G N V H V M A G V P S I F R A M
UniRef90_R7D9R8 S Y Y Q N N D K I I P I L G L P G C V M Y A R T V F D L I L P R I
UniRef90_A3Y5R7 P L V H G Q V F N T P F I G L P G N P S S T L V T F
UniRef90_K2KMS3 K M A E V P E G A L V E N P V S K A P G F H L G N V Y V F A G I P R L M Q A M
UniRef90_A0A023BP59 Q Q A L V P S K S T L M N L Y G T A P G M K E N T V F I M P G V P Y E M K G L
UniRef90_S2VZW5 G V G H V E S G T P I F C L P G D P V S A Q V C Y E Y V R A V R
UniRef90_S2IXV6 R M A T E P H P A T L L R E L P N I P I V V V H D N I Y I L P G I P S L F Q L L
UniRef90_G3PEE7 R S S K L N Y G T D P Q T G Q P H S Y P L V S V R N V Y I F P G V P S L M E
UniRef90_C3X1C2
UniRef90_W8W049 I V P A N E R N N T I F V S M P G V P F E M K S L M D E V L P L L
UniRef90_B8C340 E T S R G E M C R K L V F A L P G N P V S A S V C T D L L V R P C L D L I
UniRef90_N8UHY0 K S E R P D Q N P C Y L L G L P G N P A A V Y I A M Q I Y V S T L
UniRef90_V4GWR4
UniRef90_UPI00040B74C2 P F A F G T L P N S L F F G L P G N P V S A L V T L E Q L M P A L R
UniRef90_I3BWN0 R M S E L P D G C T L I P N P V N Q I P G F K I A N H H F V P G F P
UniRef90_I0WGR1
UniRef90_W7B267 P T T A M I F E D T L L I A L S G N P G A C F T G F
UniRef90_V2V1A6 K L D K N E Q N H C Y L L G L P G N P A A V Y V G M
UniRef90_D9Q2T3 P T G A G T I N G K P V E M L S G F P V A S L T G I T F V R P T L R H
UniRef90_UPI00036B3B9D P A I Y S I Y K N T P I L S L S G N P F A I A T F E I M G K E L I Y
UniRef90_D4GNB0 P F A F G R L A N S W F C G L P G N P V S A V T F Q L V Q P L L
UniRef90_UPI0003B5083E I G Y F N D T V V C V V P G A I F Y K A T A F D L L P R I
UniRef90_A0A059INF7 R M A R V P E G A V L I D N P V S V A P G F S L G N V H V M A G V P S V F E A M
UniRef90_J3KHJ7
UniRef90_Q2RHL0 R I A V G Q V G M T I M V A L P G P H Q E A R L G C D R L L A G L E Q G L A
UniRef90_R5RKT0 R I I P I C G L P G C A M Y K R T I F D L V L P R L
UniRef90_A2BM72 L L P A G A K K G T H I F V L P G V P R E M E A M F K Y V L E K L K P L L P Q L
UniRef90_B7VNU0 P L A Y G K I E D K P F F G L P G N P V A V M V S F N F V E P A I R K L Q G Q
UniRef90_A7HD38 P F L A F A L L G A T P V L G L P G S P S A C L A A F V
UniRef90_V8QNC1 P V A L I A S V N N T P V I C L P G N P V S A Y T V L A V L V P L I R
UniRef90_A6GEL9 M A M A D I P E G T E L R A L P G W P P Q A H D A R I Y I L P G I P P L L R
UniRef90_A4SQB4 P L A F G K L G T T P F F G L P G N P V A A M V C L Q F V E P A I A R L
UniRef90_UPI00036FDDFF
UniRef90_J4KE42 P F A F G Q L L G K T W F F G L P G N P V S A L V T F Q L V Q P A L
UniRef90_F0QYM5 M T M I A L N G T P I L A I S A G G I Y Y A I D V F L P R L
UniRef90_UPI00035E903A Y A Q A E V P E N C E V F N K M G T A P G M E E C F L A V M P G V P Y E M K Y L
UniRef90_Q9RY74 P A L C G R W G G L P V F G L P G N P V S L V V F Q V I V P V L
UniRef90_H2C8U8 K M A L F P E G A T P I P N E A G I A P G V
UniRef90_Q5LX88 P L A L G L W Q G K P V F G L P G N P V A A L V C
UniRef90_UPI000349BF5B P H S L L P T P H S L I F G L P G N P A A V L V T W R F V Q P A I K
UniRef90_E7QRG4 E A A T L P A G G R S L F T D V G W A P G C A V E G V Y V F P G I P R E M K A M
UniRef90_M1WY95
UniRef90_UPI00044186A5 N Q N A E Q R K R M A L F P S R G E P L Y V A E G K V C I F P G I P S L F T R L
UniRef90_A6GZ17 I T Q V N K D Q A L V F N Q V G T A P G M K E N T V F I L P G V P Y E M K Y L
UniRef90_Q0AY63 Q F M L A Y Q G H V P I C G V P G G A L Y S K T T L D L L P R I
UniRef90_E4PK65 P V A F G A I G G T P V L G L P G N P G S V L V T F L M V G V P Y I
UniRef90_Q8GDS0 F G M I G Q V P V F G L P G H P V A A M T C E Q L V K L A L G N L F G Q
UniRef90_H2AP42

UniRef90_UPI000346FA0E
UniRef90_UPI000407B061
UniRef90_Q5JGM9
UniRef90_B2GCL9
UniRef90_UPI0002493459
UniRef90_B5ED03
UniRef90_Q28VR2
UniRef90_UPI000381AA0D Q
UniRef90_C4ZP89
UniRef90_UPI0004779C80
UniRef90_B8IQV0
UniRef90_UPI0004242FAA
UniRef90_Q1D4N6 Q
UniRef90_B3TB73
UniRef90_A0A023X020 K
UniRef90_S9TLF6
UniRef90_Q4PNH5
UniRef90_UPI0002E0A28B K
UniRef90_H2YMQ1
UniRef90_G7EAR6
UniRef90_R5AK78
UniRef90_UPI00036D3FED
UniRef90_K7YIR9
UniRef90_W5LAG4
UniRef90_S7PVZ4
UniRef90_D8FFG6
UniRef90_G8M751
UniRef90_V6S6M3
UniRef90_D0DBC7
UniRef90_L1IH81
UniRef90_H2FWH7
UniRef90_K1VBJ9
UniRef90_UPI00040013CC
UniRef90_UPI00047B67A8
UniRef90_A9WJE6
UniRef90_B9LPK6
UniRef90_B7QYN3
UniRef90_UPI00035CBC3C
UniRef90_F4WVK6
UniRef90_A8FPG0
UniRef90_UPI00034A435C
UniRef90_V2PWR9
UniRef90_C8W9A3 K
UniRef90_A3MS85
UniRef90_UPI000367667D
UniRef90_R7D9R8
UniRef90_A3Y5R7
UniRef90_K2KMS3
UniRef90_A0A023BP59
UniRef90_S2VZW5
UniRef90_S2IXV6
UniRef90_G3PEE7
UniRef90_C3X1C2
UniRef90_W8W049
UniRef90_B8C340 H
UniRef90_N8UHY0
UniRef90_V4GWR4
UniRef90_UPI00040B74C2
UniRef90_I3BWN0
UniRef90_I0WGR1
UniRef90_W7B267
UniRef90_V2V1A6
UniRef90_D9Q2T3
UniRef90_UPI00036B3B9D
UniRef90_D4GNB0
UniRef90_UPI0003B5083E
UniRef90_A0A059INF7
UniRef90_J3KHJ7
UniRef90_Q2RHL0
UniRef90_R5RK70
UniRef90_A2BM72
UniRef90_B7VNU0
UniRef90_A7HD38
UniRef90_V8QNC1
UniRef90_A6GEL9
UniRef90_A4SQB4
UniRef90_UPI00036FDDFF
UniRef90_J4KE42
UniRef90_F0QYM5
UniRef90_UPI00035E903A
UniRef90_Q9RY74
UniRef90_H2C8U8
UniRef90_Q5LX88
UniRef90_UPI000349BF5B
UniRef90_E7QRG4
UniRef90_M1WY95
UniRef90_UPI00044186A5
UniRef90_A6GZ17
UniRef90_Q0AY63
UniRef90_E4PK65
UniRef90_Q8GDS0
UniRef90_H2AP42

UniRef90_UPI0003608A01 1 10 20 30 40
UniRef90_B2GI19 G P L K I A F F S T G D E L V A T G Q I Y D S N R Y L L A G L L A D N A
UniRef90_S2XQY0 V R A A V I A T G S E L L T E S P G S E L S F N G K I L Y N A Y L V C S R L T E L N
UniRef90_X1SSY6 R I R V G I I S T G N E V L I P G Q I Y D T N S R A L A D A V R E L S
UniRef90_I3REF7 K A K V G V L V T G T E V F R G I I E D K F A P I I T Q K A N Q L G C D M A
UniRef90_G0J571 K V N A E I I A V G S E L L L G Q I T N T N A T F I A A Q L A E E M D K I
UniRef90_A1VH88 P A L N I Q F L L T G T E L M V G D I V D T N S V M L S A Q S L A K D Q
UniRef90_F7Z488 K V N A E I I A V G S E L L L G Q I T N T N A T F I A A Q L A E I
UniRef90_F4AYB7 P A L N I Q F L L T G T E L M V G D I V D T N S V M L S A Q S L A K D Q
UniRef90_R4YUV7 K I T A E I I A V G S E L L L G Q I T N T N A T F I A A Q L A E V
UniRef90_Q1AT03 L R V G V L S T G D E A K D G Q I Y D A N R P M L S L I A Q F
UniRef90_K9ASY2 K L S A I I T I G D E L L S G K R Q D K H L A A L V R I L A A R G Q R L A
UniRef90_DPI00046957FC I T A E L L T I G D E L L Y G Q I L D T N A Q W M S V A L S D A
UniRef90_UPI0004723503 G K H P T A G I I V I G D E I L K A Q V K D T N S C F Y A C K L L D D L G M Q P
UniRef90_UPI00021A7BCC T A G I I I G D E I L K G V T G D V N S N F F C K E L Y N H
UniRef90_A0A044RAM8 G P R P R A G I I V I G D E L L T G A L S D A N G P W L A R R L A D L
UniRef90_R6K5U2 P A P R V G V L A T G S E L D R G K I P D S N G I M L A G L V H T H G G
UniRef90_F4CVH9 K P S V A I I A T G D E I L E P G K L R N S N G P M I K A L A K K I
UniRef90_J0AZT4 P N P T C A I L I I G D E I L T G R T R E G N A H H L A G E L V K A G F D L R
UniRef90_W4UKG2 K P R I A L I V I G D E V R E G K I Y D S N L H L I Y S R L N E F G L Q P
UniRef90_F9L532 N I A V I V I G D E L L I G Q V T D T N S G F L A R H V A C F D L
UniRef90_UPI00035DF9AA T A G C I I I G D E V L N G K T K D T N S N F F A Q Y C F N L G I A L K S
UniRef90_D5ASR8 L Q V I G I L T T G D E L I A G Q I Y N S N G P M L Q G L L T Q L A E L S
UniRef90_I6ZUI0 P L P R A E V I C V L G D E L L H G R I R D A L G P M T G P W L A A L
UniRef90_C6Q2K3 R L R V L I C A T G D E L A Q G E I P D A N G P M L A A L R Q Y G A E
UniRef90_R5B115 L K T G L V I T G S E V Y N G L I E D G F A P V L S K K I N D L G S R I L
UniRef90_UPI0003F49D7A Y Q A E I V A V G T E L L L G Q I A N T N A Q W L S E K L A T Y G I N M Y
UniRef90_UPI000344D74F T A S I I V S I G D E I L V E G D V F D A N G H A L A S A V A D A
UniRef90_Q8EQR8 K V R V A I L S T G D E L S P G R V I N S N A L S L A A A V R E A
UniRef90_S3J7G8 P T A G I I V I G D E I L L K A Q V R D T N S Y H M C G L L Y K C
UniRef90_COW419 R A E I I S I G T E L L L G E I I N T N A Q Y I A R E L A S L
UniRef90_W0JRR1 F G L I I T I G D E I L S G R R I D K H F P K V L E L L S Q R G L Q L S
UniRef90_B5EIK3 K P K V A V I S T G N E V I R G K I Y D I N G R A V S D A V R E L
UniRef90_E2BNB9 V L L V T T G D E V V A G K I Y D S N G T L L E A A M T Q A G L
UniRef90_A8MI49 P R V A V L S T G D E R A P G S L E R G I P E S N S T L A A L C A E E
UniRef90_UPI0002E6875E R L T V A F F S T G D E R S V G E T Y D S N R Y T L F A M L K R L
UniRef90_UPI00036C3434 P R V L V V S T G T E L V H P P A P L R H G Q I Y E S V M L V A G L R D L
UniRef90_H3ZN42 K T A L L S I G D E L L L G E V V D T N S A R I A A R L A D E
UniRef90_L8TLP8 R P R V A I I A T G D E L L V S P G G Q P G P S Q I I N T F G I A A L A R A I
UniRef90_UPI0003B691AE R I V A S I I T I G D E L L I G Q V I D T N S A F I S Q E L N K
UniRef90_D4H5V3 P R V K V A V I S T G D E L V A G Q I Y D T N R F A V K L M L Q R L N
UniRef90_K8RHU7 K I S L I I V G D E I L S G R R Q D K H L S K I I E L L A A R
UniRef90_H8G4M3 R P R V A L S T G D E I V A G Q I Y D S N R P M L I Q L L E T F
UniRef90_Q39Z82 L K V A V F E S T G D E I L A G T I Y E S N R A V I I S E L N N P
UniRef90_H4F0E8 A E I L T V G N E I L S G R T V N T N A S H I A R R L T S L G F A N
UniRef90_G8T158 T A E I I A I G T E I A L G Q I A E T N T R Y I A E M L T K
UniRef90_F4HEJ3 R L K V A V F E S T G D E L Q P G Q I Y D T N R F A V R L M L E Q F
UniRef90_I3UE59 P R V K V A V I S T G D E L V A G Q I Y D T N R F A V K L M L Q R L N
UniRef90_E1V326 R P R V A L S T G D E I V A G Q I Y D S N R P M L I Q L L E T F
UniRef90_G7WC14 L K V A V F E S T G D E I L A G T I Y E S N R A V I I S E L N N P
UniRef90_G7FSY6 A E I L T V G N E I L S G R T V N T N A S H I A R R L T S L G F A N
UniRef90_W7K2D5 T A E I I A I G T E I A L G Q I A E T N T R Y I A E M L T K
UniRef90_Q1Q609 R L K V A V F E S T G D E L Q P G Q I Y D T N R F A V R L M L E Q F
UniRef90_G7LUL7 P R V K V A V I S T G D E L V A G Q I Y D T N R F A V K L M L Q R L N
UniRef90_W2USP4 K I S L I I V G D E I L S G R R Q D K H L S K I I E L L A A R
UniRef90_S7YN4 L K V A V F E S T G D E I L A G T I Y E S N R A V I I S E L N N P
UniRef90_UPI000255562E A E I L T V G N E I L S G R T V N T N A S H I A R R L T S L G F A N
UniRef90_D5VQB5 T A E I I A I G T E I A L G Q I A E T N T R Y I A E M L T K
UniRef90_UPI00045606A9 R L K V A V F E S T G D E L Q P G Q I Y D T N R F A V R L M L E Q F
UniRef90_D2TYA4 I G V G M I T G S E V F Y G R I E D K F Q P I I R K K V T D L G
UniRef90_I0YTQ1 R L R F A L I S T G N E I Q K G K L Y D I N T Y T L A S Y I E S L G F H P R
UniRef90_N6Y1N8 T A A C L I I G D E V L N G K T K D T N S N Y F A K F C F T L
UniRef90_W0TRM2 Q L K V A T F E S T G D E L A A G Q I Y D T N R L A I R L M L E K M N
UniRef90_UPI000463BC8D K A R V A V L S T G D E L V E G Q I R D A N R F M L A A A A R S A
UniRef90_UPI000376FAAD R L R V A F F S T G D E I A S G E V Y D S N R Y T L F G A L S R L
UniRef90_A3JXU5 K F G L Y V V G D E I L S G R R D T H V D W F R R I L Q A R
UniRef90_F0S4J2 P P R A A V F V L G D E L L G L R D A L G P L L P W L R A L
UniRef90_M5J7T1 E I E I G A V I I G D E L L S G K R R D R H Q A H L T E A L A E K G L
UniRef90_UPI00037FD8B2 R L R I G V L S T G D R A A P G Q I F D A N R P M L L S M A T R F
UniRef90_UPI0003717523 A E I I T I G D E I L I G Q I I D T N S P W M A T E L N K I
UniRef90_K1M8Y2 R A E I I S V G T E L L L G E V I D T N A P Y L S Q Q M A Q L
UniRef90_UPI00046F5BE4 D L N V G I Y I I G D E I L S G K R E D K H L T Q A I Q I L K S R G L T L A
UniRef90_E6X8F5 Q P K L G L I I G D E I I S G K R Q D K H L V Q A N A L L H P R G L Q L N
UniRef90_W4GWX3 V K A A L I V I G D E I L S G H T L D T N S Q F I T A Q L R I
UniRef90_B3R1H5 K T I G I L T I G N E L T T G R I Q D A N S A F I A A S V N T L
UniRef90_N8P1H9 P K S L A I V V T G N E L K A G E L Y E S N G T M L S A V L Q E L G Y L K T
UniRef90_R5EY44 P K A A I C V I G N E V L S G K T L D T N S N Y L S K F L F G R
UniRef90_UPI000367E80A F G L I V I G D E I L S G R R E D K H L R R T I E L L G A R G L A L D
UniRef90_Q0FA51 N V E I I V I G D E L L I G Q V T D T N S G W I A R E L N H I
UniRef90_Q1QIT1 R L R V A I M T T G D E L H K S Q I V D A N R P M L I A Q L E R W
UniRef90_UPI0004644596 R L K V A V L S T G D E L A A P G E A R A G A Q L F D F M A M L R R L
UniRef90_UPI000375AF01 F G T I I T I G D E I L S G R S D K H L A K L V E M L G V R
UniRef90_K0C4N7 Q L T V G F F S T G D E I L S G R I F D S N R Y T L Q A L E Q A
UniRef90_J6IT43 R P R V A I I P I G S E L V I E G R I R N S N G Y A I A A C V R E A

UniRef90_UPI0003608A01 Y T V T D G G V I 50 A D D K P A F V A A L H D A L T G S S G A D L V V T T S G G G I S S
UniRef90_B2GI19 G V E H V A R L R V I D D D P A A F V A A L H D A L T G S S G A D L V V T T S G G G I S S
UniRef90_S2XQY0 G V S D V E W M D T V S Q D D D A R K C L K D S L E K A C R L R S G A D L V V T T S G G G I S S
UniRef90_X1SSY6 G I L D L E Y I S A V V S D D D P A R S L L S L T S L K L A L Q R S D D L I I T T G G L G S
UniRef90_I3REF7 G G E G I F I G I A K D D D R D Q S L K D L I R K A L M L S S D I I V L S G G G A S
UniRef90_G0J571 G V R V T R K T T V G P D D A P Q A M N R A Y E A A S R R E V D I V L M T T A G L L G S
UniRef90_A1VH88 G T V T V I A P D D A P Q L I T R G V H D L L A A G A D L I V L T T A G L L G S
UniRef90_F7Z488 G V D V Y Y Q T V V G D D N A E R L E A A I R T A E G R A D L L I V T T G G L G S
UniRef90_F4AYB7 G V S I Y Q I T S I Q G D D E F H I L E A F A A A Q S R R A D L I V T T G G L G S
UniRef90_R4YUV7 G A E L T R K V T L G D D N R E R I V A E L E H M S L Q R S D L V V T T G G L G S
UniRef90_Q1AT03 G V N V Y R H T A V G D D N R E R I V A E L E G E A A A R S D L V V T T G G L G S
UniRef90_K9ASY2 G H D V L Q H L V V G D D R P K R L E R V M S E A L K Y H Q A D V I L T S G G L G S
UniRef90_UPI00046957FC G H A P V D L G R V Q D D R S A L R R D V L D Q A V P Q A D V I L T S G G A S
UniRef90_D2Z8P0 G G T I I E Q T V V P D E K E V I V I Q A I N H M V D I G A E A I I C G G G M S S
UniRef90_C1D6U1 G V E Y L L G D D P E R I T A T F R R A L A S G E V V F S F G G I G S
UniRef90_UPI0004723503 G I K V V R K T T V G D D I E S E I L M G A F A E P R V D I V L L T S G G I G S
UniRef90_Q3ADY2 G V V Y F G I V P D R F E E L I K A I K K A L L E T Y D L V L L T S G G T S
UniRef90_UPI00021A7BCC G V K V Q K T A V V S D N L E I D I S K E L K Y F S K M F N Y V F T S S G G I G S
UniRef90_A0A044RAM8 G I L V K K I S I V S D N I D D I A Y E V K Q F S E R Q D V V F S S G G I G S
UniRef90_R6K5U2 G I E V L R I V S I R D R E E E I M E A I L D N A M E R V N I V L V T S G G L G S
UniRef90_F4CVH9 G F E V A H V V S A G D D R P E D L V R A L D F L A G A T V A L I V T S G G L G S
UniRef90_J0AZT4 G A Q L I P D D L D T I A A T L E R S F A T P D I V F C C C G G I G S
UniRef90_W4UKG2 G V E Q T R V P D D P E R L R E L V R S W R V D L I V T A G G I S S
UniRef90_F9L532 G L E V G T Y Q L Q G D D N L E S S I Q V V K R D A L S Q H D I V I T T G G V S
UniRef90_UPI00035DF9AA W A E Y L S G D D P E R I T A T L A R T M A T G D L V F T S C G G I G S
UniRef90_D5ASR8 Q T R V I G S S V I L P D D D E N A I R N E F E R A F N N S D L V L V T T G G L G S
UniRef90_I6ZUI0 G V D V I S S E I I E D N G E K V G E K I R E I V D D V D L I V T T G G L G S
UniRef90_C6Q2K3 G W Q V V N V E V V A D D A D A I R N A I D R A F A L A P V V L T T G G L G S
UniRef90_UPI0003F49D7A R I E L K R I E V L A D D E D E I V E A A R R M T K N Y D F V V T S G G I G S
UniRef90_K2S805 G L E V L V T R V L I A D D E E E I L E A A R R M S K N Y D F V V T S G G I G S
UniRef90_F2JUP7 G Y Q V I D V T H C L D D K A A T E S A L S Q N L J A N K V D I L S S G G V S
UniRef90_H8I646 G T I V K R I E V L P D D V I A A I S T S V K S S R A D K V L I T T G G L G
UniRef90_UPI000317AB13 G A E V L V T R V L G D D A D A L R E A I L E T S S R A D L I V T T G G T A
UniRef90_UPI000344D74F S V K Y A P D D S N H I Q Q A I L N C L D S G C D L I I L S T G G M S
UniRef90_K0NL75 N H T V V G D N L E R V I E Q A F Q L J A Q S R S N I I V T T G G L G S
UniRef90_Q8EQR8 G F R V Q S I T G V S D D P V R I A D T I N H L S K F S K Y I I T T G G L G S
UniRef90_S3J7G8 G G Q A F R V A A V P D E L R A L S E T I E D Q L V W S E R F R D A V V T T G G L G S
UniRef90_W0JRR1 I R R I L T I P D D R A L I A D T V A A W S E R F R D A V V T T G G L G S
UniRef90_B5EIK3 G A E P V L L G I A R D D I E S H R E K I Q Q G F R F D A L I T S A G V S
UniRef90_E2BNB9 G V K V K K I S V I S D S V J E E L S K E A F E T A S S K F T Y V I T S G G I G S
UniRef90_A8MI49 G I D V Y H Q S V I G D N E T R L S E A F E T A F K R S D V V I T T G G L G S
UniRef90_UPI0002E6875E W A E Y I G D E R E R I T A T L K R T L A S G D V V F C G G I G S
UniRef90_UPI00036C3434 G Y E V I E H L S V A D T R K G I R N G L D R A L A V A D V I L M T G G L G S
UniRef90_H3ZN42 G G E A Y F L G I A R D D N E E S L K E K I L E G L K Y D I V L S G G A S
UniRef90_L8TLP8 R V L R A G I S T D N P E E L R T L L R S Q G A G A D L I V T T G G V S
UniRef90_UPI0003B691AE G A E V V L V T H V D D E D G D L R A A L A E A S M R G S D V I T T G G V S
UniRef90_D4H5V3 G F D V T D I R L I P D H R E K I V K L L R E A S M R G S D V I T T G G L G S
UniRef90_K8RHU7 G V E T V D L G I V R D D R A S L E K A L R H A T E S A D V V I T S G G V S
UniRef90_H8G4M3 G H V E T V R S V A D D V A H F R A A V E P K L A E V D V L V T S G G V S
UniRef90_Q39Z82 G I V T A R K L T V G D D E G E I F A G A L E E L A R G H D V V I A T G L G S
UniRef90_H4F0E8 G A D V I D L G I V P D D R I M I T N A I A Q A Q T A K A D V V V T L G G A S
UniRef90_G8T158 G V W V K R R V A V G D S K E E I Q R A L D E E S R R D S N I I M T G G L G S
UniRef90_F4HEJ3 C E I L D F G I L P D N E Q Q F E Q A F R D A Q Q Q A D L V I T S G G V S
UniRef90_I3UE59 G M Q L S R A E F L P D D L E T L T A A Y K R S F A S D D I V F S S G G I G S
UniRef90_E1V326 G A E V T R L T S V P D E A E G D T R A L L S E A A A Q D A D V V I T T G G V S
UniRef90_G7WC14 G Y K V T I G D I M E D D L G T D M E F K L S D A V S R A F G L I I T T G G V G
UniRef90_G7FSY6 N I E V I D F G I T P D D K T L I Q N T F L K A D E I F S R K P N L V I T T G G L G S
UniRef90_W7KZD5 V R R M T V V M D D A E R E I S Q A F S E I A F S R K P N L V I T T G G L G S
UniRef90_Q1Q609 G I H V L F A T A V R D D A E L R S A L N I A K D R V R L I V T T G G L G S
UniRef90_G7LUL7 G C E V D D L G I V R D D P A A L R D A F H R A D I G A D L A I S S G G V S
UniRef90_W2USP4 G V S V F Q M T S I Q D E R A H I L N A L N E A E R R A D I V I L T G G L G S
UniRef90_S7TYN4 G H V I D V V F L P D D A L I A E A A L K F V I E R G A D I V T T G G M S
UniRef90_UPI000255562E L L P V A A D E P E T A A A E I R A H M E D L D L I L S T G G V S
UniRef90_D5VQB5 G H S Y K L L G I A K D D L E E I K E K I K E G L D C D I L L S G G T S
UniRef90_UPI00045606A9 G I D L Q R I E V I P D D T E Q I V E A A Q R L S A R H D L V I T S S G G I G S
UniRef90_D2TYA4 C Q V I D L D I A D D P D K L Y Q A F K Q A D Q Q A D L V I S S G G V S
UniRef90_I0YTQ1 G C D V L D L G I A R D D P A E V E A K F G E A I A Q G V D V L L T S G G V S
UniRef90_N6Y1N8 G C E L L D M G V I P D E P A A L E A A F R D A S L A A D V I T S S G G V S
UniRef90_W0TRM2 H A L A W V Q I L P D T P E L L V R R F R Q S L E A D E K A F S C G G I G S
UniRef90_UPI000463BC8D G A E V V D V R R V G D D A Q E D A L H K A L T S C D A D V V V T T G G T A
UniRef90_UPI000376FAAD E L A W L R I V G D N A R V L A Q T F R E T L A S G A E V V F S T G G I G S
UniRef90_A3JXU5 G Y E A I D L G H V R D N R D V L R A R L D G A V G A V D A I L T S G G A S
UniRef90_F0S4J2 G T S V T Q I T S I V S D Q K E H I L K A L E E E A E G R A D I I L V T T G G L G S
UniRef90_M5J7T1 G I D V Y H R T T V G D N E H R L V A A L E Q A Q A N S D L V I T T G G L G S
UniRef90_UPI00037FD8B2 W A E Y L A D E P D R L V A S F K R S F N S S D I V F S F G G I G S
UniRef90_UPI0003717523 W V R L L G D S P E F L T Q T L R E S F A Q E S G A V V F C F G G I G S
UniRef90_K1M8Y2 N I R T V S I C T V P D S V E D A I Q K G L E T A S E S A D I I T T G G L G S
UniRef90_UPI00046F5BE4 G W Q V V L T M A V G D D D A I N K G L N Y I L T L S D A V I V T T G G L G S
UniRef90_E6X8F5 S I T T V A D D Y D Q T K T L K E A I Q V H D I V L V T T G G V S
UniRef90_W4GWX3 G V D V V R I S V I P D E E D V I V D T V R H F S T L V G P D V V F T T G G I G S
UniRef90_B3R1H5 W A E Y V G D D R A R I T A T L R R T L A G P D V V F C G G I G S
UniRef90_N8P1H9 I F H V A D T E H A V T A L I Q T L S K S H D L I L T T G G V S
UniRef90_R5EY44 G W E V T E I T T V R D R S R E I T D A L N S S F G R V D V L M T T G G L G S
UniRef90_UPI000367E80A G H R L S A A H Y L P D D R D V L T E A F Q R T L A D E A H V I S C G G I G S
UniRef90_Q0FA51 G Y T V L D F G I V G D N E D L I E T V L N K A A K I A D I L L T T G G A S
UniRef90_Q1QIT1 G C E I T D L G I V R D D L T S L A G L K K V A G E C D L I L T T G G V S
UniRef90_UPI0004644596 V I E V L D L G L I P D Q P D Q I R A A F E R A G A E A D A I L S S G G V S
UniRef90_UPI000375AF01 G L R L A W A R Y V G D D A Q R L V A T L R E S F A T G D V V F S F G G I G S
UniRef90_K0C4N7 G V T P I D L G V I P D N R A L A V E A L S F A S K N C D L I I T T G G V S
UniRef90_J6IT43 G G I A D M Q P I M P D D F D A L A D A L E A L S A T H D F V I T T G G A S

UniRef90_UPI0003608A01 V G E A D Y I R E I L Q 90 100 110 120 R C G Q V D F W K I A M K P G K
UniRef90_B2GI19 A G A F E V V R Q G L E R E G T G M W F G H V A V Q P G G
UniRef90_S2XQY0 V G Q K D I V E E T Y G L L G A E I C F H G V K M K P G S
UniRef90_X1SSY6 P T G D D I T Y Q T I A R A L N L K L I K Y P E A E E N L K R N K I L S P S N L
UniRef90_I3REF7 G G M R D L T A S V I E E L G E I K I H G I A I Q P G K
UniRef90_G0J571 P T K D D L T K H V L A D F F N A S I K L F P E A L L E D L R N F F E S R G K E L
UniRef90_A1VH88 V D P D D M T R K V G L L D A G L T E M L H G V P V L P G T
UniRef90_F7Z488 P T K D D L T K E T I A S H I G K K L V T D E D A M R S I E Q F F I M T E N N K
UniRef90_F4AYB7 P T K D D I T K H T I C K Y F N D E L V F N Q G V L D H V A H L F K E Y I K K P
UniRef90_R4YUV7 P T E D D L T A E A I A Q V I G Q P L E E N S E A L I H L E A W C K K R G F Q L
UniRef90_Q1AT03 P T S D D L T H E C L S L L T G R P L A E Y P E A R R H V D E M F R R F G R K P
UniRef90_K9ASY2 P T K D D L T K Q T V A S L F N T T L E M D Q E A M T Y I E N Y F T M T P N N K
UniRef90_UPI00046957FC A G D E D H V S A L L Q E A G A M D L W R I A V K P G R
UniRef90_D2Z8P0 V D A D D V T S S A I E T T T D E T I F K G I P V L P G C
UniRef90_C1D6U1 A T P D D Y T R Q C V A E A A G V P L A I H P E G Q Y P H R I N M V N L P A G S
UniRef90_UPI0004723503 P T N D D I T K P C L A R Y F N C E L A I H E E A L A E V T E F F R S R G R N R
UniRef90_Q3ADY2 M G V K D M V V I D A I N S L G T P G V L F H G L A I K P G K P T I G
UniRef90_UPI00021A7BCC P T H D D I T Y E A L A L A F N D S L H Y H P T L V K I K D C F
UniRef90_A0A044RAM8 P T H D D R T Y E H F M R S M N K I M P D G G L Q R M C T I P K S A R L L W G K
UniRef90_R6K5U2 P T K D D I T K Q T L C K Y F H T E L V F N E E V F E N V K R V K I P M N A L N
UniRef90_F4CVH9 P T A D D L T A E V V
UniRef90_J0AZT4 A T P D D Q T R Q A A A K A L G V E L T L H P E A
UniRef90_W4UKG2 M G A Y E V V R Q G L P E L T F H H V A Q Q P G G
UniRef90_F9L532 V G D F D Y L P E I T Y K A I D A N V L E N K V A Q R P G S
UniRef90_UPI00035DF9AA A T P D D H T R Q C R R L I R E R I S E M Y A E A G K P P E L D T P E N L H R L
UniRef90_D5ASR8 P T H D D I T A D A V A E A F G R S I G I R D D A R A L L A A H Y E F T E A R L
UniRef90_I6ZUI0 P T H D D V I T R K V I V D F F D T E L V M N Q D V L N D I K K L F E S R G R Q E
UniRef90_C6Q2K3 V G Q K D I L H D T I K L I G A E R I F W K V N L K P G T
UniRef90_R5B1I5 P T K D D I T K G V M C R Y F G
UniRef90_UPI0003F49D7A P T H D D I T Y P S L A K A F D L P L E Y D S E T K R R M W
UniRef90_K2S805 P T H D D L T Y Q E R M K R L S K P H P S Q P N F S W D V P S P K K R M V E L P
UniRef90_F2JUP7 V G E E D Y V K D A I E R N G T I N L W K V A M K P G K
UniRef90_H8I646 P T H D D V T R Q A I A V A F G R K L A R N D E A V K V V E A A A R R H A S P
UniRef90_UPI000317AB13 S G P V D H L R A T L R A L G A T T L V G G V T V R P G H P M L L A E L P D
UniRef90_UPI000344D74F M G A F E V V R E A L T P L G G T F H S V A L I Q P G G P Q G F A S
UniRef90_K0NL75 V D P D D V T R T G I Q Q A G A T E M Y Y G S A A C G L F H R I T V L D L L P
UniRef90_Q8EQR8 P T A D D L T R E G F Q Q M T G L P L V E D K S M E K L E G F F T M T P N N R
UniRef90_S3J7G8 A T H D D V T R E A F N W C C D R N S W K K V N E M T S G F G I E N I P Y E S H
UniRef90_C0W419 V G Q G D D T V K E V L A P L G S V R F D A V A M S P G R
UniRef90_W0JRR1 G T P D D V T L E S V A A G L E R D L V V V P A V R E Q I L L E K G R K L R E E
UniRef90_B5EIK3 A G D R D L V R E V L A E L G A Q E Q F W K V A M K P G G
UniRef90_E2BNB9 P T H D D V T F E G L A K A F D D T L H Y H P K L V D I I K D H F G A K D P L S
UniRef90_A8MI49 P T K D D M T K E T A A S F F G K K L I P H E E
UniRef90_UPI0002E6875E A T P D D H T R Q C A A A A L G V P L A L H P E A K E K I Q E R I A D M
UniRef90_UPI00036C3434 P T K D D I T K K V L A E Y V G T E M A F H E E S W E R L Q K I Y
UniRef90_H3ZN42 G G T R D L T A S I L E E L G E I K V H G I A I Q P G K
UniRef90_L8TLP8 Q G A Y E V V R Q A M A D Q P V E F L H V A M Q P G G
UniRef90_UPI0003B691AE A G A Y E V V K N V A P M E F V T V A M Q P G K
UniRef90_D4H5V3 P T F D D L T A E T L G E A A G V G T E M N E E A R R H M V E W
UniRef90_K8RHU7 V G D A D F T R A L M N S L G D V A F W K I A M R P G R P L A F G R L W S G E
UniRef90_H8G4M3 A G A Y E V V K D S L T D A G V T F G F V A M Q P G G
UniRef90_Q39Z82 P T D D D V T A R A A R A T G R R L V L N E E A M G H L R E F F V M H P A N G
UniRef90_H4F0E8 V G D H D L V Q S T L L A A G M T L D F W K I A M R P G K
UniRef90_G8T158 P T A D D L T K P V L A E Y F G G K L V M N E E V R K H V V Y L F E Q V F R R P
UniRef90_F4HEJ3 V G E A D F T K N V L E R L G N I N F W K L A I K P G K
UniRef90_I3UES9 A T P D D K T R T A V A Q A L G V P L A L H P E A
UniRef90_E1V326 V G E E D H V K T A L E S L G R L D L W K L A M R P G K P L A L G
UniRef90_G7WC14 A E D K D K T V E S V L R V D P Q A A T P Y I V K F Q Q G T G R H V K D G V
UniRef90_G7FSY6 V G E A D F T K E V L N D I G D I H F W K I A M K P G K
UniRef90_W7K2D5 P T Y D D R T A E G L A N A V G L P L V Y N E E A E K Y D K L N L D L T E E R K
UniRef90_Q1Q609 P T E N D L T R E I V S D L F N M P L I P S G E S Y T N K P Q C A D T L H E G T
UniRef90_G7LUL7 V G E A D Y T K Q M L E E L G D I H F W K L A I K P G K
UniRef90_W2USP4 P T K D D I T K Y T L C E Y F
UniRef90_S7TYN4 V D P D D R T R F A L A Q A G A V D M V Y G S A V L P G A M F M I T Y V P V L G
UniRef90_UPI000255562E V G D R D I M R D V F T L L G A E Q L F W R M T F K P G S
UniRef90_D5VQB5 A G V G D L T E R A I K E L G G E I L I H G I K I K P G K
UniRef90_UPI00045606A9 P T P D D I T Y E S I A K A F G A G L T Y H D E
UniRef90_D2TYA4 V G E A D Y T K Q T L D E I G S I N F W Q L A I K P G K
UniRef90_I0YTQ1 V G D R D F I K P L L E R Q G T V H F G K V C M K P G K P L T F A T L D
UniRef90_N6Y1N8 V G E A D F I R E M M A R M G E V S F W K L A I K P G R
UniRef90_W0TRM2 A T P D D H T R D C A A R A A G V P L V R H G R A A Q L I E K Q F L D H P H R I
UniRef90_UPI000463BC8D A G P V D H V H P T L R R L G A E L L V D G V A V R P G H P M
UniRef90_UPI000376FAAD A T P D D R T R A C L A E A L G R P L Q R H P E F V D L L E R R F G D Y P H R I
UniRef90_A3JXU5 A G D E D H V S A L L R D T G A L A E W R I A L K P G R
UniRef90_F0S4J2 P T K D D I T K K T M A E Y F G S E K M V V H E P T L K I V R S F F E R R D L P
UniRef90_M5J7T1 P T A D D L T K Q V V A R F V N Q S P L V G D Q A A N K I A H Y F
UniRef90_UPI00037FD8B2 A T P D D F T R Q A A A D A L N V P I E R H K A A V E E I E A Q F G E G A Y P K
UniRef90_UPI0003717523 A T P D D R T R Q S A A L A L G L P I E R H S Q A V A E I E A Q F G E D Y P Q R
UniRef90_K1M8Y2 P T K D D K T K K A Y Q H F F
UniRef90_UPI00046F5BE4 P T T D D I T T S A I A Y T D E K I L Q E I K A R F E K Y R I E W T P N N A
UniRef90_E6X8F5 V G D Y D F V G K A L K A G V K E I F Y K V K Q K P G K
UniRef90_W4GWX3 P T H D D I T Y D S I A K A F D V P L E V H E
UniRef90_B3R1H5 A T P D D H T R Q C A A A L G V P L V L H P E A
UniRef90_N8P1H9 V G D Y D F I R P V T L N L G F E Q I F W K V K Q K P G K P I F F A
UniRef90_R5EY44 P T K D D I T K Q T L C D Y F G
UniRef90_UPI000367E80A A T P D D H T R Q A L A S A S V A L E L N D E A A G L I V A R H G E H P H R I
UniRef90_Q0FA51 A G D E D H I S K L L V I Q K A N L Q T W R I A L K P G R
UniRef90_Q1QIT1 T G E E D H V K A A V E R I G T L V M W R M A I K P G R
UniRef90_UPI0004644596 V G D A D Y V K D I L G E L G E I G F W K V A I K P G K
UniRef90_UPI000375AF01 A T P D D R T R Q C A A A L G L E L A L H P E A E A L L R E K F G A E I T P H
UniRef90_K0C4N7 V G E A D F I A E V L A K I G T V N L W K I A I K P G K
UniRef90_J6IT43 N G D Y D F I K P V V E K L G D L L M T T V A N M R P G K

UniRef90_UPI0003608A01 P L A F G K I G A S Y F F G L P G N P G A V F A T F Q L V V P A L R Q L A G L 130 140 150 160
UniRef90_B2GI19 P Q G C G L V R G V P V L C L P G N P V I S T W V S C E F V R P A L
UniRef90_S2XQY0 P M M G G S Y Q K L P M L S F S G N P Y G T F V N M E F V L P V L
UniRef90_X1SSY6 K Q V Y L P E G A K L I I N R Y G T A P A M I L E K D I I F P G V P H E M K N L
UniRef90_I3REF7 P T I I G L V E G K P I F G L P G Y P T S C L T N F T L L V A P L
UniRef90_G0J571 T P T N Q S Q N C T Y I K N A V I G T A P G M W F E E N G V M P G V P H E M R Y L
UniRef90_A1VH88 M T L I G R I G G A Q V I G V P A C A
UniRef90_F7Z488 K Q A L V I E G S K V F P N D H G M A P G M R N H Y Y M L L P G P P H E L E
UniRef90_F4AYB7 M Q A M V P R K A E V L V N E F G T A P G M W I E N D V S M P G V P Y E M K G L
UniRef90_R4YUV7 E G A S A H H N N C L I I C T P G V P S E L K V M W E L L P L L K S Q L P I I
UniRef90_Q1AT03 K Q A L F P Q G S R L I P N P L I G T A M G A L L T L F A T F P G V P
UniRef90_K9ASY2 Q Q A L V T K G S K V L K N E V G M A P G M Y L E K D K I V A L L P
UniRef90_UPI00046957FC P L A L G M W Q G K P V F G L P G N P V A A L V C L I F A R P A L
UniRef90_D2Z8P0 H I M L A R K G G L P V L G V P A G A V F E T W T S L D L L L P R V F
UniRef90_C1D6U1 R L V P N P V N Q M P G F C V P G F P S M A W P M V E W V L D T L
UniRef90_UPI0004723503 Q Q A A L G V C C T K I T N A I G T A P G M R N G K V F M M P G V P H E M K R M
UniRef90_Q3ADY2 G G I N G K P L L G L P G H P A S A L M V F E R I V P F L R Y L
UniRef90_UPI00021A7BCC R T V F P L V Q M R N V Y A F P G I P E F C T E A L
UniRef90_A0A044RAM8 K S Q A M V P K D C M V I N N P V G S A S V R D G K V L V M P G V P Q
UniRef90_R6K5U2
UniRef90_F4CVH9
UniRef90_J0AZT4
UniRef90_W4UKG2 P Q G A G M V A E T P V L A L P G N P V G A Y V S F I Y V A P L L A R L
UniRef90_F9L532 V T T V A F S N G Q Y L F G L S G N P S A C F T G F E Y V K P A V N K L I G
UniRef90_UPI00035DF9AA K M A E F P Q G A S L I P N P Y N K I P G F S V G S H Y F V P G F P
UniRef90_D5ASR8 R M A R I P E G A S L I D N P V S G A P G F S I G N C H V M A G V P N I F Q A M
UniRef90_I6ZUI0 E Q A L V P K I A V P I R N S R G T A P G I K E N K I F I M P G V P Y E M H L M
UniRef90_C6Q2K3 P V M Y S L Y K N K P I I S L S G N P F A A L T N F E L L V P V L
UniRef90_R5B115
UniRef90_UPI0003F49D7A I D K N K D L G E Q V I F V D D S V P I S V V N G N I H I L P G V P R L F E K L
UniRef90_K2S805 P I V I A K V F N T P L I G L P G N P S S
UniRef90_F2JUP7 R M A E I P E G A V I S N P V I G A A P G I D G R V Y V F P G V P
UniRef90_H8I646 G G T P V V G L P G N P L A A V A G L L T L A A P L L H A L
UniRef90_UPI000317AB13 I R M A G V P D T P V L C F P G N P V S S F L S A E L F L A P I L L R A F A G L
UniRef90_UPI000344D74F R V M A G E H I D K K E L A F L G H G G L C M N C K K C T F P H C P
UniRef90_K0NL75 K Q A R V F E G S T V L N N K A G M A P G M Q S C H W F F L P G V P R E M K H I
UniRef90_Q8EQR8 K Q T L I P A D S K R L T N E N G T A P G F Y L H Q D N I L P G V P S E M K E I
UniRef90_S3J7G8 Q L G V G T V D G T P I F C L P G D P V S A Q I A F E F V R P V L R Q I
UniRef90_C0W419 P E F F E Y G A R P I V T D A G W S P G C V I E N V Y V F A G I P
UniRef90_W0JRR1 P T A F A L Q D G R P V F S L P G N P V I S T M I T F E L L V K P A L L K M M
UniRef90_B5EIK3
UniRef90_E2BNB9
UniRef90_A8MI49
UniRef90_UPI0002E6875E
UniRef90_UPI00036C3434 P T I I G V I D G K P I F G L P G Y P T S C L T N F T L L V P L I R K L L G
UniRef90_H3ZN42 P Q G I G T F E G T P F L G F P G N P V I S C L V S F E F L R P A L S Q L L G
UniRef90_L8TLP8 P Q G F G A G D G R L L F G L P G N P V I S V A V S F E F V R P A L
UniRef90_UPI0003B691AE
UniRef90_D4H5V3 R P G A G E S A L F F G L P G N P V A V M A T F Y F I V R E
UniRef90_K8RHU7 P Q G C G R W H G V P V V T L P G N P V I S V L V S F E F V R P A L R A A L G
UniRef90_H8G4M3 R Q C L L P A K A E L I P N P T G T A S G F Y L C L M F L P G V P S E M A V M
UniRef90_Q39Z82 P L M V G S L G S T H V L G L P G N P V I S S M V C L L E P L L A K L G H
UniRef90_H4F0E8 M Q A E V P D V C T V L P N A R G T A P G M K A G K V F V L P G V P H E M K G L
UniRef90_G8T158 P F A F G K L E N A W F C G L P G N P V I S A F V T F Q L V Q P A I
UniRef90_F4HEJ3
UniRef90_I3UES9 R L P D G N G G E T R F V G L P G N P S S F V A A W L F L R P L M G A L L D
UniRef90_E1V326 R I A V G T V G P S I M V S F P G N P N D E V R L A A G A L I E C L K N N C D
UniRef90_G7WC14 P F A F G K L P N S Y F F G L P G N P V I S A A V T L E L V K P A L
UniRef90_G7FSY6 K M A L M P K G S M P V I E N D K G I A P G I Y L Q Y Q G I T P G V P R E M E
UniRef90_W7K2D5 K K I K S I P S G A L I N D H G T A T G F A I N Y N V C L P G V P G E M R Q M
UniRef90_Q1Q609 P F A F G R L R H A W F C G L P G N P V I S A A L T F Q L V Q P L L A R L
UniRef90_G7LUL7
UniRef90_W2USP4 I P A C G I F A K T T V F
UniRef90_S7TYN4 A I L C G V Y R K K L L I C L S G N P F A A M A N L E L L V P V L
UniRef90_UPI000255562E P T I I G K I G E K L V I G L P G Y P T S C L T V F D A L F
UniRef90_D5VQB5
UniRef90_UPI00045606A9 P F A F G K L K S A W F C G L P G N T V S A I V T F Q L V Q P I I N H L C A
UniRef90_D2TYA4 G A A G S G R G L V V F G L P G N P V I S S I V T F N V V L P A L R
UniRef90_I0YTQ1 P M A F G R I G K A T L F G L P G N P V A V L V T F
UniRef90_N6Y1N8 R M A D L P R G S T L I P N P V N N V P G F S L R E H Y F L P G F P
UniRef90_W0TRM2 L L A R I K E G R Y L V G L P G N P L A A V S G L V T L A P L L R
UniRef90_UPI000463BC8D R M A E L P E G A S L I P N P V N G V P G F
UniRef90_UPI000376FAAD P L A L G M W Q G V P V F G L P G N P V A A F V C
UniRef90_A3JXU5 P C M L F Q K G N K V F I S M P G V P F E M M L L M N K V L P E L
UniRef90_F0S4J2
UniRef90_M5J7T1 R M A D F P A G V D L I P N P V N R V A G F A A G L
UniRef90_UPI00037FD8B2 I H M A E Y P K G A V I I N F Y N R V P G F S I Q N H H F M P G F P
UniRef90_UPI0003717523
UniRef90_K1M8Y2 K Q A M F P S G A R P I Y N P T G T A W G F R E G L I A V I P G V P S E V K R M
UniRef90_UPI00046F5BE4 P L F F G K M G S V S I F G L P G N P A A A L S C F I Y V Y P L L K
UniRef90_E6X8F5
UniRef90_W4GWX3 T L Q R A D H S A C Y L L G L P G N P A A V Y M G M Q I
UniRef90_B3R1H5
UniRef90_N8P1H9
UniRef90_R5EY44
UniRef90_UPI000367E80A R M A E F P L G A H L I P N P V N Q V A G C S F R H H H L L P G F P
UniRef90_Q0FA51 P V A L A L W S N T P I L G L P G N P V A A M V C
UniRef90_Q1QIT1 P L A M G I I G N T P L I G L P G N P V A S F V T F V H V V
UniRef90_UPI0004644596 P F A F G H L G K A V F F G L P G N P V I S S M V T L H Q L L P I L R
UniRef90_UPI000375AF01 R L Q L G T Y G S A I T P N P Y N Q V P G F S V H G H Y F V P G F P
UniRef90_K0C4N7 P L V F G I T G E A F F G L P G N P V I S V M V T F Q I V L P A L H K I M G
UniRef90_UPI00046957FC A Q T F G L V N G T P V F G L P G N P A A A Y M G F Q L I I P A L R

UniRef90_UPI0003608A01
UniRef90_B2GI9
UniRef90_S2XQY0
UniRef90_X1SSY6
UniRef90_I3REF7
UniRef90_G0J571
UniRef90_A1VH88
UniRef90_F7Z488
UniRef90_F4AYB7
UniRef90_R4YUV7
UniRef90_Q1AT03
UniRef90_K9ASY2
UniRef90_UPI00046957FC
UniRef90_D2Z8P0
UniRef90_C1D6U1
UniRef90_UPI0004723503
UniRef90_Q3ADY2
UniRef90_UPI00021A7BCC
UniRef90_A0A044RAM8
UniRef90_R6K5U2
UniRef90_F4CVH9
UniRef90_J0AZT4
UniRef90_W4UKG2
UniRef90_F9L532
UniRef90_UPI00035DF9AA
UniRef90_D5ASR8
UniRef90_I6ZUI0
UniRef90_C6Q2K3
UniRef90_R5B1I5
UniRef90_UPI0003F49D7A
UniRef90_K2S805
UniRef90_F2JUP7
UniRef90_H8I646
UniRef90_UPI000317AB13
UniRef90_UPI000344D74F
UniRef90_K0NL75
UniRef90_Q8EQR8 S
UniRef90_S3J7G8
UniRef90_C0W419
UniRef90_W0JRR1
UniRef90_B5EIK3
UniRef90_E2BNB9
UniRef90_A8MI49
UniRef90_UPI0002E6875E
UniRef90_UPI00036C3434
UniRef90_H3ZN42
UniRef90_L8TLP8
UniRef90_UPI0003B691AE
UniRef90_D4H5V3
UniRef90_K8RHU7
UniRef90_H8G4M3
UniRef90_Q39Z82
UniRef90_H4F0E8
UniRef90_G8TI58
UniRef90_F4HEJ3
UniRef90_I3UES9
UniRef90_E1V326
UniRef90_G7WC14
UniRef90_G7FSY6
UniRef90_W7KZD5
UniRef90_Q1Q609
UniRef90_G7LUL7
UniRef90_W2USP4
UniRef90_S7TYN4
UniRef90_UPI000255562E
UniRef90_D5VQB5
UniRef90_UPI00045606A9
UniRef90_D2TYA4
UniRef90_I0YTQ1
UniRef90_N6Y1N8
UniRef90_W0TRM2
UniRef90_UPI000463BC8D
UniRef90_UPI000376FAAD
UniRef90_A3JXU5
UniRef90_F0S4J2
UniRef90_M5J7T1
UniRef90_UPI00037FD8B2
UniRef90_UPI0003717523
UniRef90_K1M8Y2
UniRef90_UPI00046F5BE4
UniRef90_E6X8F5
UniRef90_W4GWX3
UniRef90_B3R1H5
UniRef90_N8P1H9
UniRef90_R5EY44
UniRef90_UPI000367E80A
UniRef90_Q0FA51
UniRef90_Q1QIT1
UniRef90_UPI0004644596
UniRef90_UPI000375AF01
UniRef90_K0C4N7
UniRef90_J6IT43

UniRef90_T0BN19
UniRef90_C5E2A3
UniRef90_UPI00047C8B8E
UniRef90_C9NXF7
UniRef90_D6DUU5
UniRef90_M1WLW2
UniRef90_W4CHP4
UniRef90_V6MIC7
UniRef90_M1RTN8
UniRef90_Q1WZ6
UniRef90_UPI0004181FB5
UniRef90_UPI0004706694
UniRef90_UPI00035F1926
UniRef90_Q9GRD7
UniRef90_F2LW81
UniRef90_UPI0002487E71
UniRef90_UPI0003792114
UniRef90_Q12CK1
UniRef90_UPI00047B6BEF
UniRef90_UPI000375C74F
UniRef90_UPI00042A7F70
UniRef90_B1M9B8
UniRef90_UPI00037FC9C1
UniRef90_W6RCP6
UniRef90_UPI000479CF5D
UniRef90_UPI0004708C72
UniRef90_B5YIP9
UniRef90_V9FZ05
UniRef90_UPI000370D9E8
UniRef90_UPI000465E441
UniRef90_R6KR60
UniRef90_G4SZD5
UniRef90_F4GQC5
UniRef90_A0A031JC70
UniRef90_L0KZC1
UniRef90_W2EBL9
UniRef90_Q062B9
UniRef90_C6W6E4
UniRef90_A4SRY2
UniRef90_E3GZQ2
UniRef90_UPI0002E6617E
UniRef90_D7CKW6
UniRef90_Q1GUX1
UniRef90_F3FU23
UniRef90_A1WMM9
UniRef90_UPI0004175E65
UniRef90_UPI000468D2A3
UniRef90_X1QAG9
UniRef90_H0FDW9
UniRef90_Q6CFT3
UniRef90_F4HNL0
UniRef90_UPI00036BDFD3
UniRef90_V9ZT74
UniRef90_C6E929
UniRef90_D3L5Q7
UniRef90_U2SCB9
UniRef90_C7N3D7
UniRef90_W6TT00
UniRef90_B5JMX7
UniRef90_A1HS20
UniRef90_UPI0003A38A87
UniRef90_Q8KT68
UniRef90_Q1DCC8
UniRef90_J3E3E0
UniRef90_I0GL46
UniRef90_R5AMM5
UniRef90_Q1K2L6
UniRef90_A1SUX9
UniRef90_UPI000463E464
UniRef90_U2SHZ1
UniRef90_D8FXI4
UniRef90_G7MAR9
UniRef90_E3I9C8
UniRef90_S7X7M7
UniRef90_E2B886
UniRef90_B6IRY1
UniRef90_A1AP00
UniRef90_X1CEM4
UniRef90_A7HC38
UniRef90_L7EKQ9
UniRef90_B1Y4D3
UniRef90_UPI00046EAA8
UniRef90_UPI00046B093E
UniRef90_G2R657
UniRef90_UPI00028838A4
UniRef90_D3E678
UniRef90_B9L5Q0
UniRef90_W4BW37
UniRef90_B4SHC8
UniRef90_A0A059FCP8
UniRef90_D2RHD7
UniRef90_UPI000315D7D6

UniRef90_T0BN19 D C I V H A G D P L 50 P D D V D V I A G A F R R A V E A G F G W I I T T G G V I G G
UniRef90_C5E2A3 G T Q L R E I V T I L G D D Q K E Q I V Q T I K R L S A E N T G Q A D F I V I T T S G G I G G
UniRef90_UPI00047C8B8E H V V V V G D R L D D D L R A A L D F L A G T G Q A D A L V I T T S G G I G G
UniRef90_C9NXF7 G C E I L D N L G I L E D D N E Q S M T E A L Q A S A S A D S A D V V I S S G G V S S
UniRef90_D6DUU5 G C E V I N L G I I P D D P Q K L R A A F I D A D A S A D D L I L L S S G G V S S
UniRef90_M1WLW2 R Y G I V K D D L L E E C L N S A L A T A V A E T D C L I I T T G G V S S
UniRef90_W4CHP4 I Y D T A A D R L E E C L N S A L A T A V A E T D C L I I T T G G V S S
UniRef90_V6MIC7 G A T V I D G G I V K D D Y A A F L A R A R E L F E Q A D L V I L S G G S S S
UniRef90_M1RTN8 G V K P T F L G I L K D D D K E S I L K N T L N R L E E F D L L I S T S G G V S S
UniRef90_Q1IWZ6 G C E V L S L G H A P D S P E R L A Q A V E A A G G A D L L I T T S G G V S S
UniRef90_UPI0004181FB5 G T R V K Q I T S V S D A R E H I L D A L K L A A S R A D V I L I T T G G L G
UniRef90_UPI0004706694 G A D A F L L P I A R D N E A S A I G Q A H S L D L L V T T G G G A S
UniRef90_UPI00035F1926 G I P V E E V R I V P D V Q A R I V E A V N A L R R E R Y A Y V F T T G G I G
UniRef90_Q9GRD7 M H T S V L S D N F E Q T R E S L L D L F E E V D F V I C G G V I S
UniRef90_F2LW81 R F V L S C D D K A Q D I L D T V K F C L N K R V D L V I T T S G G I G
UniRef90_UPI0002487E71 G H V R T S D D P A V F R A L L H G A V T T H R G A D L I L S S G G V I S
UniRef90_UPI0003792114 G C E I I D L G I V P D D Q L D A T L D A L S S A S R E A D L I L S S G G V I S
UniRef90_Q12CK1 Y A D Y V G D D P D R I T A T L A R A F A A A R S E S G D V V F S C G G I G
UniRef90_UPI00047B6BEF G V D I P H L T V C G D R P A D L L A Q L R A F L A A E E V D L I V I T T G G I G
UniRef90_UPI000375C74F G Y E P P R T I Y V P D E R A Q L S R A L A D A L A D S D L V L S T T G G V I S
UniRef90_UPI00042A7F70 W V Q Y H S D D Q A R L S A E V F R R S M A A G E V V V F S C G G I G
UniRef90_B1M9B8 G G E P V R L G I V R D D A A V L E A L H S A L R D S D L V V L S S G G T S
UniRef90_UPI00037FC9C1 G V N V Y Y H T A V G D N P N R L T D A I K Q A E K R A D L L I F T G G L G
UniRef90_W6RCP6 G A E V L D L G I V P D D I A A I S A A V E R Q R Q A E V D V I V T L G G A S
UniRef90_UPI000479CF5D G I D L K E V R F V S D D Q D A I E A V N Q L R E R N T Y V F T T G G I G
UniRef90_UPI0004708C72 G C E P I D M G S V K D D P D A L R A A L R S A C A H A D V V L I T T G G I S
UniRef90_B5YIP9 G A I P L K M G I I K D D E Y A I K K A V T K A Y E L S D L V L I T T G G T S
UniRef90_V9FZ05 G V D L K R V V V I P D E E D A I K T V K E L S D F V I G P S Y V F T T G G I G
UniRef90_UPI000370D9E8 G C D V R R V E V C S D E P D D L R A R L D A L D A D P E V D L V V I T T G G V I S
UniRef90_UPI000465E441 G C L V R E I E F I P D E E R L I E A L R R W A G Q V E L V L S G G L G
UniRef90_R6KR60 G A E L T R I D K I P D N P Q D M A E A V R E A A E V S D L I I T T G A V S
UniRef90_G4SZD5 D L G V V P D D K A Q L E N L L J A A A D T H D A I I T T G G A S
UniRef90_F4GQC5 G A N A V H V L H A L D T E A S L Q S A L S T L L Q D C D L V L T V I G V S
UniRef90_A0A031JC70 C D V T D L G I V P D N L D A M T G A L E Q A A K A D I V T T G G A S
UniRef90_L0KZC1 G A K P I V Y G I V K D D E R A M S D A I D S A L Q E C N M V L T T S G S T S
UniRef90_W2EBL9 I K V T I L P D K V E T A K S A I L A A M D E Y D L V L T T G G V S
UniRef90_Q062B9 H H Y V V A D E P Q T L R Q T L Q D L S K Q E C D V V V L S G G I S
UniRef90_C6W6E4 T V I S Y A S D A L E A T T A A L K A L I D E H D V V L A S G G I S
UniRef90_A4SR2 G W Q V H R R A T V G D N L A D L K N V L Q E S A S R T D V V L V C G G I S
UniRef90_E3GZQ2 V V R R I S I G D D P E L L I E H L R E E Y E T F A P S D I I V T S G G I S
UniRef90_UPI0002E6617E G A A V A D S I V N D D V D D F R T A L G E R I R A V D P D L V V I T S G G I S
UniRef90_D7CKW6 G A E P C R Y P L V A D D R K E K I K E A V L R C A S Q T D I I V V C S G S S
UniRef90_Q1GUX1 V Q P R H I R D D R A T L A K I L K E L A R S H D V I V T V I G G A S
UniRef90_F3FU23 C E V V D A G I L P D D L E K T R A A L A N L Q G V D L I L S T T G G V S
UniRef90_A1WMM9 L A Y A N Y V G D H P E R I T A C L Q R Y A F A S D D M V F C C G G I S
UniRef90_UPI0004175E65 G T V L Q I E Y V T D N P R I T G A L E R Y F A S Q V N C V I T T T G G V S
UniRef90_UPI000468D2A3 G H R A V D L G R A P D Q R E M L K A M L D A A E K V D V I I T S G G A S
UniRef90_X1QAG9 G T K Y I R Y G I A K D E K K L L E E K I R E A L S E C D I L L S S G G V S
UniRef90_H0FDW9 H V L H A R D T E T L L A F K T L L A D C D L V L S V I G V S
UniRef90_Q6CFT3 K V E V V P D D E K D I V E S I Q R L A S R Y D F I V I T S G G I G
UniRef90_F4HNL0 G G E G I F L G V A K D E K K S L S E L I K K G I E I A D I V I I S S G G A S
UniRef90_UPI00036BDFD3 G A R V V L Q Q R V V D N Y D R T V S A L L R E A A E L A D I I S C G G V S
UniRef90_V9ZT74 G W Q V R R R L T V G D N L A D L K A A L Q E S A S R A E V V L V C G G L G
UniRef90_C6E929 G G D P I V L G I A A D T L E D T C E R L R A G L D A D M L V I T T G G V S
UniRef90_D3L5Q7 G Q N L A G D D Q Y E I S E A I R N F L N S G A D L I I C T G G M S
UniRef90_U2SCB9 G I D V H R Q T T V G D N R D R I L Q T L S T A F C E N D T V I I T T G G L G
UniRef90_C7N3D7 G G E P V L W D I V P D D R E R I T A A L C E A C T K A D I V V V N A G S S
UniRef90_W6TT00 G I K V K Q I T S V S D D A D H I T E A L A L A E K R A K D V I I T T G G L G
UniRef90_B5JMX7 G F P N V E L V H I P D D P E L I E T R L R E L T A R C D A I V L A G G V S
UniRef90_A1HS20 G Y T A V R Y G I I G D N Y A S E I Q L K L A E A A A C D A V L I T S G G S S
UniRef90_UPI0003A38A87 G I E I K Y K M M V R D V I S I K N A F S F A K K N V D L I I T T G G L G
UniRef90_Q8KT68 G Y K V K Q H Q V C A D D I N Q I A T A V V R R L G Q D T L I V V C G G L G
UniRef90_Q1DCC8 G V K V E R V V L V G D V R P D I T Q S L K E A A S R A D V V V S S G G L G
UniRef90_J3E3E0 G C E V I D L G C V P D E P A L L R A A L V G V G V D V I I T S A G V S
UniRef90_I0GL46 Q L L F V R D N L D L K R V L N F T K D Y F D V V I T S G G L G
UniRef90_R5AMM5 G V T I E S V A I V G D D G A A M R R A I A D G L A H A D A V I T T G G L G
UniRef90_Q1K2L6 G V E V T Y A T I L P D V K E Q I S A L I R A A A E D S E A D M I L T T G G T S
UniRef90_A1SUX9 V D I I D F G I V K D D K N Q L R E A F I N A D Q Q A D V V I S S G G V S
UniRef90_UPI000463E464 G V D R I V Q R W V P D L P E M E R A I G E W I P E V D L V L S S G G L G
UniRef90_U2SHZ1 G A D V R E L T R A P D D E H A L R E A L T R L A P R V D V L I T T G G A S
UniRef90_D8FX14 G A E I I R L G I T P D D R E K L K D A I A S A I S T A D I V L S T G G V S
UniRef90_G7MAR9 Y Y Q Q V V G D N E D R I T H A F E E A Y S R S D I I I T T G G L G
UniRef90_E3I9C8 G I N V Y F H T V V G D N A D R I L E K A V K V A Q T R A N L I I F T G G L G
UniRef90_S7X7M7 G I S V Y Q I T S I Q D D K M H I L K A L K E A E G N A D I I I T G G L G
UniRef90_E2B886 Q R V T V V P D V V D I A K K V K N A S Q E Y P V F T S G G V S
UniRef90_B6IRY1 G C D V T D L G I V P D S A P A M D R E A L T A A A R R H D L V V S S G G V S
UniRef90_A1AP00 G G I P L Q R G I P D D F A L L S A A R S A L E E A D C L V V S A G S S
UniRef90_X1CEM4 G G E A R V Y E I V K D I P Q D L K K V L Q K A K Q Q N D I V V V I A G S S
UniRef90_U2A7HC38 G V R L D A I L T L P D R L D D V I E A V D R A R R R A T W V F T S G G V G
UniRef90_L7EKQ9 G F E F I S F G I V Q D N K E V I K Q K I L V A M E I A D V V I T S G G A S
UniRef90_B1Y4D3 W A Q Y L G D D P A R I T A A L R I A F A S G D A V F S C G G I G
UniRef90_UPI00046EAA8 G A D V I A V A T A E D D V A Q I F G S L L E R H A P E N E V D I I T S G G V S
UniRef90_UPI00046B093E G I E V L R I V S I R D R K E E I T E A I D S A M K R A N I V L V T T G G L G
UniRef90_G2R657 E A E F L G V L D D D L A T L R S H I R K A A D A E R S D L I I T S G A V S
UniRef90_UPI00028838A4 G I E I R Q V S V D D N L D E I V R E L N Y C T K N S R A D I I I T S G G L G
UniRef90_D3E678 G I D V Y Q T V V G D N L E R L K E A L R L S S S R A D I V L S S G G L G
UniRef90_B9L5Q0 I I G L I P D S L E K T V E Y I K T L K N E Y D V I I T S G G I S
UniRef90_W4BW37 G G E P V M Y G S A A D D V N T A R A K I E E A L Q D N D I V V I T T G G V S
UniRef90_B4SHC8 G I E P A V A H H A P D E R V V L R E L L A R A L G E C D L L L T A G G I S
UniRef90_A0A059FCP8 G I Q V H E A R T V P D V Q A R I V E A V N A L R A A Y T Y V F T T G G I G
UniRef90_U2RHD7 N C E P S V Z R H D I V R D D F A R I K K A I I Q A L S V G D C V I T T G G T S
UniRef90_UPI000315D7D6 G I R H R I T S V S D T A R H I E Q A V G E A L K R S D V V I C T G G L G

UniRef90_T0BN19 A E D K D F S V E A L L R V C P D A A T P Y I V K F G E G G H R H V K D G I 90 100 110 120
UniRef90_C5E2A3 P T H D D I T Y E S V Y E C Q D R M R K I S H P E K R H D P E T L K D F Y R M A
UniRef90_UPI00047C8B8E P T A D D L T A E V V
UniRef90_C9NXF7 V G D A D F L K L A L D K L G S I D F W R I N M R P G R
UniRef90_D6DUU5 V G E A D Y T K T L L E E L G E I A F W K L A I K P G K
UniRef90_M1WLW2 I G V R D L T V E I T E A M E D S A L L A H G V A L S P G K P T I
UniRef90_W4CHP4 V G D Y D Y L P E I Y K R L G A D V L F N K V A M R P G S
UniRef90_V6MIC7 V G T R D Y T E Q V M Q A L G E P G V L V H G V S I K P G K
UniRef90_M1RTN8 V S D K D F T K E A V K E L G F D V K F H K V A V K P G K
UniRef90_Q1IWZ6 M G R Y D F M R D L L E R G Q V I F W K V R M R P G G
UniRef90_UPI0004181FB5 P T K D D I T K K T L A E Y F A V N L Y Q D E E
UniRef90_UPI0004706694 V G T Y D L V R S T L E A H G L D L N F W K I A M R P G R
UniRef90_UPI00035F1926 P T H A D A I A A A F G I G I D K H P D V M A M L Q E R Y D E I G T E F T E A R
UniRef90_Q9GRD7 M G D K D F L K P V L E D L K F K I H C G R V N M K P G K
UniRef90_F2LW81 P T F D D I T T E S V A T A L G K G L Y L D S E A L K F I H D F Y T K L Y Q E G
UniRef90_UPI0002487E71 H G R F E V V R Q V L G D A S G T G G T G G T A W F G H V A Q Q P G G
UniRef90_UPI0003792114 V G E E D H V K V A V Q Q L G A L D L W R L A I K P G K
UniRef90_Q12CK1 A T P D D H T R Q C A A K A L G V A L A L H P E A K R L I M
UniRef90_UPI00047B6BEF P T A D D L T V A V V A E F T G R P L R T D P E I R E V I E S V I R G W
UniRef90_UPI000375C74F V G D H D L T V R P V A A A L G V R E V F W Q V A Q K P G K P L Y F G
UniRef90_UPI00042A7F70 N T P D D Y T R Q A A A A L G V G L A L S P E A E A E L R L R F G D E L T D V
UniRef90_B1M9B8 K G T G D V S H R V L S R L G E P G L F H G V A L K P G K P L C V
UniRef90_UPI00037FC9C1 P T K D D L T K E L I A D H L Q R E M E T D H E A W E R I Q N Y F K M T A N N E
UniRef90_W6RCP6 V G D H D L V Q A T L L A A G M N L D F W R I A M R P G K
UniRef90_UPI000479CF5D P T H D D I T A D A I A A A F G L P C D Y D L L A E H Y K N R G I E F T Q S R K
UniRef90_UPI0004708C72 T G A A D Y I R Q I M A E L G D V A F W K L E M R P G R P L A F G
UniRef90_B5YIP9 A G T K D L T A K L I N E L G L P G V L F H G A S I K P G K P I I G
UniRef90_V9FZ05 P T H D D I T Y E S I A K A H E P T F F A A M K F A E E K Y P T I P F D D S V K
UniRef90_UPI000370D9E8 A G A Y E V V R Q V C E P L P T F D F V H L A M Q P G G
UniRef90_UPI000465E441 P T H D D K T R Q A L A S Y L G V P L E V N H Q A Y N K I V G R Y S L S
UniRef90_R6KR60 V G K K D I M H E V R L S L G A Q R I F W R L E M K P G M P T L F S
UniRef90_G4SZD5 V G E A D F I Q E L L D K I G R V E L W K I A V K P G K
UniRef90_F4GQC5 V G E K D L V K P A F A E Q F G G T L D L W R V C M K P G K
UniRef90_A0A031JC70 V G D H D L V R P A F A K A G S L D F W K I R M R P G K
UniRef90_L0KZC1 A G V G D V M Y K I I D E K G K T L L H G I S I K P G K P V I I
UniRef90_W2EBL9 V G D Y D V L Y D M V A N W D G K L L F N K L R M R P G S
UniRef90_Q062B9 A G D S D W I R P L V A E L G A V E F W K L F L K P G R P
UniRef90_C6W6E4 V G D Y D F V G K A L E A L G A E T I I T L F P E W F Y K V R Q K P G K
UniRef90_A4SR2 P T A D D L T A Q A A A E A F G Q P L T L F P E W
UniRef90_E3GZQ2 H G K Y E V V R N A I A M A P S L G L P I P L S W F G H V S Q Q P G G P Q G V
UniRef90_UPI0002E6617E A G R F E V V Q Q S L A D S A D L D G Y T P H V G F G S I A M Q P G G P Q G A G
UniRef90_D7CKW6 A G R E D F T A E I V Q E A G R L L V H G L A T K P G K
UniRef90_Q1GUX1 V G D H D F V R G A L G D A G G R L D F W R I A M K P G K
UniRef90_F3FU23 V G E A D F L G H A L R E E G E L T L W K L A I K P G K
UniRef90_A1WMM9 A T P D D H T R Q C A A R A L D C E L V L H P E A
UniRef90_UPI0004175E65 A G D C D F V P E A L R Q L G A Q L H I E K V W M R P G S
UniRef90_UPI000468D2A3 A G D E D H V S A L L D K A G A M A L W R I A I K P G R
UniRef90_X1QAG9 V G D Y D F V K E I L L I G I G A E L T E W R V N Q K P G K
UniRef90_H0FDW9 V G E R D L V K L S L W K V A M K P G K
UniRef90_Q6CFT3 P T H D D I T Y E A I I A K A F D M G V E Q H P A T V D R M T R L S R R K I D F S
UniRef90_F4HNLO G G M R D L T A S V I E E L G E I K V H G I A I Q P G K
UniRef90_UPI00036BDFD3 V G D E D H V K A A L Q T L G E L S L W K V A M K P G K
UniRef90_V9ZT74 P T A D D L T A Q A A A E A F D Q P F P D W L A T M A E R Y A S R G R T M A Q S
UniRef90_C6E929 V G D R D Y V K A A I E R L G G E I Q F W K V N M K P G K
UniRef90_D3L5Q7 V D A D D N T P R A I A Q T C D E V K F K G I P V L P G S
UniRef90_U2SCB9 P T D D D I T K E C A A E Y F N R D F Y F H E Y S W
UniRef90_C7N3D7 K G S D D W N I E M L D E V I T V L Y H Q T N H G P G H
UniRef90_W6TT00 P T K D D I T K A H I T E I F K R H N R P M I E S N I K Q C T V I K N E N G T A
UniRef90_B5JMX7 K G K Y D Y I P E T L A K L G V S I R F Q W V S Q R P G K P M W Y G Q F S
UniRef90_A1HS20 V G A R D Y T V K A I E A L G G P G V L L H G I A V K P G K P T I
UniRef90_UPI0003A38A87 P T D D D I T K E A I A D F L K K
UniRef90_Q8KT68 P H P D D K T R E A I A K A V G S P L E I W V E I E Q Q L E K L G V Y C D P S N
UniRef90_Q1DCC8 P T A D D F T L E C A A E A A G V P L E E D A Q V L D W L H Q R Y S P N P S A L
UniRef90_J3E3E0 V G D A D C I G A L L R E S G D V Q L W K L A I K P G K
UniRef90_I0GL46 L T P D D I T L K A F S E A F N V P L V K S K E K R E L V K K N I E R V N A I Q
UniRef90_R5AMM5 P T R D D I T K S V M M E I F G
UniRef90_Q1K2L6 V D P D D V T V C A M K E A G V V F H E K G N P I Q P G N
UniRef90_A1SUX9 V G E A D F I K D I L F E L G S I N F W K L A L K P G K
UniRef90_UPI000463E464 P G E T D L V P K V L A S L G C T I H F H G V E I R P G K
UniRef90_U2SHZ1 V G D K D F V K R V L T T L G A R F F V D G V A L K P G K P
UniRef90_D8FXI4 V G D Y D Y V E E I I
UniRef90_G7MAR9 P T A D D L T K E V A A K Y F N K E L L Q H E E
UniRef90_E3I9C8 P T K D D L T K E T I A R L L Q R E L V I D K E A L H S I E A Y F T M T E N N K
UniRef90_S7X7M7 P T K D D I T K H T I C E Y F
UniRef90_E2B886 P T H D D V T Y E A V A K A F R L K L E S H Q E L L D T Y L R M N P N Q P E I K
UniRef90_B6IRY1 E G E E D H L C G A L Q A A G R L D F R G L A I K P G R
UniRef90_A1AP00 V S T R D L T A D V I N R L G A P G V L V H G I A L R P G K P A I
UniRef90_X1CEM4 A G S K D F T S E L V K S I G E V L V H G V A I M P G K
UniRef90_A7HC38 P T H D D V T V P A V A R A L G R P L V R S G P L C E S I R A M H R R H H D G A
UniRef90_L7EKQ9 K G D Y D F V E D I L V E L G A D I K F D S V A I K P G K
UniRef90_B1Y4D3 A T P D D H T R Q C A A A A L D R P L A L H P Q A R D L I M
UniRef90_UPI00046EAA8 A G A Y E V V K D A F G R D G D Q G V E F V K V A M Q P G M
UniRef90_UPI00046B093E P T K D D I T K Q T L C E Y F H V F N E D V Y E N I K R V L A G K I P M N A L N
UniRef90_G2R657 K G R F D Y I R A A L D E M G T E I M F H G L Y I R P G H P V L F G L V P S K E
UniRef90_UPI00028838A4 P T E D D I T K E A V A K F L N R S L I Y I D E E
UniRef90_D3E678 P T Q D D L T K D A L A S F L N R S L H I D R M A M D R I E R F F V M T E N N R
UniRef90_B9L5Q0 F G D A D F L F E A F K Q N G L K E F F H G I L E E H V E M L F N K V T M R P G S
UniRef90_W4BW37 V G D Y D I M G E L L S A L G V I K K F W N V A Q K P G K P
UniRef90_B4SHC8 Q G E Y D F V Q Q E L P T H A D A I A A A F G V G I G E H P D V I A M L S E R Y A E M K T E F S P A R
UniRef90_A0A059FCP8 V G K G D L V P E V V K E I G K I V F H G I S I K P G M
UniRef90_D2RHD7
UniRef90_UPI000315D7D6 P T K D D I T K H T I L A R M F G

UniRef90_T0BN19 R I G V G K V G L S Y L V T F P G P H D E V R L C T D M L L S Q L
UniRef90_C5E2A3 T L P A G P E V H S Y Y V L K E F W V P I V S I Q K V Y L L P G L P Q L F E K L
UniRef90_UPI00047C8B8E
UniRef90_C9NXF7 P L A Y G Q V N D K P F F G L P G N P V A V M V S F N F I E P A L R
UniRef90_D6DUU5 P F A F G K L P H S W F C G L P G N P V S A A L T F Q L V T P L L R
UniRef90_M1WLW2 L G R V G S K P V L G L P G Q V T S A L V V M H V I L P L R H L
UniRef90_W4CHP4 V T T V A V A G D K P F L G L S G N P S A C F T G F E F V R P A L
UniRef90_V6MIC7 P T L L A K A G E K P I M G L P G H P A S A L I I F H L F T A P L
UniRef90_M1RTN8 P M M F A T K G D K L F F G L P G N P V S C V T N F D F V R P S I K
UniRef90_Q1IWZ6 P A L L G R W Q G L P V F G L P G N P V S S L V V F R V I V P A L
UniRef90_UPI0004181FB5
UniRef90_UPI0004706694 P L M F G Q L G H T P V I G L P G N P V A A L V C L V F I A P A L R K L L G Q
UniRef90_UPI00035F1926 Q R M A R I P D G R L I E N P V S G A P G F Q T G N V F T L A G V P S I V Q G M
UniRef90_Q9GRD7 P M T F A S R N D K Y F F G L P G N P V S A F V T F H F A L P A I R F A
UniRef90_F2LW81 K I E T G G I N K K H L F C L P G L P K E M K P M F E K V L P V L R
UniRef90_UPI0002487E71 P Q G C A V F A G V P V V C L P G N P V S T A V S F R F V A P A L G E A
UniRef90_UPI0003792114 P L A Y G N V S G T P F L G L P G N P S A V F V T F A I I
UniRef90_Q12CK1
UniRef90_UPI00047B6BEF
UniRef90_UPI000375C74F V R D D G D A R R L I L G L P G N P G A V L I G L
UniRef90_UPI00042A7F70 R R L L G P L G S E L I P N P F N R I P G F M V K E H Y F V P G F P Q
UniRef90_B1M9B8 Q R M A R I P D G R L I E N P V S G A P G F Q T G N V F T L A G V P S I V Q G M
UniRef90_UPI00037FC9C1 K Q A H I I K G A K V L P N E H G M A P G V K E G Q H F L L P G P H
UniRef90_W6RCP6 P L M V G S L G D T H V I G L P G N P V S S L V C L L F L E P L I R
UniRef90_UPI000479CF5D R M A R M P E G A H H I D N P I S K A P G F V V G N V H V M A G V P H V V H S L
UniRef90_UPI0004708C72 R I A A N G R S A L L F G L P G N P V A A M V A F
UniRef90_B5YIP9 G V I C N G K P V F G L P G H P V A V Y I C F E F V K P V I N Y V F G L
UniRef90_V9FZ05 R M A I L P V G C K L V P S S G W T P I A V V H N V Y I L P G I P S M V K N M
UniRef90_UPI000370D9E8 P Q G L G R Y G S T P V V C L P G T P V G A F V A F H V L V P A L D H
UniRef90_UPI000465E441 E R D A V E R G T S P L H N S K G S A L G I S F R I D F S F P G V P
UniRef90_R6KR60 V Y E G T P M L S L S G N P F G A A V S V D L L I
UniRef90_G4SZD5 P L A F G S I G A C R F F G L P G N P V S V V L A F Q I V I P G L
UniRef90_F4GQC5 P V A L A H A A N K P V V C L P G N P V S A F A V F T L V S P L L R
UniRef90_A0A031JC70 P L M A G H L G D A V F L G L P G N P S A F V T A Y L F L L P L V R H
UniRef90_L0KZC1 G T V D D V P L I G L P G N P T S A L S I F E F L A P M I Y D S L E T I
UniRef90_W2EBL9 P T T A G I Y K D R L L A L S G N P G A C Y V G F
UniRef90_Q062B9 F A F G T L G D G V P F F L G L P G N P A A A V T A L Q L L W P A L
UniRef90_C6W6E4 P L L F G K K G D K L I F A L P G N P A S S L V C Y E Y V L P A L R
UniRef90_A4SRY2
UniRef90_E3GZQ2 N V L D F N G H R L P M I S F P G N P V S T L I S Y V L M L R P Y L
UniRef90_UPI0002E6617E V L R C D E G N C V P T V C F P G N P
UniRef90_D7CKW6 P A I L G L I E G K P V I G V P G Y P V S A A L V F E L L A R P L I Y
UniRef90_Q1GUX1 P L I A G T L G D A L L G L P G N P S A F V T A T F L F L R L V R H L
UniRef90_F3FU23 P L T F G H F R G V P V I G L P G N P A S T L V I T F A L L
UniRef90_A1WMM9
UniRef90_UPI0004175E65 P F V A A T L G D T V V F G L S G N P A A C T V Q F E T L V R A
UniRef90_UPI000468D2A3 P L A L G M W Q G V P V F G L P G N P V A A L V C L V F A R P A L
UniRef90_X1QAG9 P L V F L K Y K D G F I F G L P G N P V S V M V C F E
UniRef90_H0FDW9 P V A L A Q I D G K P V V S L P G N P V S A Y A V F A T L V
UniRef90_Q6CFT3 D T E A R T A Q L R M A S F P V I P R P Q G A T T A L P E L P N T V D I
UniRef90_F4HNL0 P T I I G E I N G K P V L G L P G Y P T S C L T N F T L V V P V L L R A L G
UniRef90_UPI00036BDFD3 P L A F G R V E D K P F V G L P G N P V S A W V T F Q L V R P A L K
UniRef90_V9ZT74 N S K Q A W
UniRef90_C6E929 P L A F A S L Q G K P I F A L P G N P V A A M V S F E L I L K A M G H
UniRef90_D3L5Q7 M L M V G M K G E K V I I G A P A C V V H D E W T S L D L V L P R I F A G L
UniRef90_U2SCB9
UniRef90_C7N3D7 H S S A A V V D G T P V V G I S G P P R G A G F T A D F Y L P V I K R Y L R Q
UniRef90_W6TT00 P C M W F E H N G N I V S M G V P F E M M Y L M E Q I L P R L K G A F K L
UniRef90_B5JMX7 R D G S R L P V F A L P G N P V S C F T C L R Y V I P A L
UniRef90_A1HS20 F G M V G A V P V F G L P G H P V S A
UniRef90_UPI0003A38A87
UniRef90_Q8KT68 R F Q A M F P S E A K V I N V T G T A P G F S L N V D V V L P G P P S Q M R L M
UniRef90_Q1DCC8 R M A R V P Q G S E P V K N P E G S A P L V V M K L G F F L P G V P R E F K A L
UniRef90_J3E3E0 P L T F G H V G G V P L L G L P G N P G S A L V T F L L L A R P Y L L A R M
UniRef90_I0GL46 Y I D L G L L G S M P I E N P T G V A A G I K I G N T Y I L L P G V P R E F E A M
UniRef90_R5AMM5
UniRef90_Q1K2L6 N L T I G R A G N V P V C A V P A A A L F F K T A L D I F L P R I
UniRef90_A1SUX9 P F A F G K L P S S V F F G L P G N P V S A M V T L
UniRef90_UPI000463E464 P F L F A S R G G T L V L G L P G N P G A L A L F W L F V K P L L
UniRef90_U2SHZ1 V A V A R L G D T T V V V L P G N P G A A T V A F D Q L A R L L K H
UniRef90_D8FXI4
UniRef90_G7MAR9
UniRef90_E3I9C8 K Q A L V L Q G S T V F R N E H G M A P G M A M T V G A I
UniRef90_S7X7M7
UniRef90_E2B886 R L A I V P N P C K I I Y L L P G S P K Y F E A A V D T I V P Q L K
UniRef90_B6IRY1 P V A L G R I G E T P V V G L P G S P V A A M I A F L K L V R P L V H
UniRef90_A1AP00 L G V C D G K P V I G L P G N P V S A M V V A D F L G P L L R R I
UniRef90_X1CEM4 P T I L G I I D N T P F I G L P G Y P S A V I S A E Q F L K T L V F H K L G L I
UniRef90_A7HC38 E R M A D V P E G T R L L G D P S F T L A V E N V V M L P G V P Q F F R
UniRef90_L7EKQ9 P I S F A T I K D K L I F S L P G N P L A A I T T F E F I V A
UniRef90_B1Y4D3
UniRef90_UPI00046EAAB8 P Q G V G R V A G T T I V T L P G N P V S A L V S F E F I R P A L R T A M G L
UniRef90_UPI00046B093E K S Q A M V P K D C T V I N N P I G S A S V
UniRef90_G2R657 S K A A F F G L P G N P G A A A A C F R L L
UniRef90_UPI00028838A4
UniRef90_D3E678 R Q A L A I E G G T P L P N E T G L A V G N A V S Y E I V L P G
UniRef90_B9L5Q0 P T M A G I M G E T E V F A M P G N P
UniRef90_W4BW37 V T T A A I Y K D K L F A L S G N P G A C F V G F G F V R P T I R
UniRef90_B4SHC8 L Y F G S S S E G K A V F S L P G N P V S A L V C F E Y C I P A I
UniRef90_A0A059FCP8 R R M A I P H G A T L V A N P V S G A P G F Q M E N V F T L A G V P Q V A R A M
UniRef90_D2RHD7 P T G L G V I D G K P V L M L S G F P V A C L I G F E L I F P H V L A K L
UniRef90_UPI000315D7D6

UniRef90_T0BN19
UniRef90_C5E2A3
UniRef90_UPI00047C8B8E
UniRef90_C9NXF7
UniRef90_D6DUU5
UniRef90_M1WLW2
UniRef90_W4CHP4
UniRef90_V6MIC7
UniRef90_M1RTN8
UniRef90_Q1IWZ6
UniRef90_UPI0004181FB5
UniRef90_UPI0004706694
UniRef90_UPI00035F1926
UniRef90_Q9GRD7
UniRef90_F2LW81
UniRef90_UPI0002487E71
UniRef90_UPI0003792114
UniRef90_Q12CK1
UniRef90_UPI00047B6BEF
UniRef90_UPI000375C74F
UniRef90_UPI00042A7F70
UniRef90_B1M9B8
UniRef90_UPI00037FC9C1
UniRef90_W6RCP6
UniRef90_UPI000479CF5D R
UniRef90_UPI0004708C72
UniRef90_B5YIP9
UniRef90_V9FZ05
UniRef90_UPI000370D9E8
UniRef90_UPI000465E441
UniRef90_R6KR60
UniRef90_G4SZD5
UniRef90_F4GQC5
UniRef90_A0A031JC70
UniRef90_L0KZC1
UniRef90_W2EBL9
UniRef90_Q062B9
UniRef90_C6W6E4
UniRef90_A4SR92
UniRef90_E3GZQ2
UniRef90_UPI0002E6617E
UniRef90_D7CKW6
UniRef90_Q1GUX1
UniRef90_F3FU23
UniRef90_A1WMM9
UniRef90_UPI0004175E65
UniRef90_UPI000468D2A3
UniRef90_X1QAG9
UniRef90_H0FDW9
UniRef90_Q6CFT3
UniRef90_F4HNL0
UniRef90_UPI00036BDFD3
UniRef90_V9ZT74
UniRef90_C6E929
UniRef90_D3L5Q7
UniRef90_U2SCB9
UniRef90_C7N3D7
UniRef90_W6TT00
UniRef90_B5JMX7
UniRef90_A1HS20
UniRef90_UPI0003A38A87
UniRef90_Q8KT68
UniRef90_Q1DCC8
UniRef90_J3E3E0
UniRef90_I0GL46
UniRef90_R5AMM5
UniRef90_Q1K2L6
UniRef90_A1SUX9
UniRef90_UPI000463E464
UniRef90_U2SHZ1
UniRef90_D8FX14
UniRef90_G7MAR9
UniRef90_E3I9C8
UniRef90_S7X7M7
UniRef90_E2B886
UniRef90_B6IRY1
UniRef90_A1AP00
UniRef90_X1CEM4
UniRef90_A7HC38
UniRef90_L7EKQ9
UniRef90_B1Y4D3
UniRef90_UPI00046EAAB8
UniRef90_UPI00046B093E
UniRef90_G2R657
UniRef90_UPI00028838A4
UniRef90_D3E678
UniRef90_B9L5Q0
UniRef90_W4BW37
UniRef90_B4SHC8
UniRef90_A0A059FCP8
UniRef90_D2RHD7
UniRef90_UPI000315D7D6

UniRef90_H2G677
UniRef90_Q3JBD9
UniRef90_UPI0002F191AF
UniRef90_T0IB23
UniRef90_UPI0003609BB0
UniRef90_UPI000255B15F

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm