

1 10 20 30 40
QUERY V E K T P W E L V I D F H G H T C P D G L A L G Y R I A Q L A Q R E M G I V R P A A E
UniRef90_D5XEN1 T P W E K V I E F F H G H A C C P P G L A L G Y R V S E I A L K H L A E E L S R A K A E P
UniRef90_C9R7M8 N R S T D W E K V I E F F H G H A C C P P G L A L G Y R V S E I A L K H L A E E L S R A K A E P
UniRef90_R4KBA7 M E K T P W E K A V I E F F H G H A C C P P G L A L G Y R V S E I A L K H L A E E L S R A K A E P
UniRef90_K4LHS1 E K T D W E K A M E F F H G H I C C P P G L A L G Y R V A K A G M E L L A G A E R R S R P P
UniRef90_C8VWV0 M E K T D W E R A V D F F H G H S T C C P P G L A L G Y R V A Q I A L L S R L L A G A E R R S R P P
UniRef90_Q2RIG2 D W D R A V A V F F H G H S T C C P P G L A L G Y R R A K I L A L R S E R L L A G A E R R S R P P
UniRef90_Q2FQA7 Y E Q A V I E F F H G H S T C C P P G L A L G Y R V A V A A L L K A L L A G A E R R S R P P
UniRef90_F6CR60 D K G D W E K V I E F F H G H S C C C C P P G L A L G Y R R A K I G L Q E K L A G A E R R S R P P
UniRef90_I4A4C7 M D E Q L W E K A V A F F H G H E C C C C P P G L A L G Y R R A C E I A V E K L N L L T F F S S K E
UniRef90_R7RMH6 M N K E L W K K V I E F F H G H E C C C C P P G L A L G Y R R A C E I A V E K L N L L T F F S S K E
UniRef90_K0NCV6 M N S N D F K Q C V I E F F H G H V C C C C P P G L A L G Y R R A A K A G M A W L K E L L E N D R D I
UniRef90_D5X7L6 V E K T P W E K A V I E F F H G H A C C C C P P G L A L G Y R R A A Q L A L L Q E L L G V I R F T S E
UniRef90_W0ECH1 V E K T P W E Q V T D F F H G H T C C C C P P G L A L G Y R V A V L A Q K E M G I R F T S E
UniRef90_A0A037Z7Z7 M N K T L W E K V I E F F H G H E C C C C P P G L A L G Y R M A S Q I L A M E E K M G L K D R D I
UniRef90_Q8THB5 A P F S E V S K F F H G H V C C C C P P G L A L G Y R R A A R A G M E E K M G S V L D R D I
UniRef90_F4LU07 M D E Q L W Q K V I E F F H G H E C C C C P P G L A L G Y R K A C E A A R K K L L G R V S D F S K E
UniRef90_I7KE33 F A E V S V R F F H G H E C C C C P P G L A L G Y R R A A E T A L E K L L R S G T S E
UniRef90_Q3Z7B2 M D E K L W K K A V A F F H G H E C C C C P P G L A L G Y R R A C E A A I E K L L R S G T S E
UniRef90_J0S6W9 M Q S P T Y E D V I R F F H G H T C C C C P P G V L T F G Y R A A G I A M E R T G S V R A P
UniRef90_J7IU19 Q T Q W E R A V E F F H G H E C C C C P P G L A L G Y R A A C E A A I K K L L G I R F F S A
UniRef90_T0IMW9 M D K Q Q W D K C V E F F H G H E C C C C P P G L A L G Y R K A C E A A I E K L L G I R F F S A
UniRef90_A6TND5 M D K Q L W E K A V A F F H G H E C C C C P P G L A L G Y R K A Y E A A K E K L L K V G F F S S K
UniRef90_D8GU19 M N K E L W N K C I Q F F H G H E C C C C P P G L A L G Y R K A C E A A V E K M N L K N F S S E
UniRef90_I4C5R1 M N K A Q W K K A V D F F H G H V C C C C P P G L A L G Y R K A A T A G M E W L K Q N F S S E
UniRef90_A6NR79 M N E A L W N K C A E F F H G H K C C C C P P G L A L G Y R V A T E A M A K L L G L D P E A K
UniRef90_D8GPQ9 M D K K L W E K A V I E F F H G H L C C C C P P G L A L G Y R K A S E A A K E K M D I S F S K E
UniRef90_A1HNQ6 K D L Q K A I D F F H G H F C C C C P P G L A L G Y R R A A K A M E K L L Q V I E R A E
UniRef90_H1Z1W8 I T I K P Y E E A I K F F H G H N C C C C P P G L A L G Y R A S E I A M K E L L L S G R S T E
UniRef90_L0FA46 V E K T P W E L V I D F F H G H T C C C C P P G L A L G Y R V A Q L A Q R E M G I R P T P
UniRef90_A5D264 V E K E L W E K V A F F H G H S C C C C P P G L A L G Y R A C E A A I K K L N L S F S S K E
UniRef90_B0K7R6 D I T P F S E V T K F F H G H E C C C C P P G L A L G Y R R A G E V A I H E L L S S R A E
UniRef90_U6ECZ9 E D Y Q K T V E F F H G H E C C C C P P G V T I L G Y R V S K Y V L D H Y P R S E
UniRef90_A4FY14 M E T K E F K K C E D F F H G H V C C C C P P G L A L G Y R A A R E G M K R L R E T R A A
UniRef90_UPI0003B43473 F A E A A A F F H G H V C C C C P P G L A L G Y R R A A E V A L A R L R S G R S E
UniRef90_A3CY44 M K K E I F E E A A E F F H G H V C C C C P P G L A L G Y R R A A E V G L D E L L S S G R S E
UniRef90_E1RDC7 M K D S L W I K A V I E F F H G H S C C C C P P G L A L G Y R V S D A A K E M L R T I G S S E
UniRef90_E3GMW5 M N K G L W K K V I E F F H G H S C C C C P P G L A L G Y R K V S E A A K K K M G L D Y S K
UniRef90_C6PN94 T D W E R V I E F F H G H V C C C C P P G L A L G Y R V A K L A L E R F L E K D Y G G N
UniRef90_Q3AA27 M D E E L K K V I E F F H G H F C C C C P P G L A L G Y R V A K Y V K N H F K K S E K
UniRef90_F6BAN5 M D K K L W E E V S F F H G H E C C C C P P G L A L G Y R R A S E A A I K E L N L T F S S K
UniRef90_Q8R8X1 M D K K L W E E V S F F H G H E C C C C P P G L A L G Y R R A S E A A I K E L N L T F S S K
UniRef90_H8IAQ6 E D F K K C A D F F H G H I C C C C P P G L A L G Y R F S K K A M D W L R E N R A D
UniRef90_D8EWI0 E K T P W E R V A E F F H G H E C C C C P P G L A L G Y R K A C E A A I R K M G I R D R D I
UniRef90_G7WA48 V K I A D F D T A V I Q F F H G H V C C C C P P G L A L G Y R V A T L A A N H F K D R S K
UniRef90_Q46DY8 D F D T A V I Q F F H G H V C C C C P P G L A L G Y R V A T L A A N H F K D R S K
UniRef90_Q46EC0 F K E A T E F F H G H V C C C C P P G L A L G Y R K A A E A G L N E L E S S A S S E
UniRef90_F0TBK2 F E K A A E F F H G H Q C C C C P P G L A L G Y R V A Q I A L L D K F K N R S S E
UniRef90_D7E627 L W E K C V A F F H G H S C C C C P P G L A L G Y R R A A E A H T W L G M G F S S Q
UniRef90_I3XZV0 F E D C I R F F H G H S C C C C P P G L A L G Y R R A A T A M E A L G V A E R D V
UniRef90_L0HD82 F E D A V R F F H G H V C C C C P P G L A L G Y R I A A K A I E K L D D A E R D V
UniRef90_L0L0J2 I E D A I K F F H G H L C C C C P P G L A L G Y R V A K A A E E H F K N K R A E
UniRef90_D5EAB5 M D M T E W E R C V A F F H G H E C C C C P P G L A L G Y R K V C Q A A Q K H L G I G
UniRef90_A1AQS6 D F K E A A E F F H G H T C C C C P P G L A L G Y R I A K Y V K E H Y P K R S E
UniRef90_F4C0S4 E E D F N E V V K F F H G H T C C C C P P G L A L G Y R V A R Y V K N H Y K R S E
UniRef90_G7WLW2 E I T P F S E V T K F F H G H S C C C C P P G T A I G Y R V A E I A I C E L V S S R A E
UniRef90_K6TQ79 I T P F S E V T K F F H G H S C C C C P P G T A I G Y R V A E I A I C E L V S S R A E
UniRef90_UPI00036838B4 I P Q E L T I Q C I A F F H G H S C C C C P P G L A L G Y R A E Y A Q A R L N Q D G
UniRef90_T2G8C8 N S A L W D E C V S F F H G H S C C C C P P G L A L G Y R R A A E A V L K L K L T F S S
UniRef90_B5YCB7 E Q L F D M A V K F F H G H R C C C C P A M P M G L R A G L A A M K V L L G A E R A Q
UniRef90_UPI00046D809C E Q E R W Q Q C V R F F H G H A C C C C P P G L A L G Y R Q A L I A M E A L K V K R D G
UniRef90_B0TFB3 M N K Q L W D K A V A F F H G H E C C C C P P G L A L G Y R A C Q A V Y E K M A V G T S E
UniRef90_F6DSY2 F E E A V A F F H G H R C C C C P P G L A L G Y R A A V L G M A A L G P R S S E
UniRef90_B8GKB6 V K P T E W E K A V I E F F H G H Q C C C C P P G L A L G Y R A A V T A R E K M G V R F S S
UniRef90_W0EDH2 M D Q T K W E K A K A F F H G H A C C C C P P G L A L G Y R V C D A V I E K M G V R F S S
UniRef90_F5YKU7 K S V L E T A I R F F H G H Q C C C C P P G L A L G Y R V S L V A L R E L G K P A K E
UniRef90_Q64DU6 M N R E D F K R C A A F F H G H V C C C C P P G L A L G Y R A R A M A W L A E R R S E
UniRef90_S7TT44 F D E A A K F F H G H A C C C C P P G L A L G Y R I A A K A L E K L H T E R D I
UniRef90_K4MFF3 K D D W E R C V E F F H G H A C C C C P P G L A L G Y R V A Q V A L A E L A A L R A
UniRef90_UPI00036677ED I N M K D F N E A V A F F H G H T C C C C P P G L A L G Y R K A C E L A I E K L G L S F S E
UniRef90_A2SSF7 I E K T P W E Q V I D F F H G H T C C C C P P G L A L G Y R V A Q I A L L R S L S F S P
UniRef90_H5XVL8 M D S A L W Q K C V E F F H G H S C C C C P P G L A L G Y R R A C E A A K E K L S F S S K
UniRef90_E4S710 M N Q E L W E K A V A F F H G H A C C C C P P G L A L G Y R V K A S E A A V L K L G I G Q S S E
UniRef90_E3GQV4 K S K W E M S I E F F H G H E C C C C P P G L A L G Y R Q E S L L A M R A L G V T R A E
UniRef90_F0T0Z4 A D L R A V D F F H G H L C C C C P P G L A L G Y R R A V K A L Q A R L D G A E R A E
UniRef90_E1QLJ1 E K T P W E K V I E F F H G H Q C C C C P P G L A L G Y R Q A F I G L N A L G V T R A A
UniRef90_K4KY43 I N G D M L S N I I E F F H G H S C C C C P P G L A L G Y R A G D L A T E K L I S R A R E
UniRef90_U6EF55 Y N K V V E F F H G H E C C C C P P G V L T I G Y R V S K Y V E E H F F S E R S E
UniRef90_A6UNI5 E E L K K V V E F F H G H L C C C C P P G L A L G Y R V A K Y V Q K F F K K S E
UniRef90_C7P744 M N E E L Y E L G L K F F H G H K C C C C P A M P M G L R A G L A A L N S L G V N R A Q
UniRef90_E1YF27 M D E T Y Q K V V E F F H G H E C C C C P P G T A T G Y R V A K Y V L E N F N K E S A
UniRef90_D7DTC5 W E D C A Q F F H G H K C C C C P P G L A L G Y R A A V L A M E K L G L E G S Q
UniRef90_R6CQS3 M D R Q L W D K C V A F F H G H A C C C C P P G L A L G Y R Q A A R Y A M E L L E L D F S A
UniRef90_G9YS42 M N Q K L W E K S V A F F H G H A C C C C P P G L A L G Y R V R A S Q E A I K A L S I S F S S K
UniRef90_UPI0003FF0C62 E K E L W K K A A E F F H G H I C C C C P P G L A L G Y R A C E A A A K K L S L E F S S G
UniRef90_A4XFZ0 D F S D F Q S V V R F F H G H T C C C C P P G L A L G Y R M A K R A M E E L G V K R S G
UniRef90_H8I6N5 K Q K L F I Q K C V E F F H G H L C C C C P P G L A L G Y R Q A A M A G M E F L S E A R A
UniRef90_UPI00036C9AF8 E D D L K R A I E F F H G H M C C C C P P G L A L G Y R V A K Y V M N H Y R R S E
UniRef90_A0B9Q7 M K E G L W E R C T N F F H G H S C C C C P P G L A L G Y R K A V E A A I E T M N I R F S S
UniRef90_A5I2E2 M N N K L W N E C A R F F H G H K C C C C P P G L A L G Y R K A C E L A I E K L N I R F S S
UniRef90_UPI0004790CB7 M N K E L W D K A V N F F H G H E C C C C P P G L A L G Y R A C E A V I E K M N I K M S K
UniRef90_W1UZ45

QUERY
UniRef90_D5XEN1
UniRef90_C9R7M8
UniRef90_R4KBA7
UniRef90_K4LHS1
UniRef90_C8VWV0
UniRef90_Q2RIG2
UniRef90_Q2FQA7
UniRef90_F6CR60
UniRef90_I4A4C7
UniRef90_R7RMH6
UniRef90_K0NCV6
UniRef90_D5X7L6
UniRef90_W0ECH1
UniRef90_A0A037Z7Z7
UniRef90_Q8THB5
UniRef90_F4LU07
UniRef90_I7KE33
UniRef90_Q3Z7B2
UniRef90_J0S6W9
UniRef90_J7IU19
UniRef90_T0IMW9
UniRef90_A6TND5
UniRef90_D8GU19
UniRef90_I4C5R1
UniRef90_A6NR79
UniRef90_D8GPQ9
UniRef90_A1HNQ6
UniRef90_H1Z1W8
UniRef90_L0FA46
UniRef90_A5D264
UniRef90_B0K7R6
UniRef90_U6ECZ9
UniRef90_A4FY14
UniRef90_UPI0003B43473
UniRef90_A3CY44
UniRef90_E1RDC7
UniRef90_E3GMW5
UniRef90_C6PN94
UniRef90_Q3AA27
UniRef90_F6BAN5
UniRef90_Q8R8X1
UniRef90_H8IAQ6
UniRef90_D8EWI0
UniRef90_G7WA48
UniRef90_Q46DY8
UniRef90_Q46EC0
UniRef90_F0TBK2
UniRef90_D7E627
UniRef90_I3XZW0
UniRef90_L0HD82
UniRef90_L0L0J2
UniRef90_D5EAB5
UniRef90_A1AQS6
UniRef90_F4C0S4
UniRef90_G7WLW2
UniRef90_K6TQ79
UniRef90_UPI00036838B4
UniRef90_T2G8C8
UniRef90_B5YCB7
UniRef90_UPI00046D809C
UniRef90_B0TFB3
UniRef90_F6DSY2
UniRef90_B8GKB6
UniRef90_W0EDH2
UniRef90_F5YKU7
UniRef90_Q64DU6
UniRef90_S7TT44
UniRef90_K4MFF3
UniRef90_UPI00036677ED
UniRef90_A2SSF7
UniRef90_H5XVL8
UniRef90_E4S710
UniRef90_E3GQV4
UniRef90_F0T0Z4
UniRef90_E1QLJ1
UniRef90_K4KY43
UniRef90_U6EF55
UniRef90_A6UNI5
UniRef90_C7P744
UniRef90_E1YF27
UniRef90_D7DTC5
UniRef90_R6CQS3
UniRef90_G9YS42
UniRef90_UPI0003FF0C62
UniRef90_A4XFZ0
UniRef90_H8I6N5
UniRef90_UPI00036C9AF8
UniRef90_A0B9Q7
UniRef90_A5I2E2
UniRef90_UPI0004790CB7
UniRef90_W1UZ45

50 60 70 80
D S E E C L V K A Y T Q S A C A L V D D A I Q I V V L K G G C T T I G G K K G G A N L I I Y E R D D Y G G K K V M
D E E E L L V A I V I E N D A S A C G G V D D A D A I V Q Q V V L T T T T T T I I G K K G G N L L I Y R R D R H R G K H Q V
U n i R e f 9 0 _ R 4 K B A 7 D E E E L L A I V I E N D A S A C G G V D D A D A I V Q Q V V L M T T T T T T I I G K K G G N L L I Y R R D R H R G K H Q V
U n i R e f 9 0 _ K 4 L H S 1 D E E E L L V V I A E T N D A S A C G G V D D A D A I V Q Q V V V T T T T T T M L G K K G G N L L I Y R R D D R Y G G K K Q V
U n i R e f 9 0 _ C 8 V W V 0 D E E E L L V A I V I E N D A S A C G G V D D A I L Q Q M L L L T T T T T T T T G G G G K K G G N L L I Y R R D Y L Y G G K K H V
U n i R e f 9 0 _ Q 2 R I G 2 D E E E L L V A I V I E T N D A S A C G G V D D A I L Q Q M L L L T T T T T T T T G G G G K K G G N L L I Y R R D Y L Y G G K K H V
U n i R e f 9 0 _ Q 2 F Q A 7 D E E E L L V A I A E T N D A S A C G G V D D A I V Q Q F I L L T T T T T T T T G G G G K K G G N L L I H D Y G G K H A
U n i R e f 9 0 _ F 6 C R 6 0 D E E E L L V A I V I E N D A S A C G G V D D A V Q M V V I T T T T T T T T G G G G K K G G N L L I Y R R D H R G K H V
U n i R e f 9 0 _ I 4 A 4 C 7 D E E E I V V C I V T E N D A S A C G G V D D A V V Q Q V I T T T T T T T T G G G G K K G G N L L I Y R R D T G G K M A
U n i R e f 9 0 _ R 7 R M H 6 D E E E V V C I V T E N D A S A C G G V D D A V V Q Q V I T T T T T T T T G G G G K K G G N L L I F K D R Y G G K M A
U n i R e f 9 0 _ K 0 N C V 6 D E E E I V A I V I E T N D A S A C G G V D D A V Q Q V I T T T T T T T T G G G G K K G G N F I H K D N N G K M Q V
U n i R e f 9 0 _ D 5 X 7 L 6 D E E E L V A I V I E N D S A C G G V D D A V Q Q V I T T T T T T T T G G G G K K G G N M V I M R N N N G K M Q V
U n i R e f 9 0 _ W 0 E C H 1 D S E E L L L K A E S R S S A C G G V D D A F Q I T I N K A T I G I G R K K A L M I E D T T H R G K P I
U n i R e f 9 0 _ A 0 A 0 3 7 Z 7 Z 7 D E E E L V V C I V T E N D A S A C G G V D D A V V Q Q V V T T T T T T T T G G G G K K G G N L L I Y R R D T Y G G K M A
U n i R e f 9 0 _ Q 8 T H B 5 D E E E L V V T T I V I E N D A S A C G G V D D A V V Q Q V V L T T T T T T T T G G G G K K G G N L L I Y R R D Y G G K M A
U n i R e f 9 0 _ F 4 L U 0 7 D E E E I V C I V T E N D A S A C G G V D D A V V Q Q V V L T T T T T T T T G G G G K K G G N L L I Y R R D Y G G K Q A
U n i R e f 9 0 _ I 7 K E 3 3 D E E E L V T I A E T N D A S A C G G V D D A I V Q Q V V L T T T T T T T T G G G G K K G G N L L F Y R K D Y G G K H A
U n i R e f 9 0 _ Q 3 Z 7 B 2 D E E E Q L V V C I A E T N D A S A C G G V D D A V Q Q V A L L T T T T T T T T G G G G K K G G N L L F Y R R D T G G K Q A
U n i R e f 9 0 _ J 0 S 6 W 9 D E E E L V V C I V I E N D A S A C G G V D D A F Q V I T T T T T T T T G G G G K K G G N L L L R D L G G K K N A
U n i R e f 9 0 _ J 7 I U 1 9 D E E E V V C C V T E N D A S A C G G V D D A V I Q Q V I T T T T T T T T G G G G K K G G N L L L Y R K S T T G G K M A
U n i R e f 9 0 _ T 0 I M W 9 D E E E V V C C V T E N D A S A C G G V D D A V I Q Q V I T T T T T T T T G G G G K K G G N L L L Y R K S T T G G K M A
U n i R e f 9 0 _ A 6 T N D 5 D E E D I V C C C V T E N D A S A C G G V D D A V I Q Q L L L T T T T T T T T G G G G K K G G N L L I Y R R G T G G K Q A
U n i R e f 9 0 _ D 8 G U 1 9 D E E E L V V C C V T E N D A S A C G G V D D A V I Q Q V I T T T T T T T T G G G G K K G G N L L I Y R R G T G G K M A
U n i R e f 9 0 _ I 4 C 5 R 1 D E E E L V A I V I E T N A S A C G G V D D A V V Q Q V I T T T T T T T T G G G G K K G G N F I Y K D Y G G K M V
U n i R e f 9 0 _ A 6 N R 7 9 D E E E L V C I V T E N D S A C G G V D D A V V Q Q V I T T T T T T T T G G G G K K G G N L L I Y R R D Y G G K M V
U n i R e f 9 0 _ D 8 G P Q 9 D E E E L V C I V T E N D A S A C G G V D D A V V Q Q V I T T T T T T T T G G G G K K G G N L L I Y R R D Y G G K M A
U n i R e f 9 0 _ A 1 H N Q 6 D E E E L V A I V I E T D A S A C G G V D D A V V Q Q S L L T T T T T T T T G G G G K K G G N L L I Y R K D Y G G K Q V
U n i R e f 9 0 _ H 1 Z 1 W 8 D E E E L V C I A E T N D A S A C G G V D D G V Q Q Y I T T T T T T T T G G G G K K G G N L L I F R D Y G G K Q V
U n i R e f 9 0 _ L 0 F A 4 6 D S E E L L V A K A F T Q S A C G G V D D A M V Q Q V L T T N K A T T L L G G K R R A L M I E E R D Y G G K H Q V
U n i R e f 9 0 _ A 5 D 2 6 4 D E E E L V A I V I E N D A S A C G G V D D A V Q Q V V L T T G G G G K K G G N L L I Y R R D Y G G K Q V
U n i R e f 9 0 _ B 0 K 7 R 6 D E E E L V V C I V T E N N D A S A C G G V D D A V V Q Q Y I T T T T T T T T G G G G K K G G N L L I Y R R D Y G G K Q A
U n i R e f 9 0 _ U 6 E C Z 9 D E E E L V A I V I E N D S A C G G V D D A I Q Q V V L T T T T T T T T G G G G K K G G N L L F Y R K D Y G G K H V
U n i R e f 9 0 _ A 4 F Y 1 4 D E E E Q L V A I V I E N N S S I L D G I Q Q V M L T T T T T T T T G G G G K K G G N L K F R D N G G K H V
U n i R e f 9 0 _ U P I 0 0 0 3 B 4 3 4 7 3 D E E E M V A V V I E T D A S A C G G V D D A V V Q Q V L T T T T T T T T G G G G K K G G N F I Y K D Y G G K M A
U n i R e f 9 0 _ A 3 C Y 4 4 D E E E L V T I A E T D A S A C G G V I D G I Q Q V L T T T T T T T T G G G G K K G G N L L F K D H R G K H A
U n i R e f 9 0 _ E 1 R D C 7 D E E E L V C I V I A E N D S A C G G V I D G V Q Q F V T T T T T T T T G G G G K K G G N L L F R K D H G K Q V
U n i R e f 9 0 _ E 3 G M W 5 D E E E I V C C C V I A E N D S A C G G V I D A V V Q Q A L L T T T T T T T T G G G G K K G G N L L Y R N T T G G K Q A
U n i R e f 9 0 _ C 6 P N 9 4 D E E E L V C C C V T E N D A S A C G G V D D A V I Q Q V L T T T T T T T T G G G G K K G G N L L V Y K D T G G K M A
U n i R e f 9 0 _ Q 3 A A 2 7 D D D L V Y V I T E N D A S A C G G V D D A I I Q Q V L T T T T T T T T G G G G K K G G R L V Y K D T G G K M A
U n i R e f 9 0 _ F 6 B A N 5 D E E E L V A I V I E N N A S A C G G V D A I I Q Y M L S T T T T T T T T G G G G K K G G N L I F K D N G G K H V
U n i R e f 9 0 _ Q 8 R 8 X 1 G E E E L V C I V T E N N A S A C G G V D A I I Q Q Y I T T T T T T T T G G G G K K G G N L I F K D K G G K Q A
U n i R e f 9 0 _ H 8 I A Q 6 D E E E L V A I V I E N D A S A C G G V D A I I Q Q V A T T T T T T T T G G G G K K G G N L I F K D H G K Q V
U n i R e f 9 0 _ D 8 E W I 0 D E E E L V A I I E T N A S A C G G V D A V V Q Q V L T T T T T T T T G G G G K K G G N L I F R D Y G G K H V
U n i R e f 9 0 _ G 7 W A 4 8 D E E E I V C I V T E N D A S A C G G V D A V V Q Q V V L T T T T T T T T G G G G K K G G N L L I Y R K D Y G G K I A
U n i R e f 9 0 _ Q 4 6 D Y 8 D E E E L V T I V I E N D A S A C G G V D A V I Q Q V V T T T T T T T T G G G G K K G G N L L Y R R D Y G G K Q A
U n i R e f 9 0 _ Q 4 6 E C 0 D E E E L V A I V I E N R S A C G G V D A I I Q Q A I N G C K K G G N L I F K D H G K H V
U n i R e f 9 0 _ F 0 T B K 2 D E E E L V A I V I E N D S A C G G V D A I I Q Q V V T T T T T T T T G G G G K K G G N F V F L D H G K H V
U n i R e f 9 0 _ D 7 E 6 2 7 D E E E L V A I V I E N N S S A C G G V D A I I Q Q A L T T T T T T T T G G G G K K G G N F V F L D H G K H V
U n i R e f 9 0 _ I 3 X Z W 0 D E E E L V V C I V T E N D A S A C G G V D A I I Q Q V L L G G S F G G K K G G N L I Y K D Y G G K Q A
U n i R e f 9 0 _ L 0 H D 8 2 D E E D L V A I C E T D A S A C G G V D A V I A G G T T A G G K G G N L I I H D Y G G K H A
U n i R e f 9 0 _ L 0 L 0 J 2 D E E E L V T I V I E N D A S A C G G V D A V I Q Q V L T A G G T T A G G K G G N L I I H Q D H A K Q V
U n i R e f 9 0 _ D 5 E A B 5 D E E E L V C I V I E N K S A C G G V D A I I Q Q V V N G G C T T F G K K G G N L V Y R D L G K H V
U n i R e f 9 0 _ A 1 A Q S 6 D E E E Q V C C I V T E N D A S A C G G V D D G I Q Q F L A G G C C S V I G K K G G N L I F R N R Y G K M A
U n i R e f 9 0 _ F 4 C 0 S 4 D E E E L V C I A E N D S A C G G V S I D A I I Q Q F M L T T T T T T T T G G G G K K G G N L I F K D N G K Q A
U n i R e f 9 0 _ G 7 W L W 2 D E E E L V A I V I E N S S A C G G V D A I I Q Q S L L T T T T T T T T G G G G K K G G N F I F K D H G K H V
U n i R e f 9 0 _ K 6 T Q 7 9 D E E E L V A I V I E N D S S V D A I I Q Q V L T T T T T T T T G G G G K K G G N L I F K D N G K H V
U n i R e f 9 0 _ U P I 0 0 0 3 6 8 3 8 B 4 D E E L V A I V I E N N S S V D A I I Q Q V H V M L S T T T T T T T T G G G G K K G G N L I F K D N G K Q A
U n i R e f 9 0 _ T 2 G 8 C 8 D A V L V C I V T E T D M S G G V D A I I Q Q F L T D S T T V G K K G G N M I H R D Y G G K M A
U n i R e f 9 0 _ B 5 Y C B 7 D E E E L V C I V T E N N A S A C G G V D A I I Q Q V L L T T T T T T T T G G G G K K G G N L I F K D Y G G K M A
U n i R e f 9 0 _ U P I 0 0 0 4 6 D 8 0 9 C D K E L V Y V I S E T E N G G F L D G I M A A T T G G C C S N I E K R Y W N K M A
U n i R e f 9 0 _ B 0 T F B 3 D E E E L F A V T E T D A S A C G G V D A V V Q W L T T T T T T T T G G G G K K G G N L I Y R R D R G K H A
U n i R e f 9 0 _ F 6 D S Y 2 D E E E I V C V T E N D A S A C G G V D A V V Q Q A L L S T T T T T T T T G G G G K K G G N L L I Y R R D Y G G K Q A
U n i R e f 9 0 _ B 8 G K B 6 D E E E I V T V V T E N D A S A C G G V D G V Q Q V V T T T T T T T T G G G G K K G G N L L I F R D Y G G K H V
U n i R e f 9 0 _ W 0 E D H 2 D E E E I V C I V T E N D A S A C G G V D A I I Q Q V M T T G G S M G K K G G N L I Y R R D T G G K M A
U n i R e f 9 0 _ F 5 Y K U 7 D E E E L V C I V T E N D A S A C G G V D A I I Q Q A L M S T T T T T T T T G G G G K K G G N L I F R D T G G K H A
U n i R e f 9 0 _ Q 6 4 D U 6 D E E E L V A I V I E N S S A C G G V D A I I Q Q V V L T T T T T T T T G G G G K K G G N L I F R D Y G G K Y A
U n i R e f 9 0 _ S 7 T T 4 4 D E E E I V A I V I E T D A S A C G G V D A V V Q Q V L T T T T T T T T G G G G K K G G N F I Y K D H G K M V
U n i R e f 9 0 _ K 4 M F F 3 D E E E L V T I V I E N D A S A C G G V D A V I Q Q V L T T T T T T T T G G G G K K G G N L I Y R D Y G K Q V
U n i R e f 9 0 _ U P I 0 0 0 3 6 6 7 7 E D D E E E L V A I V I E N D A S A C G G V D A I I Q Q V V L T T T T T T T T G G G G K K G G N L I Y R D Y G K Q V
U n i R e f 9 0 _ A 2 S S F 7 D E E E V V C I T E T D S C C T V D A L Q Q V V L T T T T T T T T G G G G K K G G N L F I N N W G K N A
U n i R e f 9 0 _ H 5 X V L 8 E T S I M I T A Y T H S A L D A F Q I I N R A T Y G R G G N L R V E E T K G H V
U n i R e f 9 0 _ E 4 S 7 1 0 D E E E I V C V T E T D A S A C G G V D A I I Q Q V I L L T T T T T T T T G G G G K K G G N L I L K D R G K H A
U n i R e f 9 0 _ E 3 G Q V 4 D E E E I V C V T E T N D A S A C G G V D G V Q Q A I L L S T T T T T T T T G G G G K K G G N L L I Y R G T G G K Q A
U n i R e f 9 0 _ F 0 T 0 Z 4 D E E E L F A I V I E T D A S A C G G V D A V V Q Q V V T T T T T T T T G G G G K K G G N L I Y K D A G K Q A
U n i R e f 9 0 _ E 1 Q L J 1 D E E E L V A I V I E N D S A C G G V D A F Q Q V L L S T T T L L G K G G N L R W L D H A G K Q A
U n i R e f 9 0 _ K 4 K Y 4 3 D E E E L F A V I E N D A S A C G G V D A I I Q Q V L T T T T T T T T G G G G K K G G N L I Y K D A G K Q A
U n i R e f 9 0 _ U 6 E F 5 5 D E E E L L A I V I E N D S S V D A I I Q Q V L T T T T T T T T G G G G K K G G N L L I F K D Y G K N V
U n i R e f 9 0 _ A 6 U N I 5 D E E Q L L A I V I E N N S S V D A V I Q Q F M L L S T T T T T T T T G G G G K K G G N L K F K D N G K H V
U n i R e f 9 0 _ C 7 P 7 4 4 D E E E L V A I V I E N S S A C G G V D A I I Q Q Y M L S T T T T T T T T G G G G K K G G N L I F K D N G K H V
U n i R e f 9 0 _ E 1 Y F 2 7 D K E L V A I E A E T G G F V D G V M V A T T S A T Y G K K G G N L K K F L N Y G K M A
U n i R e f 9 0 _ D 7 D T C 5 D E E E L V A I V I E N N A S A C G G V D A I I Q Q V M L S T T T T T T T T G G G G K K G G N L I F L D Y G K H A
U n i R e f 9 0 _ R 6 C Q S 3 D E E E L V C I S E N D A S A C G G V D A I I Q Q V I L L T T T T T T T T G G G G K K G G N L I F H M T G K E A
U n i R e f 9 0 _ G 9 Y S 4 2 D E D V V C C I T E N D A S A C G G V D A I I Q Q V I L L T T T T T T T T G G G G K K G G N L I F H L R R G K Q A
U n i R e f 9 0 _ U P I 0 0 0 3 F F 0 C 6 2 D E D V V C C I T E N D A S A C G G V D G V Q Q V I L L T T T T T T T T G G G G K K G G N S A G K K G G N L I F H L R R G K Q A
U n i R e f 9 0 _ A 4 X F Z 0 D E E E V V C I T E N D A S A C G G V D A I I Q Q A I L L T T T T T T T T G G G G K K G G N L I F K D R G K Q A
U n i R e f 9 0 _ H 8 I 6 N 5 D E E E L V A I V M N D T A V D A I I Q Q V I T T T T T T T T G G G G K K G G N L I F K D Y G K H T
U n i R e f 9 0 _ U P I 0 0 0 3 6 C 9 A F 8 D E E E I V A I V I E N D A S A C G G V D A I I Q Q V I T T T T T T T T G G G G K K G G N F I F K D Y G K T A
U n i R e f 9 0 _ A 0 B 9 Q 7 D E E E L V A V V I E N S S A C G G V D A I I Q Q E M L L T T T T T T T T G G G G K K G G N L I F V D N G K Q V
U n i R e f 9 0 _ A 5 I 2 E 2 D E E E I V C C V T E N D A S A C G G V D A I I Q Q V L T T T T T T T T G G G G K K G G N L I H K D S G K M A
U n i R e f 9 0 _ U P I 0 0 0 4 7 9 0 C B 7 D E E E I V C C V T E N D A S A C G G V D A V I Q Q Y I L L T T T T T T T T G G G G K K G G N L I F K D R G K Q A
U n i R e f 9 0 _ W 1 U Z 4 5 D E E E I V C I T E N D A S A C G G V D A V Q S I L L T T T T T T T T G G G G K K G G N L I Y R G T G K Q A

QUERY
UniRef90_D5XEN1
UniRef90_C9R7M8
UniRef90_R4KBA7
UniRef90_K4LHS1
UniRef90_C8VWV0
UniRef90_Q2RIG2
UniRef90_Q2FQA7
UniRef90_F6CR60
UniRef90_I4A4C7
UniRef90_R7RMH6
UniRef90_K0NCV6
UniRef90_D5X7L6
UniRef90_W0ECH1
UniRef90_A0A037Z7Z7
UniRef90_Q8THB5
UniRef90_F4LU07
UniRef90_I7KE33
UniRef90_Q3Z7B2
UniRef90_J0S6W9
UniRef90_J7IU19
UniRef90_T0IMW9
UniRef90_A6TND5
UniRef90_D8GU19
UniRef90_I4C5R1
UniRef90_A6NR79
UniRef90_D8GPQ9
UniRef90_A1HNQ6
UniRef90_H1Z1W8
UniRef90_L0FA46
UniRef90_A5D264
UniRef90_B0K7R6
UniRef90_U6ECZ9
UniRef90_A4FY14
UniRef90_UPI0003B43473
UniRef90_A3CY44
UniRef90_E1RDC7
UniRef90_E3GMW5
UniRef90_C6PN94
UniRef90_Q3AA27
UniRef90_F6BAN5
UniRef90_Q8R8X1
UniRef90_H8IAQ6
UniRef90_D8EWI0
UniRef90_G7WA48
UniRef90_Q46DY8
UniRef90_Q46EC0
UniRef90_F0TBK2
UniRef90_D7E627
UniRef90_I3XZV0
UniRef90_L0HD82
UniRef90_L0L0J2
UniRef90_D5EAB5
UniRef90_A1AQS6
UniRef90_F4C0S4
UniRef90_G7WLW2
UniRef90_K6TQ79
UniRef90_UPI00036838B4
UniRef90_T2G8C8
UniRef90_B5YCB7
UniRef90_UPI00046D809C
UniRef90_B0TFB3
UniRef90_F6DSY2
UniRef90_B8GKB6
UniRef90_W0EDH2
UniRef90_F5YKU7
UniRef90_Q64DU6
UniRef90_S7TT44
UniRef90_K4MFF3
UniRef90_UPI00036677ED
UniRef90_A2SSF7
UniRef90_H5XVL8
UniRef90_E4S7I0
UniRef90_E3GQV4
UniRef90_F0T0Z4
UniRef90_E1QLJ1
UniRef90_K4KY43
UniRef90_U6EF55
UniRef90_A6UNI5
UniRef90_C7P744
UniRef90_E1YF27
UniRef90_D7DTC5
UniRef90_R6CQS3
UniRef90_G9YS42
UniRef90_UPI0003FF0C62
UniRef90_A4XFZ0
UniRef90_H8I6N5
UniRef90_UPI00036C9AF8
UniRef90_A0B9Q7
UniRef90_A5I2E2
UniRef90_UPI0004790CB7
UniRef90_W1UZ45

Y Q F H F T G T Q D I H Q F T V S P A V L D H L E T L R H P D L S P R E E R Q N K
Y T F G N R R K T G E A V R V S V V K P D V M G R D P E E H R K G E A T D E E C K E K
Y T F G S R R N A N R A L R I S V N K G S V R N P E E E A E Y R Q G L T A R E V F G G K E
Y T F G S R R D T G K A F R I V A V N S P G E L R A I R D R A R Q G G R A T E E E K A K A
Y T F G S R R S S G A A L R V V A V N S E S L L H A L R T R T K V F Q G D T A T E E A E K E A
F T F V G N R N T S G A A V R V V A F T S E S W Q E D E E Y R Q D T A P A E E K E R Y
F T F Y C R K S N K A V R V V V F L P E E M N S L R P K V F S G H A T E E E K A R
F T F C R E S G K A V R V S V K G G A W D E F R A L R E K T A D E R E R Q K E H
F S F F N R T T G E S V R I V L K P S A Q G M E M D R R Q E R Q E Y
F S F I K R N T T G E G I R V V L K P S N Q K E M S R E E R K
L T L L S R N S G K G V R V A V L K P E H M E L I R K M I D G K L T D T E Q Q E L
F T I L G K R S G G Q A V R V A L K F G V M Q G K G D R E
Y W F H F A G T Q E L L R K I S V N S A L M K R L D S S H P G P L S P R E K Q N R
F S F F N R K N S G K A V R V V L K S D F N I E D L D K F Q G E M S R E D R L K Y
F T F C R D S G K A V R V V L K S D F N I E D L D K F Q G E M S R E D R L K Y
F T F F R R D T G Q K L R I I L L K P S F R T R V M Q G Q V P D E E R W A E Y R R R
F S F Y N R T D G K K L R V I C L K P S G K N N G M E R P Q W Q A H
W T L I N R T T G K A V R L A I D P E F L P L R A R A W G A G A T P E E K Q A Y
F S F F N R S N G E S L R M I V K P L N E E M D R Q Q R Q
Y S F F N R T T G E S L R L V L K P F K G E M D R K R E R Q E Y
F S F F N R T T G E S M R I V L K P S D K K M D R G E R Q A Y
F S F F N R E N G D S T R V V L K Q F K G E M S R S E F E R Y
F S L V S R L S G N G S V R V A L R A E L I Q K I R T D T A T E Q E R S E F E R Y
F T F Y C R K S S G R G L R V V A V L K P G D R S M D R P A R Q N W
F S F F N R K N D A L R V V A L K P R S V G D R Q K D I D Y S M D R P A R Q N W
Y T I L V S R K K N K A L R V V A M R A N S V F E K L R S A V F S G Q A T E E E R K E
Y T F L R D S S D A V R I V L K D D K I D P K A M K A R A N V T P E E K A A F
Y Q F H F T G T H E L H Q I R I A Q S V L E H L A F N I E G L S P R E K Q N K
Y T F A C R E S G R A V R I A V K G S A W Q E M K E V R K R G G T A S E E E K E
F T F F R R D T N E G I R I V L K A F N H S N D R K K W Q
Y T F L N R K T G E S I R I Y L K K S D I F S S A R K K A F S G S A T Q K E M D E
Y T F Y S R D N N K A L R I Y L K Y D L S K K V K K F N E G T L T A S E E E K E R
L T L F S R N T G E G V R L A L K H G A L D L D P E H R E A G Q A S E E E Q S R
F T F I N R S G A A I R V V S N P S F L A P L R A R V M Q G L A T S E E F H E R
Y T F I L R D K S D A I R V V S Q K P E F A P Q L M K K F S G E T S E E T A R
F S F F N R A T D E K V R I Y L K A R K K G S M S K P E Y Q
F T F F N R K N N E A L R I V L K P L D K K S E G R E K
Y T F G S I S W G K G E R L V V R K G E L W Q R S S D Q E K E K K A T E E E R R
Y T F Y S R E S N R A T R I Y V K N F F E E F D D I L R K K L S E E E M Q R
F T F F R K D T R E G V R I V L K A F N H A D D R K K W
Y T F I N R N T G D A V R V S L K A S F L A K L R A K V M S G K A T K K E A E E
L T L L S R K S G D G V R V S L K N G A L Q L M G K I R K G D A T D A E K Q E L
Y S F F N R S N G E K L R M V I K P L N D T M D R Q Q R Q D Y
F T F C R E S G K A V R V V L K S D I D P E L N K L H P K V M S G T A T E S E
Y T Y F K R G D N K A L R I S L K P D A F P P F A K L R A G T A S P E E E K A S
Y T F Y N R K T N D G V R V A L K D S F R A K V H A G N A T D L E R E D L K N M
Y T F K R G D E G G L R I S L K P E I F K K I Q N N R A T E E E R E F R K I
F S F F D R K Q H K Q G R I V F K K S L M P T M D R K A M Q A H
F T F Y N R K D G K A V R I T F D T S E S P E M M E L R K K G T A T E E S E R
F T F C R D S G K A V R V A L K S F I D P E V N K L R P K V A T G E E K K E
Y T F F R R D T G Q G A R F V L K S S V I S R G D M E R P A Y Q
F T F Y S R D H N K A I R I Y V K N V L P R A M K R F F A G E M T P E E R E R F
Y T F L N R K T G K A L R I S L K N E I A P E F S K A R E M A S S P S A T K E E F
Y T F Y S R D N R N K A L R I Y F K D D F F K D I E D M R K K Q L T E K E K E K
F S F F D R R T G A G V R L L L R P E A R Q D I D A A L A P R Q R A I R
F T F V R D T G E G V R I V L K D L P R K N R E E
F T L V D U P I 0 0 0 4 6 D 8 0 9 C F T L V D R T R K G K A V R V S L K P E F F E P F V Q Q R R K G V P P Q D V P A E
L T L A D R K S C Q A V R V V T L P G E S H R D R K V M A G E A T P E E R S E L
F S F F N R R N G R K L R L C L K L Q K Q E G M D R A Q W Q E Y
Y T F I N R K T G D A V R I V T R V D F S T G Q I D P Q F G D I R E R A R R A D
F S F F N R R N G E S L R L I L L K P F E G E M N R E E R Q A Y
Y T F I N R S S G K T M R F Y F K A K G E G Q R E E F Q
Y T F M N R E S N Q R A L R I S I K K E A L D L F A K V K A G T A T P A E M E E L
L T L L S R K T G Q G V R V I L R P E A F S P I R K V M A G E A S E A E R E E L
Y T F I C R D S G K A V R V A L K A S F N D N I D P E V N K L R P K V M S G K
Y T F V C R N S G Q A V R V A I K A A E V D A L R Q K V F A G T A T E D E K A A
F S F Y R R D N D T S I R L V A N P E F M P E M A E L R P K V F S G A T Q E E
Y H F K Q T G D G L E E L Q I S I R P E I L E H L S V T D Q S L T R R E E R Q N K
F T F F R S D T N E G I R V V F K P F E E G V P R E E R
F S F F N R T T G E K I R M C M K P K N H E M D R E T Y M H Y
L T L A N R K D N K A V R V I L M K P D A M A E D K A F S E L R Q S A S E E L A
F T L H D R Q S G R A V R A L I V G D K L R K S L P D G S M D R Q
V T L A N R K S G K A V R I K P D D D E Q Y T E L K A K I S A D S A S E E E K A L
Y T F V N R N T G E T L R L S L D P D F A E V R T K A F A G E A N P E E E E F
Y T F Y S R E N E K A I R I Y F K K Y M F E E F K Y N S G E L S K E E L E N K
Y T F Y S R N T G K A I R I Y F K K Y M F E E F K Y N S G E L S K E E L E N K
F T L I D T T T G R A I R V S L K P E F F E P F V K R K E G V P Q Q D I S A E
F T F Y S R N T G K G L R I Y V K G T E N D A E R K R H T K Y L G K K E L A E L
Y S F Y C R K S G K S I R L V F Q R D D I E K T K M S K E E R
F S F Y N R K T G K A V R L V L R P T P A E Y Q T K E E R F R Y L Q D A A P A S
F T F F N R N T G E K I R L V L K A L P E M E R D E M E A Y
F T F F R R D T N Q G I R I V F K G F D K N R S R E E N
F I F M N R K T G E A V R I S V D P A F Y D L R G K V L F G E P T P E E L Q R R
F T F I S R N S G K G V R I A K K Y D P E P L L G A R H F Q E L T Q L I R E N K
F T F Y H R G D G N A I R L Y F R D D L L Q E I F R D G R G E A R S K
F S F F N R K N D E S I R M I F R N E Y M N Y L L N A D Y K E L F Q F K K P N Y
F S F F N R D N D S I R L V F K G I E Y D G N K E G K Q
F S F F N R K T G D K L R V Y L K T R A S D K C M D R T E F Q D F

QUERY
UniRef90_D5XEN1
UniRef90_C9R7M8
UniRef90_R4KBA7
UniRef90_K4LHS1
UniRef90_C8VWV0
UniRef90_Q2RIG2
UniRef90_Q2FQA7
UniRef90_F6CR60
UniRef90_I4A4C7
UniRef90_R7RMH6
UniRef90_K0NCV6
UniRef90_D5X7L6
UniRef90_W0ECH1
UniRef90_A0A037Z7Z7
UniRef90_Q8THB5
UniRef90_F4LU07
UniRef90_I7KE33
UniRef90_Q3Z7B2
UniRef90_J0S6W9
UniRef90_J7IU19
UniRef90_T0IMW9
UniRef90_A6TND5
UniRef90_D8GU19
UniRef90_I4C5R1
UniRef90_A6NR79
UniRef90_D8GPPQ9
UniRef90_A1HNQ6
UniRef90_H1Z1W8
UniRef90_L0FA46
UniRef90_A5D264
UniRef90_B0K7R6
UniRef90_U6ECZ9
UniRef90_A4FY14
UniRef90_UPI0003B43473
UniRef90_A3CY44
UniRef90_E1RDC7
UniRef90_E3GMW5
UniRef90_C6PN94
UniRef90_Q3AA27
UniRef90_F6BAN5
UniRef90_Q8R8X1
UniRef90_H8IAQ6
UniRef90_D8EWI0
UniRef90_G7WA48
UniRef90_Q46DY8
UniRef90_Q46EC0
UniRef90_F0TBK2
UniRef90_D7E627
UniRef90_I3XZV0
UniRef90_L0HD82
UniRef90_L0L0J2
UniRef90_D5EAB5
UniRef90_A1AQS6
UniRef90_F4C0S4
UniRef90_G7WLV2
UniRef90_K6TQ79
UniRef90_UPI00036838B4
UniRef90_T2G8C8
UniRef90_B5YCB7
UniRef90_UPI00046D809C
UniRef90_B0TFB3
UniRef90_F6DSY2
UniRef90_B8GKB6
UniRef90_W0EDH2
UniRef90_F5YKU7
UniRef90_Q64DU6
UniRef90_S7TT44
UniRef90_K4MFF3
UniRef90_UPI00036677ED
UniRef90_A2SSF7
UniRef90_H5XVL8
UniRef90_E4S710
UniRef90_E3GQV4
UniRef90_F0T0Z4
UniRef90_E1QLJ1
UniRef90_K4KY43
UniRef90_U6EF55
UniRef90_A6UNI5
UniRef90_C7P744
UniRef90_E1YF27
UniRef90_D7DTC5
UniRef90_R6CQS3
UniRef90_G9YS42
UniRef90_UPI0003FF0C62
UniRef90_A4XFZ0
UniRef90_H8I6N5
UniRef90_UPI00036C9AF8
UniRef90_A0B9Q7
UniRef90_A5I2E2
UniRef90_UPI0004790CB7
UniRef90_W1UZ45

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

UniRef90_UPI00047A3C9A 1 K S E L W D K A A A F H G H V C G G L T I L G Y Q A A L Y A L K L L D F K F S P 40
UniRef90_G2FWC0 V E K T P W E Q V I D F H G H T C C P G E L T A L G G F R V A Q I A M R E L G E L T R T F P A S P
UniRef90_F7KK64 K K E L W E K Q V A F H G H E C C G G G L T A I G G Y K A A A L Y A A A D L T L G E L S T F F S S Q
UniRef90_Q31H4 E L L E K V E A F H G H R C C P G G L T I G I G Y K A A A E L A A L N T L L G E L S T F F S S Q
UniRef90_R5SXG7 K K T L W E Q V I E F H G H V C C G G G L T I G I G Y K A A S L Y A M E L L R L N F S R Q Q
UniRef90_D6SNK8 Q Q T I E G V I T S F H G H W C C P G L A L A G G T R A G E W A L Q E M G F R S S S S
UniRef90_UPI0004667EF5 E L I E D V I H F H G H W C C P G L A L A G G T R V A Q I A L A E L A E M G H S S S S
UniRef90_A7IA04 K K E L W E Q C A K F H G H T C C P G L A L A G G Y R A A T H A L V T L H A G R S S S S
UniRef90_N9XTB4 K K E L W E Q C A K F H G H V C C P G G L T A T G F K A A L Y A M E L L E L G N F S S E S
UniRef90_B8FBR0 T S E C L I E Q I T H F H G H W C C P G L A T I G I R A A Q I A L A E V L G E L L G N F S S E S
UniRef90_D5ECC2 E E Q F W E Q C A K F H G H V C C P G G L T V Y G Y K A A L Y A I K L L E L T K F S S E T
UniRef90_F1T976 D I K Q C V A F H G H L C C P G G L T L V Y Y I V A K E S I R L L L D I T K F H S T E
UniRef90_E1YG30 M T H D E F E A A M V F H G H K C C P A M P L G Y R A A Q A A M R A L L G V L G R A E E
UniRef90_J1YP88 M K K E L W S K A V G F H G H E C C P G G L A I G G V R A C E V A M E K M G C A E D E
UniRef90_UPI0003738CD2 P F S A V K F H G H I C C P G L A I G G Y Y A S H I L G M R W L H S H I L G D E
UniRef90_Q0W4M6 E K L W E R V V R F H G H E C C P G L A I G G F K A A L A A K E Y L G C D D D S E D
UniRef90_UPI00047C0C70 M D K G L L E R V V A F H G H E C C P G L A I G G M R A A A E L C C R E L L G V I K H P D D
UniRef90_D6Z3Z5 V E K T P W E Q V I D F H G H T C C P E I L A G G Y R V A Q I A M R E L L G L E A S G G
UniRef90_I4D865 M R N E L W K K C V A F H G H E C C G G L A T I G G F Q A A Q I A I E L L G L E A S G G
UniRef90_R6NHJ9 Y E E I V K F H G H A C C P G L A I G G Y R M A N A M E A L K A V R A R A G
UniRef90_B9M9L8 F E D V I K F H G H S C C P G L A I G G Y K V A V T A I E E L G L E R A H
UniRef90_B5YG02 K E D L K N T I E F H G H F C C P G L A M G Y R V A K Y V Q N H Y K K S E G
UniRef90_A6UVC0 L N P E T I A K V V A F H G H S C C P G L T I G G L R A A E M A L R E L L G E D P S S G
UniRef90_S7T3G4 E Q L L E K S T T V H G H S C C A G Q V I G V R R A A M I G L R E I L G G I D D R A A E
UniRef90_D6Z0M8 T D F Q R A I D F H G H C C P G L T I G Y L A A R A A L A H L K V L D R F S S
UniRef90_T0IV16 E K A L W K K C A E F H G H E C C P G L T I G Y K A A L Y A K E L L D L D R F S S
UniRef90_R6RSF0 V S K E L L E K A R E F H G H V C C P Y L L V L G L R A S E I A F E K L L G V R E R S Q
UniRef90_A1S040 E L F E T G M K F H G H K C C P A M P M G L R A G L A A M K A L G V V R E R S A S S
UniRef90_UPI00037784A1 K Q T I E D T I A F H G H N C C P Y V V L G L R A S E I A M Q R L E I K K K A S S
UniRef90_M1NI78 V S K T L I E K A R E F H G H I C C P Y V V L G L R A S E I A M Q R L E I K K K A S S
UniRef90_I0A2W1 M D K K L W E R C V Q F H G H K C C G G L T I G Y K A T L Y A I D L L D L K F S S
UniRef90_E7NQF7 E E L F N K A K E F H G H V C C P G I V L G T R L A I A G L R R E L L G L M D P H A A
UniRef90_B8GIT8 D S A R I E A T I A F H G H W C C P G V A I G I R A A E S A L R R F P E A A
UniRef90_C8X4T7 D Y E D I V G F H G H S C C A G T A L G Y K V G E I V A E R F F G R S S E
UniRef90_O27399 E L I E Y A W E F H G H I C C P Y L A L G V R A S L I A M D E L G L V L D P A G
UniRef90_H3ZLR0 Q S P W E K A L E F H G H V C C P G L L V V G F R A A E V G L R E L L G L D P A G
UniRef90_B1I3Q7 K D F F D L G L K F H G H K C C P A M P L G L K A A C A A M N A L G V L E R S K
UniRef90_M1E673 K E E L T E Q T K A F H G H W C C P G L A M G L R I A E A A L E A V G H N K R S K
UniRef90_G7V6T1 E E D L K E T I E F H G H F C C A G L A M G Y R V A K Y V K N H Y K R S S
UniRef90_F8AJQ1 L S Q E T L Q Q V I A F H G H S C C P G L T I G I R A A E M A L R E L L G F P R A S S
UniRef90_UPI00047864D6 R E L M K A T I E F H G H L C C P G I A I G V L V A K Y V L E H G G F E R S S
UniRef90_X1SGU2 I A R A I E F H G H E C C P G L H I G V L R A A E L A L R D L G H T R D I
UniRef90_E6VRX1 E E L W K K A I E F H G H E C C P G L A I G G F K A A L A A R E Y L G C K Q S S G
UniRef90_Q18CR4 E Q L I A K T I E F H G H E C C P G L S I G L R A A E L C L R E L L G H N D Q S S
UniRef90_F3Z1L0 I N E E K W N A C T A F H G H S C C G G L M I G F Q A A E Y A A R L D L D L H A S S
UniRef90_F7V8X4 L E Y A R E F H G H V C C P Y L A L G V R A S L L A M E E L G V V G R S S V
UniRef90_UPI00029A7D21 E K I L Y A R E F H G H V C C P Y L A L G V R A S L I A M E E L G V V G R S S V
UniRef90_B6YT55 N P E D Y K C C V A F H G H D C C P G L A V G Y R A A Q A A A A L C G E G R A E
UniRef90_Q2LY05 K T W E D C V A F H G H E C C G G L T I G Y K A S L Y A I E L L D I T K F S E
UniRef90_X8ISE2 L F A K A R E F H G H I C C A G I V L G T R L T I A G L R E L L G L N P L E
UniRef90_L0HF33 E L L I N K A K L H G E I C C P G V I M G T R M S M A M K E L G N M N P L E
UniRef90_F6D850 L E Y A R E F H G H V C C P Y L A L G I R A S L I A M E E L G V V G R S S V
UniRef90_I3ZUQ7 M D K E L Y K K C V D F H G H S C C G G L L L G F R A A L C A M E Q F G L N P S P
UniRef90_G9PWW1 E T L L E K A K A F H G H A C C P G I L M G T R M T M A G M R E L G M N P E K
UniRef90_Q2FMG4 L N Y A R E F H G H V C C P Y L A L G I R A S L I A M E E L G V V G R S S V
UniRef90_Q9UZ99 M K D K I W K K C V I F H G H E C C P G L T I G G Y K A A L Y A I E L L E L I K R T S E
UniRef90_UPI0003791FE1 V E M E L I E R A K W F H G H V C C P G L V L G L R A S E I A L E K L G V I R A G E
UniRef90_E8R8Y7 Y D E V E R F H G H Q C C P G L A I G I R A S E I A L R E L L G E G D G
UniRef90_D2Z7T7 D M S P L E K A V I Q F H G H I C C P G L L R G V A V A E F A Q K H Y L G I N R D S N
UniRef90_D7CK49 K T W E I V V E F H G H E C C P G L A I G V A V A S K A A Q K Y L D I D I N F S N
UniRef90_T4VL79 M D E K L W G E C I K F H G H A C C P G L A F G Y K A S A T A A E I L G I E K A G
UniRef90_R9T784 I E K E L T E Q T L A F H G H N C C P G L S T G T R A S E I A M E K L D I H E S
UniRef90_UPI0003B397E1 V S K E L I E K A K E F H G H V C C P F L V L G L R A S E I A M G R L D I G I N K A G
UniRef90_B8D6N1 L E Y A R E F H G H I C C P Y L A L G I K A S I A M E E L N V I E R S V
UniRef90_I3RDW3 L L D E A V K F H G H L C C G G Q V I G V R M A M A G L R E L L G I K E D P R
UniRef90_A0LPL8 M E D K L W E Q A V F H G H K C C P G L A I G F Q A A Q I A L K V L P A L E G E
UniRef90_V2PX03 D W D R C V E F H G H V C C P G L A I G F Q A A Q I A L K V L P A L E G E
UniRef90_G2FN05 L L E R S T K V H G H L C C A G Q V I G V I Q A A M S M L G L A A I I Q D D P D
UniRef90_M1P8G8 R A V D Y H G H M C C P G L A I G I R A A E A A L E R F G A D P A
UniRef90_C4XSB8 I D P E T I E H L T T F H G H S C C P G L A I G I R A A E A A L E R F G A D P A
UniRef90_V4JB56 I S P E Q I Q A T I D F H G H C C P G L T I G I R A A E L C L A R A V G H H R Q A
UniRef90_E6W3M9 S E D R I K Q T I E F H G H Q C C P G L A I G V R A A E L C L R E L L G H H
UniRef90_C6BV06 V I A F H G H L C C P G L L L G W R A S R M A M K L L N L S R D V
UniRef90_D1Y3D9 L F E A G M Q F H G H K C C P A M P M G L R A G L A A M D A L G V I H S R
UniRef90_UPI0003AA07FB D L N K C V E F H G H I C C P G L I Y G Y L V A K E A M K L M G I T R S V
UniRef90_V4EPM1 L E K E V I E K T I E F H G H S C C P G L A I G L R A S E I A M E K L D I R N T
UniRef90_K0NC74 E E F M E A R A F H G Y P A P G L I I G G Y M V E I A K R H M P D G V E L Y
UniRef90_E5Y9F9 L L L R A K E F H G H I C C P F V A L G V R M S V I A M E K L G V I E D A
UniRef90_Q29816 K E E M W L R C I E F H G H E C C G G L W I G F K A A L Y V R K L D V I E H S S
UniRef90_R5C215 K E E L W E K A A A F H G H V C C P G L T I G G Y R A A L Y A I D L L E L T F S S
UniRef90_J9GN56 P E L L I E A T R K F H G H W C C P G L A T G R I R A A E M A L R E I G S S E
UniRef90_D3L5M1 M D K V Y W E R C Q E F H G H G C C P G L A T G C R A A Y E A A R I L G I E T A R E
UniRef90_M4YJF9 D W R K V V E F H G H V C C P G L A I G Y R L A K A A L A A L G Y Q D P E D
UniRef90_T0INH0 L N K A A E L H G H I C C V G L A L G V K T S A V A L A A R L G V L P A D
UniRef90_A1RR19 I D E T K I Q E T I A F H G H S C C P G L A I G I R A A E L A L S R L D F T P G A
UniRef90_S0G3I9 I D K I K I D K T I E F H G H S C C P G L A I G I R A S E I A M E R L D I T S E A G
UniRef90_C0QG90 D A E E L A A A Q Y F H G H K C C P A M P Q G L R A G H L A M D V L G V E R A G
UniRef90_F8I269 E Q L W K D T A K F H G H Q C C Q G L A T G F K A A L A A R E Y F E I S S T D
UniRef90_E3PUF1 E Q I L A K V I E F H G H Q C C P G L A I G T R A S E L C L K E L G H N S
UniRef90_L0R9U1 E L I A E S V K T H G H L C C A G Q V I G V R M A L L G L R I G I T K D A D
UniRef90_F8ABF6 Y W E K A A A F H G H K C C P G L A I G F K A V E G A I A E L G L D P A I
UniRef90_R7B501

UniRef90_UPI00047A3C9A F S F Y N R T T G K S V R L V L K 100 110 120
UniRef90_G2FWC0 Y H F Q Y R T G T S E G S L R Q I S I R S E L L D H L V G I H E H M N T R E K Q N K
UniRef90_F7KK64 F S F Y N R A A G S G R V R L V L K P D S M T R E E S F Y Y Q S L E P K S D M
UniRef90_Q311H4 F C F Y D R T S G R G I R L V L K P E A M A E L M K M R A Q A E L T S E M Q A E
UniRef90_R5SXG7 F S F F N R K T S G K S V R L V L K P E V L S R L H A K M Q E H G L T P E E E K E
UniRef90_D6SNK8 F S F Y R R K S D G R A A R L V L T R P E V L S R L H A K M Q E H G L T P E E E K E
UniRef90_UPI0004667EF5 F S F Y R R K D G K S I R V L V L K N N Y R E L Q E K M N S G T I T E K E R E K L
UniRef90_A7IA04 Y T F I N R K T G S A I R L V L Q R P E P L T E R L D P G A S A L R T K V M A G K
UniRef90_N9XTB4 F S F Y N R K T G K S V R L V L K P D F A S K E E S F A Y L Q K R E P E D L F D
UniRef90_B8FBRO F S L L S R K T G K S V R L V L K P G A F K D L V K K R L A D T A T K E D N K R
UniRef90_D5ECC2 F S F Y R R K D G K S I R L V L K K E S G K G T G S P D Y R E L Q T E E E R R R
UniRef90_F1T976 F S F I D R S S G K S V R L V L K D R P K G M T R E E S F D Y
UniRef90_E1YG30 Y T V A N R S T D K A Y R F S R K D E F N N L E K A L S E G T A N E E E R R Q K
UniRef90_J1YP88 F T L I D V K T G R S V R V R L K D E F F S P F V A Q R K Q G I A P Q D I P A E
UniRef90_UPI0003738CD2 Y S F F N R K N G E K L R L R I S F K
UniRef90_Q0W4M6 Y T F M I K G T G E K G L R L Y S L R P E Y I D P E I A A L W E K T S A G E A K A R
UniRef90_UPI00047C0C70 Y H F Y N R T N G K S I R L S L K S S K T Q M D R K N Y K K H L L K E D A K E
UniRef90_D6Z3Z5 F S F Q R R S T G R G L F A V F G R E L R E L M K K I F A G E A D D T Q R Q R A
UniRef90_I4D865 Y M F E Y T G T V R V R I T I N P E L L D H L V I P K D L S S R R E V Q N A
UniRef90_R6NHJ9 F S F Y N R K N G K S V R L V L K P E G M S R A D S F E Y F Q S H E P A E
UniRef90_B9M9L8 Y T L Y S R T S G N G V R V V G V P A K L A G D R A A R A
UniRef90_B5YG02 Y T F F N R S D N K G V R L V S V D F E F K E S E K E K T W Q R F M Q G D R S R E
UniRef90_A6UVC0 Y V F Y S R E H K K G L R L V S F K D E I T N E M N N M W D K K V S D K E R I K L
UniRef90_S7T3G4 F T F F D R A A G K G F R L L L R E E A M G R L M G R I Q D G L A T P E E K A R
UniRef90_D6Z0M8 A T F I N L K T S Q A V R I T A R E A R E L A R H Y C P E I E D R
UniRef90_T0IV16 Y T V G N R S T G K A V R V V V T G D R I E I K T A V F S G Q A T P K Q E E S
UniRef90_R6RSF0 F S F Y D R G S G R A V R L V L K E K P R E M T K A E S Y Q A C E P R E M
UniRef90_A1S040 L T L F R R G E K R G V R V V V P E K V E S L Y P P R A S E L W R K V I E G R G
UniRef90_UPI00037784A1 F T L I D A K S G R S V R V S L K P E F F S P F V Q Q R K A G V A P Q N I P A E
UniRef90_M1NI78 F S F Y D R E N N K G I R F L L R S D P L A D M M A E K S A G I L S K E D D Q K L
UniRef90_I0A2W1 V T L V R R R D N W K G I R V Y V D S K M E K V I A R R E G T S E D Q E R L R K
UniRef90_E7NQF7 F S F Y N R T N K K S V R L M L K P E S I T R E K S L E Y Q S L E P Q E M
UniRef90_B8GIT8 A T F V D I G T G K A V R V A V Q E K N R A Q H D Q L D P K D V
UniRef90_C8X4T7 F S F H R P S T D G I R V L L R R D K L D A L Q R Q K T T P L T P D Q Q A Q
UniRef90_O27399 Y T F F N R K T G D G I R I S L K K P M D Q L M K E L G V T D R A
UniRef90_H3ZLR0 L T L V K R S T W E G V R V Y I D A E R L E K Y Y P P G A K E L F N K V V R E R
UniRef90_B1I3Q7 Y T F A R R E G G E A V R V A L I A A A L E E Y R A L Q E K A L T E E E N Q K A
UniRef90_M1E673 F T L I D T K S K A V R V S L K P K F V D K M L T E R K K G I P P Q D V D P K
UniRef90_G7V6T1 F R F Y R R S D H K A V R I S R D P K E R E L R N K Y V S G T L S D E E M A L Y
UniRef90_F8AJQ1 Y V F Y S R D H Q K G L R I S F M K E K L K D I S D E D E K K L S D E L K N K
UniRef90_UPI00047864D6 F S F Y R R S D G K S F R L V A K P F R M D G D D G S R Q D M L R R K
UniRef90_X1SGU2 Y A K I Y S R K S H K A V R L A L K A S V L D R K K L S R D
UniRef90_E6VRX1 F A F Y D R G R G T G L R L A L L D T D E M G E L M A K S H T G A A T D A D K A R
UniRef90_Q18CR4 Y H F F N R E N G K S I R I Y V K S K P F Q M D R E G Y K K Y L L E S D F E E
UniRef90_F3Z1L0 F S F H R R S D G K A L R A L L R P D A R E L M K R I V D G T A S E E E R R Q E
UniRef90_F7V8X4 F T F F N R K T G K S V R M I L K D K P D W V K K G E S R A Y A S R D P E E
UniRef90_UPI00029A7D21 L T L V K R S T W E G V R V Y A D A E K L A K Y Y P P G A R E L F N K E E R A K
UniRef90_B6YT55 L T L V K R S T W E G V R V Y T D A E K L R K Y K V V K E R K G T P E E R K R L
UniRef90_Q2LY05 F T L I E R K S G R G V R V A L K A G V M E L M E K V H Q M T A P H E T A E F
UniRef90_X8ISE2 F S F Y N R T S N R A I R L V L K A E S F E Y Y Q R S E P R D M F D V K K P H I
UniRef90_L0HF33 A T F V D L K S G R A V R V A V D E K N R A K H D Q M D P K E M
UniRef90_F6D850 A T F T D M E T G R R I R V S A R D D K I K S H P G L N V S K L A K E K N M P K
UniRef90_I3ZUQ7 L T L V K R S T W E G V R V Y A D A E R L R K F N R V V R E R K G S E E E R K R
UniRef90_G9PWW1 F T F Y D R T K N K S L R I V L K E K D F A S K E E K H E
UniRef90_Q2FMG4 A T F V D S R S G K A V R V T A I P K K
UniRef90_Q9UZY9 L T L V K R S G S W E G V R V Y V D A E K L R S Y Y P P E A T E L F E K V V K E R
UniRef90_UPI0003791FE1 F S F Y R R S T G K S V R L V L K P E G L D K G E S F R Y Q A C S P G E M
UniRef90_E8R8Y7 L T L V K R R G T W K G V R I Y V D H E R F S R K Y I P R E A E L F N K V V R E R
UniRef90_D2Z7T7 F T F Y R R R D G K G V R M V L R P N L N M E M D R E E Y R L Y
UniRef90_D7CK49 Y T I L S R N K N R A V R I A E K P E F T R Y R E L A N K S G L S R E E Q E K E
UniRef90_T4VL79 Y H F Y N R K N K K S V R L V L K P N N L D R D E Y K K Y L L T S N P M D
UniRef90_R9T784 Y T F F R R D S G K G L R L I V K N F D K E S Y S R E E L
UniRef90_UPI0003B397E1 F T F Y D R D V G K G F R A L F R D D F R E S E K D A E L K G R A T E E E Q E R
UniRef90_B8D6N1 L T L F R R G S K K G I R V Y V D S D L F E K K V V T E R R G S R E T E K L H K
UniRef90_I3RDW3 L T L V K R G N W E G I R V Y V D A D R L K K F L P D R A T E L F N K V V K E R
UniRef90_A0LPL8 A T F V N V I G T G K A V R I S V R A D L D E K V R I A R A N E T A E S E E A A
UniRef90_V2PX03 F N I F N R K N G K A R F V L N N I Q D F N K E D K
UniRef90_G2FN05 F S F I R R Q D G R G V R V A L K Y D A M D N E R H Q A L R P K V M D K T
UniRef90_M1P8G8 A T F V N L D T G K A V R I V A R E E S R E L S K K Y C P E I E N K
UniRef90_C4XSB8 F T F H R R A D G A G L R L V L R P D A L D P E F A A V R Q A A A R K L P A L
UniRef90_V4JB56 F S F F H R P S G T G I R L L L N P E L H K G R G A E L A E L M S R K Q N G E I
UniRef90_E6W3M9 F R F Y R A D T N Q A L R A L Y Q P P A E F A A M K K P A P H E Q E K R E A
UniRef90_C6BV06 F T F Y R R E D G K G F R A M L N P D F I G G L R S E
UniRef90_D1Y3D9 Y T V F R H S D G S G V R L V Y R S P E S E L S R D E H T R R
UniRef90_UPI0003AA07FB F T L I D T L T G R S I R V S L K P S F F N P F V L Q R R A G V L P Q N I P S E
UniRef90_V4EPM1 F T L L S S N R R A Y R V S R K S E F D R L E A S V A A G N A S E D D R C N L
UniRef90_K0NC74 F T F Y D R D T Q K G F R A V F Q D D F A R D Q D R E D R
UniRef90_E5Y9F9 V T L Y D K A T G E G V R V E L N D N K L E P Y D A I R S W F L K E R P K K E Q
UniRef90_Q29816 L T I V R R K D W K G V R V Y V N A E N V R K Y F S K E A L E L N K V R R E G
UniRef90_R5C215 F N F Y W R D G R A V R L L L K E M S M G R E E K L E Y L K K T P P E E
UniRef90_J9GN56 F S F Y N R
UniRef90_D3L5M1 F R F Y R R R D G K A V R I V R K P
UniRef90_M4YJF9 Y S F F D R R S G K K V R L V A K F D R S I P R E E L
UniRef90_T0INH0 F T V G C R Q S G K A V R V I Q L P H K Y S A E S D A L T R K V M S G R
UniRef90_A1RR19 L I L V D R R G K A V R I S L N P R Y R D Y W S R L P O L T E E K R Q E S
UniRef90_S0G319 F T F F D R D N E K G F R A L F Q D D A I Q A F E P A N G D S E R D A R
UniRef90_C0QG90 F T F F D R S S Q R G F R A V L R P N V T D G A A R K
UniRef90_F8I269 V T L I D T K T R R A V R V V P R Y E R M S Q F F K L R A Q G V P P Y E L D P N
UniRef90_E3PUF1 Y N F F D R T K N R S I R L V L K D M N K D M T R E E K Q N Y
UniRef90_L0R9U1 F T F F R R K D E K G F R A L L N H S F M S R L M G I V A E G T A S E T E K K E
UniRef90_F8ABF6 A T F L N L E T K E A Y R I I A R E A R E L S K N Y F P E I P D K
UniRef90_R7B501 F T F F V R D E N K A V R L F L K S E A G E G M S R D E Y Q N Y

UniRef90_UPI00047A3C9A S F E Y Y Q N C E P E D M F E V K E T T I E L P E
UniRef90_G2FWC0 Y L E A I Q L L L G S E E T L F C T I Q K V
UniRef90_F7KK64 F D V K E T K F L T L P E P A F A S Y E
UniRef90_Q311H4 L S A L R K E Q Y T L P L E E M F S V S G W D M A P R P
UniRef90_R5SXG7 E S L A Y L Q E R E P E E L F D V K P
UniRef90_D6SNK8 L G E A R R R I M E S P L E E E V F E I K
UniRef90_UPI0004667EF5 R F D R C H S V L N A P I E E F F I V E E
UniRef90_A7IA04 A T A L I K K L L T I P I G E L F I E K
UniRef90_N9XTB4 V K E A V
UniRef90_B8FBR0 F W E R S N L I L E Q D P V N I F D L N P A S I E M P
UniRef90_D5ECC2 F A A L R Q E L M T M P V E E L F E I G T V
UniRef90_F1T976 M Q G K L P E E L F D I T D V K V Q L P E
UniRef90_E1YG30 Y L K A V D L F S K P F S E V F H T E E L K F S M P P
UniRef90_J1YP88 V T D P V N K V I S M P E E M F L D I G K K P F E L P R
UniRef90_UPI0003738CD2
UniRef90_Q0W4M6 V E R I C R A I L E T S G D V V F D I R E V A I D F P
UniRef90_UPI00047C0C70 L F E V S E T N I H L P E
UniRef90_D6Z3Z5 A R Q N R Q R L M A A D L D E L F T V S E S P A T M P
UniRef90_I4D865 T L E A I Q F L L S S E E S M F C S I Q K
UniRef90_R6NHJ9 L F D V K E T V I E L P E P A I F K S E Q
UniRef90_B9M9L8 L F D V K E T V I E L P E P A I F K S E Q
UniRef90_B5YG02 I V E F I E K I L K A K K D E I L K I
UniRef90_A6UVC0 M D E L A E K I L N L F D G E L L N I E E V D I P E P E
UniRef90_S7T3G4 A A E L R E R L M S L D L G E M F S L S V V D
UniRef90_D6Z0M8 Y Q Q L Q A Y R V M P E E E L F T I Q R V A V E V P
UniRef90_T0IV16 W Q E R I A C L L A T P P E E L F K I Q D V E L K L P
UniRef90_R6RSF0
UniRef90_A1S040 T R E D A E E L D K L F E E L G L R M L E L P E S F F K
UniRef90_UPI00037784A1 V A D P V N N I L K M P E E K F L N I S T I K Q V
UniRef90_M1NI78 A E Q R I K R F M S L S L E E D M F S I E K L
UniRef90_I0A2W1 L W N E I G F A L R D A P E E I F K I E E V K
UniRef90_E7NQF7 F D V M A A K I E L P E
UniRef90_B8GIT8 I K L L G E I P E S E I L K I E R V Q I S V P E
UniRef90_C8X4T7 E S H L R Q K L M T L S L N D L F E F Q S P S P M P R
UniRef90_O27399 E L T E K I L E M D P H D L F E V R D V S E K P P E
UniRef90_H3ZLR0 T A E E R K Q L K G L W E K A A K N M L H I P K E E F K I
UniRef90_B1I3Q7 F V L R K R E E I M E M P E T D L F Q V R R V T V E P P
UniRef90_M1E673 I T D P I E K V L N L K E E D F L D I S P V D Y D F K K I
UniRef90_G7V6T1 A K E K S N Q I L K A D L A E L V K I Q E I P Y E
UniRef90_F8AJQ1 S I E M I L N L P E D E L L H I E E V D I P E P K
UniRef90_UPI00047864D6
UniRef90_X1SGU2 A E K I Q K L L D L E P E E L F D I R E I E F D P P
UniRef90_E6VRX1 L A E L R E R F M V L P L E E M F H I T P L T L S A P R
UniRef90_Q18CR4 I F E I T D T K L R L P E
UniRef90_F3Z1L0 L R A Q V Q K I M D A D L E I L L F S I E A I E S L P P R
UniRef90_F7V8X4 L F D L T E V R L A L P E
UniRef90_UPI00029A7D21 L R E L W E E L H L P R E E F K V E R V K V
UniRef90_B6YT55 L W E S I A K M L Y L P K E E F K I E R V K V
UniRef90_Q2LY05 H S Q K A L E I L Q K P I E T L F N I Q P I N R T L P P
UniRef90_X8ISE2 A V P D R A K I F E
UniRef90_L0HF33 L Q A L A T A P D E E I L K I Q R V S V E I P E
UniRef90_F6D850 I M E E I K K L S E M P D D E L L T I E E L D E K L P E I
UniRef90_I3ZUQ7 L W E L W E E V L H L P R D E F K I K R V
UniRef90_G9PWW1 F M A P S R E I F A V E T A E L
UniRef90_Q2FMG4 F R A I A Q N L A V V P E S E L F T I Q K V T V T I P
UniRef90_Q9UZY9 T S E E R E K L R E L W E E L G R K F L Y L P R K V F E I
UniRef90_UPI0003791FE1 F D V K E T R I T L P E
UniRef90_E8R8Y7 T P E E V E E L R R R W E E V G L S V R N L P E E E F T V
UniRef90_D2Z7T7 L L A P L E E L F E L P R E E L
UniRef90_D7CK49 Q L Q A V E A I M T R P F E D M F D Y R E V P A V P P R
UniRef90_T4VL79 L F E F M E T N I E I P E K A R I F V S E I
UniRef90_R9T784 I Q H I L D S P A E D I F E M S E P R S E M P E
UniRef90_UPI0003B397E1 R S Q R I H Q L M N A D L D A L F V S K E I D
UniRef90_B8D6N1 L W S E I G K M A N I P E E E F
UniRef90_I3RDW3 T Y E E R K E L W K L W E E D V F E I K R I K V V
UniRef90_A0LPL8 Y L A A L A A M P E E E V L K I G R V
UniRef90_V2PX03 I M K Y I L S T D E E K L F T V K D V K I M F P E
UniRef90_G2FN05 A T A E I E E L V E A P P E E H F D W R E I T F E L P K
UniRef90_M1P8G8 Y Q R Q L G A Y R V M P E E E L F T V D E V H V D L P K
UniRef90_C4XSB8 A R Q C A A R V L A S D P E S L F
UniRef90_V4JB56 T R T E E R I A V L R V E L
UniRef90_E6W3M9 L C R A I M E T P L E A L F R V E E I P T P A P R
UniRef90_C6BV06
UniRef90_D1Y3D9 L L T E S D E V L K K P E E A I
UniRef90_UPI0003AA07FB D V D Q V E K I L N L A E E N F L E I G E L
UniRef90_V4EPM1 K R L K I N D L L T R S F E E I F T T T Q M P F
UniRef90_K0NC74 I K R I L E A D L K D L F L T E D V D V
UniRef90_E5Y9F9 D T E R L Q A Q I K E A G E S L L S F R K V
UniRef90_Q29816 S E E D A K R L S E F W E E T G W K M L E I P
UniRef90_R5C215 L F S V E E L H D T P P S E
UniRef90_J9GN56
UniRef90_D3L5M1
UniRef90_M4YJF9 V E A R I E I L L N G P L E Q V F D V K E P K F D L P E
UniRef90_T0INH0 L M E A S A E V L E A P D A I F K I E E V P
UniRef90_A1RR19 T R A I M E A D L A D L F S V A P V
UniRef90_S0G3I9 D A I E M I M A A D L D E L F R V Q E I P V K P A R I
UniRef90_C0QG90 V V E P I E D V L T T P W D Q V F S V Q K V P E V F D A V
UniRef90_F8I269 L L N H D S K E L F D Y T E V R H Q I P E
UniRef90_E3PUF1 C K E I R E E Y L D A D L E E L F L I E K P Q V S V P R
UniRef90_L0R9U1 Y R R Q L E A Y R V M P E E E L F D I Q K V E V E L S
UniRef90_F8ABF6 L L N T P Y T E L F E V
UniRef90_R7B501

UniRef90_F2NC28
UniRef90_O58945
UniRef90_A7IAW2
UniRef90_Q12WU4
UniRef90_C1F851
UniRef90_G2FN58
UniRef90_N9YMI8
UniRef90_H6LBZ7
UniRef90_E1JRN7
UniRef90_K2RFD3
UniRef90_E0STT4
UniRef90_Q1IUE2
UniRef90_E6QMN5
UniRef90_K1YBD9
UniRef90_D9QVR4
UniRef90_Q8KBR7
UniRef90_S7VIZ1
UniRef90_F6CH67
UniRef90_D3S716
UniRef90_F8A9H5
UniRef90_E8RGN9
UniRef90_E6PYP2
UniRef90_I0ANH5
UniRef90_B8I2H4
UniRef90_UPI000475BB54
UniRef90_F6D849
UniRef90_R5AUF9
UniRef90_J7IS90
UniRef90_Q0AWE2
UniRef90_S5ZVK1
UniRef90_F0JJV2
UniRef90_I3ZCP6
UniRef90_A5UN23
UniRef90_C9RG64
UniRef90_E1YL91
UniRef90_UPI00029A37DD
UniRef90_B5YHS1
UniRef90_M1PVB0
UniRef90_R7CFY8
UniRef90_UPI0003682DCD
UniRef90_U6E9K0
UniRef90_R6HIC3
UniRef90_UPI00040F4B2D
UniRef90_UPI00047A8347
UniRef90_L0RD26
UniRef90_B8DS22
UniRef90_H1L1M9
UniRef90_S6AE29
UniRef90_UPI0003724B2E
UniRef90_UPI0003675D01
UniRef90_UPI00033B548E
UniRef90_NOBS2
UniRef90_B8FMK0
UniRef90_A0A016QMK5
UniRef90_H2C162
UniRef90_W2VEI3
UniRef90_F0RN83
UniRef90_D8FFG6
UniRef90_X1UFC6
UniRef90_I0ANH8
UniRef90_A1VH88
UniRef90_M5ECY4
UniRef90_UPI0003A120D2
UniRef90_S7V597
UniRef90_Q2LQ23
UniRef90_B8J0Y3
UniRef90_S0FSY6
UniRef90_UPI00035CF1A9
UniRef90_Q8PWI2
UniRef90_I0I9U9
UniRef90_W0JET9
UniRef90_C7LUC4
UniRef90_E3CWP7
UniRef90_S0FZ86
UniRef90_E8UXF2
UniRef90_I5AZW5
UniRef90_Q9HJ63
UniRef90_C6BWW7
UniRef90_D6STP5
UniRef90_A1AP10
UniRef90_Q97AY5
UniRef90_A7NL86
UniRef90_M1QA18
UniRef90_E5Y2R6
UniRef90_C0QGJ3
UniRef90_UPI0003B44002
UniRef90_G7WNG1
UniRef90_G7WKY8
UniRef90_A9WAQ4
UniRef90_UPI00037700C0
UniRef90_R9SHY1
UniRef90_UPI0002F2DC9A

UniRef90_F2NC28
UniRef90_O58945
UniRef90_A7IAW2
UniRef90_Q12WU4
UniRef90_C1F851
UniRef90_G2FN58
UniRef90_N9YMI8
UniRef90_H6LBZ7
UniRef90_E1JRN7
UniRef90_K2RFD3
UniRef90_E0STT4
UniRef90_Q1IUE2
UniRef90_E6QMN5
UniRef90_K1YBD9
UniRef90_D9QVR4
UniRef90_Q8KBR7
UniRef90_S7VIZ1
UniRef90_F6CH67
UniRef90_D3S716
UniRef90_F8A9H5
UniRef90_E8RGN9
UniRef90_E6PYP2
UniRef90_I0ANH5
UniRef90_B8I2H4
UniRef90_UPI000475BB54
UniRef90_F6D849
UniRef90_R5AUF9
UniRef90_J7IS90
UniRef90_Q0AWE2
UniRef90_S5ZVK1
UniRef90_F0JJV2
UniRef90_I3ZCP6
UniRef90_A5UN23
UniRef90_C9RG64
UniRef90_E1YL91
UniRef90_UPI00029A37DD
UniRef90_B5YHS1
UniRef90_M1PVB0
UniRef90_R7CFY8
UniRef90_UPI0003682DCD
UniRef90_U6E9K0
UniRef90_R6HIC3
UniRef90_UPI00040F4B2D
UniRef90_UPI00047A8347
UniRef90_L0RD26
UniRef90_B8DS22
UniRef90_H1L1M9
UniRef90_S6AE29
UniRef90_UPI0003724B2E
UniRef90_UPI0003675D01
UniRef90_UPI0003B3548E
UniRef90_NOBBS2
UniRef90_B8FMK0
UniRef90_A0A016QMK5
UniRef90_H2C162
UniRef90_W2VEI3
UniRef90_F0RN83
UniRef90_D8FFG6
UniRef90_X1UFC6
UniRef90_I0ANH8
UniRef90_A1VH88
UniRef90_M5ECY4
UniRef90_UPI0003A120D2
UniRef90_S7V597
UniRef90_Q2LQ23
UniRef90_B8J0Y3
UniRef90_S0FSY6
UniRef90_UPI00035CF1A9
UniRef90_Q8PWI2
UniRef90_I0I9U9
UniRef90_W0JET9
UniRef90_C7LUC4
UniRef90_E3CWP7
UniRef90_S0FZ86
UniRef90_E8UXF2
UniRef90_I5AZW5
UniRef90_Q9HJ63
UniRef90_C6BWW7
UniRef90_D6STP5
UniRef90_A1AP10
UniRef90_Q97AY5
UniRef90_A7NL86
UniRef90_M1QA18
UniRef90_E5Y2R6
UniRef90_C0QGJ3
UniRef90_UPI0003B44002
UniRef90_G7WNG1
UniRef90_G7WKY8
UniRef90_A9WAQ4
UniRef90_UPI00037700C0
UniRef90_R9SHY1
UniRef90_UPI0002F2DC9A

ME E I V A I V I E T N N S R S C C C C F T D D G V I Q V V T T G C C T F F G N N S L I F K D L G K T A
D E S I L A I V I E T N N S R S C C C C F A T D D G V I Q V V T T G C C T F F G N N S L I F K D L G K T A
P H N L I V F M E T N N S R S C C C C G S V D D A I G V V T T G C C T S L F G H K G N L K H K D F G K F A
U n i R e f 9 0 _ Q 1 2 W U 4 D E E L V V V V M E T N N S R S C C C C A T V D D A I G V V T T G C C T R L G K K R S A L K F R D W G K M A
R K R L V T Y V I E T D R S R C C C C A T V D D A I G V V T T G C C T R L G K K R S A L K F R D W G K M A
U n i R e f 9 0 _ C 1 F 8 5 1 D K E E L V M V I S E N D G A C C C C A F V D D A I G V V T T G C C T S Y G K K G N L K K T Y V R G K M A
U n i R e f 9 0 _ G 2 F N 5 8 D E E V V V I S E N D G A C C C C G S V D D A I G V V T T G C C T S Y G K K G N L L F K E G K Q A
U n i R e f 9 0 _ N 9 Y M I 8 N D K I V C V A E N E S C C C C G S V D D A I G V V T T G C C T S Y G K K G N L L F K E G K Q A
U n i R e f 9 0 _ H 6 L B Z 7 D E N D V V A V I E T D M R C C C C A V S D A I L M G C C C S Y G K K R R L K Y N D Y G K F V
U n i R e f 9 0 _ E 1 J R N 7 G E E L L A I V I E A N N R C C C C M A D D G V I Q I A T T G C C T S L G N N S L I Y I D V G K N A
U n i R e f 9 0 _ K 2 R F D 3 R K R L L V T Y V I E T D R R C C C C A T D D A I G V V T T G C C T R L G K R A L K F R D W G K M A
U n i R e f 9 0 _ E 0 S T T 4 G R K R L L A F V I E T D R G C C C C A F A D D G V I S V A T T G C C S L G K R S M K W L D Y G I M A
U n i R e f 9 0 _ Q 1 I U E 2 U n i R e f 9 0 _ E 6 Q M N 5 R K K L Y V I V I E T D R S C C C C A T D D A I G V V T T G C C S L G K R S M K W L D Y G I M A
U n i R e f 9 0 _ K 1 Y B D 9 M E D V V A I V I E T N N S C C C C A F S D D G V I Q Q Y A T T G C C S F F G K G N L I Y R D Y G K T A
U n i R e f 9 0 _ D 9 Q V R 4 D D G Q L L D L V I E T C A T S C C C C F A D D G V I Q Q M I T T G C C S T F F G K G N I K K L H Y Y G K W G
U n i R e f 9 0 _ Q 8 K B R 7 D D G Q L L D L V I E T C A T S C C C C L P D A V I Q V L L T P C C C T A G K G W L R V V D L G R Y A
U n i R e f 9 0 _ S 7 V I Z 1 G H D L V A V V I E N R S C C C C A A D A D A I Q V V M S G C C C T F F G K G N F V Y R D N G K Y V
U n i R e f 9 0 _ F 6 C H 6 7 D E E L V A I V I E N D S C C C C S L D D A I G V V T T G C C T S Y G K K G N L I Y K D Y G K H V
U n i R e f 9 0 _ D 3 S 7 1 6 S K E L M L L S E T G T S C C C C F L D D G V I M M A T T G C C T S Y G K K G N C Q K L Y Y N K M A
U n i R e f 9 0 _ F 8 A 9 H 5 R K K L Y V I V I E T D R R C C C C A T D D A I G Q S V T T G C C S L G K R R A L K F R D W G K M A
U n i R e f 9 0 _ E 8 R G N 9 R K K L V C F V I E T D R C C C C A T D A I G M V T T G C C R L G K R R A L K F R D W G K M A
U n i R e f 9 0 _ E 6 P Y P 2 D G Q I L A F V I H C A T C C C C Y A D D G L Q Q V I M G T T F F G K G N I K K T H K G K W A
U n i R e f 9 0 _ I 0 A N H 5 Y G K L V C I T E N D A C C C C G V D G C L L G C C S A G K R R T M R L V D H G K V A
U n i R e f 9 0 _ B 8 I 2 H 4 U n i R e f 9 0 _ U P I 0 0 0 4 7 5 B B 5 4 D K R V L V F I E T D G C C C C F A D D G V I S V G S G C C S L G H R S L K Y V D Y G K F A
U n i R e f 9 0 _ F 6 D 8 4 9 S H D L I V V I E T D R C C C C M T D A V I Q A I T T G C C S L G H R S L K Y V D Y G K F A
U n i R e f 9 0 _ R 5 A U F 9 D E Q V V C I A E N D A C C C C G V D G C L L G C C S L G K K G N L L F H M R G K Q A
U n i R e f 9 0 _ J 7 I S 9 0 D P M I K V I T A Y I H A C C C C A L D A F I I N R A T Y G K K R S L F V E E Q N I H S
U n i R e f 9 0 _ Q 0 A W E 2 N K D F I V F V I E A D R C C C C I A D A V I S A V T T G C C T L G K R R S L K W F D Y G K M A
U n i R e f 9 0 _ S 5 Z V K 1 R E D V V A I V I E A N N C C C C F A D D G V I Q V V T T R C C C T F F G K G N L V Y L D T G K T A
U n i R e f 9 0 _ F 0 J J V 2 G L D L V A V A E T D M C C C C G V D A I Q Q L L T D T C C C T F F G K G N F I H R D Y G K K A
U n i R e f 9 0 _ I 3 Z C P 6 D K R L V T F V I E T D R C C C C A T D A I G V V T T G C C R L G K R A L K F V D W G K M A
U n i R e f 9 0 _ A 5 U N 2 3 R K N L I V I F L E T D R S C C C C M A D A I Q A V L T K C C C S M G K R S L K Q M Y Y G K F A
U n i R e f 9 0 _ C 9 R G 6 4 D E D L V A I V I E G N N S C C C C S V D A I Q F L L G C C T F F G K G N L I H K D Y G K H V
U n i R e f 9 0 _ E 1 Y L 9 1 G E D L I V F V I E T D R C C C C A T D A I L A T T G C C H P G K R T M K I L D Y G K M A
U n i R e f 9 0 _ U P I 0 0 0 2 9 A 3 7 D D M E E L L A F V I E T N N C C C C F S D D G V I Q Y I S G C C T F F G K G N L I F Q D Y G K N A
U n i R e f 9 0 _ B 5 Y H S 1 V K E L F V I L E T N G C C C C F G D G V I Q F A T T G C C T A G K G N L I K K P R G K L A
U n i R e f 9 0 _ M 1 P V B 0 M E D V L A I M E T N N C C C C A S D D G V I Q F V T T G C C T F F G K N S L I F R D L G K T A
U n i R e f 9 0 _ R 7 C F Y 8 Y R D L I V I E T N N C C C C L T D A I M V V T T G C C H P G K R R M K C L D F H G K Q A
U n i R e f 9 0 _ U P I 0 0 0 3 6 8 2 D C D D H D A I A L T E P Q N C C C C M N D D A I Q I A T T G C C T Y G K K L M E K L H Y Y G K A A
U n i R e f 9 0 _ U 6 E 9 K 0 N R D L I V Y V I E T D R C C C C M V D A I Q A V T T G V T M G H R T L K Y K D Y G K F A
U n i R e f 9 0 _ R 6 H I C 3 Y R D L I V Y V I E T D R C C C C L T D A I M V V T T G C C H P G K R R M K C L D F H G K Q A
U n i R e f 9 0 _ U P I 0 0 0 4 0 F 4 B 2 D I K K L I V Y V I E M D R C C C C A A D A I S T V T T G A R L G K R R S L K F V D N G I M A
U n i R e f 9 0 _ U P I 0 0 0 4 7 A 8 3 4 7 D K R L V T F V I E T D R C C C C A T D A I S T V T T G C C R L G K R V L K F R D W G K M A
U n i R e f 9 0 _ L 0 R D 2 6 D D A I S E T E W C C C C L P D A V I Q Q M L S V C C C S V V G N G W L R I K N L G V I Y A
U n i R e f 9 0 _ B 8 D S 2 2 D A I S E T E Q C C C C L P D A V I Q Q L L T P C C C T V V G N G W L R I M N F G L Y A
U n i R e f 9 0 _ H 1 L 1 M 9 G E R I Y A I C E T Y N C C C C L P D A F Q I L L G C C C T I G N K R L K V I D T G K M A
U n i R e f 9 0 _ S 6 A E 2 9 Y R Q L H A F V I E T G M C C C C F G D D G V I Q F T T G C C T L G K R N M E K I P Y G K L A
U n i R e f 9 0 _ U P I 0 0 0 3 7 2 4 B 2 E G K D L I V Y V I E T D R C C C C A A D A I C V V T T G C C T L G K R R L K F V D N G I M A
U n i R e f 9 0 _ U P I 0 0 0 3 6 7 5 D 0 1 R K R L V T F V I E T D R C C C C A T D A I G V V T T G C C R L G K R A L K F R D W G K M A
U n i R e f 9 0 _ U P I 0 0 0 3 B 3 5 4 8 E E A V V I E S G C C C C L P D A V I Q L L T C C C S T F G N N S W K I H N L G R Y A
U n i R e f 9 0 _ N O B B S 2 G E E I L A I V I E C N N C C C C F A D D G V I Q I A T T G C C S T F G N N S L I Y A D I G K N A
U n i R e f 9 0 _ B 8 F M K 0 D K R V M V L I E T D G C C C C F A D D G V I S V A S G C C W L G R R T L R L L D Y G R V A
U n i R e f 9 0 _ A 0 A 0 1 6 Q M K 5 D T N T Y V F S E T D G C C C C F D D G V I Q A A T T G C C T Y G K G N Y K R L D Y G K M A
U n i R e f 9 0 _ H 2 C 1 6 2 D K N L K V Y V I E T D R C C C C I A D A I M T V T T G C C K V G K R R F V F L D Y G K T A
U n i R e f 9 0 _ W 2 V E I 3 D K R L L V L A E T D G C C C C Y A D G L S A A S C C C W L G R R T L R L M D Y G R V A
U n i R e f 9 0 _ F 0 R N 8 3 D K R L L V L A E T D G C C C C Y A D G L S A A S C C C W L G R R T L R L M D Y G R V A
U n i R e f 9 0 _ D 8 F F G 6 D D K L A L S E T R A C C C C L P D A V I Q Q L L T P C C C T I G N G W L K V I N M G R Y A
U n i R e f 9 0 _ X 1 U F C 6 M E K L L A I V I E T N N C C C C F A D D G I Q F V T T G C C T L G N N S L I Y R D L G R T A
U n i R e f 9 0 _ I 0 A N H 8 D H Q M H V I F S E P Q C C C C M Q D D G I M S A T T G A T F G K G M I D R M N Y G K V A
U n i R e f 9 0 _ A 1 V H 8 8 D A V I S E T G Q C C C C L P D A V I Q Q M L T P C C C T I G N G W L R I R N F G L Y A
U n i R e f 9 0 _ M 5 E C Y 4 M E D L L A V I E T N S C C C C F S D D G V I Q Y A A G T T F G N N S L I Y R D F G K T A
U n i R e f 9 0 _ U P I 0 0 0 3 A 1 2 0 D 2 D A V S E T V Q C C C C L P D A V I Q Q M L T P C C C T V G N G W L R I F N F G I Y A
U n i R e f 9 0 _ S 7 V 5 9 7 R K K L I V Y V I E T D R C C C C A T D A I E S V T T G C C R M G R R S L K F K D F G I N A
U n i R e f 9 0 _ Q 2 L Q 2 3 D A I C E T R T C C C C L P D A V I Q L L T P C C C T F G N G W L T V L P M G L F A
U n i R e f 9 0 _ B 8 J 0 Y 3 D R D L V I F L I E T D R C C C C V A D A A Y V V T T G V T L G R R R S L K V F Y G Y G K T A
U n i R e f 9 0 _ S 0 F S Y 6 I K K L I V Y V I E M D R C C C C A G D A I A H V V T T G V K L G R R S L K F M N Y G I M A
U n i R e f 9 0 _ U P I 0 0 0 3 5 C F 1 A 9 M E D L M A I V I E T N A C C C C F A D D G V I Q A V S G C C T L G N N A L V F R D L G K M A
U n i R e f 9 0 _ Q 8 P W I 2 D E E L V A V I E N R S C C C C A F V D A I G S V A T T G C C C Y G K G N L L F K E H G K H V
U n i R e f 9 0 _ I 0 I 9 U 9 D K R L L V I A E T D G C C C C A T S G L S V A T T G C C W V G R R T L R I E D Y G K L A
U n i R e f 9 0 _ W 0 J E T 9 N E N L L A I V I E C N N C C C C F L D D G V I Q I A T T G C C T I G N N S L I Y L D T G K N S
U n i R e f 9 0 _ C 7 L U C 4 D D A I S E T A W C C C C L P D A V I Q Q M L T P C C C T V G N G W M R I F N L G L Y A
U n i R e f 9 0 _ E 3 C W P 7 D E D V V T V A E T D M C C C C G V D A L A Q V L L S C C C T A G K G N L I R N R G K V A
U n i R e f 9 0 _ S 0 F Z 8 6 I K K L L V Y V I E M D R C C C C A T D A V A H V T T G V K L G R R S L K F M D Y G I M A
U n i R e f 9 0 _ E 8 U X F 2 D K R L V T F V I E T D R C C C C A T D A I G V V T T G C C R L G R R A L K F V D W G K M A
U n i R e f 9 0 _ I 5 A Z W 5 I K K L I V Y V I E M D R C C C C A T D A I S Y V T T G V K L G R R S L K F I D N G I M A
U n i R e f 9 0 _ Q 9 H J 6 3 D H R T Y L L S E M N G C C C C F N D G A Q A A T T G C C T Y G K G L F S L L G Y G K L A
U n i R e f 9 0 _ C 6 B W W 7 D A V V I E T P K C C C C L P D A V I Q L L T L C C C S Y G N S W M K V I K L G R Y A
U n i R e f 9 0 _ D 6 S T P 5 D A V V I E T P K C C C C L P D A V I Q L L T L C C C T V G N S W L K I V N L G R Y A
U n i R e f 9 0 _ A 1 A P 1 0 D L I V F V I E N D R C C C C I A D A V L M A T T G T R L G R R S L K F V D Y G K M A
U n i R e f 9 0 _ Q 9 7 A Y 5 D H K T L L Y S E M N G C C C C F N D G A Q A A T T G C C Y G K G L N L L G Y G K L A
U n i R e f 9 0 _ A 7 N L 8 6 N K R L F T F V I E T D G C C C C F A D D G V I S V A T T G C C W L G R R T M R L L D Y G K V A
U n i R e f 9 0 _ M 1 Q A 1 8 M E E T L S I V I E T N S C C C C F T D G I Q Y S T G N T F G N N G L I Y R D F G K T A
U n i R e f 9 0 _ E 5 Y 2 R 6 E A V I E T R K C C C C L P D A V I Q L L T L C C C S A G N N W M K V H N L G R Y A
U n i R e f 9 0 _ C 0 Q G J 3 D A I C E T S Y C C C C L P D A V I Q V L L S C C C T T G N A W L K V V N L G R F A
U n i R e f 9 0 _ U P I 0 0 0 3 B 4 4 0 0 2 D R D L V I F L I E T D R C C C C V A D A S Y V V T T G V T V G R R R V K M Y S Y G K T A
U n i R e f 9 0 _ G 7 W N G 1 G D R L F V T C E T S C C C C L P D A F Q V L G G C C T L G N K G L R I E N L G R K M A
U n i R e f 9 0 _ G 7 W K Y 8 D E N L M A V V I E T N A C C C C F A D D G V I Q A V S G C C T L G N N A L V Y R D L G R L A
U n i R e f 9 0 _ A 9 W A Q 4 N K R L Y T F V I E T D G C C C C F A D D G V I S V T T G C C W L G R R T M R L M D E G K V A
U n i R e f 9 0 _ U P I 0 0 0 3 7 7 0 0 C 0 E A I S E T T W C C C C L P D A I Q Q M L T L C C C T L G N G A W M N V L N L G R Y A
U n i R e f 9 0 _ R 9 S H Y 1 H K N L M V F V I E N D R C C C C M S D A I L V V T H C C C N M G K R A L K Q M Y Y G R F A
U n i R e f 9 0 _ U P I 0 0 0 2 F 2 D C 9 A M E K I L A I V I E T N N C C C C F A D D G I Q Y V S G C C T F G N N G L I F K D Q G K N A

UniRef90_F2NC28
UniRef90_O58945
UniRef90_A7IAW4
UniRef90_Q12WU4
UniRef90_C1F851
UniRef90_G2FN58
UniRef90_N9YMI8
UniRef90_H6LBZ7
UniRef90_E1JRN7
UniRef90_K2RFD3
UniRef90_E0STT4
UniRef90_Q1IUE2
UniRef90_E6QMN5
UniRef90_K1YBD9
UniRef90_D9QVR4
UniRef90_Q8KB7
UniRef90_S7VIZ1
UniRef90_F6CH67
UniRef90_D3S716
UniRef90_F8A9H5
UniRef90_E8RGN9
UniRef90_E6PYP2
UniRef90_I0ANH5
UniRef90_B8I2H4
UniRef90_UPI000475BB54
UniRef90_F6D849
UniRef90_R5AUF9
UniRef90_J7IS90
UniRef90_Q0AWE2
UniRef90_S5ZVK1
UniRef90_F0JJV2
UniRef90_I3ZCP6
UniRef90_A5UN23
UniRef90_C9RG64
UniRef90_E1YL91
UniRef90_UPI00029A37DD
UniRef90_B5YHS1
UniRef90_M1PVB0
UniRef90_R7CFY8
UniRef90_UPI0003682DCD
UniRef90_U6E9K0
UniRef90_R6HIC3
UniRef90_UPI00040F4B2D
UniRef90_UPI00047A8347
UniRef90_L0RD26
UniRef90_B8DS22
UniRef90_H1L1M9
UniRef90_S6AE29
UniRef90_UPI0003724B2E
UniRef90_UPI0003675D01
UniRef90_UPI0003B3548E
UniRef90_NOBBS2
UniRef90_B8FMK0
UniRef90_A0A016QMK5
UniRef90_H2C162
UniRef90_W2VEI3
UniRef90_F0RN83
UniRef90_D8FFG6
UniRef90_X1UFC6
UniRef90_I0ANH8
UniRef90_A1VH88
UniRef90_M5ECY4
UniRef90_UPI0003A120D2
UniRef90_S7V597
UniRef90_Q2LQ23
UniRef90_B8J0Y3
UniRef90_S0FSY6
UniRef90_UPI00035CF1A9
UniRef90_Q8PWI2
UniRef90_I0J9U9
UniRef90_W0JET9
UniRef90_C7LUC4
UniRef90_E3CWP7
UniRef90_S0FZ86
UniRef90_E8UXF2
UniRef90_I5AZW5
UniRef90_Q9HJ63
UniRef90_C6BWW7
UniRef90_D6STP5
UniRef90_A1AP10
UniRef90_Q97AY5
UniRef90_A7NL86
UniRef90_M1QA18
UniRef90_E5Y2R6
UniRef90_C0QGJ3
UniRef90_UPI0003B44002
UniRef90_G7WNG1
UniRef90_G7WKY8
UniRef90_A9WAQ4
UniRef90_UPI00037700C0
UniRef90_R9SHY1
UniRef90_UPI0002F2DC9A

90 100 110 120
VTVAARRDDGRAVRLVVRPDYREKMFARQVGSAAEEERHRFEH
LTLVKRGTNGWEGVRRVVDAEKLDYYPGAGLELFEKVIKR
ATFVNTTTRNGRNTALRIVSVVHNPEKNRRAESHDKLDRKEL
YTFVFKRGTDRNIALRIRVSVVNEPRKRNSDEKYNELFPKVRNGT
ATFVDLSTGKRALRIRIALLAESKQLARERYPEEITENK
FTFLDTRKLGKAVLRLVQLKAEFFSPFVLLQKQGVLPQDILIAN
FTFFDRYKQKSVLRLVVLKPEEGMTRQESFAYQSCAPKDM
FSVFNQTTGGESIRRLILKELPPMERDEMEAF
FTFHRRRDRGVAJLRLARPDLDVDPFEFAAVRELELNTDELPALE
VNFTRDKNRKKTIRRVVSTRDDDKVSSFTGFWSDKYTPTTQRE
LTLVVRGTRWRGVRRVYDAESKLDKVVRRREGSKEDEKELHR
ATFVLDLEAGRAVRAARESSKELARQLHPELNDNK
ATFVDTHAGKALRFRNPSPDARMRAAFASAEAVTRWRAQ
ATFVNLSASGAAVRVRTALLEEAREELSKKYCAADITDK
VTVAKRDDGTGIRVTVKPEAEELFDKVIIVNRAGTKEDKKR
VTLLDTQTRGAVRVRTVVKAEAMEFFTEYRMRKHIPASKVP
VSLYNKYNGEGVRRVSLNAEALDAWPEIKGWFFKLLKTKEEQ
FTFARMGIEKQALRISLVKAGVLDLDEFVTLMEKEGEEFYRR
YTFYSRIQEKALIKISVQGLLEYLENMVTNTEYKEKLLK
FVLDVVEEKAVRVAVRAEFILKPFMKKRQEGIPPEMIEPE
ATFVNLSSGRAIRATAREESRELAARAFAEVIESAGAKQK
ATFVDLSSGRAIRIIVALENSRELAARAFAEVIESAGAKQK
VTVDKATSGKAVRRTPKAESAAMDFFKEYREKGLIPASAKV
YSFFDRESGTAALRLCLLRASDLRARVRAGRPEGKNGQGTGRE
ATLVDTRTGTQAVRRARPQTDLRARVRAGRPEGKNGQGTGRE
ATFVNMKTGKAVRRLVSSLEDRSKDPANQSMERPEGMTREESFAY
FSFYNRATDKGKSLRITVLRPKKITEITESAVALGKRERERQAK
YVVFQTDNNAEKLRQIVTVPKITEITESAVALGKRERERQAK
ATFVDMNSQKGIIRIVTAAASEREGPSD
LTVFRRGEKRGVRYVYVQPEVGLWRVVAERRGSREDAER
FSFFDRKTRGGRFALLR
ATFIDRTAGAGVRRVAARESSRD LARERFPEMTDKNQQQ
VTFYNMDDTGEALRRLVSDADANKKDKSQETRE
YVVFYSRNDYKKAALRIRISVKGD LFEYVNSLAEDFENYKKS LKE
ATFVNLKTKGKAVRRLVVKNKDGDRVQTRREEIEQN
VSLVSRDGRGQIRARAKNDIRQVIGSLDFNPLFEKVVVEEK
FTLLIDPKQGGQIRLCLCFANPKIREKLAKKRAAGVPT EIEE
FTLAKRDDGTGIRRLVTEPDAGDEWSDEEYQELFEKVVKDR
ATFYDQSGKAIIRMTNVSEKAPKDCNLK
FVLYHPERGAVRVAVKAEEFFGR LNRFRFKGLIEPSFPEE
ATFLDLSTGKAVRRLISAAGEERDP
ATFVDMNRNKAALRRLVNVSEKCKPKGE DVKAWFATR
ATFVNLLETGKAVRRLVSKESARS LAASKA Q IRDR
ATFVDLJASGRAIRIRIAR ESSKVLAKEMY PQME DKNQQQM
LSLFDKKTGEGVRRVRLVDVDDKLDWPEVKS WFLKPKKPKKDDQ
VSLFDKRTGEGVRRVHLLVDVDMGMPWEIIRKQDQDTPLKQAQ
VTVNLKWRREGGETVRRGVRLILDPKKTILKYPKLHAWLIEKV
VTLTEJESNRAAVRRLSYKPTLAKQDAAKRGQGMEDALIEAE
ATFVNLASNEAVRRLSPASDILKIPDDADPYQFWAQYSDR
ATFIDLJAPKRAIRIRIARESSKDLARTLHPEIENK
VSLFDKHTGEGVRRVSLDPVKMAAYPELKA WFFKKAKKDQ
VTVVKRGEWKGIRVYVDAEELFDRVLRREGEFKELEEFRRQ
LTMFEKFDGEGIRVYVDP PKLEPWP EIKSWFFKLLPKKEQ
ATFVDVKTQRQAVRRLAPQVLDLRRQVRRDARA HGERRWDAYHA
LIVYKPGKGA VRRPKPELLEDFRKYRKSGLIPASQVPRE
CTFVNMDDTKEAYRIRIYRKNR CYPPDGG
ATFVDTRTGRRAVRRVVPQTDLREVRARAR PPE QKR
VTLLEYKFGGKGIIRVYVDATKINAWPELNYFKLKEKKEQDR
VTLTARDGRGIRRLSVKPDYRNNDDEKEYRRRLFNKVVKER
ALLEYWPKKGDVAVRFLKNSQFKQDKLAKYRKQGLLEPT EIP
VSLFDKHTGEGVRRVHLLDSSKQLERFPAEIKAWFLKLPKREQ
LTFVNRREPTKNLRYLYLKDNLFLKVIAREKGTKKEQEKMK
LTLFDKKTGEGVRRVRLVDVDDKLDWPEVKS WFLKPKKPKKDDQ
ATFVNLDTTRGVAIRIYSTETSRNLAKKEYAPSEE RDLIRRQ
VSLYDKFTTGEVRRVFLDVIKMG PWQEIRNWF LKLLTKKEQ
MSFLDLKSGRAVRRVCLVTTSDRPPHHA PKQEQLIAFWEKYT
ATFLNLET HKAFRIVSTETARD LAVVYAPYELF EKSAQ
VTFARRDGNQAVRRLSTKGRIREH VDEEVQPEFFSPEEEKAF
YTFYKRGSEKALIRISLKPDAALPQFAKLRAGTASPEEEQAS
ATFVDRKTNKQALIRIAPSPDARSRAATFAPEARSRWE
LSIVRRNNFEGRLRLYMDSDKVKGYFPKRGLELFDKVVKQR
VSLFDKSTGKGVRRVAVVSDPKLEEPYVITREWLFKLLPKKEQ
FSFYRRLGDKVSVLVARPAAEEERTLRENPCRTAEQEAR
ATFVNLLETGQSFRLSTEE SRDLCDVYAPEIADKREQQ
ATFVDLTLRVAADDDVYVTRJAALES SRLEA RERFS EIEQK
ATFVNLLETGKAFRI VSTETAREL A PKLMPS EIEDS
LILYRPG RKAIRRVHVRNSFMDELS TYRKQGYE PSEIPAG
LTLFDKKTGKGVRRVHLLDTEKLENWPEIKAWFLKLLPKKEQ
LTFYDKYTGQGVRRVFLVDPVKLEEKWDEI IKGWLLKLPKKEQ
ATFVNLKDKLJAYRVRGLKPEVDMDEFFSLRKS GKEPSEIPDE
LTLYRKRDKGAVRRLVHVRDELMDEFFSLRKS GKEPSEIPDE
ATFVDTRTQRQAVRIRIHPHQRARLEARRYPHAKSRWHAY
FTLADRKNGGIRRLR VKEEGFRNR RDPE TEKLF EKEKEEK
VSLFDKHTGEGVRRVSVVDPAKLDAFPEIRGWFLKKEPKK
LTLYDKFEGTGVRRVFLDPAKLPWQELWFYKLLPKAEQDT
MSFLDLKTKGKAVRRLSVITSDRPPHHA DKA AQLAFWE
ATLISRRA PRGAEVRNGKRTVLDPAKTASYPRLHWSQMKV
VTFVAVRRGDRDGTGAVRRLVRLPDRFREKVAEAPPELMEKVIKDR
ATFVDLTLRVAADDDVYVTRJAALES SRLEA RERFS EIEQK
MSLTYDKHTGEGVRRVSLDHLKIPKMKKEPKGEQDS EKLRE
VTFYNDMDETEGALRVS DADANKPQDQCEKTE
VTFATR NGKGFRI RGRNDLRQTIGRLEFETLFDLVIK

UniRef90_F2NC28 MWE A I R R E L K T P L E E Q F V I Q S L T L P E
UniRef90_O58945 T P E E K R K L S K L W E E E T F E V K K V K V L P E
UniRef90_A7IAW2 I T V L S C I P E E E I L K I E Q V R L A I P R
UniRef90_Q12WU4 A T E E L T E L L D I P D E D L F T V T N V E T E P P E
UniRef90_C1F851 N Q Q Q M R A Y R E L P D A D L F A E A W V S V T V E P
UniRef90_G2FN58 I T D P V D G V M N R A E E E F L A I S P V D Y H F E K
UniRef90_N9YMI8 F Q V T E A K I Q L P E
UniRef90_H6LBZ7 L L N E P D K L F D F E K P H F T L P E K V
UniRef90_E1JRN7 A I R C A K R I L E S D P E T F F T
UniRef90_K2RFD3 E L E T V A E I I S M S E E E L L S L E N V H L E I P E
UniRef90_E0STT4 L W E E I
UniRef90_Q1IUE2 N A Q Q M L A Y R E L S D E E D L F T M Q W V S V E V
UniRef90_E6QMN5 L E A Y Q R I P N E E L F R Q R E V T L T L D
UniRef90_K1YBD9 Y V R Q L E A Y K I M A E D E L F R I E H V S V A I P P
UniRef90_D9QVR4 I N Q L W N E I T R K P V D E L F N I E E V N A E L S E
UniRef90_Q8KBR7 V V E P V E K V M N A P D D M L L N I G D V
UniRef90_S7VIZ1 D S D R L R E E M R L A G E S I L S V A E V Q L K
UniRef90_F6CH67 Q E N L M K Y I L E G P V E E I F E M Q V V N L E
UniRef90_D3S716 E N Q L I E K V L T S D D E L F N I S W I D I K P P K
UniRef90_F8A9H5 I A E A V N K V L T M P E E E L F N I S D V
UniRef90_E8RGN9 Y Q R Q L E A Y K V M P L E E L F F F Q E V S V Q L
UniRef90_E6PYP2 L A Y R E L A D E E L F R E Q W V R V E L P P
UniRef90_I0ANH5 V V D P I N K V M N A P E E M L V N I S E V D Y K L E P
UniRef90_B8IZH4 L M D P L E T M F S A S A P A Y E A P E R
UniRef90_UPI000475BB54 Y Q A Y L G A Y Q T W P D A E L F D V Q P V T L T L D
UniRef90_F6D849 D A V K K L A T M P
UniRef90_R5AUF9 Y Q A Q K P A D L F D V K P A T I P L P E
UniRef90_J7IS90 T I E A I K V I L G A E E A L F C E I K H
UniRef90_Q0AWE2 D M D L V S F W S I A D E D L F R T E E V T V K L
UniRef90_S5ZVK1 L H E A F E K L L N L S E D F F K I
UniRef90_F0JJV2 M R A Y R E L S D D D L F S V E Q V E V T L P P
UniRef90_I3ZCP6 E M I H R F R V T P E E L F N V E K V K V E L T P P
UniRef90_A5UN23 E N K I I D K V L K T P E K E L L N L E W I D I N P P K
UniRef90_C9RG64 H T D E Y V M M P A K E L F N V V E V S V S L K P
UniRef90_E1YL91 N H E G S L K M L E I P F D E M F D L Q E V K L K I P
UniRef90_UPI00029A37DD V M E V I N L L L E S P M E E V L L V G K V E
UniRef90_B5YHS1 E G T E E V V N I P A E D I F K
UniRef90_M1PVB0 E W F A A R S D E D L F K V E Q V
UniRef90_R7CFY8 V A E T I E F V L N T P E E E A F I I Q R L P
UniRef90_UPI0003682DCD
UniRef90_U6E9K0 S D E D L F S V Q E V
UniRef90_R6HIC3 H R Q Q L E A Y K T M A C E D L F D I L A V K V D V D
UniRef90_UPI00040F4B2D L A Y R E M S D S D L F T E Q W V
UniRef90_UPI00047A8347 D S V K L H A E I R K A G A A F C S I E S I
UniRef90_L0RD26 I K E A G P D I L T A
UniRef90_B8DS22 H D E V I L D I L N A G E D A Y S Y E F V D
UniRef90_H1L1M9 Q M E L V D L V W N A P E S D V L S I G E V F Q F E R
UniRef90_S6AE29 E L F K I E H V
UniRef90_UPI0003724B2E N Q Q Q M L A Y R E L S D A D L F T E E W V R V T L P P
UniRef90_UPI0003675D01 D I D L L E S E I E A A G D S L C K V E P I T V K
UniRef90_UPI0003B3548E L W E D I R E L A G V P E E D F W I K E V N V K
UniRef90_NOBBS2 N F E L L L K Q I S D A G A D F C S L A K V Q M K P E
UniRef90_B8FMK0 A Y R T L P D E A L F S V
UniRef90_A0A016QMK5 V S E V I N Y V L S K D F E E L F Y Y E F L K
UniRef90_H2C162 D I A E F F A D L K D E D L F T V Q R V
UniRef90_W2VEI3 Y Q A Y L D A Y R S W P D A R L L A A R E V T L N F D
UniRef90_F0RN83 L M S E I K E
UniRef90_D8FFG6 I R D L I D I V L S A T D E E L F S V
UniRef90_X1UFC6 D T E R L Q Q E I R E A A F
UniRef90_I0ANH8 L W Q E I A E I T E V E T E K F F K I E E
UniRef90_A1VH88 M A E S A M D M L S L
UniRef90_M5ECY4 Q L E G Y K R M P D D L L F E V Q R V G V N L P E
UniRef90_UPI0003A120D2 D S E R L K E I R E A G P D E L R N V K L K P G F L E K
UniRef90_S7V597 D D D I F S W Q E V H I D L P E
UniRef90_Q2LQ23 Q L A A Y K R M P D D V L F R V Q R V
UniRef90_B8J0Y3 R E K G R Q A A F A L P F D T Y F K A A S V K A V L P P
UniRef90_S0FSY6 H D A K S Q R I L E M P E E E L F R V S E V N I E P P E
UniRef90_UPI00035CF1A9
UniRef90_Q8PWI2
UniRef90_I0I9U9 N Q E E I K E M S A L W E E T G Y K M L E I D N S I F D I
UniRef90_W0JET9 D S D R L R Q E I R L A G A S I C S V K E I K
UniRef90_C7LUC4 L G E
UniRef90_E3CWP7 L T A Y Q R M P E S V L F R V Q S V
UniRef90_S0FZ86 N V I Q M T A Y R E L S D A E L F S V E W V E V P L P
UniRef90_E8UXF2 R F A Q L E A Y K I M N D S D L F T V S R V K V N V P
UniRef90_I5AZW5 A I D P V E W I S S L E D E I F E Y R E I D G
UniRef90_Q9HJ63 D T D K L F A E I C E A G P S L C S I T P V
UniRef90_C6BWW7 D F E R L
UniRef90_D6STP5 D M K D R V L T L A D E E L L F W N R V R V S L K K
UniRef90_A1AP10 F I D P I D W M P S L S D E Q M F E Y K F I K
UniRef90_Q97AY5 L D A Y R I M P D E V L L E A R R V E L T L D
UniRef90_A7NL86 L L R E R E E A F D L P M E E L F Q I K K
UniRef90_M1QA18 D Q D E V R L L S E I E E D G I C K A E P V T M K
UniRef90_E5Y2R6 P L L R E Q I R I A G S D L F S S E P V
UniRef90_C0QGJ3
UniRef90_UPI0003B44002 H E E A I S D L I R A E E A V Y T W G M V D L E V
UniRef90_G7WNG1 A R E A A F A L I E L P F E E L F A I E T V
UniRef90_G7WKY8 I G G Y G A D L L S I P K P K L I K R S K G K V T P
UniRef90_A9WAQ4 E M V K R F R E T P P E E L F N V E K V
UniRef90_UPI00037700C0 N D N P E K Q K L F N E E S
UniRef90_R9SHY1
UniRef90_UPI0002F2DC9A

UniRef90_R7LCY5
UniRef90_UPI0003B74C71
UniRef90_UPI0003B3FCBE
UniRef90_K4LBX3
UniRef90_UPI00035E7403
UniRef90_Q01SS0
UniRef90_Q2FNW4
UniRef90_F6D5Z7
UniRef90_F6CR76
UniRef90_E1RG34
UniRef90_E1K072
UniRef90_F0JGC5
UniRef90_A5UU82
UniRef90_F2NH79
UniRef90_F0T766
UniRef90_E1YCJ3
UniRef90_E3CXS5
UniRef90_J4ULP7
UniRef90_C7LSE1
UniRef90_E6VWY5
UniRef90_R5D519
UniRef90_Q649J6
UniRef90_G1WL19
UniRef90_V4JUU1
UniRef90_T2GDY9
UniRef90_Q2LX46
UniRef90_G7Q8L2
UniRef90_E4RKA7
UniRef90_Q3A875
UniRef90_F0NP74
UniRef90_K0NQV7
UniRef90_UPI00037FDD57
UniRef90_M1WY95
UniRef90_K6GPP8
UniRef90_UPI0003B5A343
UniRef90_B6WSJ1
UniRef90_Q315B0
UniRef90_UPI0003B76293
UniRef90_F8ANJ3
UniRef90_F3YYZ9
UniRef90_O30060
UniRef90_A0LE83
UniRef90_K0NL66
UniRef90_F4BYU0
UniRef90_A8ZST7
UniRef90_UPI00047E8289
UniRef90_UPI0003B48CF7
UniRef90_I7LKM4
UniRef90_G7WNV4
UniRef90_D5XEM9
UniRef90_F2LUR7
UniRef90_UPI0003B55380
UniRef90_W1USZ5
UniRef90_Q0W421
UniRef90_D3PC50
UniRef90_F6D846
UniRef90_Q48940
UniRef90_F0T784
UniRef90_A6UT52
UniRef90_R5PLG1
UniRef90_C8X1U1
UniRef90_S0FSW2
UniRef90_W0JD54
UniRef90_A3CUC9
UniRef90_Q2FRC8
UniRef90_U6EB50
UniRef90_H5SQU4
UniRef90_L0HCH5
UniRef90_Q8PVM0
UniRef90_B8GJ11
UniRef90_D5E6I2
UniRef90_A0B790
UniRef90_I6UPH5
UniRef90_Q1Z236
UniRef90_E3GW14
UniRef90_A717W6
UniRef90_D7DTD9
UniRef90_R5VHS1
UniRef90_H8I6N9
UniRef90_X1DXV3
UniRef90_A6VJG1
UniRef90_U7D9A3
UniRef90_F8C5L0
UniRef90_D1JCT2
UniRef90_Q6MOR9
UniRef90_D9PXE5
UniRef90_Q2FM92
UniRef90_UPI0003B45EA1
UniRef90_M1QAS8
UniRef90_D1YX11
UniRef90_E1QE00
UniRef90_A6UST1

1 10 20 30 40

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

UniRef90_R7LCY5
UniRef90_UPI0003B74C71
UniRef90_UPI0003B3FCBE
UniRef90_K4LBX3
UniRef90_UPI00035E7403
UniRef90_Q01SS0
UniRef90_Q2FNW4
UniRef90_F6D5Z7
UniRef90_F6CR76
UniRef90_E1RG34
UniRef90_E1K072
UniRef90_F0JGC5
UniRef90_A5UU82
UniRef90_F2NH79
UniRef90_F0T766
UniRef90_E1YCJ3
UniRef90_E3CXS5
UniRef90_J4ULP7
UniRef90_C7LSE1
UniRef90_E6VWY5
UniRef90_R5D519
UniRef90_Q649J6
UniRef90_G1WL19
UniRef90_V4JUU1
UniRef90_T2GDY9
UniRef90_Q2LX46
UniRef90_G7Q8L2
UniRef90_E4RKA7
UniRef90_Q3A875
UniRef90_F0NP74
UniRef90_K0NQV7
UniRef90_UPI00037FDD57
UniRef90_M1WY95
UniRef90_K6GPP8
UniRef90_UPI0003B5A343
UniRef90_B6WSJ1
UniRef90_Q315B0
UniRef90_UPI0003B76293
UniRef90_F8ANZ9
UniRef90_F3YYJ3
UniRef90_O30060
UniRef90_A0LE83
UniRef90_K0NL66
UniRef90_F4BYU0
UniRef90_A8ZST7
UniRef90_UPI00047E8289
UniRef90_UPI0003B48CF7
UniRef90_I7LKM4
UniRef90_G7WNV4
UniRef90_D5XEM9
UniRef90_F2LUR7
UniRef90_UPI0003B55380
UniRef90_W1USZ5
UniRef90_Q0W421
UniRef90_D3PC50
UniRef90_F6D846
UniRef90_Q48940
UniRef90_F0T784
UniRef90_A6UT52
UniRef90_R5PLG1
UniRef90_C8X1U1
UniRef90_S0FSW2
UniRef90_W0JD54
UniRef90_A3CUC9
UniRef90_Q2FRC8
UniRef90_U6EB50
UniRef90_H5SQU4
UniRef90_L0HCH5
UniRef90_Q8PWMO
UniRef90_B8GJ11
UniRef90_D5E6I2
UniRef90_A0B790
UniRef90_I6UPH5
UniRef90_Q12Z36
UniRef90_E3GW14
UniRef90_A717W6
UniRef90_D7DTD9
UniRef90_R5VHS1
UniRef90_H8I6N9
UniRef90_X1DXV3
UniRef90_A6VJG1
UniRef90_U7D9A3
UniRef90_F8C5L0
UniRef90_D1JCT2
UniRef90_Q6MOR9
UniRef90_D9PXE5
UniRef90_Q2FM92
UniRef90_UPI0003B45EA1
UniRef90_M1QAS8
UniRef90_D1YX11
UniRef90_E1QE0
UniRef90_A6UST1

50 60 70 80
S E K I V C L A E N D S G C S V D A V I Q S V A L S G C T L L G S G T L T I K N C G K Q A
D K R V L V F V E I N D S G C S F A D D A G V I Q S V A L S G C T L L G S G T L T I K N C G K Q A
I K K L L V F V E I N D S G C S F A D D A G V I Q S V A L S G C T L L G S G T L T I K N C G K Q A
N K D F L V F V E I A D R R C C C A A D A V S Y A V T T R C C A K S L L G R R R R L K F V D D N G K I M A
E R K R L V T F V E I D R A C C C M T F A D D A V Q L L T T G C C S T L G G N S W M R V V N L G R Y A
UniRef90_Q01SS0 M E N L L A I F V E I V N A C C C F A D D A G V I Q S V A L S G C T L L G G N S A L K F R D F F G K A A
UniRef90_Q2FNW4 D K R L I V F T E I D R C C C I S D A I L S V T T R T S T L G G K K S L K P M G Y G K F A
UniRef90_F6D5Z7 A K D F F V L A E N M T S A I F A D D A G I Q Q A V S T G C C T I L G G N S N F F A Y D L G K H V
UniRef90_F6CR76 M E D L L A I A E V N A C C C F A D D A G I Q Q A V S T G C C T I L G G N S N F F A Y D L G K H A
UniRef90_E1RG34 R K N L I V F V E I D R C C C I S D A I M A L T T G C C R T P G K N R T M K V L D Y G K M A
UniRef90_E1K072 E R K R L Y T F V E T D G C C F A D D A G V I Q S V A L S G C T L L G G R R T M R L I D H G K V A
UniRef90_F0JGC5 D K R L I V Y T E I D S R C C C I S D A I M S V T T Q T S T L G G K K S L K P M G Y G K F A
UniRef90_A5UU82 N D K L I C E T T R K C C C L T D A I Q Q L L T P C C T I V G N H W L S K V V D T G R F A
UniRef90_F2NH79 D K N L K V Y V E T D R K C C C L P D S D A I M Q L V T T G C C K V I G N K R R F V L L D Y G K T A
UniRef90_F0T766 E E E A M V V E S G K C C C L P D A V Q L L T V C C S I L G G N N W M K I K L L G R Y A
UniRef90_E1YCJ3 G S G V I S C V A E T D K C C C P V D A V R V I F G C C S E F G N N A L S F D L T G E M A
UniRef90_E3CXS5 M E E V I A L I E T T N C C C F S D G V Q M V T T G C C S T E F G N N A L S F R D F F G K T A
UniRef90_J4ULP7 Y R D L I A F V E I C D R C C C L A D A V V S V A H C C H L G K R R L K W Y D Y G I M S
UniRef90_C7LSE1 E D A V S E T T P K C C C L P D A V Q L L T Q C C C S T F F G N A R L R T V N L G R Y A
UniRef90_E6VWY5 R K K L M V F V E I D R C C C A T D A V I M A L T T G C C R Y P G K N R T M K V L D Y G K M A
UniRef90_R5D519 D M E K L L A V V E T N S C C C F S D G I Q Q V V S G A T F A N N A L I Y R D L G K T A
UniRef90_Q649J6 D E N L I A I V E N N R C C C F T D A G V I Q M I V G T T L G G N N T L F R D S G K Q S
UniRef90_G1WL19 E K K L I V Y V E M D R C C C A T D A I S F V T T G V R L G R R S L K F V D N G I M A
UniRef90_V4JUU1 G K R L V T F I E I D R C C C A T D A I A V V T T G C C R L L G K R A I K F R D W G K M A
UniRef90_T2GDY9 D D A V S E T T W C C C L P D A I Q L L T P C C T L G G N G W M R V I N L G R Y A
UniRef90_Q2LX46 D K E V I I F V H A G G C C C F A D D A G V Q F A T G C C T F G G K G I M R K E P K G K W S
UniRef90_G7Q8L2 D E A V S E T T V Q C C C L P D A I Q L L T P C C C T V I G N G W M K V Y H F G I Y A
UniRef90_E4RKA7 R K R L V T F V E I D R C C C A T D A I G V V T T G C C C R L G K R A L K V R D W G K M A
UniRef90_Q3A875 G E R L Y A T C E T Y N C C C L P D A F Q L L G R C C C T A G N K R L K I K D T G K M A
UniRef90_F0NP74 D K G L V G I A E T A S C C C L P D A I Q V V A G T T P G N R N L I V K D Y G K L A
UniRef90_K0NQV7 I K K L I V Y V L E M D R C C C A G D A V A H V T T G V K L G R R S L K F M N Y G I M A
UniRef90_UPI00037FDD57 D E D L M A V L E T N A C C C F A D D A G V Q A V S G C C T L G G N N A L V Y R D L G R L A
UniRef90_M1WY95 D R K R L V T F V E I D R C C C A T D A I A V V T T G C C R L V G K R A L K F R D W G K M A
UniRef90_K6GPP8 E E K L Y A V C E T T K C C C L P D A I Q L L T A H C C T L G G N S W M K V V N L G R Y A
UniRef90_UPI0003B5A343 G E K L Y A V C E T T K C C C L P D A I Q Q M I A H C C T L G G N R L R V F P G K F A
UniRef90_B6WSJ1 M E A A V K T V P S L C C C L D G I Q Q V S A G C C T L G G N G N I S V E P P G I A E
UniRef90_Q315B0 S L N F I A G A A N S T S A V D A I Q Y M T G C C T I G K Q S F F I E D T G K H V
UniRef90_UPI0003B76293 D K E V V V V H A G G C C C F A D D A G V Q F A T G C C C S T F G G K G I M S K D P R G K W S
UniRef90_F8ANZ9 E D E V I C I S E N K T C C C P V D A V R F I F G C C S T E D N Q K L E I R P S D N L A
UniRef90_F3YYJ3 E K L Y A V S E T T P K C C C L P D A P L V Q V L L G C C T M G N H R L R L I N T G R Y A
UniRef90_O30060 N M D K F V I H A A G C C C F A D D A G V I Q Q F A T G C C T F G G K G I M K K E A K G K W T
UniRef90_A0LE83 G E R I F V T C E T Q N C C C L P D P F Q I L R G C C T I G N K G L H I V D H G K M A
UniRef90_K0NL66 G E R I Y V T C C E T K S C C C M P D P F Q I L A G A T I G N N G L K I M N F Y G K M A
UniRef90_F4BYU0 D E K I Y V T C E T L N C C C P D P F Q I L R S S T I G N K G L K V L D Y D K M A
UniRef90_A8ZST7 G D I I Y A T S E T Y A C C C L P D A F Q A L G K C C T I G N G K L K V N N T G K M A
UniRef90_UPI00047E8289 P G D Y T L T A E M Q N C C C P V D G I L F V T G C C T P G T R R Y L Q G G P P E N M C
UniRef90_UPI0003B48CF7 E A L V V V A E T I N C C C L P D A V Q L L T P C C S V G N G W M R V V N L G R Y A
UniRef90_I7LKM4 N M D K F V I L E S G G C C F A D D A G V Q F S T G A T F G G K G L M K K D P K G K F A
UniRef90_G7WNV4 G E K I Y A V C E T T K C C C L P D A L Q V I A H C C T T G N H R L R L R V I P I G K F A
UniRef90_D5XEM9 E K L Y A V C C E T T K A P D P L Q Q V I A H C C T T G N H R L R L T V I P I G R F A
UniRef90_F2LUR7 G D R I F V T C E T L N C C C L P D P F Q I L H C C T I G N K G I K I L D Y D K M A
UniRef90_UPI0003B55380 Y T G L T V T V E T G S C C C L I D G L Q I A T G C C T I G N K G I S V L G G R P
UniRef90_W1USZ5 D K K L Y G V C E T P K C C C L P D A L Q V M A R C T I G N N R L K V V P I G K F A
UniRef90_Q0W421 G E R I Y V T C C E T K S C C C L P D P F Q I L A G A T I G N N G L K I N N L G K M A
UniRef90_D3PC50 U N I F A V S E T P K C C C L P D A L Q V I A H C C T I G N N R L R I V R A G R F A
UniRef90_F6D846 G E R L Y T L S E T Y N C C C I P D P F Q I L E G S T T G N K R L R V H D T G K M A
UniRef90_Q48940 D I S A V V R S P V S C C C L A D G I Q I S T G C C T L G G N S I S V L Q D D G V P E
UniRef90_F0T784 D E R I L A I V E T N S C C C F A D D A G V I Q I T T G C C T L G G N S L V Y L D T G K T A
UniRef90_A6UT52 G E R I Y V T A E T S N C C C V P D P F Q L L E G A T I G N K G M K I K D Y G K M A
UniRef90_R5PLG1 D E D I Y V T C E T K S C C C L P D A F Q A I C K A S T I G N G K L S I Y D T G K M A
UniRef90_C8X1U1 D D K L F A V S E T P K C C C L P D A A Q V I A H A T T G N G R L R V V P I G R F A
UniRef90_S0FSW2 G E A I Y I T C E C K N C C C M P D P F Q I L G G S T I G N N K L K I N D I G K M A
UniRef90_W0JD54 S K R Y I L T V I E M Q N C C C L V D A L L F V T G C C T P G T H R F Q E R D P A R F M S
UniRef90_A3CUC9 R L Y A V S E S P K C C C L P D A V Q V I H C C T Y G N H R L R R V I D T G R F S
UniRef90_Q2FRC8 D L D C V V M A P P D S C C C V I D G I Q S S T G C C T M G K R N I K V V E E R G V A
UniRef90_U6EB50 K D R I Y V V S E T Y N C C C L P D A F Q L L G G A T T G N K G L R I E D H G K M A
UniRef90_H5SQU4 L E N I L A I E T N S C C C F A D D A G V Q Y A A G C C S I G N N G L V I R D F G K T A
UniRef90_L0HCH5 D K D L I A V S K N G P C C C W V D A V S Y L T G A R I N F K T L R I D N S I G D G
UniRef90_Q8PWMO D M S V L V T P I C C C L P D D G L Q V S T G C C T L G G K N I K V I T N K K P M
UniRef90_B8GJ11 R V Y A N C E T T R N C C C L P D A F Q V L G N C C T I G N K R L S I K D Y D I M A
UniRef90_D5E6I2 D E E I Y V T C E T T N C C C L P D A F Q A I C K S T I G N G R L S I L D T G K M A
UniRef90_A0B790 M K S L Y C G T P Q S C C C L A D G V Q L G S G C C T L G G N I E I V K S D
UniRef90_I6UPH5 G E R Y T V I A C P V W C C C K E D A F Q V V L D C C T P G K R G L I V K P L S K Q A
UniRef90_Q12Z36 D K K A T A K T E T P S C C C I I D G I Q F A S G C C T L G K G N V S I E Q E K K P E
UniRef90_E3GW14 M S A V V Y C A P P Q S C C C L A D G V Q A A G S G C C T L G K R N I E L V S D E I L R
UniRef90_A717W6 I K N I V G F V E I R C C C L A D A V A A A T G L R F G R S L K M I N L G L L A
UniRef90_D7DTD9 N D R I Y V V S E T Y N C C C L P D A F Q I L G N A S I G N K G L R I D D N G K M A

UniRef90_R7LCY5 F N F F D R E S G K S V R I Y F C A D V I E E P R S S R A 110 120
UniRef90_UPI0003B74C71 A T F V D L K E S T G R A V R I M P R T D L R A R V R A G R G E
UniRef90_UPI0003B3FCBE A T F V D L K E S T G R A V R I V S R E E A R E L A L V L A P E I P D K
UniRef90_K4LBX3 A S F V D L E S S N K G F R I V V N T K R R A P E G A
UniRef90_UPI00035E7403 L S M F D K Y T G E G V R V V Y L D T E K I E Q W P D I A D W F L K R T A K A D Q
UniRef90_Q01SS0 A T F C D L R E K E K R A V R I A A R E S S K Q R A R E L Y P E I A D R K
UniRef90_Q2FNW4 V T F V S R N E K G E G V R I R L L P D F M D K V I M K R K G T Q E E E K L R E K
UniRef90_F6D5Z7 A T F V N I D T G E A I R V V A L I N E I E K R I V A G R A S A A D L E E E D E T
UniRef90_F6CR76 Y Y F G S F P A G E A L R I V A L I N E I E K R I V A G R A S A A D L E E E Y Q Q A
UniRef90_E1RG34 V T F A V R R G K E E G L R I V R V R P E F M D Y I L I K E V P E F Y P L M E K R Q K
UniRef90_E1K072 A T F V N L R T G A A V R V V T E R E D G P D K D A A P A
UniRef90_F0JGC5 V S L Y D K F T G K G F R V I A D D Q E K L K L W P E I H D W F M K E K P K A E Q
UniRef90_A5UU82 A T F V D T R T R R A V R I R P H P Q A R T E A R H Y A P G A K S R W H A
UniRef90_F2NH79 L S L Y D K Y C G E G W R V Y V D P E K L S D W P E I K F L K L K P K K E Q D R
UniRef90_F0T766 A T F V N I E T E G K A L R L V D R E A N N K D E R A D D E T
UniRef90_E1YCJ3 L S L Y D K H E T G K G V R V I V L D P V K M E Y Y P E I K K L K L K T E Q D K D L
UniRef90_E3CXS5 A V F Y D K R T G K G V R I S L S T E K L K N F P V I H D W F F K L T P K K D Q
UniRef90_J4ULP7 C T F V N M D N T G E A Y R I S Y R K N R L E P P D G G D I A E F F A D L K N E D
UniRef90_C7LSE1 V S L F D K Y T G E G V R V I S V D L D K L G N W P E I E G W F L K L V P K K D Q
UniRef90_E6VWY5 V S L Y D K Y T G Q G F R V I A I D Q D K L E A W P E I K F M K L T P K A E Q D K
UniRef90_R5D519 L T F T A P G G K S V R I L A E L N A E K F T L F H E A P T E D M F K
UniRef90_Q649J6 V T V A K R D G T A I R I S Q R Q D V D R D K I V A K R E E P T P E E H E R
UniRef90_G1WL19 A S F Y D I A S G K A I R I S Q R Q D V
UniRef90_V4JJU1 V T L Y D K L S G E G V R V Y L D P A K L D S Y P E I K A W Y L R T K P K K D R
UniRef90_T2GDY9 V S L Y D K Y T G G E G W R V Y L D A E K L P H M H S W L F K T K P K R E Q D D A
UniRef90_Q2LX46 A T F V N L E T E K A V R V V A I N R K K E E G D N P D F G T L S
UniRef90_G7Q8L2 L S L Y D K F T G G E Y R V W L D P A H L Q A W P E I H A W Y L F T K P K K E Q
UniRef90_E4RKA7 V T F V S R E G N L R Y Y L K N D P A H L Q A W P E I H A W Y L F T K P K K E Q
UniRef90_Q3A875 A T F V N L K T D V A W R L H S R G E G D Q L P K D
UniRef90_F0NP74 V T V I D R D T R R A V R V T L D P K F A K Y F K R E K F D E N E L R E F R E L
UniRef90_K0NQV7 A T F L N I E T K R A F R I V S T E N A R H L A E K Y A P E I T D K R E F R E Q L
UniRef90_UPI00037FDD57 A T F V D R K D G K A I R I A A L E S S K Q R A R D L Y P Q S E A L R H E
UniRef90_M1WY95 L S L F D K H S G E G V R V R L D P E K L E D A M K T K P K N Q Q D S E A L R H E
UniRef90_K6GPP8 L S L Y D K F T G K G Y R A W I D P E K H L E N W P E I H F L K L K P K K E Q N R
UniRef90_UPI0003B5A343 Y L L I D R K S Q K A V K V T V K P E I M K A I K D Y R L K G I P P A E V D Q E
UniRef90_B6WSJ1 L S L Y D K Y T G E G T R V R L N V A E L D A Y P H V R A K E K P K R E Q E P E
UniRef90_Q315B0 V S L Y D K Y T G E G T R V Y V D A A K L K A W P E A W F M K L R P K A E Q D Q
UniRef90_UPI0003B76293 A T F I D L G A Q K G I R I A A L E S S K Q R A R E L Y P Q I E D K
UniRef90_F8ANZ9 V I V N K M G K E G E T I K G V R I L L D D K K T V N Y P A L H A W Y M N T K
UniRef90_F3YYJ3 L S L F N K F T G E G V R V I G L D V D K L G G Y D E I R S W Y L K L K S K R E Q
UniRef90_O30060 L A I V R F D T R E G Y R V T I K K E A A K K S E L I K K G K L N K E E E K
UniRef90_A0LE83 L S L Y D K S T G S G V R I E V D A A K I R A W P E A E A W K L K P K A A Q D T
UniRef90_K0NL66 A T F L N I E T Q K A F R I I S T E E S R D L A Q F Y A P A I E G K
UniRef90_F4BYU0 V T F A I R G K E T G V R I R V Q P D F S S S V A K A S P E P L M E K V I K N R
UniRef90_A8ZST7 L T L Y D R H T F A G F R V V L D L N K A K A M G L V S K K D L P K E L T P A
UniRef90_UPI00047E8289 A T F V D L N T D E T P A Y K G I R I A A L E S S K Q R A R E L Y P H I E N K
UniRef90_UPI0003B48CF7 L S L Y D K Y T G E G H R V F V D T A L L E D W P E I K F L K L K P K K E Q D R
UniRef90_I7LKM4 I T M N R P A E T D G I T V F V D G E K I G R Y P T F A Y T K D S F L F D P R T R
UniRef90_G7WNV4 A E F S A S G R R V T R R A R A E V V G E I K S W R E R Y A S
UniRef90_D5XEM9 Y F F L H P V N G R G L I I K M K P Q L L N Y E M T K D V Q A Q L Q D P A K
UniRef90_F2LUR7 Y M L I D K K N K K A V K V T V K P E I M Q A I T K F R I K G I P A E V D Q D
UniRef90_UPI0003B55380 L A L Y N K N T G V G V R V S I D P A K L F A Y P E I R S K E K P K H
UniRef90_W1USZ5 F S F F N K V N G E K L K V Q L R E L N K D K K M D K N E M N Y
UniRef90_Q0W421 I T V N R F S E G T G V R V Y V D P E K V R K Y P T L Y R W Y T N D P S Y K G G
UniRef90_D3PC50 F T L V D K V N E K A V K V K I K P E L L K K I T E Y R I K G V R P T D V P A E
UniRef90_F6D846 A T I N K S A E N G E K T I K A V R I V L D P E K T I N Y P V F H A W E R K V S
UniRef90_Q48940 V T V N K Q A P E G A N S I K G I R I L L D P E K T K D Y P K L H A W
UniRef90_F0T784 V T V N K Q A G K G A N S I K G I R I Y F N A K T E K Y P L H H D W Y K K V R
UniRef90_A6UT52 I T V N M K Q K E E G E N T K G V R I I L D P T K T I N Y P R L H A W Y M N L E
UniRef90_R5PLG1 F Y L K N K A G K G W V S F K P N N R E Y M S E H L P A N L S I E I K G F A
UniRef90_C8X1U1 L S L Y D K Y T G A G W R V I V L D S D N K L D H W P H M Q S W L I K S T P K K D Q
UniRef90_S0FSW2 I T A Y D R T T F N G I R A W L V A E A I P D W P A V H Q K G M P P E E L A E S
UniRef90_W0JD54 F L L D K L T K K A V H V R I K N E V I K N I T E F R K K G I K P S D I P S E
UniRef90_A3CUC9 I T M N G P A D S N G I R V F V D G D K I E R Y P T F A L W Y T K D P
UniRef90_Q2FRC8 L T M N R P S S D D G F R V K V D V G K L D G T P T L K A S D F D G M T M K K K
UniRef90_U6EB50 I T I N K G A E P G Q D L V K G V R I F L W P A K T V K Y P L F H A W E K K V A
UniRef90_H5SQU4 A L V R S K D Q S V V V E L R P E W P E K F A Q M D G A V
UniRef90_L0HCH5 I T L N D K E A T D A V R V Y L D L Q K V K K Y P T L D
UniRef90_Q8PWMO V T V N K Q A P E G M K F I G I R I Y L D P E K T K D Y P K L H A W T E K L H
UniRef90_B8GJ11 F T V N R A S E E R G F R I F V D Q E K L K T W P T L D K K T M T D R L F E E
UniRef90_D5E6I2 V T V N K Q A P S G I A S L K G V R I Y L D P E K T K N Y P K L H A W T K K L R
UniRef90_A0B790 A T F S S N G R T V S F R V R G S A E K S K L S H D E L E D
UniRef90_I6UPH5 L T L V K R G S N G E T V R V Y I D A E K L R S Y P P N A V E L F N K V V K E R
UniRef90_Q12Z36 V T V N K R G P G E A V R I Y L D A E K T E A Y P R L H A E K V R H E E I L P I
UniRef90_E3GW14 V T L N K K G T V K G V R I I L D P N K T R D Y P I I H K W Y F N T E K V P A E
UniRef90_A717W6 I T M N R V S T G E G F R V Y V D M E K I K Q F P I I D A W F S N S P V F S K H
UniRef90_D7DTD9 A T F N R F G V V G D N I K G L R I I L D A N K M Q D Y P K I Y N W Y M N I E
UniRef90_R5VHS1 F S L K N R E G R G W E V H L K D S N R A W I A K Q V P A S F S V A E K G F A
UniRef90_H8I6N9 I A L N R F S E G S G V R V F I D A K K V A A Y P T L Y A G G A D G K A L L E E
UniRef90_X1DXV3 A E F T H K G N A I K I A V R E D V L Q M V S I V F E G D D K A
UniRef90_A6VJG1 A R I N P W A P A G D N I K G V R V I L D P V K T V N Y P L L H A W Y M K I S
UniRef90_U7D9A3 V T F L V R D K Q E A V R V S S R P E F S N L F Q E V I V Q S N R T P E K V A E
UniRef90_F8C5L0 F I I Q R I S T G E T Y Q V H L K P G V F P E E K S V D P E D I D R L E K M A E
UniRef90_D1JCT2 A V F T R E G K T G A R I E L K S E I L R K I Q K S G A
UniRef90_Q6MOR9 V T V N K I E V G T G V R I V F D H K K A E K Y P A L
UniRef90_D9PXE5 V T I N R K G T V Q A L R I I L D P E K T V N Y P I I H E W Y M N T R K V S A E
UniRef90_Q2FM92 V V Y T E F S S D G V K I R L K P L A L K Q L P Q D T P D Y
UniRef90_UPI0003B45EA1 A T V V N P K S G K G V A L S F S F D R L K A L S S S D M P K A A T
UniRef90_M1QAS8 A T F H N Q N K K L E T K L K P N I H E K I K S A D E D Q L E E T A R E I
UniRef90_D1YXU1 C E F K S D G K K L V M R N K S I K F P P R D D H H Y N E L
UniRef90_E1QEU0 V S F L D L T D G R A V R V N R S Q S K E L A R D Y A P A G L T K P S A
UniRef90_A6UST1 A K V N A W D T I N G V R I I L D P E K T K K Y P I L H A W Y M N T E K I T H K

UniRef90_R7LCY5 DF L L S K S P G E L F T F S A P N F Q M P K
UniRef90_UPI0003B74C71 WD A Y M A A Y Q T W P D D D L L T V T P V
UniRef90_UPI0003B3FCBE R G R Q M E A Y K R M S I E E L E F D I E E V R V D V P K
UniRef90_K4LBX3 D M V A F W G S I P D E E L L K I E P I V V K L K K
UniRef90_UPI00035E7403 D T D L L F A K I K E A G P A Y T S V E K I
UniRef90_Q01SS0 N Q Q Q M R A Y R E L P A V E L F D H Q W V
UniRef90_Q2FNW4 A T E A A F A I I T Y P F E K L F A F E R V
UniRef90_F6D5Z7 V E E L T E R I A K T P A E D L F E I Q K V S V K I D K
UniRef90_F6CR76 I D D A V R E I L S I P D E S L F
UniRef90_E1RG34 G R E A A F V I I K K P F E D L F E A K T V
UniRef90_E1K072 L L A T I P D E A L F R L T P V A V P L R P
UniRef90_F0JGC5 D T E R L F R E I E E A G D T I C S I R P V
UniRef90_A5UU82 Y L E A Y R I M P D D V L L E A Q W V E L T L D
UniRef90_F2NH79 L M Q E I E A A G D S I C S L Q P I R M Q
UniRef90_F0T766 I E E L I E R I D G T P G E E L F D V Q R V S V K I D K
UniRef90_E1YCJ3 L L E Q I E E
UniRef90_E3CXS5 S L E A I
UniRef90_J4ULP7 L F V A K K V L V D I R P E D M
UniRef90_C7LSE1 D T E K L F R E I E T A G D T I L R L E R V T V Q
UniRef90_E6VWY5 L F A E I E A A G D T I C S V R P I
UniRef90_R5D5I9
UniRef90_Q649J6 L M Q L F A E M V E E P A D E M F I T K R L K M V V P E
UniRef90_G1WL19
UniRef90_V4JJU1 D S E K L Y V Q I R H A G D T H C T V Q P V
UniRef90_T2GDY9 L F A E I E A
UniRef90_Q2LX46 E E E L F S I T E V N V P L R P
UniRef90_G7Q8L2 D R T R L F A E I K A G G R A L C R V A K V
UniRef90_E4RKA7
UniRef90_Q3A875 E S M A W A L A A S D E E L L S W R S V T V D F
UniRef90_F0NP74 M T R A S L E L L S I P T E K L F K V E E W K G E L K Q V
UniRef90_K0NQV7 V I A Y K R M S L Q D L F S I E E V
UniRef90_UPI00037FDD57 N Q Q Q M L A Y R E L P N A D L F S E E W V
UniRef90_M1WY95 I R D H S L E M L S V E
UniRef90_K6GPP8
UniRef90_UPI0003B5A343 V L A I K A L F S K P F E E I V N I E
UniRef90_B6WSJ1 L L R E E L R T A
UniRef90_Q315B0 L F R E I E E A G E S V C S I Q A V
UniRef90_UPI0003B76293 N R Q Q M L A Y R E M T D A D L F A E Q W V
UniRef90_F8ANZ9 H D N V I L D I V N A G E S F L A V E V P Y K P K K
UniRef90_F3YYJ3 D S D K L R Q Q M R E A G E S V L T M Q A V K
UniRef90_O30060 R L A E E F L N L E P E Y F E V R E L R L T I P
UniRef90_A0LE83 L L R Q I K E
UniRef90_K0NL66 A A Q Q L A A Y K R M P D Y V L F R V Q E V
UniRef90_F4BYU0 E G G A R E K V I Q L P F D E L F A V E
UniRef90_A8ZST7 I F D A G R D L L S V K P A E F A K R E K
UniRef90_UPI00047E8289 N Q Q Q M L A Y R E L A D A D L F Q E Q W V R V P L
UniRef90_UPI0003B48CF7 L F A E I E A
UniRef90_I7LKM4 G T A L I D E I I D A G R D L L S Y E W V R V K V P R
UniRef90_G7WNV4 L E E A A R K I S K R S D E L F S W E R G P G
UniRef90_D5XEM9 L L I Q A I R K I L N W P D K R L F D V
UniRef90_F2LUR7 V A K A A F L G L F N K K F E E I V R V E G P F D
UniRef90_UPI0003B55380 A Q D I V E L E R Q I E E A S I C K V Q R V Q V D K V
UniRef90_W1USZ5 I L N A
UniRef90_Q0W421 V S N S I E E L L C A G R D I L S W E N V K V K F T P
UniRef90_D3PC50 V A T P A K R P F S L K L E D I V E I E P F D F K V P K
UniRef90_F6D846 H E D A I S E L I K A D G D
UniRef90_Q48940
UniRef90_F0T784 H E E V V P I L L E A G E D V Y S W E F V E I E V P E
UniRef90_A6UT52 R I E E I I P I L L I D A G D S V Y S Y E F V D I D V P
UniRef90_R5PLG1 T L Q L S P D E L F T I E E L D
UniRef90_C8X1U1 D T E A L Y R E I E A A G D T V C S
UniRef90_S0FSW2 F L A G R H E L V D T S E A L V L D
UniRef90_W0JD54 I F E M L K K P F N T P V G E L I E I K
UniRef90_A3CUC9 L F D P R T R G I D L I D E D L L S H E R V R V K V P Q
UniRef90_Q2FRC8 L V E E I L D I G T G M L S W E K V
UniRef90_U6EB50 H E D A I S E L I K A G D D E F V E V P V P V K A K K
UniRef90_H5SQU4 A A Q T I L R I P E E E L L T W R L L P
UniRef90_L0HCH5
UniRef90_Q8PVM0 H E E V V P V L L E A G D N V Y S W K T V D L E V P
UniRef90_B8GJ11 I L T A G Q Q I L S S E
UniRef90_D5E6I2 H E E V V P V L L E A G E N V Y S Y E M V D I D V P
UniRef90_A0B790
UniRef90_I6UPH5 T E E E L Q K Y G R K P G E N S F T Y Q K
UniRef90_Q1Z236 L L E A G E K I Y S Y T F T A I E V P V K K S K
UniRef90_E3GW14 K V I P E L I K A G A K I Y S W E Y K D V K V P K
UniRef90_A717W6 A Q N A L Q E Q I F I A G R Q L L S Y E K V
UniRef90_D7DTD9 K V P H T E A T F D L A G D S V Y S W E Y V D V E V P P
UniRef90_R5VHS1 V L Q L F D D L E E M T E
UniRef90_H8I6N9 I L R A G R S V L S W E Y V N V R F T P K E
UniRef90_X1DXV3 V K E F M D W L A R V D E K S L F N
UniRef90_A6VJG1 H K D A V A E L L N A G E D V Y S Y E F I
UniRef90_U7D9A3 F K A V S F D M L D T P F E E M F H L K
UniRef90_F8C5L0 D L I K K L L N T P P T E I L E I K K L E
UniRef90_D1JCT2 V E E S A G R I A K M T D E E L F N
UniRef90_Q6MOR9
UniRef90_D9PXE5 E V N P
UniRef90_Q2FM92 E L E I E K Y L Y S L P D D Q L F S V E
UniRef90_UPI0003B45EA1 V L A A L E Y L
UniRef90_M1QAS8 F K Q K P K D I L L E
UniRef90_D1YX11 I E D L A A D M Y R M D D T E L F T V
UniRef90_E1QEU0 V Q E A A Y R L M P D D V L F E A S W V R I D L E P
UniRef90_A6UST1 A A V T E L L K A G F E V Y S Y E F V E V

1 10 20 30 40

UniRef90_Q0W5K5 MDREY I E D L A A F H G H L G P Y I V L G Y R I G R Y A R E Y F C D D A F Q

UniRef90_UPI00035E4B50 MDKEY I E D L A A F H G H L G P Y I V L G Y R M G Q L A M E Y L R I E R E K

UniRef90_F4BXA4 MDKEY I E D L A A F H G H L G P Y I V L G Y R I G R Y A R K N L C S D P F Q

UniRef90_E8R494 MDKEY I E R V K A F H G G A G P W A V V G Y R I G M R A S R E L D L P R D F

UniRef90_A2STQ9 V D I P D F D S V A K A H G H I C P G I A L G Y K M A V I A A E W A G S E T H

UniRef90_A0B6H6 G V K A A E K A M S E L S F Q K G

UniRef90_A0B6H6 G V K A A E K A M S E L S F Q K G

UniRef90_A2SSF9 E E L A K F H G H L G P F I V L G Y R M G K Y A L Q Y F D N D P F S

UniRef90_A7H779 L E C G E L L H G H P C P P L T L G V R A G H A A L R A L A V P R A V I

UniRef90_G0L417 V Q D I D L N D L V K F H G H L C D G L V V G H L A L Q E A L G E L Y Q D G P I

UniRef90_Q2JN48 L Q R V T E I H G G A G P W A V V G Y R M G M R A L Q E L G L H T S R G

UniRef90_F4BYH4 L G T N A T N Y A M T E L G F F E K G

UniRef90_F4BYH4 L G T N A T N Y A M T E L G F F E K G

UniRef90_UPI00036A1694 E E L K R F H G H L G P Y A V I G Y R M G E I A R K R F P

UniRef90_D1JC28 L G F R A S E V A K E E L P F V Y G

UniRef90_D1JC28 L G F R A S E V A K E E L P F V Y G

UniRef90_D1JC28 L G F R A S E V A K E E L P F V Y G

UniRef90_E1RJ66 F H G H L G P Y I V L G Y R I G R Y A S E Y F G N N P F E

UniRef90_D1JCF4 L L G Q R A A D V A K E K L P F V Y G

UniRef90_D1JCF4 L L G Q R A A D V A K E K L P F V Y G

UniRef90_D1JCF4 L L G Q R A A D V A K E K L P F V Y G

UniRef90_K0NP62 D Y F K C A E I H N H I C P G V T S G Y L I A R M I Q D N Y P L K K

UniRef90_A3CTK8 D L M S C V M L H N H F C P G V S S G Y L L A T Y V E Q E M P I T N

UniRef90_UPI000368493D I Q E L K Y N D L V K F H G H S C D G L L E G M Q A L E V G L H I L Y P D G I V

UniRef90_I7LK58 D L A A F H G H L G P F I V L G Y R I G R Y V R K T F C D D P F K

UniRef90_X0TBR9 Q K L T I D D L E K F H G H L C D G L V V G A F A M K E A M K E L Y P N Q L T E

UniRef90_UPI00040B4112 E D L L R D F L A R F H G H R C P M S I L L G A R L G L A A R R A L A P E P G V I

UniRef90_UPI00046D4AA3 D F M N G V L Y H D H F C P G V T S G Y L L A N F L I E R E M P L R S A

UniRef90_T0JNQ6 R A F E F H D H Y C P G V I S G I F M A D Y V Q T H F P P G R S T G

UniRef90_B2DD78 L I R E A V N Y H G E L C P G V A V G V R I A E A T R I F E R D L

UniRef90_A3CUD0 L L G Q R A A D V A K E K L P F V K G

UniRef90_D1JC27 L L G Q R A A D V A K E K L P F V K G

UniRef90_D1JC27 L L G S R A S E V A M K E L P F V K D N

UniRef90_Q648F9 L Y E Q L E V F H G H V C A G S L F G A R L G F A K E A L K A A G G T

UniRef90_B9M9I3 L K V I A E K H G H L C P Y L A L G W R V G L F F K N L L K K E F T S

UniRef90_F8AB17 L V G F K A A D R A M K E L S V S K G

UniRef90_D1JDA1 K E I T F D D M V K F H G H A C D G L Y R G T Y A L S V A F K I L P N G V I D

UniRef90_C3XM56 K K L D I K T L A R A H G H L C D G L V L A Y V E L S N T L P K L F A D G V I D

UniRef90_T0LUV0 E Y E R E A T N F H G E L C G W V I L G A R I Q H L G L L W K V H P K

UniRef90_AQA59 F E T L E R F H G H V C A G S L M G A R L G L A A K T A L K A A G G

UniRef90_I3YK87 R A F E F H D H Y C P G V M S G I F M A D Y V Q A H F P P G R S G

UniRef90_B9L0T0 K E S L I H E G Y N F H G E R C I G L A L A V R M A M V A N L L G C D L R S

UniRef90_S6E388 E E W V R L G R R V H G G F G T Y V V V G I R I G L D A M K R L D L D V T Y

UniRef90_S0G372 I K D L T K F H G H F C G G L V E G A T A L R V A F D R L F P D G I T

UniRef90_H8I6P5 E D E L R A V A A I H G G A G P W A V A G Y R M G R Y A L A K L G L A R S F

UniRef90_D1JCF3 F E T L E R F H G H A C A G S L I G A R L G L A A K T A L K A A G G

UniRef90_K9WF09 E L H G H L G I Y A T L G V K M G I R A R E Y F N V G V D

UniRef90_S6APK2 K E E W K I V I E F H D H L G I Y S I I G A K M G L R A R E Y F K V G L D

UniRef90_S4Y3J9 E L H G H L G I F A T V G V K M G I R A R E Y F D I G V D D

UniRef90_B5EHN2 L I R Q A V N Y H G E E C Q G L A M A V R M A A F A T L T L K K D L R N

UniRef90_UPI0002FB1D69 L M R V A L V H G G A G P W A V A G Y R M G D Y A L Q Q L G L P R G S

UniRef90_R5UPY0 L M Q C L E I H N H F C P G V S G F V L A N W M E E N Y P L K E

UniRef90_UPI0003B5F635 E Q W V E L G R R V H G G F G S Y V A L G I Q I G L D A M Q R L I E A T P R T

UniRef90_Q3A879 L K D L I K F H G H F C G G L V E S A S A L R A A F D V M F N D G I V

UniRef90_R5PLF7 F H N H I C P G V S P S Y L I T N Y I F Q N F P R G K

UniRef90_Q0W414 F H N H I C P G V S P S Y L I T N Y I F Q N F P R G K

UniRef90_H8MFP5 L R A V A A I H G G A G P W A V A G Y R M G R F A L A R L G L P A K

UniRef90_Q8PVT5 E E W K A A V E L H R H L G I Y S L V I G A K M G V R A R E I L D A P F D V

UniRef90_K8GQD5 K D L V K F H G H A C D G L F R G A V A L S R G L A E L F P D G V I

UniRef90_UPI0004725A58 M K K E L L E K A L A H H W E L C A D L R I A V R M A L I V Q E R W G K L N

UniRef90_E3GX17 K I D P L A R V A A V H G G A G P W A V M G Y R M G V Y A L K Q L D L P V G

UniRef90_E3GX17 F E D I R K L H G I R A Y M A I G Y R V V E V A L K E L G N E L S

UniRef90_A4WKC9 F Y K Q A L A H H G E Q C L G L E L A V K M A L L V E N H F G Q I Q S P

UniRef90_A9G3U3 I K D M I K W H G H D C E G T T H A A N T M K I T F E I L F P D G I I

UniRef90_D8F1D8 E G L I R E A V N Y H G E L C P G V A V A V R V A E A A T R I L G R D L

UniRef90_F8I275 L K A M A D R H H G L C P Y L A L G F R V G E H F R K L L P T D Q V P

UniRef90_Q2LX24 L K D M I R F H G H D C E G T V H V A N A A W V A F R I L F P D G I I

UniRef90_U2SQS8 D I L R E A A F H G H V C L G T I S G Y A M I E T L L K Y Y P A T N E F

UniRef90_UPI00028994B4 L A R V A S I H G G A G P W A V A G Y R M G A H A L R E L G P G S F

UniRef90_T0JT29 F H D H L C G V F T G Y F T S R Y I L E Q F P L T E G Q

UniRef90_I2K9A5 Q Q L A A V A R I H G G T P W A V A G Y R M G Q H A L A R H G L A A Q

UniRef90_I7JAG0 H G A F G S Y I A L G I R I G L D A L Q R L A H A Q R T E

UniRef90_UPI0003B513EC L T D V Y D F H G N A C P G A T M A F Q A L R Y G L E L L G Q E T P D

UniRef90_UPI00036B8F5E K D I L R F H G H S C E A L Y Y T A A L C R L I C D Q M F P D G V V

UniRef90_D9PV92 A D L L R A A A F H G H M C L G T I S G Y A M S L T L L K Y Y P P S P G E

UniRef90_L7UIK0 F E D V C S F L G H E E C E G L L L A I R M A L I V E E L G K L N S P

UniRef90_S0G1X3 K A L L E D I R K Y H G E L C M A V A V G F R V L Q E A L K E L Y P E Q P P

UniRef90_A0A01770U7 Y E D L C K Y H G G G A M A L A V G F R M Q Q T A F A E L Y P G E V P

UniRef90_S0EWF0 D A V K L C G H S C P T V A S A W L M V I K A L A A L Y L P E R G

UniRef90_UPI000462991C

UniRef90_C0QF92

UniRef90_D9PWQ4

UniRef90_M7T758

UniRef90_UPI00035CDF36

UniRef90_UPI0003807FA5

UniRef90_UPI0002881B6A

UniRef90_UPI00035C5965

UniRef90_C4GGN8

	50	60	70	80
UniRef90_Q0W5K5	M H A V V G C S P Q S T C L A D G V Q I G S G C T T G K R N L E L R V S D S I A			
UniRef90_UPI00035E4B50	D H G F F V F P E P Q Q S C M V D D G L Q Q A V T S G A T T Y G K K R N L L I E K Y G N E K I A			
UniRef90_F4BXA4	M K E V F C Q Q D K P P Q Q S C V L A D G L V Q L I G S G A T T Y G K K R N L R I V I P S N E R S A			
UniRef90_E8R494	R W R V V H R A R P P F R R C V L A D G L V Q L I G S G A T T Y G K K R N L R I V I P S N E R S A			
UniRef90_A2STQ9				
UniRef90_A0B6H6	D E N I L V L T N A G Y A I V S A L K G I T T G C C S H G D D G N L F L R P H W K P L			
UniRef90_A0B6H6	D E N I L V L T N A G Y A I V S A L K G I T T G C C S H G D D G N L F L R P H W K P L			
UniRef90_A2SSF9				
UniRef90_A7H779	E R E L F A T V Y P E S C L M D G V Q T I G S G C T T L G K K R N I E L L V P S Q T A			
UniRef90_G0L417	D R N T R I V S Q P S P C C L T D A A I L Y D T G A R Y Q G K F N T F Y V S K D I D G L			
UniRef90_Q2JN48	N R F L V V I H E S P A C C L I V D G L H A A T G A S L G K K L N L K V E S L E K M R			
UniRef90_F4BYH4	D V N V L A L T N T D M C C L D A V V E V S G C C T P G K K E N L V N I P W K P L W			
UniRef90_F4BYH4	D V N V L A L T N T D M C C L D A V V E V S G C C T P G K K E N L V N I P W K P L W			
UniRef90_UPI00036A1694	Q R I Y A I V H P L S C C L A D G V Q M S S C C C T T L G K K S N I S V R E D N E V R			
UniRef90_D1JC28	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L I H R S K E K P L			
UniRef90_D1JC28	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L I H R S K E K P L			
UniRef90_D1JC28	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L I H R S K E K P L			
UniRef90_E1RJ66	M K A K V Y C S G T Q S C C L A D G V Q L I G S G C C T I G K K R N I E L E I S D D L K			
UniRef90_D1JCF4	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L L V I Q R R S K L W			
UniRef90_D1JCF4	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L L V I Q R R S K L W			
UniRef90_D1JCF4	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L L V I Q R R S K L W			
UniRef90_D1JCF4	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L L V I Q R R S K L W			
UniRef90_K0NP62	E E K Y T V I S C P W W C K E D A F M A M L D T T P G K K G M I V K D E Q K Q K			
UniRef90_A3CTK8	D T S Y V V I S C P M W C K D D I F P L L W D L T P G K G G H Y I F P Y G R P A			
UniRef90_UPI000368493D	D R N T R I L S R S S P C C L T D A A I Q L L G C G G R Y Q Y N T F Y V T D S S T P G M			
UniRef90_I7LKS8	M Q A V I A G T P P E S C C L V D G V Q L L G C G G R Y Q Y N T F Y V T D S S T P G M			
UniRef90_X0TBR9	N E R I H V L C E T Q N C C L P D T F Q V L A G A T L G N K R L M L R H T G E K M S			
UniRef90_UPI00040B4112	D R N L R L V S K P S P C C L T D V A I Q L L G C G G R Y Q Y N T F Y V T D A E F E G L			
UniRef90_UPI00046D4AA3	K L R R A R Y H H H T C A L D G V Q V A T G C T P G N R N R N L E V V D A G E N R			
UniRef90_T0JNQ6	S E S Y F T I S A P V W C K E D A L Q T V L N T T P G K S G M A L V P M N K N L			
UniRef90_B2DD78				
UniRef90_A3CUD0	R H P Q V S V A P P D P C I A D A L I G L T G A S P G N R R L G C S G G D R			
UniRef90_D1JC27	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L L L L I H R S K L W			
UniRef90_D1JC27	N P N I L A M T D T E E E C C I D G V I A S S G C C T I G K K A N L L L L I H R S K L W			
UniRef90_Q648F9	P N I L V M T S H T E G R C I D G V A D A S G C T V G K G N L I H R S R E K P L			
UniRef90_B9M9I3	G K F K S N Y Y D L S C P V D G I Q V G A G T T Y G N K A L V V Q D R D E H R			
UniRef90_F8AB17	F E N F F L V L A Y A H S C A L S A L E L M N E K I E N T I G E P L			
UniRef90_D1JDA1	D T N I L V L T Y T T E K A L D S A L M Q T T S A S R G K G N L I H K P Y N A P L			
UniRef90_C3XM56				
UniRef90_T0LUV0	R T D L R A I S R N S P C C L G D A A S Y L T G A R V R F G T Q D V L S D P G V W			
UniRef90_A6QA59	D R D L R V V A K N S P C C L G D V T S G L M S G A R I N H R T L S L D N S L G G S			
UniRef90_I3YK87	D I L V T T Y P V S C M N D G L Q V G T G A S V G H G L I T V I D T P R P E			
UniRef90_B9L0T0	D E D L R V T V S D D T H L A D A L Q A L T A A T L G N G R L R V T S E R K V S			
UniRef90_C6E388	E G K L K A K Y F A N S C S I D G V Q V A A G T T A G N K A I E V V D A G E N R			
UniRef90_S0G372				
UniRef90_H8I6P5	D D V C I V I G K N H C C I S D S L I G I T G A R L G S G R L L Y N L R P K			
UniRef90_D1JCF3	D P N I L A M T D T D N C C I S D S L I G I T G A R L G S G R L L V R S R D R P L			
UniRef90_K9WF09	Q E G L L S P C P C C C V D G I M I A T V S T P G Q N S L R V L P T R R R D R			
UniRef90_S6APK2	D R T D L R I A S N N S C C G G D V A S Y L T G A R T R T F G T H L I D P K L R E S			
UniRef90_S4Y3J9	D L E V V H R S P R N S C C I A D G A A A T G A S L G K L N L S L V E A T E A G			
UniRef90_B5EHN2	E G K L K A K Y F A N N S C C S I D G V Q I A A G T T A G N K A I E V V D A E N R			
UniRef90_UPI0002FB1D69	D L D V T Y Q D G P N S C C V D G I M I A T V A T P G Q N S L H I V L P S K T N A			
UniRef90_R5UPY0	D I V V T S Y P V S C C L N D G L Q V S T G A T V G H G L I T V I D T P R P E			
UniRef90_UPI0003B5F635	E L L V L S Y P I S C C L N D G L Q V S T G A T L G H G T I M I K D L P K A L			
UniRef90_Q3A879	R D D L V L S Q M P G P G V D A V R I M Q G P T V A P A G M R L A R E N F V			
UniRef90_R5PLF7	M H V T T Y A S G N R S C C L N D G L Q V S T G A T L G H G L I T V A E V K R P E			
UniRef90_Q0W414	S S V C I L I G K N A C C I S D S L I G I T G A R L G N K R L Y Y N L N P K L S			
UniRef90_H8MFP5	F K L E V I H H S P A C C V A D G A A A T G A S L G K K L N L S L V A T P S P A			
UniRef90_Q8PVT5	G V S Y T V F S C P N W C K E D V F V K R W D A T P G K G G I F V S P A G F V			
UniRef90_K8GQD5	L D V T Y A I A P C P C C V A D G I M I A T T S T P G Q N L L R V A A T P S P E			
UniRef90_UPI0004725A58	D R D L R L V S N N S A C C G G D V A S Y L T G A R L R F G A H Q I D N T E S E M E			
UniRef90_E3GX17	D E K Y I Y I T T T D Y C K D D G I L L L L G V S P G A G N L R L S D N G N M E			
UniRef90_E3GX17	D E K Y I Y I T T T D Y C K D D G I L L L L G V S P G A G N L R L S D N G N M E			
UniRef90_A4WKC9	G V E I K L V S A P P W C K D D L L I Q V L D A T P G K R N E S V K F L G D P A			
UniRef90_A9G3U3	S F D L E V I H H S P S C C I A D G A A A T G A S L G K L N L S L I E A S E D G			
UniRef90_D8F1D8				
UniRef90_F8I275	D R D L R V L S R N S P C C L G D V A A Y L T G G R I R F N T Q D V R D P G V W			
UniRef90_Q2LX24	D D E L F V E V T G S G C L A D V L Q G L T R A R L A N P R F L F Q R S R E F L			
UniRef90_U2SQS8	S F A L E V F H H T P Q K V Q Y A T G A S V G K L N L L V E V L G E D V			
UniRef90_UPI00028994B4	R E D L Q V I S H G G P G F R D A I E F V T R A T R G N Y T V D H R P T G Y V			
UniRef90_T0JT29	Y L Q L R V S E G D A C C L A D V L Q G L T R A R L A N P A R F I Y Q N N S L R			
UniRef90_I2K9A5	D R S V L G I S G T G P C C W S D A V A F L T G A R L Q Y G N L K N K D Y N H A			
UniRef90_I7JAG0	R H P L V V T L G A D P C C A D A L I G I T G A R L G N H R L G C S G T D R			
UniRef90_UPI0003B513EC	F D V R T Y N Q S C C A V A A L E L M G F K V E V E E L G E Q T			
UniRef90_UPI00036B8F5E	D R S V L W I S G D S P C C W S D G V A F L T G A R L Q Y G N L F F R D K R S H A			
UniRef90_D9PV92	G L P L E G V S Y P G G S D D D V F I Y A M D A T P G K R A Y V T A D T N I V G			
UniRef90_L7UIK0	D L E V V H H S P A K T C V A D G A A A T G A S L G K L N L A L A S T A T S A			
UniRef90_S0G1X3	G Y I Y I G T P A W C Q D D L I M N M L N L I T P G K H G Y V T M A Y P K T A			
UniRef90_A0A017T0U7	S F D L E V V H H S P R C C I A D G A A A T G A S L G K L N L L V E E P S D E A			
UniRef90_S0EWF0				
UniRef90_UPI000462991C	L A D L V I S R S A G G P M D L F D L L M K G K D K S R V M D A D N F T			
UniRef90_C0QF92	D R T L L R I V G Q S P C C I A D S M A Y L T G G R L Q F G T L S M D P S L G H A			
UniRef90_D9PWQ4	I T N Y I T I G V P G S D D D S L L M F L D T T P G K G G			
UniRef90_M7T758				
UniRef90_UPI00035CDF36	D L L V S V A G S A C C I D G I Q I S S G C T L G K G N I I L M V F Q K H V			
UniRef90_UPI0003807FA5	K D K F T I I S S K H T I G D V V A I I G C S L Q K N K Y L I D D S I K Y H			
UniRef90_UPI0002881B6A	Q R S A I S I L H A G P G F R D A F E Y V T R V I T R G A Y E V N P Y R P Q S			
UniRef90_UPI00035C5965	Q R R S F S I G H A G P G F R D A F E Y V T R A Y T R G A Y M I D P Y R E Q S			
UniRef90_C4GGN8	N I E I S M S G E R D A G V T G V I Q L I T G A R F A R R N L L A F G A G D A			

UniRef90_Q0W5K5 C E F T S A E G K K M V | L R P K P L K F P P R G E D Y F H Q I E Q L A
UniRef90_UPI00035E4B50 A T F Y H P K G A V R Y S L K P D F I D E M G K F E K K G I E P S Q I P Q N
UniRef90_F4BXA4 C H F A A G R E S L V T I P R P I A F T S E S G K E H D L L
UniRef90_E8R494 L I V T D R R D G R S L R F R L R P E L V A S I L D L P Y D R
UniRef90_A2STQ9 Y V L E K T D G S K L F I T K L R T S S E L H L L K G K E A A N T A T P E E K D R
UniRef90_A0B6H6 F Y F F D K N S K E A L Y L E V K P E A L E E E L K A A S D D D A V F S K I S K A N
UniRef90_A0B6H6 F Y F F D K N S K E A L Y L E V K P E A L E E E L K A A S D D D A V F S K I S K A N
UniRef90_A2SSF9 E V M F R H A D G R A I L I K P G D Y M K K S D Y D S L D P E L A L E H
UniRef90_A7H779 L T L L D Q R R R R A V R V A L R A A V G E A F R A V R S A G E P W A P V P R E
UniRef90_G0L417 F T V Q R I D T R Q K A V T V R V K P G E I D K L G A L A K G E L P P C E L D K L
UniRef90_Q2JN48 S V V T H R E T G K R V E F Q V L P E F I D K L G A L A K G E L P S E Q
UniRef90_F4BYH4 F G F F N K N T G E A V Y M K M N A D A S G F E I Q D K D K I D A E T V L A E
UniRef90_F4BYH4 F G F F N K N T G E A V Y M K M N A D A S G F E I Q D K D K I D A E T V L A E
UniRef90_UPI00036A1694 A E F S D G T S H L E T S A R P E V R P G I D G K C T H G N E E
UniRef90_D1JC28 F A F F N K S S G E C C V Y L E V D S S V F D M T A A E V K A L P N D K
UniRef90_D1JC28 F A F F N K S S G E C C V Y L E V D S S V F D M T A A E V K A L P N D K
UniRef90_D1JC28 F A F F N K S S G E C C V Y L E V D S S V F D M T A A E V K A L P N D K
UniRef90_E1RJ66 C E F E S G E K K I L I L P K R F E I P K S S D E D Y E L T
UniRef90_D1JCF4 F A F F N K S S G E C C V Y L E V D S S V F D E V K A L P D G E V F T I I A K A N
UniRef90_D1JCF4 F A F F N K S S G E C C V Y L E V D S S V F D E V K A L P D G E V F T I I A K A N
UniRef90_D1JCF4 F A F F N K S S G E C C V Y L E V D S S V F D E V K A L P D G E V F T I I A K A N
UniRef90_K0NP62 I S I T D K K T G R G I V S F D F D K V K A L V S K D S A G P A M T F A M L Q
UniRef90_A3CTK8 G I F I R W D G Q Q K T G R A L A L G F Q F D S T P W T G P S W G E K P T R
UniRef90_UPI000368493D Y L L Q R I D N K R S T V I V K V K P D I I D I M K K A L A K E L S Q L R K L K
UniRef90_I7LKS8 C E F I S G G S T M V I I P H P F D L P P Q G E G Y E A I E H Y
UniRef90_X0TBR9 V T I T R H T P G E G V R I I L D P S K T K R F Y K L H A W Y M N T E K V P H R
UniRef90_UPI00040B4112 Y L I Q R I D N L K T V S V S V K P T A I D S L W G N I A Q Q K L S P C D I Q K L
UniRef90_UPI00046D4AA3 L E L G V E E P L R F V A S E L L P T A L D R W S E H R R A A L E L P E E R A R
UniRef90_T0JNQ6 A G I Y F R T D R K A L V L I T F D F A K G A A L S G L D K Q N L F E W E K K V K
UniRef90_B2DD78 V N Y P S K A D R A N R L P E I Q D A A T I V Y R Q D D E T R K W E A L
UniRef90_A3CUD0 Y V L S C A G K E A V F I L R E V P E S V D A I L A A G E A S L F D
UniRef90_D1JC27 F A F F N K S S G E C C V Y L E V D S S V F D E V K A L P D D K V F T K I A K A N
UniRef90_D1JC27 F A F F N K S S G E C C V Y L E V D S S V F D E V K A L P D D K V F T K I A K A N
UniRef90_Q64F9 F A F F S K N T K E C V Y L E V N A V L D E F K A L A D G E V F T K I A K E N
UniRef90_B9M9I3 L V L T A E G N G A E A R L T R K A E E M K K A K A L G A G S P D R Q K L E Q E
UniRef90_F8AB17 Y V L Q T I T G D A L S M I A V N A E I T I P P R E L E E L T W K I K S D T
UniRef90_D1JDA1 F A F F D N G S K D C V Y L E A N S E V L K I Y E E L T R E Q I E R E
UniRef90_C3XM56 F N I Y N R R N G K K A R F V F K E E K L A Y I L S K E P K D L F
UniRef90_T0LUV0 Y L I Q K I S T G E S I E V T E D N G F F P A E I A N A E A S L S R E E L P E K
UniRef90_A6QA59 F I V Q K I S T G E T Y K V E L D T G F I K A L K N K E K E I T P K E V E A L
UniRef90_I3YK87 A R F T F K D K T I R L V L K P R Y A D R I R R E L Y G D L T E P Y W Q Y V
UniRef90_B9L0T0 F T
UniRef90_C6E388 L L L S A E K N G R Q V E A H L T R E K A K K F R E L R G K G V G S P E R Q Q
UniRef90_S0G372 V T Y P S E A D R A R R L P A V
UniRef90_H8I6P5
UniRef90_D1JCF3 F A F F D K K T E N C L Y L E V D N S V F D K F M A L P D E E V F R R T V K E N
UniRef90_K9WF09 N T F K N K T G Q A L R Y T L P N S V R S Q L D S W N Q S L T E R Q R Y D
UniRef90_S6APK2 F V V Q R I S T G K T V R V I N A D V R T Q M K Q I E S G S F T P A D I Q D L
UniRef90_S4Y3J9 V T Y R R R S T G Q A V T L R P S A A F R A R F R D V P R E G L E
UniRef90_B5EHN2 L L L S A E K N G R Q V E A H L S R V A E E K A K K F R E
UniRef90_UPI0002FB1D69 V V I K H K K T G E S F R Y T I P N S A R V L D G W N K D Q K G R
UniRef90_R5UPY0 A T F A F K G R S V T L R L K P E Y A R Q V Q E D L K K G I T E E N W Q Y V
UniRef90_UPI0003B5F635 F T F K N T I S L Q L K Q D Y W E I V K K D I K Q G I K Q G F L T N N
UniRef90_Q3A879 F T L M S K S G E R V I V K F K P E V L S E K A R M K K Q G L S P E Q W Q G Y
UniRef90_R5PLF7 A T F T F K N K K V T L R L K P E Y E R R V R E D L K K Y G A D T E A N W Q Y V
UniRef90_Q0W414 Y S I Y D S E K T I V F R I R
UniRef90_H8MFP5 T T F R N R D T G Q S L T L R P S A S F V Q R F R D V P R E K L G
UniRef90_Q8PVT5 V T D K N A G T M K S V A L L G F D F D V V N A K C G A K K D D P A W
UniRef90_K8GQD5 G T F G N T R T G K R L R Y S I P A T A K A Q L D D W N R N T T
UniRef90_UPI0004725A58 F I V Q R I S S G R T V H V I K L N P E V K T Q M R K I E S G K F K P E D I Q E L
UniRef90_E3GX17 G I L I I W N E G K A V I I T F K
UniRef90_E3GX17 G I L I I W N E G K A V I I T F K
UniRef90_A4WKC9 Y L I H D R G R E E V L V I S F D W E K A R E I A G V V G D T P S S K L A M S A
UniRef90_A9G3U3 V T Y R R R S T G Q A V T L R P S A A F R A R F R D V P R E T L E S
UniRef90_D8F1D8 P S V T F I Y G K E R L D L T L K R E W Q E K I K A
UniRef90_F8I275 F L L Q R I S S G T T I R V M E R A G V Y P D D L A Q E E A R L
UniRef90_Q2LX24 S S T W R K K D G R T V R G N V D P D R I E S L A D D L F K I E E
UniRef90_U2SQS8 V T F R N R D T G E A L A L R P S P R F A Q R Y L D V P R E K
UniRef90_UPI00028994B4 Y L I E T N K K Q Q S V Q V S L N E D F L D Y L L K G R E E S F T P E E Y E H N
UniRef90_T0JT29 N R V Q W F K N G Q S L T L T V R P D V I N T A S Q L S E Q E L F I Q E
UniRef90_I2K9A5 I L L Y R T D T K V I A V
UniRef90_I7JAG0 Y V F A C P G E E V V H L R T V P E S V D A V F A C S E A V L F D C E I
UniRef90_UPI0003B513EC Y A L M A P I S R E F L T P A E K I A C G T A D P F E K A H Y
UniRef90_UPI00036B8F5E I V L Y R E D T K V I A V
UniRef90_D9PV92 F L R W N S K T K T G T I I M A Y S Q Q E L I N K Y K Q E T K A T A V S E L K
UniRef90_L7UIK0 T T F R H R A T G K T I T L K P T A A F A T R Y L N V P R K E
UniRef90_S0G1X3 D A V Y N N I G G I V R
UniRef90_A0A01770U7 V T Y R R R S T G T S I L R P T A A F R T R F K N V P R E Q L P T
UniRef90_S0EWF0 F T I T D M K T E Q T I R Y V I P A S A Q A F L D R
UniRef90_UPI000462991C F Q F L R K S T M Q T V T V R L Q E D W F E L R A E H K A G T I T D E Q K K K R
UniRef90_C0QF92 V V I Q R I D T G E T W M
UniRef90_D9PWQ4
UniRef90_M7T758 F Q T M M E N N V E I V L K T D I Q K E I D T T V T E E N
UniRef90_UPI00035CDF36 F H F V E S E D N M L V R W K K G A R E L K F V P K H
UniRef90_UPI0003807FA5 Y H I A Y H P N K K A V Q I I Y R K H L L E Q M D K L W K I E L A L D K D P H S
UniRef90_UPI0002881B6A Y A F V I R D Q G P S V E V T L Q P D F L D Y L K Q G R D N S L S P E D T R Q L
UniRef90_UPI00035C5965 Y A F V T G D N G R A V Q L I L R P D F L D Y M K Q G R D G R M T V K D D E A F
UniRef90_C4GGN8 M T L R R R D T G K A V R V A F N P E M R D I M P Q A V A G M A S P E E L Q E L

UniRef90_Q0W5K5
UniRef90_UPI00035E4B50
UniRef90_F4BXA4
UniRef90_E8R494
UniRef90_A2STQ9
UniRef90_A0B6H6
UniRef90_A0B6H6
UniRef90_A2SSF9
UniRef90_A7H779
UniRef90_G0L417
UniRef90_Q2JN48
UniRef90_F4BYH4
UniRef90_F4BYH4
UniRef90_UPI00036A1694
UniRef90_D1JC28
UniRef90_D1JC28
UniRef90_D1JC28
UniRef90_E1RJ66
UniRef90_D1JCF4
UniRef90_D1JCF4
UniRef90_D1JCF4
UniRef90_D1JCF4
UniRef90_K0NP62
UniRef90_A3CTK8
UniRef90_UPI000368493D
UniRef90_I7LKS8
UniRef90_X0TBR9
UniRef90_UPI00040B4112
UniRef90_UPI00046D4AA3
UniRef90_T0JNQ6
UniRef90_B2DD78
UniRef90_A3CUD0
UniRef90_D1JC27
UniRef90_D1JC27
UniRef90_Q648F9
UniRef90_B9M9I3
UniRef90_F8AB17
UniRef90_D1JDA1
UniRef90_C3XM56
UniRef90_T0LUV0
UniRef90_A6QA59
UniRef90_I3YK87
UniRef90_B9L0T0
UniRef90_C6E388
UniRef90_S0G372
UniRef90_H8I6P5
UniRef90_D1JCF3
UniRef90_K9WF09
UniRef90_S6APK2
UniRef90_S4Y3J9
UniRef90_B5EHN2
UniRef90_UPI0002FB1D69
UniRef90_R5UPY0
UniRef90_UPI0003B5F635
UniRef90_Q3A879
UniRef90_R5PLF7
UniRef90_Q0W414
UniRef90_H8MFP5
UniRef90_Q8PVT5
UniRef90_K8GQD5
UniRef90_UPI0004725A58
UniRef90_E3GX17
UniRef90_E3GX17
UniRef90_A4WKC9
UniRef90_A9G3U3
UniRef90_D8F1D8
UniRef90_F8I275
UniRef90_Q2LX24
UniRef90_U2SQS8
UniRef90_UPI00028994B4
UniRef90_T0JT29
UniRef90_I2K9A5
UniRef90_I7JAG0
UniRef90_UPI0003B513EC
UniRef90_UPI00036B8F5E
UniRef90_D9PV92
UniRef90_L7UIK0
UniRef90_S0G1X3
UniRef90_A0A017T0U7
UniRef90_S0EWF0
UniRef90_UPI000462991C
UniRef90_C0QF92
UniRef90_D9PWQ4
UniRef90_M7T758
UniRef90_UPI00035CDF36
UniRef90_UPI0003807FA5
UniRef90_UPI0002881B6A
UniRef90_UPI00035C5965
UniRef90_C4GGN8

130 140

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

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

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

V E R A V G D I L S

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

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

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

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

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

L D R W I L K I L E A K E E E L F K

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

A G R T A M E L P A S E I F E

T K D R Q R V I R T F P

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

