

1 10 20 30 40
QUERY A E I K H Y Q F N V V M T C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_J4H2Z4 A T E H T Y K F D V V Q M T C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_Q6CUS3 S S T N H Y Q F N V V Q M T C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M0S6R2 H T Y K F N V V Q M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_F8P4C4 T T T V L F K V N V V Q M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M5XJ47 I Q T C V L K V N V V I H H D D G G C C C K Q K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_W5FFP5 Q T W E L K V V H Y M D A G C C C C C K K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_V4UBJ3 M T T M E M R V V H M D A G C C C C C K K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_W1P2Q3 A D T H T Y E F D I A M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_K4CG41 Q L Q T V E L K V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_A0A016Q8R7 Q F Q T V E L K V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M5XE97 Q E H H Y K F N V V S M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M0RMS2 T V V L K V S M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_C0P2A0 T V E L K V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_V4T514 Q Q H Y K F N V V S M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_Q5BDJ0 T V V L K V S M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_K3YWC1 T V E L K V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_I3SU13 Q K H E F F V D M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_H0YR72 I Q T H V L R V N V I H H D D G G C C C K K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_A2ZNS5 Q T W V L K V S H H D D G G C C C K K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_W9RF02 M Q T V D I K V S M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_V4TM22 T Y V F E L A M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_F1LI6 S K I T T V L K V S H H D D G G C C C K K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_U7E0U5 I E T F V L K V H H M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI00032A62FD Q K H E F Q V E M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0003F0D772 Q T V E L R V G M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_W5HZC6 T L K T Y F L K V N I N Q G G C C C K N R V K K T L R K V L E G G G V Y T N V V E T S V L P
UniRef90_A0A022RGB7 Q T Y E F Q M A M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_V4LA19 T T K H E F F V D M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_H9LTE1 Q T W V L K V S I H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_B5X5H6 Q V H E F Q V E M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0002C30630 Q F Y T V E L K V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_G3MH82 K T W V L K V S I H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_I16UJ3 K T W V L K V S I H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_B9HSB6 M T I V E M H N I D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_B9RFA4 M T T L E L R V H M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_I1JRB0 N I Q T C V L K V N I H H D D G G C C C K Q K K V K K V L L Q R S I I E E E G G V V Y Q T N I I D D A E E T
UniRef90_C5Z449 T T A K I E F A V E M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_B6K3P1 M A T Y N F N V E M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0002B49168 E L Q Q T V Y N V E L T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0003C1733D D T S T V E I K V K M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0003C8CC5F Q T W T L R V P H H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI00021A6BE3 T T E F M V D M K C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_K4IR35 Q T L A L K V S I H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M0BSQ0 E E H T Y V F H I S M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M1BDY7 Q Y T T T V L R V S I H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_Q66ZP3 M Q K T E I Q V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_F2E710 M T T H E Y K V E M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M0RS71 M T K H E F E V A M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_E5QZ40 N F Q T V E I K V K M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_J3MNZ6 H L Y K F N I T M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_A5C108 Q L E F A V Q M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_W5GMV5 E F Q E L A F L V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI000365BE8C K T I E F T V H M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_H2Z7W5 T M E T V E I K V K M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0002A4BDDF A S Q E I V E I Q M N I D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0002C355D3 Q I V E L K I A M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M0T7S8 H L Y K F N I T M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_L5KPQ1 Q L E F A V Q M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_K4AG61 E F Q E L A F L V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_O65325 K T I E F T V H M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_W4X6Q4 T M E T V E I K V K M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_S8C0Y6 A S Q E I V E I Q M N I D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M8BV22 Q I V E L K I A M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_D8S6P6 H L Y K F N I T M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_K2SAL3 Q L E F A V Q M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_U5ES09 E F Q E L A F L V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_A0A059D5C6 S S D Q V V L R V S L H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_A9NT93 S S N E V V M R V S L H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_W4WLY0 Q F Q T V E L K V R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_O65657 T T V L K V A R M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_A9SR07 P T V E L R I S M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_I4BSX3 M Q Q F E F N V P M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_G3B126 S E H T Y K F D V Q M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_L0WFK7 S P P Q L E F A V I T M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_K9HU72 S E H N Y K F D I T M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M4A1R6 S L Q T V E L K V R M C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_S3EFU1 Q T V F A V P M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M0VZA3 Q E Q V V L K V S M L H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_L2G717 K I Q F L V S M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_W5FXG9 T Q S V E L A L K R M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_N6U7W4 L Q T V E L K V K M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_E3BAG7 E F A V Q M S C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0002B4B989 Q V V L R V S L H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0003EAC750 Q V V L R V S L H C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI0002B4246A Q L Q T V A V K I R M D C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_A0A059A8G7 I E L A V E M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_M5XFZ2 M Q Q F E F N V P M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_UPI00046396F0 Q V I E L T I G M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_B9H214 Q V I E L T I G M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E
UniRef90_W6JZT8 Q V I E L T I G M T C C C C C G G G C S S G A V N E R A L K K A L E P D D G V V S K I Y D D I V S L L E E

QUERY UniRef90_J4H2Z4 UniRef90_Q6CUS3 UniRef90_M0S6R2 UniRef90_F8P4C4 UniRef90_M5XJ47 UniRef90_W5FFP5 UniRef90_V4UBJ3 UniRef90_W1P2Q3 UniRef90_K4CG41 UniRef90_A0A016Q8R7 UniRef90_M5XE97 UniRef90_M0RMS2 UniRef90_C0P2A0 UniRef90_V4T514 UniRef90_Q5BDJ0 UniRef90_K3YWC1 UniRef90_I3SU13 UniRef90_H0YR72 UniRef90_A2ZNS5 UniRef90_W9RF02 UniRef90_V4TM22 UniRef90_F1LIG6 UniRef90_U7E0U5 UniRef90_UPI00032A62FD UniRef90_UPI0003F0D772 UniRef90_W5HZC6 UniRef90_A0A022RGB7 UniRef90_V4LA19 UniRef90_H9LTE1 UniRef90_B5X5H6 UniRef90_UPI0002C30630 UniRef90_G3MH82 UniRef90_I116U3 UniRef90_B9HSB6 UniRef90_B9RFA4 UniRef90_I1JRB0 UniRef90_C5Z449 UniRef90_B6K3P1 UniRef90_UPI0002B49168 UniRef90_UPI0003C1733D UniRef90_M4CAF5 UniRef90_UPI0003C8CC5F UniRef90_UPI00021A6BE3 UniRef90_K4IR35 UniRef90_UPI0003K0KSQ0 UniRef90_M1BDY7 UniRef90_Q66ZP3 UniRef90_F2E710 UniRef90_M0RS71 UniRef90_E5QZ40 UniRef90_J3MNZ6 UniRef90_A5C108 UniRef90_W5GMV5 UniRef90_UPI000365BE8C UniRef90_H2Z7W5 UniRef90_UPI0002A4BDDF UniRef90_UPI0002C355D3 UniRef90_M0T7S8 UniRef90_L5KPQ1 UniRef90_K4AG61 UniRef90_O65325 UniRef90_W4X6Q4 UniRef90_S8C0Y6 UniRef90_M8BV22 UniRef90_D8S6P6 UniRef90_K2SAL3 UniRef90_U5ES09 UniRef90_A0A059D5C6 UniRef90_A9NT93 UniRef90_W4WLY0 UniRef90_O65657 UniRef90_A9SR07 UniRef90_I4BSX3 UniRef90_G3B126 UniRef90_L0WFK7 UniRef90_K9HU72 UniRef90_M4A1R6 UniRef90_S3EFU1 UniRef90_M0VZA3 UniRef90_L2G717 UniRef90_W5FXG9 UniRef90_N6U7W4 UniRef90_E3BAG7 UniRef90_UPI0002B4B989 UniRef90_UPI0003EAC750 UniRef90_UPI0002B4246A UniRef90_A0A059A8G7 UniRef90_M5XFZ2 UniRef90_UPI00046396F0 UniRef90_B9H214 UniRef90_W6JZT8

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

UniRef90_A0A022T401
UniRef90_F2D837
UniRef90_I1HUW7
UniRef90_G8SAG9
UniRef90_UPI00036CD073
UniRef90_UPI0003F491C4
UniRef90_MORZV8
UniRef90_H6RME1
UniRef90_H9GSE6
UniRef90_A0A059DGM0
UniRef90_S3DBP7
UniRef90_U6B9Q1
UniRef90_Q0CCS5
UniRef90_UPI00041661F3
UniRef90_M7NP70
UniRef90_I7ABX0
UniRef90_C5MCK1
UniRef90_UPI0003F0A6A3
UniRef90_E9UVX1
UniRef90_H5USN2
UniRef90_D8S967
UniRef90_UPI0002B4458D
UniRef90_C1BCZ3
UniRef90_L0J435
UniRef90_Q39B83
UniRef90_I6SN27
UniRef90_H3BEA1
UniRef90_F2RH78
UniRef90_F3JIP4
UniRef90_A0A059MV34
UniRef90_A1SNA3
UniRef90_F7SAJ9
UniRef90_M0YYC7
UniRef90_D0IYT0
UniRef90_UPI0003512E17
UniRef90_UPI00046D2D5E
UniRef90_UPI0003674F79
UniRef90_G8RZJ7
UniRef90_A5DU49
UniRef90_V2VUQ4
UniRef90_W7GC57
UniRef90_W9BGE8
UniRef90_K2SDW8
UniRef90_UPI000255E3DE
UniRef90_W1NPD2
UniRef90_K4BF52
UniRef90_A0A024KCE4
UniRef90_MORSK7
UniRef90_B9N813
UniRef90_D4YKZ4
UniRef90_D8T636
UniRef90_W4YR96
UniRef90_E5AVM2
UniRef90_Q0AGJ1
UniRef90_F8K447
UniRef90_UPI000360D23F
UniRef90_V2TS84
UniRef90_B6TVS4
UniRef90_W9DCS9
UniRef90_K1E0H1
UniRef90_UPI0002C2E494
UniRef90_M0RWR6
UniRef90_E6JD03
UniRef90_E6W2R8
UniRef90_A9ALM6
UniRef90_D5WEJ9
UniRef90_A0A022RKE3
UniRef90_Q9SIA9
UniRef90_M0RWR5
UniRef90_F0WE77
UniRef90_B8H823
UniRef90_R6FJL0
UniRef90_J7TMF8
UniRef90_UPI000426E0D8
UniRef90_Q11BG5
UniRef90_UPI00037758BD
UniRef90_W9GMP4
UniRef90_A0A021W7U4
UniRef90_R4LUA6
UniRef90_UPI00037C44CE
UniRef90_I1NSW5
UniRef90_M1VUC8
UniRef90_A4XQH3
UniRef90_H8GIQ3
UniRef90_F5R854
UniRef90_I2K2P7
UniRef90_N6Y499
UniRef90_I4ZPE9
UniRef90_J0UXD4
UniRef90_G4T042
UniRef90_R4SLJ4
UniRef90_B6SX10

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

UniRef90_A0A022T401 R G T V L V E T K L P Y T I Q E K I E S S G K R A
UniRef90_F2D837 I N K V T V T G Y L V E P R K V L A R V K R T S G K T
UniRef90_I1HUW7 M N K V T V T G A N I V D A G L L V A R L R K S G K Q A
UniRef90_G8SAG9 K A V A T V S G A N I D A D D L L V A V V E K A G Y T A R
UniRef90_UPI00036CD073 S A R L R V P E A V S D Q A L L E A V S N A G Y Q V Q S G E T
UniRef90_UPI0003F491C4 K K Q V T I I G R T P P S H L S A L K A T H R Q V
UniRef90_MORZV8 N K K V V V V V G D I T P F E V L L K S V S K
UniRef90_H6RME1 K A K V I F S G D V T A E D L L S T V E S T G Y T A
UniRef90_H9GSE6 S Q T V L V E T S L G T E E V Q N L L E K T G R K A
UniRef90_A0A059DGM0 S N K L T V E T G K V E P A K I K D A L E K T K R K V
UniRef90_S3DBP7 E Q L I T V E G T A P P S A I V Q A I Q A T G R D A
UniRef90_U6B9Q1 T A R V S I S D S Y D D Q A I I E K I R K G Y G A
UniRef90_Q0CCS5 N Q T A T V V T S Y S Y E T V L E K I K K T G K T V N S G E
UniRef90_UPI00041661F3 T A M I R V D D G I T E E E L I A R I E K G Y G A
UniRef90_M7NP70 S A R L T V P T S V S D E D L I A T V E S A G Y Q A
UniRef90_I7ABX0 T E R A R V S G V I A V E D L L A A V G K V G Y E A R A
UniRef90_C5MCK1 D N L V T T E G S L A P S E I A K A I Q S T G R D A
UniRef90_UPI0003F0A6A3 D E R V I L Q T S L P S S Q V L E V I E D T G K R A
UniRef90_E9UVX1 K A K V T Y A N G I E P A A L V E T V E Q A G Y T A R
UniRef90_H5USN2 K A K V S Y P A T V T P E T L V E T I E A A G Y G A
UniRef90_D8S967 N Q V V R V L G T A P V K A I S A A L E E T G R S A R
UniRef90_UPI0002B4458D K D L I T V K G T I E G K D L Q S Y L K
UniRef90_C1BCZ3 K A R V N Y V G D V S T E D L V A T V E Q A G Y T A K
UniRef90_L0J435 K A H V E Y G D S V T P D Q L V A T V E D A G Y Q A H L P E E
UniRef90_Q39B83 T A T V T A Q E T V D A A Q A L L Q A V E Q A G Y R A
UniRef90_I6SN27 S E R A H L E G A V D S Q A L L Q A V E Q A G Y K A R
UniRef90_H3BEA1 A E Q V L V D T T L T S Q E V Q T L I E E T T G R R A
UniRef90_F2RH78 K A K V T F D A D L D V A F L I A T V E A T G Y T A
UniRef90_F3JIP4 N E R A H V D T A A D P Q T L I D A V S R A G Y S A
UniRef90_A0A059MV34 K A K V T Y A H G V A P D D L V A T V E A T G Y T A
UniRef90_A1SNA3 K A R V T Y V A P V T V D D Q L V S V E A T G Y T A A Q H E S V
UniRef90_F7SAJ9 T E R A R I T G D I D V S L I A A I E K A G Y D A H A
UniRef90_M0YYC7 H K L T V V G I A D P Q S R I V K A I R R T N R
UniRef90_D0IY0 T E R A S V Q G S V D V S L I A A I E K A G Y E A Q
UniRef90_UPI0003512E17 K D L V K V T G T M D A A A L
UniRef90_UPI00046D2D5E K A Q V T V T D E V S A D D L I S V V E K T G Y N A
UniRef90_UPI0003674F79 K A T V S F P D S L G P D R L I E T V E Q T G Y S A S A G E T
UniRef90_G8RZJ7 K A S V S Y S G D V T A D D L I A T V H K T G Y T
UniRef90_A5DU49 R N L V V T E G T L P A R A I Q E T G R D A
UniRef90_V2VUQ4 T E K A L V A H L A D A S A L L A A V H K A G Y A R A
UniRef90_W7GC57 T E R A T V R G V A G I D A L V A A I D K V G Y A R A
UniRef90_W9BGE8 Q A R V D F P D T V S P D D L V A A I A A T G Y T A
UniRef90_K2SDW8 N Q L V S I E G T A S P S S I V A A I Q Q T G R D A
UniRef90_UPI000255E3DE K A S V T F P S A L S V A D I V G V V E K T G Y G A
UniRef90_W1NPD2 T N K L T V V G K V D P S K I R E R V E K T K K K V
UniRef90_K4BF52 T Q K V T A R G Y L E E K K V R A I K R A G K A A
UniRef90_A0A024KCE4 T E R A T I H G S A D S A V L I Q A I S D V G Y E A K
UniRef90_MORSK7 E E R V I V T G N V D P A L L I K K L R K V R K
UniRef90_B9N813 S N K I T V M G Y L D K K M V V K A I W K T G R R A
UniRef90_D4YKZ4 S A L V E V G P D V P N D L L A T V E K A G Y S A
UniRef90_D8T636 K Q R V V V T G H V D P D S L L R K I A K T K K
UniRef90_W4YR96 A K K V Y V T T A L P S E Y V L E T L K K T G K A
UniRef90_E5AVM2 T E R A S V T A N V A V P T L V A A V K K A G Y D A H
UniRef90_Q0AGJ1 T E R A D L H N S V D R M A L I Q A V E K V G F D V
UniRef90_F8K447 K A R V S F P E V A V D E L I A T V E R T G Y T
UniRef90_UPI000360D23F Q A T V K L T Q G T S T A A L I A A V E R A G Y E A R
UniRef90_V2TS84 T E S A S V E T D I E P K L L V Q I V E K A G Y D A Q
UniRef90_B6TVS4 A G K V V V T G P A D A V E L K E R I E R A K K P V Q
UniRef90_W9DCS9 K A R I T T S G D L D P Q L L I T E I E N A G Y Q A
UniRef90_K1E0H1 K A T V T A P F G T D P Q D L I T V V E Q T G Y T A
UniRef90_UPI0002C2E494 S K M V V V I G D V L P Y E V V Q S V S K
UniRef90_M0RWR6 M Q K V T V W G I C N K D D V L A T I R K K R R E A R F W E Q
UniRef90_E6JD03 K A R V R I P E G L Q P Q L L D T V E Q A G Y H A Q
UniRef90_E6W2R8 T S Q A T V T A S V T P D Q L R E S V R K A G Y Q V
UniRef90_A9ALM6 T E R A T V E A D V S A A Q L V E A V E Q A G Y Q A
UniRef90_D5WEJ9 T E R A R V E S D A T P Q Q L A D A V R K A G Y E A
UniRef90_A0A022RKE3 Q N K L T V I G Y V V P E K V V A R V A R T G K K A
UniRef90_Q9SIA9 T K K V T V V G K I T P V G L V E S I S K
UniRef90_M0RWR5 T G K V T V T G T M D G E K L V E Y I R R T G K
UniRef90_F0WE77 K K Q I L V T G T A D P N V M L Q A L A Q
UniRef90_B8H823 S A H V T A P E G I T D D Q L V A T V N A A G Y T A
UniRef90_R6FJL0 T N S M G V E G D V S P S E V I K A V E E A G Y S V K G G K S
UniRef90_J7TMF8 E R S A L V T G H A S A E A L I A V E K A G Y G A
UniRef90_UPI000426E0D8 T A T A T V E G D A A F E A L A A Q V E E A G Y
UniRef90_Q11BG5 T E N A Q V S F D A P A D T L V A A V E D A G Y G V P S
UniRef90_UPI00037758BD T G R A T V E G T V D P A G L V E A V R A A G Y E A
UniRef90_W9GMP4 T E K V V Y T G P V T V E Q I V A E I E R T G Y A A
UniRef90_A0A021W7U4 T E R A R L E G T D T A A L I A A V K R A G Y E A
UniRef90_R4LUA6 K A R A T V P D V M T A A E L I A V V E K T G Y T A
UniRef90_UPI00037C44CE K A R V T Y P A S M P V A D L V A T V V R T G Y T
UniRef90_I1NSW5 I N K V T V T G N V T P D E V V K A L Q K G K T A T N W
UniRef90_M1VUC8 D Q L I S V D G S A P S A I V E A I Q S T G R D A
UniRef90_A4XQH3 S E Q A R V E A G A S L T Q L I A A I E D A G Y A V P S Q
UniRef90_H8GIQ3 D H S A T V K G E T D P E R L I R A V K D A G Y E A
UniRef90_F5R854 T E R A A V E A D V D A A A L Q A V E K A G Y A M K
UniRef90_I2K2P7 K N R V S I V G S V A P S K I V E A I Q S T G R D A
UniRef90_N6Y499 T A S V T A S A S V L Q S A L I E A I A K A G Y E V R
UniRef90_I4ZPE9 K A Y V T A V S S L Q Q Q A L K A I Q K A G F D V K A D Q
UniRef90_J0UXD4 T N K A T I Q G S A P T D A I M Q A V E K G G Y Q V T L Q E M V
UniRef90_G4T042 D H S A Q V K G D A D P D A L T K A V K A A G Y D A
UniRef90_R4SLJ4 K A Q V D F P T A A V S V E A L V G V V E S A G Y T A Q
UniRef90_B6SX10 Q N K V T V T G Y V D A A N V V A

	1	10	20	30	40	
UniRef90_D3G111	M S K M	l F S V K	M T C	A S S C C V N R	V E E K A L S K A V E	
UniRef90_UPI000420323F		E L D V I E	M T C	A S S C C V N R	V E E K A L S K A V E	
UniRef90_W7VZQ8	T T E T T	L Q V I E	M T C	A S S C C V N R	V E E K A L S K A V E	
UniRef90_W7W8L5	A N P H G	l K L Q V I T	M T C	A S S C C V N R	V E E K A L S K A V E	
UniRef90_UPI0002889D5D			M T C	A S S C C V N R	V E E K A L S K A V E	
UniRef90_B0KLD8			M T C	A S S C C V N R	V E E K A L S K A V E	
UniRef90_R5YMX2			M S C	A A C C S A G R	V E E K A L S K A V E	
UniRef90_N8VNH8			M T C	A S C C V G S R	V E E K A L S K A V E	
UniRef90_D4DW41				H C C C V G S T	R K D S L E A V S	
UniRef90_W3XDF3			M T C	E S C C V K S V	V S D S L E Y S L E	
UniRef90_R7ILK6	A D M K T	L N L A V I T	M S C	K H C C Q A H	V E K E T A L E K V E	
UniRef90_UPI0003683FE4	Q T	L R L S V Q L M S	C C A S C C l G R	V E E K T A L S A L	P P G G V V D D T T K V D A N L A	
UniRef90_Q7XE25		I V L K V E	L H C	A G C C A S K	V E E K K A I K R A	
UniRef90_I3IAJ9			M T C	C A S C C V A H	V E R E R A L S K V E	
UniRef90_UPI00042B04D8	K E	I V L K V Y M H	C C A S C C A A K	V F F N C L	K G F F Q G G V V E S Q V E T D M C	
UniRef90_UPI0002B427C8	Q D	I V L S V Y M H	C C E G C C A R K	V R R C L	R G F E Q G G V V E S Q V E T D M C	
UniRef90_K0PYP6	T E E F G	I E M T	C A S C C V A R	V E E K V L	K A V I P P G G V I G A S V N L A	
UniRef90_D2BUM6			C C Q H C C V A S	T R K A L E A V	P P G G V A A A D I I T S L Q	
UniRef90_Q5V8C5			M S C	A G C C S G A	V G R A L D K V D G	G I T Y E S V N L A
UniRef90_F2NR73	Q E	V R F G V Q	M T C	A S C C V A R	V E R A L K K Q K	G V L E A S V N L A
UniRef90_B2T9T3	T A E	L D I G M T	C C A S C C A L	R V E K A L A K	V P P D V E R A S V N L A	
UniRef90_G8W0V4			L S C	H C C V K R	V K E S L E Q R	P D V E Q A E V T L A
UniRef90_UPI0004776C4E		V E L A V I T	M T C	A A C C A R R	V E T K L N K L D	G V Q A T V N F A T E
UniRef90_F2LPQ9	T T E	L D V E M T	C C A G C C A R R	V T A L A Q L	D P G V V I S A H V A D L A	
UniRef90_A0A022MHT6			M T C	C A A C C V R R	V E K A L A G L	D G V V A S V N L A T G
UniRef90_G5MES3			M S C	A S C C V T R	V E H A L Q S V	P G G V T S Q A N V N L A
UniRef90_U7PAA2	M E K A E F K	I S M S	C C A A C C S S R	V E R V E K L	S R T E Q G I G V E T D E A S V N L A	
UniRef90_UPI0002B47766	K V V V V	R V I S M S	H C C	N G C C A R R	V E K H I S K	R T E Q G V E S A W K V D M E
UniRef90_B9NM16	A A T H T A R L	H V D M S	C C A S C C V S R	I E R V L L	A M P G G V T S E A A L N L A	
UniRef90_A6EUQ1	M Q K I E I G I E	M S C	A S C C V G R I	E E K A L A D	Q H G G V D T A Q V E V E	
UniRef90_K4AFG3	S L Q T V E L K V R	M C C	A S C C E R V	V K H A L T	K L R G V D T S A V E V E	
UniRef90_J7LEA8			M T C	A A C C A N R	V E K R L N K M Q	G V T A S V N F A T E
UniRef90_A0A031GUA4			M S C	A S C C V I G R	V E K A L A A V	P G G V T Q A S V N L A
UniRef90_I6YJ8	M E T T D	L R L H	M S C	A S C C A S R	V E K G L N K I	A G V N A R V N L A
UniRef90_R7BZG9	M T T Y	V L T V N	M H C	T H C C S G S	V E K A L S A V	A G V T K A A V D L E
UniRef90_M3JT74			M S C	A S C C V S K	V E K A L N A V	P P G V T R A S V N L A
UniRef90_F2IVU2	Q R	I V L D V I T	M H C	R S C C V G R I	E Q A L A G L	P G G V G G V A V D L A
UniRef90_S8CID5		V E M W V E	M D C	P A C C Q A K	V L K T L S R I	T G V H D V Q I D G E
UniRef90_G7M9I9	M S K K A F R I E	M T C	S A C C A N R	V E R F V K K L	L E A F	G V N I A N V N F A
UniRef90_X5DE28	M Q T K T	K V E M T	C C A S C C V S R	V E E K A L Q Q V	A T G V S Q A R V N L G	
UniRef90_E0LTX9			M T C	C T A C C A Q R	V E K A L E K V	E D G V Q E A E V N L A
UniRef90_E0RTR5	G E	V A V K T Y R	V E M S C	C T A C C A N R	I E K A L N R T	D G V E E A N V N L A
UniRef90_UPI00034D49EE			M T C	C A S C C A R I	E E K A L R R V	E P G V I E A T V N L A
UniRef90_A5UZS5			M T C	C A S C C A R I	E E K A L R R V	E P G V I E A T V N L A
UniRef90_F2JKA8	A P	Q Q Y T F K V E	M T C	C A S C C A N R	I E K V L V K K L	P G G V I E S S N V N L A
UniRef90_C0W219			M T C	C A S C C V R R	V E E K K L	P G V K A E V N L A T E
UniRef90_R9VVD5		H T I A L D L D	L S C	C G H C C V K R	V E K E S L E K	R D V E Q A D V T I E
UniRef90_H5VXY9	A A E	H E I E L A I S	M T C	A S C C A M R I	E R E K L N K K	D G V S A T V N Y A T E
UniRef90_UPI0003736D15			M T C	A A C C A G R I	E R V L N K K S	G V S A N V S Y A N E
UniRef90_B3PFX1			M T C	A S C C V A R	V E E K A L R A V	P G V I D A T V N L A
UniRef90_UPI000374AC1B			M T C	A N C C V S R	V E R A L K K V	D Q G V L D A S V N L A
UniRef90_UPI00037341DB			M S C	A S C C V S K I	E G A L M Q L	V D Q G V E S A A M N L A
UniRef90_K4N654			M T C	A A C C A G R	V E R A L K K V	A G V Q E A S V N L A
UniRef90_UPI00047BEB0E	T M T K T	L K V E M M	C C A S C C E A R	V E K A L E A V	A G V E S A A D H N A N	
UniRef90_N6ZX90			M N C	A S C C V A H	V E K A L L K V	E G V E Q A A S V N L A
UniRef90_S8CAW9			M R M D	C E G C C V L K	L S K A L T S L	K R G V E S V S V D V K
UniRef90_A0A022RZ40	F	V L F M D	L H C	V G C C A K K I	E R S I L K I	R G V E G V S F D M K
UniRef90_R9NGB1			M S C	A S C C V T R	V E Q A L T A V	P G G V S A V N V N L A
UniRef90_W5F4A3	D	L Q T F V L R V I T	I H C	H G C C K K	V E K V L K S V	E P G V S A V N F A T E
UniRef90_A1K567			M T C	C V A C C A Q R	L E K V L G R L	P G V S A V N F A T E
UniRef90_R5GV67			M M C	Q H C C V K A	A T K A L E G V	A G V T A V T V S L E
UniRef90_S3N779			M T C	A S C C V G R	V E E K A L S K V	T G V Q R A Q V S L A
UniRef90_UPI00016B0569	T Q S F E F D	I A M T	C C A S C C V G R	V E E K A L A Q V	P G V A R A T V N L A	
UniRef90_R5D5G3			M S C	A A C C S T R	V E K A V L K V	D G V T S C S V S L L
UniRef90_H1A2G4	E F S	V E M S	C C Q G C A D A	V R A A L D A A	P E V V K L L E L R P Q	
UniRef90_UPI00047A2CDB			D M T	C A S C C V S R	V E E K A L K Q L	P G V L S A E V N L A
UniRef90_U5FXP8	Q E	I V L K V Y M H	C C A S C C A R K	V R R W L K G F	F N G I	G E E A S V N L A
UniRef90_I0JMB4	Q T D K	V E L D I H	M T C	A A C C S T R I	Q K G L S R M	N G I G H V D I D A T
UniRef90_B4KNU8			M T C	A S C C A D K L	R R A L Q	G I S D V S V N L A
UniRef90_A3W3W8	D T Q	H I K I A I E	M T C	A S C C V G R	V E R T L T D V	N G V S D V S V N L A
UniRef90_D3NZT7			M T C	C E G C C S A	C T R I L N K I	E P G V E S A T V N L A
UniRef90_M4B1N9			M T C	C E G C C S S A	C T R I L N K I	E P G V E S A T V N L A
UniRef90_C3KQE1			M T C	A S C C V R R	V E K A I A A V	P G V A S A N V N L A
UniRef90_K5Z1H3	Q F D	V D M D	C C Q G C C V R	S I T E A L R K L	D P N V H V V	A D L E
UniRef90_F7R154			D M T	C A S C C V G R	V E K A L T K L	P G V E A N V N L A
UniRef90_B6U4D0	M R	V Y M H	C C E G C C A R K	V K K I L K R F	D G V E D V V A D S K	
UniRef90_Q1M656			M S C	A S C C V G R	V E R A I K A V	P G V D T A S V N L A
UniRef90_UPI0002E91C79			M T C	A A C C A G R	V E K A L A G V	P P G V T R A S V N L A
UniRef90_X8IR27			M S C	A A C C A H	V E K A V S K V	P P G V E S V S V L L
UniRef90_UPI00047935E2			M T C	A S C C S A R I	E R K L S K V	T G V E S A T V N L A
UniRef90_R1DD50	P T T T	L S V E M M	C C H C C	T G K V L S A V	A G V E G V V V	D L K T
UniRef90_UPI00042QDL0	T E K A E F D	V G M T	C A A C C S N R I	E K V L S A Q	D G V E K L A T V N L A	
UniRef90_UPI00036CF7C5	D	V E H I V T F N	V E M T	C A G C C E A S V	K N E L G K L D	G I V E S E V S Y D
UniRef90_B9L2L2	S T	P V V R L A I E	M T C	A S C C V R R	V E R A L A S V	P G V T A E S V N L A
UniRef90_W5CI02			Q V V V L R V S	L H C	K G C C A G K K H L	A K M E P G V T S F D I D L P
UniRef90_V5CA63			M T C	A S C C V N K	V E Q A L Q N V	P G V T T A R V N L A
UniRef90_L1PE58			M T C	A S C C V R R	V E R K L G K L	D G V Q A Q V E N L A
UniRef90_B9GPP0	M E T	V E L K V E M V	G I H	C E K R L E K	C L S K L	K D G V E D V V A D T E
UniRef90_UPI000371AB36			M S C	G H C C V R A	V T Q A L Q A R	D P Q A R V Q V D L G
UniRef90_J4QZ51			M T C	C G H C C V K T	I T G A V S Q A A	P G A T V A V D L P
UniRef90_E7MN99			M M C	H C C E K A I	T G S A L E K I	D G V A S A E V S S K
UniRef90_C5KBN5	K	I T E I R A G	M T C	S G C C S G A I	T R I L S K T	N G V E S I E C D V D

UniRef90_D3G111 A N Q A Q V E A D E T S E A I I K A V 60 E K A G Y D A K 70
UniRef90_UPI000420323F T E K A T V S G A V D V G A L E A A V R D A G Y A V R K A A V
UniRef90_W7VZQ8 T E K A S V I R S T V P V T A L K A A I E K A G Y S A K D L Q E
UniRef90_W7W8L5 T E Q A S V I R A S V T A D A L A A A V R K A G Y D V A T T E T
UniRef90_UPI0002889D5D A E S G T F P G I T D P D A I Y A R V K K L G Y K A
UniRef90_B0KLD8 T E K A R V L A P A D S P A L V D A V R E A G Y G V
UniRef90_R5YMX2 T N S M I V E G N V N S P K V I M K A V E D A G Y K A K P Q E
UniRef90_N8VNH8 T E K A V I Y A H L D R A T L I K A V E K A G Y E V E A
UniRef90_D4DW41 S A K V T G D A D P Q A T L I E A V E Q A G Y
UniRef90_W3XDF3 D Q L V A V E G T A A P S A I V S A V E A T G R D A
UniRef90_R7ILK6 G A K A V K A D V T A D A L V K A V E A A G Y G A
UniRef90_UPI0003683FE4 N E T A Q A Q L D A P E S D V M T A L D E A G Y P A R T Q D V
UniRef90_Q7XE25 G N K V V V T G A D A A E L K E R I E R T K K A V I Q
UniRef90_I3IAJ9 T E R A H L T L T H P V N T L V I E K V E Q A G Y N A K L A Q
UniRef90_UPI00042B04D8 G D R V I V K G N A D P L K I L E R N V K K
UniRef90_UPI0002B427C8 T H R K V V V K G E A D P V K V L N R L Q R
UniRef90_K0PYP6 T E R V T V R G A V Q T Q T L E A A V R N A G Y E V R
UniRef90_D2BUM6 Q Q A A V V T G D A D P Q T L V A A V E Q A G
UniRef90_Q5V8C5 N Q Q V K V T G D V P Y E T V L E K I K K T G K E
UniRef90_F2NR73 T E K V S V T G Q G D L S A L L E A V Q E A G Y T
UniRef90_B2T9T3 T E R A R L E S D V D P E T L A N A V R K A G Y D A
UniRef90_G8W0V4 E A H V T G S A S A Q A L I D T V K Q A G Y G A
UniRef90_UPI0004776C4E K A T V H A P D S A S E Q D L V T Q I E R A G Y G A
UniRef90_F2LPQ9 G K T A S V S A E V G A A S L V E A V E R A G Y P A K A
UniRef90_A0A022MHT6 S A R V S H P A D I S P L R L V A A V R Q A G Y T A R
UniRef90_G5MES3 E R T A L V M G S A S A A D L V Q A V E K A G Y G A E A I E
UniRef90_U7PAA2 T E K A S I E S H V I D M D V F F E K V K Q L G Y E P I A L E E T
UniRef90_UPI0002B47766 R E T V V V T G D V F P F E V M Q C I S K V K S V E I L
UniRef90_B9NM16 D K S A T V E G T T D P A Q L A R T V T K A G Y P A H P A R
UniRef90_A6EUQ1 T G K A T V E F D Y T P V S L V D S I K D T G Y Q V I Q S A E
UniRef90_K4AFG3 M E K V T V T G V D R H R V L K E V R R A G K K A
UniRef90_J7LEA8 K A K I T F E G E A S V I E D L V A Q V E K A G Y T A
UniRef90_A0A031GUA4 T E V A K L S S D I P L A T L Q A A V E K A G Y T V A Q R E I
UniRef90_I6YJ8 S A R V E H D G S V T G E D L V K A V E S V G Y T A Q
UniRef90_R7BZG9 S K K A T V I E G E V N P E A L K A A V T D A G F E V
UniRef90_M3JT74 T E R A H V Q G Q V P L G D L T K A V E T A G Y E A R S L E E
UniRef90_F2IVU2 R K Q V E V D P V T T P A T L V E T L E R L G F G A
UniRef90_S8CID5 T R K V S V I G W A D Q E K L L K T V R K T G K K A
UniRef90_G7M9I9 T E T L N V I E F D L N S E N I E G A V V K A G Y G V K K
UniRef90_X5DE28 E K T V T L E G D I D L E X V K E T V E S I G Y K A
UniRef90_E0LTX9 E R S A L V L G N A D P H Q L V A A V D A A G Y G A Q
UniRef90_E0RTR5 S A R V V L E E E V P D E V L A H A V E E A G Y
UniRef90_UPI00034D49EE T E N A T I P N S I S V D T I Q K I Q K L G Y D A Q L K K E
UniRef90_A5UZS5 S E R A T V P S D A G W S D L V A A I E R A G Y G V
UniRef90_F2JKA8 S E K L T V K V D V K T S Q I K A A V E K A G Y K
UniRef90_C0W219 T A R V T L P A S A D G S E L V E T I V K A G Y S A Q
UniRef90_R9VVD5 R A E V T G S A S A D A L I E T I K E A G Y G A
UniRef90_H5VXY9 K A T V S Y P E G T Q P D R L I E E I E A A G Y S A
UniRef90_UPI0003736D15 S A E V D F D G V I T L D V I E A I H K S G Y A V R A
UniRef90_B3PFX1 T E K A H I N A G I S R A S L V S A V Q K A G Y D V R
UniRef90_UPI000374AC1B T E R A T V P S A V S P G Q L K A A V R E S G Y A V
UniRef90_UPI00037341DB Q G T V T I T G D A P V A T L K A V S A A G Y G A K S
UniRef90_K4N654 N E Q A R I E A P Q D A P A L R E A I T R A G Y G V
UniRef90_UPI00047BEB0E T A V V T L S A D V A D D V L K K A V E D Q D Y K V L G V E
UniRef90_N6ZX90 T E T A T V R A S A T V P L S A L J A A V E K A G Y A V R
UniRef90_S8CAW9 Q K K A T V V G Y M E A E E V M K A V G K R G
UniRef90_A0A022RZ40 K N E V T I K G V V E P Q A V C N R I M K K T K R S A K V L
UniRef90_R9NGB1 E R T A L V T G D A G A G A L I E S I Q R A G Y D A
UniRef90_W5F4A3 L H K V M V T G T V D A E T L I K R L H K
UniRef90_A1K567 R A T V R Y T P G L S A D A I K A A V V R A G F E V
UniRef90_R5GV67 D K Q A V V E G S A T D E A L I T A A I V D A G Y E V K G I E
UniRef90_S3N779 T E Q A T I E S S V T T D Q L I Q A A V A R A G Y Q A
UniRef90_UPI00016B0569 T E K A A V D A D A D A H V L I D A V K R A G Y R A
UniRef90_R5D5G3 T N S M G V D G T A T P E Q I I E A V E K A G Y G A
UniRef90_H1A2G4 E Q S V L V E T T A A A E R V Q E L L E N S G R A V L K G
UniRef90_UPI00047A2CDB T E T A E V R G S V T L P Q V V A A V E K A G Y R A
UniRef90_U5FXP8 A S K V V V K G E A D P L K V L E R I E K S H R Q V
UniRef90_I0JMB4 T E A G V I E G L V S T D Q V I E K I K D L G Y D A
UniRef90_B4KNU8 E G R V I Q T T A P W S E V Q D K I E S T G R A V L S G
UniRef90_A3W3W8 N E S A D I T E G A D F S V A T A L E S I G Y P L R T
UniRef90_D3NZT7 T E R A H V V D S L D G A D L V A A V E R A G Y G A
UniRef90_M4B1N9 K K E H V E G D A D T N E M L Q A L L K W S K A S G K S V
UniRef90_C3KQE1 T E R A T V Q G A P D T Q A V L R A I E K V G Y E
UniRef90_K5Z1H3 S K R V V I G G E I D A G R A A E A I E A A G F D V K A A
UniRef90_F7R154 T E R A R V R G V V S A A E L E A A V E Q A G Y K A H
UniRef90_B6U4D0 S H K V V V K G A A D P M R V V E R V K K T G R K V
UniRef90_Q1M656 T E R A T V T D T V D A A A V L Q A I E G A G Y E A R
UniRef90_UPI0002E91C79 T E R A T I E T E V T A S R L I A D A V K Q A G Y G A
UniRef90_X8IR27 T N S M G V E G N A D A E R I I K A V E D A G Y G A
UniRef90_UPI00047935E2 T E K A L V T A P V T V D Q I L A E V K K T G Y G A
UniRef90_R1DD50 G S C A V V T G S A D E A A L V E A V V D A G F K A
UniRef90_A0A024QDL0 T E S A T V E G L V D Q K A L I E K I R N V G Y D A K
UniRef90_UPI00036CF7C5 S G T A T I K T K L T E K E L Q D A I N K T G F T A N L Q Q E
UniRef90_B9L2L2 T E E A A V T P D V A V E E L T T A I E R A G Y H A R
UniRef90_W5CI02 S K K V T V V G
UniRef90_V5CA63 E R S A L I S G H A E P N A L V A A V E K A G Y G A
UniRef90_L1PE58 S A R I T L K H D Y S D A Q L E E V V K A A G Y E V R S
UniRef90_B9GPP0 L Q K V V V T G Y A H R N K I L K A I R R R G L K A
UniRef90_UPI000371AB36 T G E V R V E G S L S D T A V L E A I R E E G Y Q A
UniRef90_J4QZ51 T H R V T I T G T D Q A D K L E A A I R D A G Y E
UniRef90_E7MN99 Q A L V T L N K E V P N E E L R K A V E A E D Y T V T G I E
UniRef90_C5KBN5 K K Q V L V H H S V T A D Q L V I E K L K

	1	10	20	30	40
UniRef90_Q49BF7		MT	CA	AG	CV
UniRef90_M0SJ61		MH	CE	GC	AR
UniRef90_G9Y5D5		LS	CC	AS	HC
UniRef90_UPI0003B4D56A		MD	CC	AS	CC
UniRef90_N1PFP1			LS	CC	ED
UniRef90_D2JC1I		TFAV	VP	LS	CC
UniRef90_I9BYF3		TEK	V	D	L
UniRef90_I1E097		MNT	Q	V	F
UniRef90_S4MFM5		T	M	K	L
UniRef90_UPI0003B3CC03		Q	S	E	L
UniRef90_UPI00036073D0			MT	CA	AG
UniRef90_A0A058ZM00		MT	CA	AG	CV
UniRef90_B7RHB2		L	H	CA	AG
UniRef90_A9T5B2		I	Q	E	I
UniRef90_A7GL63		T	K	K	V
UniRef90_M8CWW1			MT	CA	AG
UniRef90_W0Q4S9			MH	CA	AG
UniRef90_G8ZQC8			MH	CA	AG
UniRef90_W2BPY5		K	V	I	D
UniRef90_C7RHQ4		S	E	L	N
UniRef90_S5TWV9			MT	CA	AG
UniRef90_X0P0C5			MT	CA	AG
UniRef90_Q1GEV4			MT	CA	AG
UniRef90_K2N1Z1			MT	CA	AG
UniRef90_M7Z9J8			MT	CA	AG
UniRef90_G8AL10			MT	CG	GC
UniRef90_H1SDN2		I	Q	F	Q
UniRef90_UPI0004693284			LS	CC	AS
UniRef90_U5EJ42		K	I	E	F
UniRef90_D8RD10		T	K	V	I
UniRef90_V5P163			MS	CG	GC
UniRef90_Q5P0V9			MS	CG	GC
UniRef90_UPI0003A83626		P	V	V	T
UniRef90_Q9M8T7		E	K	T	A
UniRef90_UPI00046A2DFB		Q	T	Y	T
UniRef90_W6WEM7			MT	CA	AG
UniRef90_UPI000417E47F			MS	CA	AG
UniRef90_N0B410		T	R	E	L
UniRef90_L7VWX0			MT	CA	AG
UniRef90_Q0BQB5			MT	CA	AG
UniRef90_A9AY76			MT	CA	AG
UniRef90_UPI0002C64982			MT	CE	GC
UniRef90_K8EPC0		I	E	F	M
UniRef90_F2E8Z2		V	V	L	R
UniRef90_UPI0003F9E63D			MT	CA	AG
UniRef90_A4GA66		Q	E	I	E
UniRef90_R9C411			IG	MT	CA
UniRef90_M0U957		L	Q	R	V
UniRef90_A0A011NL12			MS	CA	AG
UniRef90_D5X910		Q	V	V	L
UniRef90_B9SCH8		A	P	V	T
UniRef90_R5CL65			MS	CG	GC
UniRef90_Q9SJJ2		F	V	Y	K
UniRef90_A3W8U3			N	M	S
UniRef90_A4EQI5		E	Q	H	Q
UniRef90_UPI00047AE73F			L	K	V
UniRef90_R5EX68		K	L	K	F
UniRef90_A9WH06		M	N	K	Q
UniRef90_Q0W4B5		E	E	K	V
UniRef90_E6PTA4			MT	CA	AG
UniRef90_H2CHU6			MT	CA	AG
UniRef90_E4U722			MT	CA	AG
UniRef90_A1W600		M	K	T	D
UniRef90_L5NCV9		Q	K	E	Q
UniRef90_G4NXH6			MT	CA	AG
UniRef90_Q97VH4			V	G	M
UniRef90_W1PQ36		L	K	V	Y
UniRef90_W0TLH2			E	M	T
UniRef90_R6ZD14		T	M	K	V
UniRef90_R6UE75		K	Q	Q	T
UniRef90_K1VNX3					
UniRef90_R9JC35		M	E	Q	Y
UniRef90_E1QLA5			V	G	M
UniRef90_H0PWF4		Q	L	E	L
UniRef90_C8WRD9			MT	CA	AG
UniRef90_UPI00046E9E2A		T	T	Q	L
UniRef90_UPI0004088FD7		E	K	E	Q
UniRef90_UPI00037E3D25			MS	CA	AG
UniRef90_W2RNG4		D	T	A	Y
UniRef90_UPI00040CE724			MT	CA	AG
UniRef90_W7Q386		T	H	R	L
UniRef90_M5DFW8		Q	S	V	Q
UniRef90_UPI0003C7F537			MT	CA	AG
UniRef90_Q121P5		M	E	L	K
UniRef90_UPI000288FAD8		K	N	I	T
UniRef90_L9W153			MT	CA	AG
UniRef90_U9T134			LS	AG	GC
UniRef90_I7DLG6			MS	CA	AG
UniRef90_D5EBH3			MS	CA	AG
UniRef90_D3QH62		S	H	T	K
UniRef90_A0A024PXH9		S	T	T	A
UniRef90_D3LTP4			MT	CA	AG

UniRef90_Q49BF7
UniRef90_M0SJ61
UniRef90_G9Y5D5
UniRef90_UPI0003B4D56A
UniRef90_N1PFP1
UniRef90_D2JC11
UniRef90_I9BYF3
UniRef90_I1E097
UniRef90_S4MFM5
UniRef90_UPI0003B3CC03
UniRef90_UPI00036073D0
UniRef90_A0A058ZM00
UniRef90_B7RHB2
UniRef90_A9T5B2
UniRef90_A7GL63
UniRef90_M8CWW1
UniRef90_W0Q4S9
UniRef90_G8ZQC8
UniRef90_W2BPY5
UniRef90_C7RHQ4
UniRef90_S5TWW9
UniRef90_X0P0C5
UniRef90_Q1GEV4
UniRef90_K2N1Z1
UniRef90_M7Z9J8
UniRef90_G8AL10
UniRef90_H1SDN2
UniRef90_UPI0004693284
UniRef90_U5EJ42
UniRef90_D8RD10
UniRef90_V5P1G3
UniRef90_Q5P0V9
UniRef90_UPI0003A83626
UniRef90_Q9M8T7
UniRef90_UPI00046A2DFB
UniRef90_W6WEM7
UniRef90_UPI000417E47F
UniRef90_N0B410
UniRef90_L7VWX0
UniRef90_Q0BQB5
UniRef90_A9AY76
UniRef90_UPI0002C64982
UniRef90_K8EPC0
UniRef90_F2E8Z2
UniRef90_UPI0003F9E63D
UniRef90_A4GA66
UniRef90_R9C411
UniRef90_M0U957
UniRef90_A0A011NL12
UniRef90_D5X910
UniRef90_B9SCH8
UniRef90_R5CL65
UniRef90_Q9S JL2
UniRef90_A3W8U3
UniRef90_A4EQI5
UniRef90_UPI00047AE73F
UniRef90_R5EX68
UniRef90_A9WH06
UniRef90_Q0W4B5
UniRef90_E6PTA4
UniRef90_H2CHU6
UniRef90_E4U722
UniRef90_A1W600
UniRef90_L5NVCV9
UniRef90_G4NXH6
UniRef90_Q97VH4
UniRef90_W1PQ36
UniRef90_W0TLH2
UniRef90_R6ZD14
UniRef90_R6UE75
UniRef90_K1VNX3
UniRef90_R9JC35
UniRef90_E1QLA5
UniRef90_H0PWF4
UniRef90_C8WRD9
UniRef90_UPI00046E9E2A
UniRef90_UPI0004088FD7
UniRef90_UPI00037E3D25
UniRef90_W2RNG4
UniRef90_UPI00040CE724
UniRef90_W7Q386
UniRef90_M5DFW8
UniRef90_UPI0003C7F537
UniRef90_Q121P5
UniRef90_UPI000288FAD8
UniRef90_L9W153
UniRef90_U9T134
UniRef90_I7DLG6
UniRef90_D5EBH3
UniRef90_D3QH62
UniRef90_A0A024PXH9
UniRef90_D3LTP4

R A R V N H P E V G P D Q L I A T V
S R T V V I K G A A D P A K I C E R I
E A K L Y G S A D A T V L T E A V
T E R A T V P G L V I E R A D F R T A V
S Q L T S I T G N A A P S A I V S A I
T E S A T V E Y N P D V D E F Q Q R I
G G S A T V A G K V E P A A V V A A L
T D T A T V D G N A G F N D L S A A V
K A R V I T P V G T E V A D L I A T V
K A L V L A P T G L T A A D L I K V V
Q R T V S V K G N A E A A D L V K A V
N N T A S V T T T V K P V F L A E T V
L K R V S V H G D V P D E T I T A A I
S S K V T V S G K V D P Q V V L K Q I
M N T A T I D G N L T I E A I L D K I
T E T A V I D Y N V S V N D L I K V V
D Q T A F V Q G N A P S E A L I A S V
Q Q I M S V N G N V A P S S I I S A L
R A H V V T S V G V G V D D L I G V V
N K E A N V E G S V D E N E I S K A I
Q R T V T V E G N V T T E A L V K A V
E R T A L I A G S P N I E Q V I Q A V
N E T A Q I T A E S P E A L Q Q A L
T E K A T I S Q G A V D E A A V M A I
M Q K V T V S G D V D Q K K V K T V
A G T V A V E G G V A P E T V K K A V
A Q A V T V E A A S S G Q A L R D A I
E A R I S G S A S A D D L I A A V
K G R V V I E S T M P W S E I Q E K I
K N K V T V T G T V E E K E I V K K I
T E R V T F K G T P D L P A V I E A I
K A R V N F S A E A G P A E V V A A I
T Q Q A T V R F A D K P D A G L E A I
K S T V V V R G V M D P P K L V E K I
T A R M T L G G A S T L D A A I E A L
T K K L T V E S T F S P E D L E K A I
T N S M G V E G S A S P E E I I K A V
S E K A S V E G I L L K A A D L I A A V
Q A T I D F K G Q Y R T N D Y V N E I
S H R A L Q B Q B 5 G S A R I E T L V A A V
T E T A S I P D Q A S L E Q I K A A V
T K K V C T D C E H S M D T L L E T P
T N T V R V L A T S S V K T V E E K I
A N R V V V A G T A D A A A L K A R I
T E K A T V H Y D V K L A T I R Q A I
T A R I K V S G A T S A A A L I A A V
T E K A S V E G S T N V D Q L V N M V
L P K L T V I G N V D V G L I K K L
R A Q V E I A G D T T A T Q V V A A I
T G K A T V D Y D V G V S D L V K A I
K E T V T V K G S M D V K A L T E A L
T N S L G V E G S A A P E A V I R A V
G N K L L V V G K I D P V K L Q E K L
T A Q V R I D S E T R I P E L T I D A L
N A R A V V E S D L P V S K M T E A L
T K D V T I S K D L D E Q L V L V N A I
A G T M Q V E G N V V P A I I K A V
T A R L H V A G D V D P A T V I A R V
T E Q A T I P S I V T V N D I R K I V
T E R A S V P A S V Q P A A I R A V
T E K A E L R D N A A L Q S A L I R A V
T E K A T L E P E A E L E P L L E A V
S G H V R V S G E L A S A P L L M A L
T E A G F V E Y E V S I D D L I A K V
L E K S S I T S K L S E A D F E K K I
T A K V I L S G N V R L K E L V K A V
T H K V V V K G K A D P L K V C E R V
N Q S A L V T G G D P Q A V V A A I
K G T V Q V D A S V T E E E L K K A V
M N T V R I T T K K N F E A W A A V
N K R V T I T G K T P P S Q L L S A L
T N S M N V E G S A T E Q E I L E A V
A E T V H V V Y D V G P E Q M A K A V
R A V L R Y P G L V S A D D I G Q A V
R A R V V L T P D T R P W T E V V S R I
Q A Q V T G T A R A A D L I A R I
N E T A Q V S G V L Q L S D I I G K I
T A H I A L E G D A T A A Q A Q E A I
S G T F E V K G R A N V D Q L L E S I
K A T V D Y D A A V S V Q D I T T K I
T R V A Q V H G R A E V E A L V Q A V
I A H V R L N G A T M V D N L I A A V
K A Q V R A P E G V D T E A L I A E V
R K K V M V Q T T Q D R Q K I A A A L
T E R A T V E E A T S A K D I V E K I
S G R V T V T D G A D S E T V L G A I
D E Q V K V E Y D I T E D K I E A I
T A R I V V S P E V S A E D L R G A L
K A D I I F D S S I D P E G L I K V I
Q A H I E Y D P N Y S L Q A F L I Q I
E K R L D V T T S L D A A R L S A L L
A H T A T I I G S F T P D E L A P V I

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

UniRef90_W4M408 1 M A T T Q L D V P M T C A G C A A R I E N G L R T F 30 P G G I Q T A Q V N F A 40
UniRef90_A4XG38 S M V K K T I V L K V D M S C C L K C A R A I E K S I S S S L L Q P G G I K E V I S V N F A
UniRef90_UPI0003DEA006 M S E I V L K V D M S C C L K C A R A I E K S I S S S L L Q P G G I K E V I S V N F A
UniRef90_A4J6F3 M Q Q Y N V T M T C C A A C C A R A I E K S I S S S L L Q P G G I K E V I S V N F A
UniRef90_R6K133 M Q Q Y N V T M T C C A A C C A R A I E K S I S S S L L Q P G G I K E V I S V N F A
UniRef90_QOZKH9 M Q Q Y N V T M T C C A A C C A R A I E K S I S S S L L Q P G G I K E V I S V N F A
UniRef90_UPI0003194E94 E F Q V D M T C C G H C C V S T I T T K A I K G A D A N A D S V V Q V E V D L L A
UniRef90_R7N4I3 T I K T V R I K G M M C E H C C E N H V V K T A L E A L P G G V L E A V V S H K E
UniRef90_W9T8P6 M N T S T L L K V G M S C G A A C C A N R I E R K L E N R L P A G V I T T A S V N L L A
UniRef90_B0TE74 A A V A K V T L L V S M T C C A A C C A R A I E R K L E N R L P A G V I T T A S V N L L A
UniRef90_L7WZ70 M A K E T L S I S I E M T C A S C C V Q T V E K A T K K M P G G V Q E S N V N L L A
UniRef90_A0A031ZM4 F K V Q M T C C G A A C C A R G I T S A L Q R R V D A K A V E S V N V N L L A
UniRef90_T0BWB3 M T C C A A C C A S A R I E T E K V V S R V K P G G V G D V T V H V N L L A
UniRef90_K8NP86 M D C C A S C A T K I E E N A L Q R R M D P G G V G D V T V H V N L L A
UniRef90_UPI0002487B62 M T C C T S C A S A R I E E N A L Q R R M D S G V D A T V E N F A T E T
UniRef90_I3RAY9 S T R R I T L S V D M D C P S C C A G K V E E N A L A D T S G V L D Y E T R P T
UniRef90_V7CZS6 V V L K I R L H C E G C I Q K I R R V I L K I K D P G G V E S V N I D A S
UniRef90_A0A031GT63 Y Q L Q V N M S C C G H C C V G S V T T K A V Q A I L D P Q A Q V S V N L L A
UniRef90_U2UUC5 Q Y N V S M S C A A C C Q V H V E K A V S R L P G V K S V S V S L L L
UniRef90_W5YBB9 M S C A A C C A A R I E K L N R L P L T Q A S V N L A T E
UniRef90_UPI0002556EB1 T T E L A I D M T C C A C C V G R I E K A L A K V P G V L K A T V N L L A
UniRef90_S7VIR6 M H C E A C C Q G R I E R V L S R T E P G V D R K V S V N L L A
UniRef90_V7C775 P E I V L K V D M H C E A C C A R K V A K A L K G F Q G G V E D V T A D S R
UniRef90_UPI000463FF0B L S T V E L G I G M H A S C C V A S V E R S L S R V P G G V S A H V N L L A
UniRef90_R7CLD6 E M T T I T V N V T M M C C G H C C E A H V E T K A V K E A F G G V E D V V S S H E
UniRef90_D6V552 M T C C A T C C A G R V E K A L R A L P G V D A T V N L S S E
UniRef90_UPI00040C2EB6 M T C C A A C C A G R V E R A L R K V P G V R A S V N Y A T R
UniRef90_Z5XDM9 H R V E L D V S M S C A A C C A R V E T K L N K V D G G V Q E K V D T D N P
UniRef90_UPI00035CAC3B M K T Y K F K T T I N C G S C C V R A V E P H L N K L L E D D G G V Q E A T V N F A T E
UniRef90_X5DQU9 M T C C T S C S G R V E R K L N K L L D D G G V Q E A T V N F A T E
UniRef90_Q8ZCA7 M S C A A C C V S K V E R N A L Q R V L D G V Q V A R V N L L A
UniRef90_L0F669 M T C C A A C A K T V E R V T R K L E R G V V N E A D V N L L A
UniRef90_V7ASR0 S E A V T V E L K I S M H C E A C C A E Q L K R K I L K L L D G V V K T A V A E L L A
UniRef90_UPI000479EA9C K V E F D V I G M T C C A A C C A R I E R K R G L E K L R D G G V Q T V H V N L L A
UniRef90_I4DAG7 M T C C G H C C K S S V E K A L L K V P G G V T Q A E V D L L A
UniRef90_B9IFR1 V Y K M D H C E G C A K K I R H A V K H F D G G V V S V K T D Y A
UniRef90_V4KQN7 T V V M K L D M H C E G C A K K I R R L K H F D G G V Q D V K I D Y A
UniRef90_Q8TR42 L K E I T L G V S M T C S A C C A L N I E K V L K K K E G V V A S V A V N L L A
UniRef90_Q3A467 M K A R E L G I R M S C A S C C V A Q V E K A I R S V P G D D A Q V N V N L L A
UniRef90_E8YIQ7 M K T E F E V E M S C Q H C C V A A V T N A I R E H D D A A Q V Q V D L L A
UniRef90_F6CQY3 T T Q T T W L K I E M S C N H C C K A A V E R A L K Q I D G V V K D V L V D L N
UniRef90_C3X8D9 M T C C G S C C A S I E R K V L S A V P G G V S G V S V D L L A
UniRef90_UPI00041E830E A D L Q S G T F K I G M T C A V C A S R I E K G L T K L A G V N K A V N F A
UniRef90_I9MKX6 V E V H C T S G C A K R I K R S L T R C K G V E A H V D M P
UniRef90_F2D215 M T C C A S C C V N T I E K A L M S V I S G I S H A H M N L L A
UniRef90_E4PG46 T F S V E M S C C G H C C E K H V K E A L E A I E G L T S A T A S H E
UniRef90_H7EN49 M T C C G H C C V A A V T R A V A Q V D A A A Q V Q V D L L P
UniRef90_B5SLA1 T F S V E M S C C S C C V R R V E K A I A A V P G V R S A S V N L L A
UniRef90_UPI00037F82CE K M K C G C C A E A V T A A L R K L D A E A P V V D L L A
UniRef90_D0B2Z7 L T R V D L D V Q M T C A S C C A M R I E R K L G R M P G V E A S V N Y A T H
UniRef90_M5B7Q1 M K Q K F D V T M T C S A C C A H V E K S V A K V K G V S A V A V N L L
UniRef90_U2ERF0 T Y N L N V D M H C S N C A R R V E N A L N S K D G V W A K V N L L
UniRef90_UPI0003B3521B M E K V N L S V S M S C A S C C V A S V E K S I K K V D P G V E E A Q A N L L A
UniRef90_UPI000429667F M N C C G H C C S A S V E K A L A V D P G V T G V T V D L L A
UniRef90_C3X421 E P Q Y V E M M V P L Y S Y G C C E R K I K K A L S H T K G I Y S V N V D Y N
UniRef90_A0A059DDW0 I E F K V E M S C N H C C V Q A I T R A V R E R D P G V A S V T V D L P
UniRef90_I9BUL4 I E L K I T M T C A G C C E A G V A R L Q P G V A S V T V D L S
UniRef90_Q7NE34 M T C C A S C C A R A I E K S V S K V E G V S N V S V N F A
UniRef90_E4S6W7 S V Q I T R L P V Q M T C C Q S C C V G A I T T K A V S A M E G V D A V H V D L Q
UniRef90_S2JQV3 M T T F R E V K D M T C C G H C C V S T I T T K A L K S V D E Q A Q F T I D Q A
UniRef90_U8BIH5 M S M I E L K I T M T C A H C C V Q H V T K A L Q G V A G V D Q A E V D L A
UniRef90_T1BNW8 S S S H T V V L S I S M K A G C C V R A V E S R L T Q V E G V R S A T V N L V
UniRef90_UPI0004752465 M T C C A A C C V R R V E K K L G A L E G V R A T V N L A T G
UniRef90_UPI000366C7EE Y T W K I S M D C A A C C A R K V E N A V R Q I R G V N Q A Q V L F A
UniRef90_X3EXS3 M T C C A A C A T R I E K G L K K V D D G V E A N V N L A L E
UniRef90_UPI0003FE77DE E F K V S M T C A S C C A T R I E K V V N K M D G V D N A V V N L A
UniRef90_I8AN15 E F S V D M T C C G H C C E K A V T R A L A D A L P G A A V H I D L L A
UniRef90_H4F1S3 M K Q K F D V T M T C S A C C A H V E K S V A K V K G V S A V A V N L L
UniRef90_B0MD52 V E L K V N L H C E E C I K K I L K A I K K I L Q A D I E T Y N V D I E
UniRef90_B9S494 K F N V S M T C S A C C Q S V E K A V K N L K G V N E V S V N L L
UniRef90_U7UF12 S V A T I E L S L P M H C A G C C A A K V T R A L E A T P G A S D V S V S A I
UniRef90_A0A037ZIN1 M K Q Y N I T G M S C A A C C Q A R V E K A V S K L P G V S D C S V S L L
UniRef90_W2BY73 M T C C A A C C A S A R V D K V V T A V E P G V E E C A V S L L
UniRef90_UPI0003B6704E V Q D I D L A V E M S C A S C C A L I E M V L N R D E R V K T A S V N F A
UniRef90_V1CL88 M T C C A A C C V N R V E K R L A R I E G V S A T V N L A T G
UniRef90_G0A1U2 K Y N V T M S C A A C C A A V E K S V K K L E G V E D V N L L A
UniRef90_B4VBX3 L E K Y E W T V S M D C A S C C A S K I T K A V E R L P G V G T V N I S I M
UniRef90_UPI0004788003 M T C E H C C E Q R V A D A L A G V D G V E D A T A D R E
UniRef90_D4GS78 I E L M V D M T C H R C C V A A I D E A V K K N L P R S T L K K A S V E
UniRef90_UPI0004082BD5 M T C A A C C A A R I E K Q V S K V P G V R D V H V N L L
UniRef90_F4PJD4 A Q L H Y A E L Q V E M S C A S C C A R H I E K H V Q K L P G V T S I T V N L I
UniRef90_UPI000482BD5 M T C C V N C A I N I E R V L N K N V S G L V N V N F A
UniRef90_V4YXP8 T I E L G V T M T C T S C S G R V Q R K L N K L D G V E A S V N F A T E
UniRef90_E1YDS6 T T Q T I T L N I E M T C T G C C V K S V T R N A L N Q V A G V Q S V D V S L D
UniRef90_I7GXX3 M S C A C C V A A V E R A V G A V S G V D S V Q V N L L
UniRef90_C8PXN2 T K T I K V E M M H N C C E N H V K K A L E K I D G V E S V V A S H E
UniRef90_G2FBX0 T E T T E L D V G M T C A A C C S T R V E K I L N R T D G V S Q A N V N L T
UniRef90_UPI0003B3BE8F T V T M S V G M T C A S C C V A R V E R K L G K L P G V S A S V N L A T E
UniRef90_U1FPU5 M S C C G H C C S A S V Q Q A L G A L P G V S S G I V V D L N
UniRef90_J0NFS3 M T T V E L D V N M H C Q A A D Q L K K K I L K M R G V Q T T V T E Y T
UniRef90_C8S3U6
UniRef90_V4KLC1

UniRef90_W4M408 T E K A T L S E T L T T A Q I T G H I A D I G Y Q V
UniRef90_A4XG38 T E K A R V P S K L R L S E I K E A I K K A G Y T
UniRef90_UPI0003DEA006 K G T L T V T G D A D P Y E I T V R I R K A G K
UniRef90_A4J6F3 Q K E V V V T G S V P K E E I V K A I E E A G Y D V
UniRef90_R6K133 T N S M G V E G T A M A Q E D I I K A V E E D A G Y G A
UniRef90_QOZKH9 A G I V T V T G S V P P E E I H R A I E E E T G Y T V L S
UniRef90_UPI0003194E94 K H L V R V E G S A G G E I V A D A I R E A G Y T
UniRef90_R7N4I3 T A I L T T A G P L N E K Q V K K A V E E A G Y K V L S I K
UniRef90_W9T8P6 A G L V R T V G T A T R D A L L T A A L D T A G Y P A E A
UniRef90_B0TE74 T E K A V V V E G E V K A G D L L E A V V A L G F Q A R L A E A V
UniRef90_L7WZ70 T E K L N I E N T V S T I Q Q D I Q E A V D K A G Y K A L T D N E
UniRef90_A0A031ZM4 S K T V S V N S T A D V I Q Q D I L K R A I E K A G F A V
UniRef90_T0BWB3 S E K V Y L P G V A T E Q Q D V I R A V E K A G Y S A K
UniRef90_K8NP86 R G T V T V D G K A E N E K I Q N Q I S D L G Y R I T R V E E L
UniRef90_UPI0002487B62 S A Q V Y D P A K T T P E D D V I A T V R K T G Y D A
UniRef90_I3RAY9 T G K V T V A A D A R P E T V V A I E N A G Y E V
UniRef90_V7CZS6 K N W V S V N G T M D V N G M V A Y L E K L R R K V
UniRef90_A0A031GT63 S K R V S V E S P A E L G A I S A A I V E A G F P V T S A Q
UniRef90_U2UUC5 T N S M S V E G T A G D A E I E R A V E N A G Y R A
UniRef90_W5YBB9 R A H V F V P G I A D A D T F I A R I E K A G F G A
UniRef90_UPI0002556EB1 T E T A R V R H L A S P E A I E A A V E Q S G Y K S R S A E T
UniRef90_S7VIR6 A E S M E V Y D L S P E A I A E S V S K L G F E V
UniRef90_V7C775 T S K V V V K G A A D P I K V R E R L K K S G K K V
UniRef90_UPI000463FF0B N E R A T V L P S V D L A V L E S A I G K A G F K A R
UniRef90_R7CLD6 K G T I V I P E K L D E D K I R E V I K E A G Y E V
UniRef90_D6V552 Q A D V Q F D S A V A P A A L A E A V T R A G Y D V
UniRef90_UPI00040C2EB6 T E S A R L V Y G V P P D A L R R A I R N A G Y E P R A A
UniRef90_Z5XDM9 V A S V D A P D S V A V E D L C E V I R K A G Y D A
UniRef90_UPI00035CAC3B D K V L E V T S D L D A Q T I Q S T V E K A G F K A
UniRef90_X5DQU9 S A A V T Y D G K A D T D L T D T V R G A G Y D A
UniRef90_Q8ZCA7 E R S A L V T G T Q N T E A L I A A V T K N A G Y G A
UniRef90_L0F669 T E K L T I P S L V K V L D I K K A I E K A G Y K A I E E E T
UniRef90_V7ASR0 T G K V I V E T G T M D A N R L V D Y V R R T K K Q V K
UniRef90_UPI000479EA9C L E T A V V E S Q L T I E D I E M K V E S I G Y Q A
UniRef90_I4DAG7 H K Q A V V I G N A D S S L L A K S V H E A G Y K V
UniRef90_B9IFR1 G N K L T V T G K V D P A K I K A R V E E R T K K
UniRef90_V4KQN7 A N K L T V I G N V D P A A V R D K V A
UniRef90_Q8TR42 L G R A K V P S L I S P Q E A I G E A I E S I G Y K V E K D K V
UniRef90_Q3A467 M Q R A K F E L S A N V A A V T K A I R A A G Y E
UniRef90_E8YIQ7 A G R V V V E S T Q S V E A L K T A I D D A G Y T V K G
UniRef90_F6CQY3 N K M A T V T H N V T M E E L T R A V E R A G Y Q V
UniRef90_C3X8D9 A K T A T V N T D A S D D A L R T A V T G A G F A V K G
UniRef90_UPI00041E830E R A R V A A P D G V S A D D L V D V V K K T G Y G A
UniRef90_I9MKX6 A E K A T V S Y D V S V K E I G E K I E K L G Y Q V I K D K V
UniRef90_F2D215 A N Q V T L K G A V D P Q A L C A R L R K T K R
UniRef90_E4PG46 D N T A T A T G D A D P E S L V K A V E S A G Y G A
UniRef90_H7EN49 K A E V A T E T S V D E S A I K A A V E K A G Y E Y K G
UniRef90_B5SLA1 S Q T V A V I R S G A A T E A L R Q A I E Q A G Y P V K A C
UniRef90_UPI00037F82CE T e r A T I E G V A P R A A I R Q A I R K A G Y E P R R A D T
UniRef90_D0B2Z7 N K E V A Y G G T V A P E A V L S A L A A A G Y P A T S A Q
UniRef90_M5B7Q1 R A R V Q L P A G T S V E D A I R T I E R T G Y R A
UniRef90_U2ERF0 A N S M V V E Y D I G P D T I S K A V A D A G Y G A
UniRef90_UPI0003B3521B K K S V L V R A S L E E S E L S K I S D T G Y T V I S
UniRef90_UPI000429667F S H S A Q V D G S V S T E Q L T Q A V E K L G F G A
UniRef90_C3X421 G K T A T V E S G V S G E A L T A A V T D A G F Q V
UniRef90_A0A059DDW0 Q Q K V T V W G I C N K Y D V L E T M K A K R K E S R F W N
UniRef90_I9BUL4 T K T V N V G S T A E V A E L R Q A I E A E G Y T V T S
UniRef90_Q7NE34 T G R A I V E G D A D P E R L T A A V D A Q G F G V
UniRef90_E4S6W7 L E K L I V E S K A S I E K I K E A V E R A G Y G V L D D R E
UniRef90_S2JQV3 A A A A T I T Y S D L T L G D L K N C I E E C G F D V
UniRef90_U8BIH5 S Q R V T I E S T A D P Q T L R D A I A E A G Y T
UniRef90_T1BNW8 G G V A H V R G Q A D S A A L T A A V Q D A G Y A A R Q A
UniRef90_UPI0004752465 T E V A V V E G A V T A A D L A E A V T Q A G F K A
UniRef90_UPI000366C7EE T A R V E H P A D L G T D A L V A A V E S G G Y T A R
UniRef90_X3EXS3 T E K L V V D A D A D L A Q I E R A V Q K A G Y T L R S
UniRef90_I8AN15 Q S S L S Y D S S I T P Q A F Q Q K I E D L G Y G V
UniRef90_UPI0003FE77DE T E K M T V N F D K D
UniRef90_H4F1S3 A H T V S V E G D A G V A E A A I R E A G Y T
UniRef90_B0MD52 Q N T M T V E S E V N D D Q E I T R A V I G G G Y G A
UniRef90_B9S494 L N K V I V E T G N V T T Q E V I R V I H K I G K T A T T W E E
UniRef90_U7UF12 N N S M L V D D S I S Y K E I E E A V K N A G Y E A
UniRef90_A0A037ZIN1 S Q S A R L N V K G D P H T V L Q A L Q E V G Y P
UniRef90_W2BY73 T N S M G V E G S A N S D I I N A V E N A G Y G A
UniRef90_UPI0003B6704E T N S L T V E G T A D E T A V I K A V E A A G Y G A K
UniRef90_V1CL88 K H S M T L E S K T S V K E I V D T V K K A G Y D A R
UniRef90_G0A1U2 T Q T V N V Q G Q L S K N D V V E Q I E K L G Y S A
UniRef90_B4VBX3 R A R V S H P A A V T V G D L L A A V E R A G Y
UniRef90_J1H7Z0 S N S M T V E S I L D D N S I I S A V E S A G Y G A
UniRef90_UPI0004788003 S E K L K V D L D N D P E A I E S T I K K L G Y G V T R Q K Q V
UniRef90_D4GS78 A K R A T V E G D A D T D A L V A A V E D A G Y D A S A
UniRef90_F4PJD4 D Q S V I I E S H G D L S D V L E T I R E T G R T A
UniRef90_UPI0004082BD5 R A R V L L D D V A S W A A V V E K I E K T G Y H V P T S Q V M
UniRef90_V4YXP8 L D S A T V E P T V T V E E I R R Q I E D L G Y R A
UniRef90_E1YDS6 A E R V H V E G V T S I E D I T S A I R K A G Y D A I S T D Q L
UniRef90_I7GX3 T A Q V S F D P A V T V T S T Q L I D V I R G A G Y D A
UniRef90_C8PXN2 H N N A T I D G Q V Q S T L K E A I E D A G F D V
UniRef90_G2FBX0 E R Q A R V S G G D P V A A V Q A V I E Q G Y Q A
UniRef90_UPI0003B3BE8F K G T V E V T K E V D D N T L C E A I K E E G Y P K A
UniRef90_U1FPU5 T E Q A N I A Y N T T P E A L T A R I Q N I G Y D A Q
UniRef90_J0NFS3 S A R I T L T R P Y S D Q E L E G V V G A A G Y Q
UniRef90_C8S3U6 S R T V T V D A A P A Q A L I A A L D G I G F P A
UniRef90_V4KLC1 T G K V I V T G T M D E E K L V D Y V R R T K K Q A R

UniRef90_M4EKU9
UniRef90_C7HUH7
UniRef90_A9KVG8
UniRef90_UPI0004653BF6
UniRef90_ROIG04
UniRef90_UPI00041F7BAF
UniRef90_R2SQK3
UniRef90_E6LEX5
UniRef90_W8IAF0
UniRef90_G7KDZ8
UniRef90_V9VWK0
UniRef90_R6U6Z1
UniRef90_Q9KPZ7
UniRef90_UPI000463ACE1
UniRef90_UPI00042B7AA3
UniRef90_W8HAG3
UniRef90_K7UJF5
UniRef90_UPI0003753F70
UniRef90_R4KDW9
UniRef90_H5V3J5
UniRef90_K9VYN7
UniRef90_UPI0001621160
UniRef90_UPI000479B3F8
UniRef90_K8P806
UniRef90_J6IZN2
UniRef90_A0A037Z183
UniRef90_UPI0003B4271A
UniRef90_A9INX9
UniRef90_UPI000371A5D8
UniRef90_V4LUH9
UniRef90_UPI000346FFF9
UniRef90_UPI0003B64023
UniRef90_E2Z9L6
UniRef90_K2RXXM2
UniRef90_M0HJZ2
UniRef90_V9M4U8
UniRef90_UPI0004784C22
UniRef90_H0DFT5
UniRef90_A8LTF2
UniRef90_D7E7H6
UniRef90_V5WKP7
UniRef90_S6VPB7
UniRef90_K0YDN1
UniRef90_S0NXL2
UniRef90_B5YID6
UniRef90_A9W675
UniRef90_UPI000466F71E
UniRef90_H3NJ62
UniRef90_G2IY38
UniRef90_X1K3C9
UniRef90_F0F2E6
UniRef90_K2Q392
UniRef90_L1QRL0
UniRef90_I6YU20
UniRef90_S7TH03
UniRef90_W5FYT8
UniRef90_B4STQ2
UniRef90_C0GKP4
UniRef90_G9YEF9
UniRef90_G4ZVZ3
UniRef90_UPI0004023F796
UniRef90_R5VDA8
UniRef90_U4KNU2
UniRef90_I5BXE2
UniRef90_A4J4Q3
UniRef90_D8RD12
UniRef90_X7V721
UniRef90_M5X387
UniRef90_UPI00041F4C31
UniRef90_UPI00036AF7C9
UniRef90_S2DC08
UniRef90_A9SR82
UniRef90_W4R116
UniRef90_M4FC26
UniRef90_B1I5S4
UniRef90_U2BAV1
UniRef90_W0JLT9
UniRef90_U3HLA8
UniRef90_K7U0Z7
UniRef90_I1BZ07
UniRef90_B3QC09
UniRef90_U2BQV69
UniRef90_A0A013VJ32
UniRef90_Q5V741
UniRef90_Q96ZX6
UniRef90_I1MEU9
UniRef90_E1VMN0
UniRef90_W0TQI0
UniRef90_R6E7R9
UniRef90_N9WEP1
UniRef90_F2NGA9
UniRef90_A4GJ03

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

UniRef90_M4EKU9 E N Q V T I K G V L D P Q A V C N K I K K
UniRef90_C7HUH7 S E T M T V D G K L S E N D I T K A V E K G Y G A
UniRef90_A9KVG8 D K Q V T V S E G K M S A D T A L T V M E K A G Y P A Q
UniRef90_UPI0004653BF6 E G T A R V V S G D L D P A S L S A A V Q A A G Y Q A
UniRef90_R0IG04 K G L M T I T G D V E P M T L V R K L N K C G K K
UniRef90_UPI00041F7BAF D G N T V V E T H T N V E E V K T A I E R T G Y K V T K L E
UniRef90_R2SQK3 T E K M V V D F D I N V S D I T K A V S D A G Y E A
UniRef90_E6LEX5 T E K L Q V T F D E T Q T T I E Q A V K Q A G Y G V Q H T Q E
UniRef90_W8IAF0 T E R A S V K G I A T V A S L E E A V R A A G Y D A K
UniRef90_G7KDZ8 K N E V T I K G I V E P Q A I C N T I K K T K R R A N
UniRef90_V9VWK0 S E T A Q V T G T A R V A D L T R A V T E A G Y P A R
UniRef90_R6U6Z1 A N K M T V E G V T N A Q A V L T N A V E S A G Y G A
UniRef90_Q9KPZ7 E Q S A L V R G F A N P Q P L L N A I Q S S G Y Q A
UniRef90_UPI000463ACE1 T A N V T L R D A A D L P D V V Q T L A Q A G Y P A R T S E A V
UniRef90_UPI00042B7AA3 T G K V T V T G T M D A N K L V D Y V R R T K K Q A R
UniRef90_W8HAG3 T G K V V I T A D L D P S A V A G A V E E A G Y S V
UniRef90_K7UKF5
UniRef90_UPI0003753F70 T E K M T I D S K L R G S E A I E R A V A Q A G Y Q A K
UniRef90_R4KDW9 T E K L N I T S K V R V G D I I K K A I E K A G Y K L E E E T
UniRef90_H5V3J5 T E K L V V D A T D D V Q D V E A A I R K A G Y T
UniRef90_K9VYN7 T E V A V V E G T V N P D T L A D K L T S T G F P T Q
UniRef90_UPI0001621160 N Q K V V V Y G H V D P A R V L N R V K
UniRef90_UPI000479B3F8 N G N A I V E T K T D L Q E I Q K A I S K T G Y S V T D K K E I
UniRef90_K8P806 G G T V T V G H D D R D E V R N R I S G L G Y R V A R A E
UniRef90_J6IZN2 S G R V E A N T S A Q P A L A V E A I E A A G F G A
UniRef90_A0A037Z183 S E K L S L T Y D V T L E N I Q S A V E K A G Y K A
UniRef90_UPI0003B4271A Q A S I T L P G Q M N D E T A L R A S V E D A G Y H A T S
UniRef90_A9INX9 A H R V T V D N A P A A D P V R A I E Q A G Y D V Q
UniRef90_UPI000371A5D8 K A R V R H P V G M G T D E L V D T V K A A G Y D A
UniRef90_V4LUH9 T S K V V V K G E A D P L K V L H R L Q R
UniRef90_UPI000346FFF9 T G R A E L H G A V T L G D V E E A V R R A G Y E
UniRef90_UPI0003B64023 S A T I T L T Q P H T D E E L E Q V V R N A G Y E
UniRef90_E2Z9L6 G K K A T V T T N I S T D Q F S K V I A D A G Y E
UniRef90_K2RXM2 F N Q A T V E S K M T P T D L I N A I E E L G Y E A Q P G R
UniRef90_M0HJZ2 T G T L A V E Y D T S V D D I R T S I E R A G Y E V
UniRef90_V9M4U8 N S Q V I V K G V V D P V K L V D D V K K T K K Q A
UniRef90_UPI0004784C22 T K L V V V E T N I S I P E L I E T I K D S G Y T A
UniRef90_H0DFT5 T E K A Y V P A Q Y D V R D L I A R I Q Q L G Y D A
UniRef90_A8LTF2 S E T V Y V E G L V T T S D L I E S S G A A G Y P A
UniRef90_D7E7H6 K A S V T Y D P S V S S K E L K D A V V S I G Y V
UniRef90_V5WKP7 T E K A T I S Y D T D I Q A L L D S V S K S G Y S A R P A A E
UniRef90_S6VPB7 N E R A H V S
UniRef90_K0YDN1 S G R L S V T G D V D D A A V R A A V D E A G Y Q V R
UniRef90_S0NXL2 T E K L S V T A N V T D E Q I K Q A V T D A G Y Q V
UniRef90_B5YID6 K A K L E V T D K V D H R L T S I V R A T A G Y D I
UniRef90_A9W675 T G R A S L P D G M P S R A V E A I R E A G Y D V
UniRef90_UPI000466F71E G G T V T V G H D A D K A M S S Q I A G L G Y A V T G S E E
UniRef90_H3NJ62 T E Y L S V Q D H A D T E A V T Q A V H K A G Y Q A Q
UniRef90_G2IY38 S G K V E V L C D A G M P T L A E A V S D A G Y D V
UniRef90_X1K3C9 S E K A T V D G G T E T A D L R R A V K E A G Y E L G S A E T L
UniRef90_F0F2E6 N K N A Q V E G K I Q L A G L V E A V E D A G F D A
UniRef90_K2Q392 T E T L S V T P G K T A G A L L E A I D K A G Y E A K A
UniRef90_L1QRL0 T E R A T V S G A T T F Q D L A A A V E Q A G Y
UniRef90_I6YU20 T A T A Y V D E S V K T D D D I T E A I K K A G Y K
UniRef90_S7TH03 A E R V S V T E L A T L E E M A A I E K A G F T A
UniRef90_W5FYT8 A G R L T L S A T V E D E K I V E Y I R R T G K
UniRef90_B4STQ2 S R R V Q V Q T S A S E S Q I V A A L T D A G F P P R T A
UniRef90_C0GKP4 A E K A G Y V T Q T L T T E D L V N A V K E A G Y G A
UniRef90_G9YEF9 T K S A D V K A E I S I D E F T K V I A D A G Y E
UniRef90_G4ZVZ3 T E K A A I H F D K S V R T L I E S V E D I G Y E A
UniRef90_UPI00023F796 K G T V L V E T S L P S S L I K E K I E K G G
UniRef90_R5VDA8 Q N T M V V D F D C D V I Q K I E D S V E K A G Y K A
UniRef90_U4KNU2 T E T L Q I E S K L S L D E I V K S T I E K T G Y K V K K N E T
UniRef90_I5BXE2 T E S A S V D S D E A R N G E I E S T I R K S G Y T
UniRef90_A4J4Q3 A G K I T V C H T T P A E T I L Q A I K T A G Y Q G R L A N E
UniRef90_D8RD12 S G K V T V V G H V E P K K V L K R V Q K T G K
UniRef90_X7V721 T G T V T V T S S L P A E A V H A A I R A A G Y A L A S
UniRef90_M5X387 Q Q K V T V W G I C N K Y D V L A T V R S K R K D A
UniRef90_UPI00041F4C31 K G N S L V K S K T S V D S L A S I N K T G Y K V T S Q S V I
UniRef90_UPI00036AF7C9 L E R A T V E S A L S K T D V I K K V E S L G Y G A V L K E E
UniRef90_S2DC08 E R I L T I Q G E V S A D R V T K A L E K A G Y R G E E I
UniRef90_A9SR82 N Q R V T I A G C L E P A L A V R H L R R V K K
UniRef90_W4R116 L E T A S V D G A V D V P S M R A E V E K I G F G L K
UniRef90_M4FC26 G S Q V T V K G V F E P Q K L V D Y V K R T G K
UniRef90_B1I5S4 T G K A T V T Y E V K V P E L V A A V S A A G Y R A A P A E S
UniRef90_U2BAV1 A K K A T V K L S A D V D T L V K A V E D A G Y T A
UniRef90_W0JLT9 S E K A T I V G G L K A D V L I Q T V K N A G Y K A
UniRef90_U3HLA8 A S E V R V A S R L S L D E V L A A I R E E G Y Q A A A A
UniRef90_K7U0Z7 K G I M T V V G R L D A K K L R D R V A K T K K K V
UniRef90_I1BZ07 G A Y A T I Y H N V S F S D L K S T V E D C G F D V
UniRef90_B3QV69 M E T A T V E D Q C T P E A L L E T I T G A G Y E A
UniRef90_A0P0C9 N R T V T V T S T R S A D E I A G V L K E A G Y
UniRef90_A0A013VJ32 A K R V T I Q H D L S P P D L R A A I A A L G F E A
UniRef90_Q5V741 K G T L T V S Y D T S A T A I A N R V E K A G Y T V
UniRef90_Q96ZX6 N A R V V I E N A R L K D I V R A R K A G Y D V V T Q K V
UniRef90_I1MEU9 H Q R V T V K G E V D P A K V L E R L R K
UniRef90_E1VMN0 S Q R A S L V A Q A D S P K I L A E L T K L G Y P A R
UniRef90_W0TQI0 L A K V E T D D Q V A F S D Q L L K A I E S K G Y G A R
UniRef90_R6E7R9 K K T V T I S Y D T N E A T L K K A I E K L G Y T C
UniRef90_N9WEP1 T E D L V V K F D P S K S D I E A Q V K R A G Y E A
UniRef90_F2NGA9 T R Q A H V T S Q A D P T F A Q A L Q E A G F S Y E G Q E E L
UniRef90_A4GJ03 T E Q V L V D A L V D F E S L R S A L E E A G Y

UniRef90_H3MAQ4
UniRef90_K4BxB8
UniRef90_C5LS23
UniRef90_D3EGE7
UniRef90_A0A024EB79
UniRef90_V6M881
UniRef90_C5CVZ6
UniRef90_I1E098
UniRef90_S5UBV1
UniRef90_K4MBU9
UniRef90_R7D8G1
UniRef90_L7UNH2
UniRef90_F1T604
UniRef90_UPI00046924DD
UniRef90_K5BJB3
UniRef90_F4H5P9
UniRef90_V5EMK6
UniRef90_UPI00036129ED
UniRef90_Q2JFR6
UniRef90_A9SGS7
UniRef90_F9DU27
UniRef90_UPI000411BA31
UniRef90_P77868
UniRef90_K9BHG4
UniRef90_UPI000289A209
UniRef90_L0AE75
UniRef90_K8GDE0
UniRef90_R8B925
UniRef90_T2JK00
UniRef90_B2J776
UniRef90_G2MHL9
UniRef90_C4GEY8
UniRef90_UPI00037C25F3
UniRef90_UPI000369CF35
UniRef90_Q2W360
UniRef90_T1LBP7
UniRef90_M4R6N2
UniRef90_G2E8A8
UniRef90_I3C2N5
UniRef90_H9UE81
UniRef90_UPI00036B6FDA
UniRef90_A0A059IR20
UniRef90_G3AZ05
UniRef90_S3ZSH6
UniRef90_W4UC35
UniRef90_A0A017S7C5
UniRef90_B7V4Z9
UniRef90_I6UNZ1
UniRef90_UPI0001BC2D78
UniRef90_J3JGG4
UniRef90_F7R153
UniRef90_UPI0003A55C49
UniRef90_I4KUY6
UniRef90_L0A6C0
UniRef90_F3YC10
UniRef90_G9YLZ1
UniRef90_M2T1U9
UniRef90_R6B8F7
UniRef90_K9U9C6
UniRef90_UPI000368552F
UniRef90_E3H126
UniRef90_I4D5X3
UniRef90_A0A024ELH6
UniRef90_Q46VV0
UniRef90_B8NSU6
UniRef90_UPI000466FEA4
UniRef90_UPI000463A8C1
UniRef90_UPI000347286B
UniRef90_I0D629
UniRef90_M4S9U6
UniRef90_B2WCY5
UniRef90_UPI000462C1F9
UniRef90_T0PEL9
UniRef90_E8PKX9
UniRef90_R7CX17
UniRef90_UPI0003631D33
UniRef90_U7UIE0
UniRef90_L9WTR4
UniRef90_M5DPE8
UniRef90_UPI0001FFDCE2
UniRef90_M0S2N5
UniRef90_H6BDQ7
UniRef90_UPI0003A65C40
UniRef90_B9GWH1
UniRef90_Q1NT23
UniRef90_Q12Y93
UniRef90_E8RBV1
UniRef90_D1VUY3
UniRef90_R5URZ3
UniRef90_A0A016XFV4
UniRef90_UPI0003D27585
UniRef90_A8TBX9

UniRef90_H3MAQ4 T R K V E I Q T L L S V D L I S D A L R E A G F P 60 70
UniRef90_K4BxB8 N D I V K V K G S M D P Q K L V E F I K K A G R
UniRef90_C5LS23 K N Q V M V T D A V T G E Q L V E K L K
UniRef90_D3EGE7 T A R V E F P A E V S L S D I Q Q R V E K L G Y Q A V S K Q E
UniRef90_A0A024EB79 A G E V G V E S A L T T E Q V T A A I T E E G Y D A K
UniRef90_V6M881 L E T A S V E S H V G V S D L I R Q V E K L G Y Q A
UniRef90_C5CVZ6 T E S A R V V T A A G G E D M
UniRef90_I1E098 E H S I R V S S N L T T A D I I D A L K A A G Y P A
UniRef90_S5UBV1 T E R A D I T F S S P N P V L S A I E S S G Y K V
UniRef90_K4MBU9 L E R A T V P A K V S P E K L A E D I E S L G Y H V
UniRef90_R7D8G1 E A V V S Y D R E L D D E Q L R K T V K D A G Y R V V S I K
UniRef90_L7UNH2 T R K A S V V F D A S V N A L T E A V A S A G Y Q A
UniRef90_F1T604 S A E V V C S D A Q I S Q Q L I A A V E K A G Y S A R
UniRef90_UPI00046924DD D G E V R V S S R L S V A E V E E A I R G E G Y E I N
UniRef90_K5BJB3 T G T V T I D S D L D P A A I E R A V R E A G Y
UniRef90_F4H5P9 T A H V E L R A S A D D A L L A A V R R R A G Y T A R R A E K V
UniRef90_V5EMK6 S A S A T V T T Q P S A D K V I E T I E D C G F D V I Q L V K T
UniRef90_UPI00036129ED G R Q I V V H G R A P D A A L R A A L Q S A G F Q
UniRef90_Q2JFR6 K A T V T L T D T E A P D D L I R V V Q
UniRef90_A9SGS7 S N K V T V I G K P Y P P D V L K R A K K I D K K A H F W
UniRef90_F9DU27 L E T L T V D G Q T S P N E M M A L V K K M G Y E
UniRef90_UPI000411BA31 M E S A H V E G G A T L N D V V R K V E Q L G Y R A
UniRef90_P77868 E A Q V V F D A T A S E A Q I I E I H K T G F S A H
UniRef90_K9BHG4 N R S V K V E T T A T Q Q Q I V E A L T E A G F P
UniRef90_UPI000289A209 E K R A E V K L D V S D E L V K V V K D A G Y S A K
UniRef90_L0AE75 S G R L V V D Y D A T P D E I R E R V R A A G Y A I E A A
UniRef90_K8GDE0 T E V A T V P D L G H E P V E L A K K L T T A G F P
UniRef90_R8B925 T N S A T V E G K S L L N E I I E A I E D V G Y T A R L S D V V
UniRef90_T2JK00 T E V A V I P Q T V I Q A E T L A E K L T K I G F T I R T S Q T L
UniRef90_B2J776 T E V A V V T G A V D A D A L A Q R L T A V G F P T Q
UniRef90_G2MHL9 T G R L T V D Y D P D A D V R R E R V E K A G Y E I E G G
UniRef90_C4GEY8 G A K A V V E Y D A N P A A L A E A V D D A G F D A Q
UniRef90_UPI00037C25F3 T G R A R V L G Q A E P G A I V K A V E T A G
UniRef90_UPI000369CF35 G G R V T V T S P L D V D A V R A A V D E A G Y
UniRef90_Q2W360 T A T A T V V G T L D R P A L E A R I G A L G Y E A R
UniRef90_T1LBP7 A A E V I V V G R M D P E K L Q K H V K K T E K T V S E G E T
UniRef90_M4R6N2 T Q T A V V E S D E T P T T L I E A I V E I G F D A K E A
UniRef90_G2E8A8 T D E V R I G H D P D T D L A A I R E T
UniRef90_I3C2N5 N A N T I V E T K T D L P T I R K A I E S T G Y K I
UniRef90_H9UE81 N E T V V L E K D V P D E V L Q K A V E S V G Y G V
UniRef90_UPI00036B6FDA S A M A T V E Y D P S P E A L Q Q A V Q A A G Y
UniRef90_A0A059IR20 P G A G L V T G A A D P S A A L T E A V R E E G Y E A
UniRef90_G3AZ05 T E E G L V K F D I T S K Q I I D T I E D C G F D A N S
UniRef90_S3ZSH6 R A R V R H P L I G T A A D E L V A V V V R A G Y T A
UniRef90_W4UC35 K A H V L T T K P I G V D D L I G V V E A A G Y G A
UniRef90_A0A017S7C5 S E R A V T E S S I T P E E I A E A I E D R G F G A
UniRef90_B7V4Z9 N E T L T L T R S T S A R D I A K K I R S L G F D V Q A
UniRef90_I6UNZ1 N E T V F V E S K V S L N Q I T K A I E D V G Y E V
UniRef90_UPI0001BC2D78 S G T L V I T S E I A P E A V I N A V K E A G Y Q A
UniRef90_J3JGG4 Q S S A T V E G D A D P L D L V V A V D G A G Y D A Q A
UniRef90_F7R153 T H E V R V D S T L D E N A F L T A L T E A G Y P
UniRef90_UPI0003A55C49 K G S A V I K T K V K P M Q I L Q A A K K T G Y T V
UniRef90_I4KUY6 A K E V R V A S S L P S D K V I Q L I T E E G Y T A K
UniRef90_L0A6C0 T G K A I V Q G D V E P Q Q L V S A V V E E G Y G A Q
UniRef90_F3YCI0 T E K M Q V T T L T N S A D I M E A V S S V G Y K A
UniRef90_G9YLZ1 G N S M L V E G K T G P E Q I T Q A V T D A G Y G A
UniRef90_M2T1U9 S G V V V F T G K A K C A D E L V E T I E D C G F D I
UniRef90_R6B8F7 N A V V T A E E S V S A D A L K A A V V D A G Y E V
UniRef90_K9U9C6 T E R L E V S Y D V S E S T I L D R V T A L G Y T V
UniRef90_UPI000368552F T K M V R V E T A L P E A T I E K A M T D G G Y Q
UniRef90_E3HI26 T H R V T V T G A D D A K I E D A I R D A G Y A
UniRef90_I4D5X3 N E T V S V E G V V T M G E I F Q Q V R D A G Y T
UniRef90_A0A024ELH6 S G K A E L K A D V S R E Q M Q A A V E A L G Y R A
UniRef90_Q46VV0 T E Q A T L H A D
UniRef90_B8NSU6 S E R A V V E S T V T P D Q L A E I I E D R G F G A R
UniRef90_UPI000466FEA4 N K S V V I E T D N V A F V L E T L E E A G Y S A
UniRef90_UPI000463A8C1 P G E A L V R G K A E I S A L I A A V L E E G Y S A
UniRef90_UPI000347286B T A Q A T V R D T T D I E T I Q H A V S D A G Y R A K
UniRef90_I0D629 S A T V D F N P D I N V N E M K S A I T K L G Y K V K S D E Q
UniRef90_M4S9U6 T R R V T V T Q T A S A P L L A T L N E A G F E A N
UniRef90_B2WCY5 T N S A T V T G K E K C D E L I E T V E D C G F E V
UniRef90_UPI000462C1F9 T E K L S V S Y D L G L E Q D I R Q A I E K A G Y Q
UniRef90_T0PEL9 T E K L S V E S V V T V Q D I R Q G A I E K A G Y K A
UniRef90_E8PKX9 T E K A F V E D T V T L P R L R Q A I R D A G Y E
UniRef90_R7CX17 V A T V E F A G E L P L E T L R K A I E E A G Y S I N
UniRef90_UPI0003631D33 S G S V T V T S D R P V L E D A V Q A A V E E A G Y Q
UniRef90_U7UIE0 G K K A D I K A D I P T D E L A K V I A D A G Y E
UniRef90_L9WTR4 T G R V A V E T A T D V E P L V E A V E S A G Y E A S S
UniRef90_M5DPE8 Q K Q A V I Q Y D A N P N Q F Q D A I K E A G F E V
UniRef90_UPI0001FFDCE2 T G A V T V D G E V A P D A V R A A V K E A G Y E V T A A
UniRef90_M0S2N5 S G K L T V M G K L D P W K L R D R V E K T H K K V
UniRef90_H6BDQ7 M S K V T V T G
UniRef90_UPI0003A65C40 T R R V S V R K S L P L P P F I R A L Q R A G Y K A
UniRef90_B9GWH1 N N K A Q V P S F V N E E T I R E T I E D A G F E A
UniRef90_Q1NT23 T Q S L T V E T D V A P G L L R E A V E K A G Y E A S
UniRef90_Q12Y93 L E K A S V T Y D F T T E K L E K T V E D T G Y G I L K D E
UniRef90_E8RBV1 E K K A Q V Q G G D P E Q V V R A I V D Q G Y G A
UniRef90_D1VUY3 T N T M N V D F D T D E I V K A V S N I G Y G A N
UniRef90_R5URZ3 K Q T V T I T F R T D P E K L Q K A I E K L N I P V S G F E E
UniRef90_A0A016XFV4 T A Q A V A P A R V T R Q A L V T A I E D A G F D V P A A Q S
UniRef90_UPI0003D27585 L G K V I V K G S M D A N K L V D Y L R R T K K Q K
UniRef90_A8TBX9 E Q S A L V F A T Q D S Q V I I E A I N Q A G Y R A

UniRef90_R5EEJ4 UniRef90_L0G298 UniRef90_T2KKT1 UniRef90_Q6K791 UniRef90_I0LCE5 UniRef90_F4BTA5 UniRef90_MOHBJ5 UniRef90_R6SLL4 UniRef90_F1Z8A9 UniRef90_UPI0004246065 UniRef90_Q126Y7 UniRef90_R5N8S3 UniRef90_M0AT39 UniRef90_I1MPT9 UniRef90_K3Y8N1 UniRef90_E4KRC2 UniRef90_S1S606 UniRef90_A8FHF8 UniRef90_E1JWL6 UniRef90_M7YM80 UniRef90_UPI0002887ABC UniRef90_R5QNH7 UniRef90_UPI0001E2F091 UniRef90_U0EYY8 UniRef90_H5SV05 UniRef90_K2LP56 UniRef90_E3H845 UniRef90_V9H2Y1 UniRef90_Q2FQU9 UniRef90_UPI00036C1393 UniRef90_F9MPS7 UniRef90_R9L6S8 UniRef90_G9ZZR4 UniRef90_F3QPQ9 UniRef90_Q608Z5 UniRef90_R4KFB1 UniRef90_C9TW82 UniRef90_I8IK66 UniRef90_M6J130 UniRef90_W9XS31 UniRef90_Q0CQB1 UniRef90_W5BMH2 UniRef90_UPI00046242F9 UniRef90_X5L1W2 UniRef90_G2I5G7 UniRef90_A0A010NRX2 UniRef90_W0K810 UniRef90_V5FIP4 UniRef90_UPI0002882239 UniRef90_Q0UA08 UniRef90_G2GL42 UniRef90_X2H682 UniRef90_W4QIN7 UniRef90_UPI00047AFFB0 UniRef90_T1H9H8 UniRef90_A0A023VSG6 UniRef90_S7QH0E UniRef90_UPI000468F3B2 UniRef90_UPI000373C694 UniRef90_A0A011TWF8 UniRef90_K0I797 UniRef90_X0R720 UniRef90_M0RWM3 UniRef90_UPI0002E25512 UniRef90_M0MK02 UniRef90_UPI000428FD63 UniRef90_UPI0003EF98F1 UniRef90_V6H8C8 UniRef90_A0A059FB10 UniRef90_A3LVL5 UniRef90_R6BGW9 UniRef90_D3L4S8 UniRef90_E5C0A8 UniRef90_UPI0002490860 UniRef90_R0EX45 UniRef90_G8LYS6 UniRef90_A0A011QTP0 UniRef90_R0G1V8 UniRef90_B9DVB4 UniRef90_I5B3C4 UniRef90_R9BYK0 UniRef90_G0JRF6 UniRef90_UPI0002B448ED UniRef90_K9B8K0 UniRef90_Q39VD5 UniRef90_F9WZS3 UniRef90_W6U8J4 UniRef90_F0LHV2 UniRef90_F8IBQ8 UniRef90_B4U9T6 UniRef90_UPI0003506C5E UniRef90_NOAV92

1 10 20 30 40

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

UniRef90_R5EEJ4
UniRef90_L0G298
UniRef90_T2KKT1
UniRef90_Q6K791
UniRef90_I0LCE5
UniRef90_F4BTA5
UniRef90_M0HBJ5
UniRef90_R6SLL4
UniRef90_F1Z8A9
UniRef90_UPI0004246065
UniRef90_Q126Y7
UniRef90_R5N8S3
UniRef90_M0AT39
UniRef90_I1MPT9
UniRef90_K3Y8N1
UniRef90_E4KRC2
UniRef90_S1S606
UniRef90_A8FHF8
UniRef90_E1JWL6
UniRef90_M7YM80
UniRef90_UPI0002887ABC
UniRef90_R5QNH7
UniRef90_UPI0001E2F091
UniRef90_U0EYY8
UniRef90_H5SV05
UniRef90_K2LP56
UniRef90_E3H845
UniRef90_V9H2Y1
UniRef90_Q2FQU9
UniRef90_UPI00036C1393
UniRef90_F9MPS7
UniRef90_R9L6S8
UniRef90_G9ZZR4
UniRef90_F3QPQ9
UniRef90_Q608Z5
UniRef90_R4KFB1
UniRef90_C9TW82
UniRef90_I8IK66
UniRef90_M6J30
UniRef90_W9XS31
UniRef90_Q0CQB1
UniRef90_U5BMMH2
UniRef90_UPI00046242F9
UniRef90_X5L1W2
UniRef90_G2I5G7
UniRef90_A0A010NRX2
UniRef90_W0K810
UniRef90_V5FIP4
UniRef90_UPI0002882239
UniRef90_Q0UA08
UniRef90_G2GL42
UniRef90_X2H682
UniRef90_W4QIN7
UniRef90_UPI00047AFFB0
UniRef90_T1H9H8
UniRef90_A0A023VSG6
UniRef90_S7QHE0
UniRef90_UPI000468F3B2
UniRef90_UPI000373C694
UniRef90_A0A011TWF8
UniRef90_K0I797
UniRef90_X0R720
UniRef90_M0RWM3
UniRef90_UPI0002E25512
UniRef90_M0MK02
UniRef90_UPI000428FD63
UniRef90_UPI0003EF98F1
UniRef90_V6H8C8
UniRef90_A0A059FB10
UniRef90_A3LVL5
UniRef90_R6BGW9
UniRef90_D3L4S8
UniRef90_E5C0A8
UniRef90_UPI0002490860
UniRef90_R0EX45
UniRef90_G8LYS6
UniRef90_A0A011QTP0
UniRef90_R0G1V8
UniRef90_B9DVB4
UniRef90_I5B3C4
UniRef90_R9BYK0
UniRef90_G0JRF6
UniRef90_UPI0002B448ED
UniRef90_K9B8K0
UniRef90_Q39VD5
UniRef90_F9WZS3
UniRef90_W6U8J4
UniRef90_F0LHV2
UniRef90_F8IBQ8
UniRef90_B4U9T6
UniRef90_UPI0003506C5E
UniRef90_NOAV92

50
LAKVTVP EGF D T E K V K A P I
NANAQVKYNVDV N K I I E A I
KSEATIVSEIPLJETEQKAL
ASQVNTVKGVFESEKLT D Y V K R I G K N A
SGAATVTSDLPDES V R A A V D E A G Y
GETATAKYDPSKIKLVKAI RD L G Y D V I D Q Q T V
TDAATVEGDADVESLVVA A EDAGYDA
DKTAQVQEDV P DD V L K A A I EDAGYQVVS
EARQVVEV P SVLEDT P D F I A A L V G Y E A Q Q G E E V
EAVVQFVADVLEDTVITSEI ER L G Y Q V
N H K V S V E T Q V D R E T V V A A L S E A G Y
AATATVEYDTSPEQLKAAL QAAGY
SGRVTVDDETSSTEAVVD A I GSAGYEA
AQKI T V R G Y L E E K K V L K A I K R A G K A A
T H V K G K K V A A D P T K V I E H V K K T G H K V
T E Q M Q V E G Q V N T K D I L E A V A E S G Y Q A
TGRVTVTADAE P D D I A E V V D E A G Y E
T L Q V T Y P G Q T S T S D I K E A V Q S I G Y
K G Q A T F D G E A S E D A I K G A I D K I G
A G R V A I R T D A Q A L T I A E A L T K A G Y A A T A
E A L V E V E S Q V S L D K I K E T I E D Q G Y D V
K N D M N V E T Q V S A N D I V R A V D S A G Y G A K
T E R A N I E S K V K S V D L I N T V E S L G Y K A D K I E N V
E Q S A L V F S T K T L N A I A N A V E E A G Y Q A
T S T V R V R S T L D R A R L V E H I E R I G Y T T R
L N S A N V D S K L D T S K I A E A V A D S G Y S V
T E K A L V E N E I K L S E I V K F I N E L G Y K A V K E D T V
G K N A L V N E T E V E D N T L J A A I D E A G Y D V T S
T G K A R V P S Q V S V S D L T G A V E K S G F S V K F E K A V
T R R A S V K G E A P P L T E T L E G L G Y A A H
Q A S V I A D D V T D D M M K Q A V E E A G Y Q V T S
L E T A Q V P G T V S I E Q I I N K V S Q L G Y G A
G E R L T V S L A P D A E A V R R Q V E A L G Y K I
V A V I E Y S G D V P L E F L Q A A L A G E G Y K I
R K R A E I E A D V G P D P L V A A V T A L G Y R A R
M E R A A V E Y N S D L A D I K K A V A D A G Y R A E D G
A G T M T V D G S G D I E T M A R K V R S L G Y G V
S G T V E F D G H D H L D T I V E K I E D L G Y D A
T A T V E F E S S V K K E L L L D K I D S L G Y R A
T N T A T V V F K A P K D R I V E A I D D L G Y E A T L D E V
S A R V V V T G P R S V D K V I E Q L D D M G F E A
Q K S V T V A G Y V E A S K V L R K A Q S T G K K A
U N S A T L V V S H P V P T V V S A I E D I G Y E A
E G T A N V K S K T D K A T I R K A I D G T G Y K V S G E
K G K A T V T Y D T N D D L F A A V D D A G Y D A
A G L V S V T G L A S T D A V R D A I E A T G R V L N G
T G T V H V E E N V G V D D V V E R V Q A A G Y D V E S
N R T A S V Y S S L T E S Q L V Q T I E N A G Y G A
A A E V R F T G T Y S D E E L Q R A V A E A G
S E R A V I E H D I T P E T L A E T I E D T G F D A
G G R V T V T S A G E P D D V A G A V D D A G Y E
T G I A D I D S L T N V D T L K A A V E A A G F D V
T T K V I Y D P Y T S P K D F E N K I E K L G Y H V L H E K
S G G L T V R S E V P V D E V R A A V E E A G Y E V
R A R V R L Q G S S T V Q D V V A A I H K V G F D V
T E K L S V D E T I N P K I I E K A V A E A G Y Q A
S A S A T I E Q R K F A D T L V E T I E D A G Y E A
D E T A H F S A D D D Q A K A I T A L D Q A G Y P A
A E I L M V E H D G A A E E I L Q A L E K A G Y P A Q
E Q S A L V F V D N D S D D I L E S V K Q A G Y Q
E Q L V T L P G T L P D A L T A A V A R L G Y K A
T Q K L E L T T S T D V K D I E K T I K R L G F G V S A
K D L V T V K G T M D V K S L V T V L K E
L E K A S V E S A V T T K E L V Q K V E N L G Y G V K S D E
A E H A T I E G D P D S A A L V R A V E D A G Y E A
R A D V A A P E V T P E T V A S A V D R A G F S A
T E K L V V A D A D N D I A Q V E S A V Q K A G Y S L R
T G I A K I E S A S T E A D L S N A I R E E G Y T L L S I K N I
T G K I T W Q G E I L P A S Q I A E T V S G L G Y G V S A A A E
S G L I K H T S E I S K E T I R S A I E D C G F D V
D K T A T T Y S S V P D E D I I D T I N K L D Y K V T S I E
T E T A F V E K D V P Q R V L E E A V E R V G Y G V
T G I G T F S G K V K L E E I I A M I E K L G Y E
S E R M Q I E Q A V T P A Q V I Q A V V N A G Y G A
T G K L T V T G A L D P A K L
S Q Q V N I D Y N P D Q E I K K H I S Q M G Y E V
A E K L T A T Y D V S V R D I A D A I S Q T G Y K A
K E T V T V T G T M D L K M T V E E N L K K L K K T V H
T E K L T V T G E V T A Q T M I E E V V A N A G Y K A
L E K G F V S Y N M D D Q K V L D V V K N A G Y S A
T G T V L V E F D L T L D K I K E T I D D Q G Y D V Q
P G E A V V H G Q A S T A A L I A A V K E E G Y E A
A N K L T V I G K F D P A K L
K L N V T Y E G T T G P D D F K T L V D K L G Y K
A G L V S V D N T A P Q K L A A T V S D A G Y Q S T V Q E T M
S E R A V I E H D A S S E K L A E T I E D T G F D A
T K R G K V V F D V G A R S I L K T I E D M G F D A
T E S A Y I E S K V S I T D I I R A I E S V G Y G V
L E R A D I P A T A P I P E L V D T I T Q L G Y T V R
Q G Y A E I D G R A S L T N L I E A V K K A G Y G A
L N N A V V K S E I V E I C G A I E D M G F D A S I A E E
S S K V K V T T Q I L N P E D L Q R T I E K L G Y E V L S

60

70

UniRef90_UPI00037C1F78 1 M N T A T Y T V T M T C S H C A A S V T E E I V T D I T 30 A G V V T A V E V D V 40
UniRef90_E0VL69 M T C A S C C V N S I V E E S N S L V K K I L A N G V V F A S S V V V D A L E T
UniRef90_W4F5K7 M Q Q I T L N V Q M S C C G A H C C V N S I V E E S N S L V K K I L A N G V V F A S S V V V D A L E T
UniRef90_H0UJD7 M T C C G A G C V R I V E E K S L M G K Q V L D A N G G V K F A S S V A V N H L L D A
UniRef90_A0A016XM40 H E F H L D M T C C G A H C C A G S M V V E T G E T A L K V L L A D A Q C Y F Q V D L P
UniRef90_A0PWM7 I Q L D V S M S A A A C C A L T I V E D A L R A V L P G V R A S V V D V N F A A
UniRef90_C5T0H7 M H C C G A C C A L T I V E D A L R A V L P G V R A S V V D V N F A A
UniRef90_UPI00047303A4 M E Q T V L S V Q M S C C G A H C C V K A V E E G A L S E L S G V V K T V K V N L N L E K
UniRef90_V8CIX5 M Q K L T I A I D M S C A S C C A N S R I T T K H L K S K D L G V L T E D I H I L K
UniRef90_M0WPV3 T V V L K I G L H C A D G C M H R I R C K L F K I T K D G V G V V K Q V K M D P A
UniRef90_W4TTW2 M T C A A C A T T I E K R L S R I V I K D G V H A S T L Q V K N F A T S E G
UniRef90_M0LXW1 M D C P S C A R K V E D K S L H R V D D G V G V H A S T L Q V K N F A T S E G
UniRef90_UPI00037E2D44 L E K A D F K I S M T C V N C A A R I V E K K M L A K V L D G V I A S V E V H L D
UniRef90_UPI0002D722E0 T L N V Q M S C C G N C C K Q A V E Q G A L K N L D G V I A S V E V H L D
UniRef90_F7NEU4 D M H C C A C C E T S A V E E S L K N L N D V N G V V L N M A R A S F A
UniRef90_K9FE40 M T C C G A C C E T S A V E E S L K N L N D V N G V V L N M A R A S F A
UniRef90_D3A0I5 M E T L T L N I D M T C G G C V K S V T R L E N T E G V V A K A K V S S L E
UniRef90_R7W777 K R A G V V Q E R A D V D A Q
UniRef90_K8C9K4 N T I E L A L D L S C G H C V K R V K E S V L E Q R P K A G V V Q E R A D V D A Q
UniRef90_N0C1S0 S E K K E Y K L S G M T C A A C A M T V E M A I V K D L D T T V E D V S V T L E A
UniRef90_K8WR73 M D C P S C A R K I E N A I K K Q I T E V V K S V K V L E A
UniRef90_UPI00046E5FD7 T V D F Q I G M T C A A C A A R I E K G L N K K L S G V V T S A S V L E A
UniRef90_A0A024QFH8 M M Q T T L D V R M S C C G H C C E Q A V K G A L E A L S N G V V T G V E V H L N
UniRef90_S9QCN7 S T S T H Y S F E I E L S C A S C C V G R A E E S A L Q A V V S A G V N L L A
UniRef90_P0C885 M S Q E I L N V E M S C C G H C C V G S A V E S A L N N I D E G V V T S A E V N L L A
UniRef90_W9SKQ1 Q R T V L K I D L S C C Q K C K R K F L K S V T A L L E G V V D K I E V D A A
UniRef90_UPI00036A9BE8 P D M H C C S C A T A I T E K E L R K L L E G V L K K A V V N G A
UniRef90_F5Y1K8 I E F E L V P M C C G H C C V T A I V T E A L H E V L D Q Y P A A G V E V D L A
UniRef90_UPI0003ADF712 T V T F I D M H C K S C C V L N I E T A L S T L Q Y V S Q Q A R V L E A
UniRef90_UPI0002198178 M D C P S C A R K I E T A V S R V A Q P G V R S A R V N L E A
UniRef90_D5ARQ0 H C A V C I T D V E M E A Q P G V R S A R V N L E A
UniRef90_B9S7X6 M Q K I V F G V D T N H K C C K T E V L K T V T R L E E A G V V Q A V T T D L L A
UniRef90_W1Q376 M K G G S C A K N I E N S L Q S Q V L S A G V V H A V T T D L L A
UniRef90_U1GCF9 M T C G G S C V G T I T E S L Q A R R L S S G V V D A A S V D L L A
UniRef90_R6AFR4 E Y S I S M S A A C A S A S V E R A V R R Q I S S G V V D A A S V D L L A
UniRef90_A0A038GZT4 M K F E V D M S C C G A C C A H A I T Q A I T S Q E D A A A Q S V A I N D V L A
UniRef90_F9T9Y4 M T C A S C C A S V E K A L I S V K Q E D A A A Q S V A I N D V L A
UniRef90_U7DU46 T V V L K I R L H C E G C C I S K I K K T I S E I K G V V G S V T V D A A
UniRef90_UPI00044A27D M T C A S C C A S S T I T Q T L S E S L P G V V S D V S V N L L T
UniRef90_S8DFR1 M T C C G G C A A S V K R L L E S Q Q P Q V V S S A S V N L L T
UniRef90_E4SDW7 M T C A S C C A L T V E N A V R K L L D D P A V D S A V V N L T
UniRef90_J3JQW7 M T C A S C C A L T V E N A V R K L L D D P A V D S A V V N L T
UniRef90_UPI00036B1F52 M E F K V D M S C C G G C A S A I A G L D P A A K V Q I D V A
UniRef90_UPI00046EC1EB Q I T L M V H I T T A C C V W L I E K H L E K K T G L H K V N I G F N
UniRef90_K7W1V2 S V Q V V V M S A N M G C S H C R Q R V A N V V S K M N A G S H L W E V D L K S P
UniRef90_S7VB91 Q Q I K L K T N V K C G A C C V T A I T P A M N A L N A N A S H L W E V D L K S P
UniRef90_K8BAE5 M D A A C C A R K V E N A V R K V A G V V R H V Q V L F A
UniRef90_E1W451 M K S I T L H V T M T C C G G C V K S V T R V L E E L A N G V V E K A V V T L D L E
UniRef90_L1MCE9 M T C E H C C A A S V K E E I S A I P G V E S V T V D L E
UniRef90_K2DHU2 M K K I T F P I G M H C A S C C S R L I E R Q L K S V V P G V L N S V N Y G S E
UniRef90_D8IQ76 D M T C C N G C A G V I T T K A L K E V D D A N A K V D I T V A
UniRef90_B8BF67 T L R M N I D C C G H C C Y H K I R R A L Q M Q E L E S H L I D R K
UniRef90_W2UYM7 A Q T P D V E L H L S L S C C G H C C T E T V R K A L E A V S G V I S A D V T L E
UniRef90_F4CKQ9 Q A Q R V D F T V E M T C A S C C A V R V S K T L A K Q P G V D Q A Q V N F A
UniRef90_A9F5S8 M T C C G H C C V Q A V S K A L A K V P G V T R V S E V S L E
UniRef90_UPI00037D2D2C E F E V D M T C C G H C C V S T I T A A A Q N V A P V E A T I T T N L S
UniRef90_UPI0003F133C8 T Q K T V F S I G M T C N S C C V P H V E G I I S K K A G V K S V Q V S L A
UniRef90_M4RZT2 D M T C G S C C V P H V T D A I A K V D P G A V V E A D T V
UniRef90_UPI0003617341 A S S R Q V I L S I S M H C T A C C A A L I E R V L K R S P P G V V R E A R V N F A
UniRef90_UPI00038C2615 A Q E A V V K L R V E M T C Q S C C V N S I E N G K I R K L Q Q G V V R V K V S L S
UniRef90_D8TGZ7 Q L E V L R M R V T M V C A A C C S N A V E N A L L S Q P G V V N K A V A L L A
UniRef90_L0G5P3 M T C A S C A S S V E S L S H I D G V V S Q A S V N F A
UniRef90_D3QZU9 M T K A K F T V S M S A A C C A L R V E K A V R Q L E G V V T A N V N L L
UniRef90_C2G218 S K I Q K V E F T I K M T C S G C C E H H I K T E I S K L E G I L E V V S Y E
UniRef90_S7VUW0 H T Y H I H G M T C N G C C R S H V E D L S K V E D G V S Q A T V N L E
UniRef90_X6E5Y3 D L R Q T D L S V P M H C G A C C I Q T I E S A L T G K L V E D N G V S Q A T V N L S
UniRef90_W4GTL5 T V V L H V D M S C M N C C A R K V E S A L T A A G V K S A K V D F D L K
UniRef90_G4Z8D6 T V R L E V G M T C C S C C S S V E N A L T Q L L E D T G V I S A T V S F A
UniRef90_M4B957 M T C C S C C S S V E N A L T Q L L E D T G V I S A T V S F A
UniRef90_A0A011UKI0 T R Q V E L S V P V H C A A C C I H A V E T A L G K L L D T V E R A R V N L S
UniRef90_U5H2Y1 A T T T T I Q L K I Q M T C G A C C V A S I E N G L R D Q P G I L S V K V A L L
UniRef90_A3STG7 A T V Q T R R Y A L N M S C A S C C V G R V E R A L A A V P P G V V D V S V A L L A
UniRef90_E0DH53 M T C T S C V G R V E R K L N K V P G A Q A T V N F A T E
UniRef90_A6W632 M A T Y E Y R V T M T C A H C C E M S V E R E V E Q L D A G V A D V Q V D A T
UniRef90_A0A017RT76 M T C A A C C S K A V E R T V K K L D A G V I R A E V N F P
UniRef90_K6CFB5 M E K I T L N V Q M S C N H C C V K A V E G S V G A L N G V I A V K V N L K
UniRef90_B6AQH4 M K T M T F Q I Q M T C D H C C A R T V E N T L S R K I L E P G V F S A S V S F S
UniRef90_P35670 M T C A S C C V H S I E G M I S Q L E G V V Q Q I S V S S L A
UniRef90_UPI0003343A8D Q M Q T V T L A I S M T C A S C C V H S I E G M I S Q L E G V V Q Q I S V S S L A
UniRef90_UPI00045600DA E L G T A Q L N V G M T C A S C C S S T V E R E V A K V P P G V V M S V S V S L S
UniRef90_UPI00047650C2 Q T L E V A V N M D C A D C A R K V Q Q A I G K L D P P G V V M S V S V S L S
UniRef90_U1PXF4 M D C P S C A A Q K V I N S V R K L L D Q A I Q N I D V S Q V A
UniRef90_T2NA85 M K T T T F S V E M M C G G C A A S V E K A A L S V V Q A G V T A F A S L D
UniRef90_D1ADI9 M T C G H C C V A S V K E E V G Q V P P G V T G V E V S L D L E
UniRef90_C8NIS6 M M K K E Y N L E I K A G C C A N T V K E E R F S S V P P G V T N V E V S L E
UniRef90_A0R279 M T T Q T V T V T M T C G H C C V T S V R E E V G S I P P G V T T V D V D L A
UniRef90_UPI0003B3347C M S C G H C C K A A V E T A L V E T V D D G V V E N V T V D L A
UniRef90_V7CND5 M T C A A C C S N S V E T A L V E T V D D G V V E N V T V D L A
UniRef90_G7UPA4 M K F N V E M T C S H C C E R A I T R A V A L V G G T A R V D I A
UniRef90_T0UEX1 M K C E G A C T S I R E G T L A R V A G V T E F T V N L L
UniRef90_K2RZS4 M T C G A C C A I V E G T F K G V E A G V T E H F S I S L
UniRef90_R5UPV8 V I G M S C A G C A T N V E M T L S K Q K G V V K E A K V N F A

UniRef90_UPI00037C1F78
UniRef90_E0VL69
UniRef90_W4F5K7
UniRef90_H0UJD7
UniRef90_A0A016XM40
UniRef90_A0PWM7
UniRef90_C5T0H7
UniRef90_UPI00047303A4
UniRef90_V8CIX5
UniRef90_M0WVPV3
UniRef90_W4TTW2
UniRef90_M0LXW1
UniRef90_UPI00037E2D44
UniRef90_UPI0002D722E0
UniRef90_F7NEU4
UniRef90_K9FE40
UniRef90_D3A0I5
UniRef90_R7W777
UniRef90_K8C9K4
UniRef90_N0C1S0
UniRef90_K8WR73
UniRef90_UPI00046E5FD7
UniRef90_A0A024QFH8
UniRef90_S9QCN7
UniRef90_P0C885
UniRef90_W9SKQ1
UniRef90_UPI00036A9BE8
UniRef90_F5Y1K8
UniRef90_UPI0003ADF712
UniRef90_UPI0002198178
UniRef90_D5ARQ0
UniRef90_B9S7X6
UniRef90_W1Q376
UniRef90_U1GCF9
UniRef90_R6AFR4
UniRef90_A0A038GZT4
UniRef90_F9T9Y4
UniRef90_U7DU46
UniRef90_UPI000444A27D
UniRef90_S8DFR1
UniRef90_E4SDW7
UniRef90_J3JQW7
UniRef90_UPI00036B1F52
UniRef90_UPI00046EC1EB
UniRef90_K7W1V2
UniRef90_S7VB91
UniRef90_K8BAE5
UniRef90_E1W451
UniRef90_L1MCE9
UniRef90_K2DHU2
UniRef90_D8IQ76
UniRef90_B8BF67
UniRef90_W2UYM7
UniRef90_F4CKQ9
UniRef90_A9F5S8
UniRef90_UPI00037D2D2C
UniRef90_UPI0003F133C8
UniRef90_M4RZT2
UniRef90_UPI0003617341
UniRef90_UPI00038C2615
UniRef90_D8TGZ7
UniRef90_L0G5P3
UniRef90_D3QZU9
UniRef90_C2G218
UniRef90_S7VUW0
UniRef90_X6E5Y3
UniRef90_W4GTL5
UniRef90_G4Z8D6
UniRef90_M4B957
UniRef90_A0A011UK10
UniRef90_U5H2Y1
UniRef90_A3STG7
UniRef90_E0DH53
UniRef90_A6W632
UniRef90_A0A017RT76
UniRef90_K6CFB5
UniRef90_B6AQH4
UniRef90_P35670
UniRef90_UPI0003343A8D
UniRef90_UPI00045600DA
UniRef90_UPI00047650C2
UniRef90_U1PXF4
UniRef90_T2NA85
UniRef90_D1ADI9
UniRef90_C8NIS6
UniRef90_A0R279
UniRef90_UPI0003B3347C
UniRef90_V7CND5
UniRef90_G7UPA4
UniRef90_T0UEX1
UniRef90_K2RZS4
UniRef90_R5UPV8

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

50
60
70

1 10 20 30 40
UniRef90_UPI000347C36C M A T A Q L R L E M S C A A C A S A I E R S L L A V N G V D A A V N F A L E
UniRef90_AOA011PMW3 M S C A S C C A L L I E E K S L R R V D P R V V H L A N N V A N F A
UniRef90_K2FSP8 M H C C A S C C A W L I E E K S L R R K V T D D V D A D A R V N N F A
UniRef90_I7KJBG8 E K R K A E L K I S M H C C A S C C A L N I E E R A L R R G R T D D V D A R V N N F A
UniRef90_W0EJ48 M S C C A S H C C V S H V K E A L S E F F E D G V V T E V A N V N L L E
UniRef90_F2DLW8 M T C C A A C C A N G A V I E K A A L S A R R M D G V V T R T E A A N V N L L
UniRef90_UPI0003B79774 S T H K Q T F P V G M S C C A A C A A R V D E K T L N R M Q P G V V C E A S V N N Y A
UniRef90_R5U7E6 T I Q L N V E M S C C H C C A K I E E K A V V K Q L L A S D D A I V Q V T F A
UniRef90_W4ES45 M D C P S C C A Q K I E E K A V V K Q L L A S D D A I V Q V T F A
UniRef90_D0IG34 M T C C Q S C C A V S I E E D K I V S G L L K K G V V V S I K V S L L E S E
UniRef90_UPI000333410F M N K E T F N V K M S C C E H C C V S A I E E R M I V R S L K Q P G G I V D S I V R V A L L S E E
UniRef90_F5L2Z6 M T C C G A C C V E T I E E R M I V R S L K Q P G G I V D S I V R V A L L S E E
UniRef90_M9MCD8 C G G C C V A T V K D N K L S K L L E N N G V V T D S V S V N L L E Q
UniRef90_A4EF20 M T C C G N C C A N H V E E A A L Q A L L G G V T Q T C E V N F G
UniRef90_F3A7C3 M S C C S G C C A R K I E E A A L Q A L L G G V T Q T C E V N F G
UniRef90_UPI0002E29224 T L E L N I R M D C C D G C A R K L H R S L R L R L E A G V D E V I V D L R K N
UniRef90_U5DL13 V V V S V P V H C C D G C A R K L H R S L R L R L E A G V D E V I V D L R K N
UniRef90_A0R808 M S C C N H C C V N H V K N A L M E I K G I N D V I V S L L E
UniRef90_F2EA41 M S C C N H C C R S H V R E A L E S L P G V E R Q S V S V S A E E
UniRef90_C5VS63 H T Y H I H G M S C C A G C C R S H V R E A L E S L P G V E R Q S V S V S A E E
UniRef90_A1WZ38 M E T V R I R I E M S C C A H C C E A S V R E A L E S L P G V E R Q S V S V S A E E
UniRef90_A3XMS2 T A T F T I D M H C K S C C V S N I E E S A L S T L K Y V V S N F V I S L L E
UniRef90_G3M7Y4 V Q E V D L A I E M T H C A S C C A L L E M V F N R G L D A K V K R Q A S V N F A
UniRef90_UPI00045EBA06 T V V L E V G M H C E G C A S E L V H S A R G L K S G I T T S A S V S N I A
UniRef90_B9SCK2 M S C C A A C C S K A A E R S L N K T S G I T T S A S V S N I A
UniRef90_R5JMQ7 M D C C A A C C A A S I V E T L R R M P D V T D V K V S V V
UniRef90_Q11N94 G N L H K E T F P V A M T M S C C A A C C A S V E T L R R M P D V T D V K V S V V
UniRef90_UPI0003FE457C M E K V T L N V E M S C C N H C C V K A I E E S S V G E L N G V V E K V D V N L N
UniRef90_UPI0002E8C627 M S C C A T C S Q M V S G D A L S S L L S G V E S T V S V N L V A E E
UniRef90_Q18DT4 M S C C H C C K M A V S G G A L K E L D S G V V S V D V N L A E E
UniRef90_UPI000255C748 I G M T C C G A C C S T R I E K G L N R M E D G V Q A T V N L A L E E
UniRef90_UPI0002EFB6AB C C G G C C V S K I T K A I Q S S L D N G E A T V N L A L E E
UniRef90_V9R545 M T C C G G C C V S V K A V L E K I Q D D P G V V S A V E V S D L L
UniRef90_Q0ADH2 S T T T A T Y A V S M T C C S H C C V T A V S T E E V S Q L D D G V V S A V E V S D L L
UniRef90_C8XGE8 M T C C E H C C V R A A V S R E A L K A V D D P G V V K R Y L E I S E L R E
UniRef90_D1C0Q5 M Q T T T L T I T M R D E H C C L R L V T N A I Q D L P G I V N H V Q V L F A
UniRef90_N6YKV2 M T C T S C C V R S I E D E L K R R P S V V A K V V V N L N
UniRef90_G2X5I6 M D C A A C A R K S V R E N A V K Q V A G V N D V Q V L F A
UniRef90_A4WFP8 M T C C H C C A S S V R E A V G A L P G V V A D V D V A P E E
UniRef90_D0LEV9 Q I E W R V T M D C G A C A A K V R G A V E R L P G V V A D V D V A P E E
UniRef90_Q2CF19 M K Q T Y K V G M T C S G C C Q S K I N N A L N A S V E G V E A S M V E D L L E
UniRef90_UPI000382EC57 M T C C D G C C A S K I V H A L E S V D P G V V S R V H L D L L S
UniRef90_UPI000237DF52 M I T S T F T V R M T C C G H C C V S S V R S E V E A L P G V V S R V H L D L L S
UniRef90_UPI0003754814 T V V L K V D L E M T C C A R C C Y R K M R K V L C K I Q A V E S A A A D H A K
UniRef90_F2DPW2 M M K V E G M H C A G C C S G R L K R L E A L P A V E S A A A D H A K
UniRef90_D1PR10 M T C C I T C A N T V E N S L K K L E G V K F A S V N L A
UniRef90_X1HJ23 T T Q L R V S M T C S A C C V I G S R I E T V L S K A D G V V S K A K V N L L
UniRef90_R7QG46 S N I H T V N F D I K M T C A A V C C V N A I T D D L K K K D W V K V L V N L L
UniRef90_A4ALY0 S E S D K C V L R V S M T C S S C C A A I E K G L K K Y P G V V E Q V L V A L L
UniRef90_W8VPU0 Y S W K V T M D C P S C C A K K I E N A V I T G I P G V V E N A R V L F A
UniRef90_U7PMR4 E F K V E L K M S G S C C A K A V E N A V S A V I E G V V E K A S V D F E E
UniRef90_UPI00026578AA M T T T T I T V S M T C C G H C C V A S V K E E I G A L P G V V S D V A V D L N
UniRef90_I3APE2 M S C C A G C C A A S V T R V L D R L P G V V A A D V V A A E A E
UniRef90_D0BN72 K V T L S V G M T C A S C C T N A V T T G A V S P I K H G I R E V V K P K V L F
UniRef90_E7GA88 Q F T V T M M C A G C C V A T V E G A L R K A S G V Q S S C A V N L M G
UniRef90_K9B019 M G C C R C C E A A I T R A I Q A A D P D A V V H V E R S
UniRef90_UPI000349B5D5 M S C C G H C C K N T I E S A L A K I N G V V R T A E V D L D
UniRef90_D8PPD2 M T C C A A C C V A A V S A E V G E L P G V V R A V V S V L T
UniRef90_UPI00035F32E5 T F S V G M D C C S A A K I E T A L S R L P G V V A D V V K V S V A
UniRef90_UPI0003684D25 F Q V D M D C A S C C A A K I E T A V R R L S G V V T D V V S V S V T
UniRef90_K2F5Q7 A H M A T T T L K V G M T C C G A C C T S A I E S G F K G V D G V V G N V S V S L V
UniRef90_UPI0003B454F6 M T C C N S C C V Q S I E E G V I S K K A G V V K S I Q V S L A
UniRef90_Y5PFT4 S P S C C V A K I E K R V G R L P G V V S H V A V K F A
UniRef90_UPI00035DAEE0 T T E Y S V N I D Q K C C V D K I T K E L A F T R G V V R D L Q F S I E
UniRef90_A0A023HQF2 Q K E T V V F H V G M M C K H C C A S H V E K A L K E V I G G V H S A C V D L A
UniRef90_U4Q5B0 M T C C H C C V A S V T E E I S G I A G V T D V A V D L G
UniRef90_A6WXD8 S P S C C V S K I E K R V S R M A G V V E N V K V H F A
UniRef90_K1XCC3 M D C C G A C A A T I E K H L S K N A S A V N V K V N F S
UniRef90_UPI0004448C62 E F Y V R G N C A S C C A R I E K A A R E A G A D T A E W D A E
UniRef90_C7MFL9 Q T Y Q V T G M T C C A A C A N R I E K R L R K V Q G V V Q E V H V N L T
UniRef90_UPI00047D72D1 M T C C A A C C A S I E R A V G R M Q G V E S V A I N L V
UniRef90_R6TV32 T H E F N V G M S C S F C C A E S I K K A Y A R T E Q G V E D V D V S L A
UniRef90_UPI00035C3592 M T C C G S C C V A H I E N H V S K Q F G V C S I L V N L L
UniRef90_UPI00029A6D04 K V T F H I T M T C S S C C V E T V E R G L E K P G V V D K T V Q V N L L
UniRef90_E7RE25 V E Y K V S M H C N A C C H R T V V K A I S E C K G V E K F I T D M N
UniRef90_D7VV14 T T S Y K V K M G C M G C C V T T V S D R L S A V T A G V T A V Q V D L A
UniRef90_L5MRN9 M T C C A S C C V S I E S A L L S V T N G I V A I V Q L H P P
UniRef90_N9Y5D1 M K T I N L Y V S M S C C S C C V S K I E S A F K Q T E I T G T D S A R V N L A
UniRef90_B9LWE6 M A T Y E Y N I A K N S C C V D K I K D E L L K I E L K Q A L V Q L S T P
UniRef90_T1G7S4 M Q T A L N J N M T C M G C C V T S I E K A L N E L D G I V A I V Q L H P P
UniRef90_I1BXG2 V F N I N M S C D G C C V S K I E S A F K Q T E I T G T D S A R V N L A
UniRef90_UPI00032ACBBF M K T I N L Y V S M S C C S C C V S K I E S A F K Q T E I T G T D S A R V N L A
UniRef90_F3XNY8 M A T Y E Y N I A K N S C C V D K I K D E L L K I E L K Q A L V Q L S T P
UniRef90_U3CHS9 M Q T A L N J N M T C M G C C V T S I E K A L N E L D G I V A I V Q L H P P
UniRef90_R9CMS9 V F N I N M S C D G C C V S K I E S A F K Q T E I T G T D S A R V N L A
UniRef90_B8CRS0 M K T I N L Y V S M S C C S C C V S K I E S A F K Q T E I T G T D S A R V N L A
UniRef90_B3ET10 M A T Y E Y N I A K N S C C V D K I K D E L L K I E L K Q A L V Q L S T P
UniRef90_Q6SG08 M Q T A L N J N M T C M G C C V T S I E K A L N E L D G I V A I V Q L H P P
UniRef90_G3JUA1 F A V P L S C D G C C I K S V S D A L Y S L G G I T K V E G N L Q
UniRef90_S6ES13 M K T T V L A L S L S C C H C C V K S V Q K V L E G I A D V T R A E V S L D
UniRef90_F3PYS1 N M H S C T G C C A A T I E R A V R K I A G V H N V K T D M K
UniRef90_UPI0002C2E867 K V H M H C H K C E Q D L K K K L L T N K G V H N V K T D M K

UniRef90_UPI000347C36C Q A S V D F D G Q T S V E Q L Q A A V E A A G Y
UniRef90_AOA011PMW3 A Q T A V R G T I G R D E V F A L V N R L G Y R A Q A M D T V
UniRef90_K2FSP8 S E K A R V I K S K V N V E D L E K A V E N A W Y K A K
UniRef90_I7KBG8 A G T A R I K E Y D S V L A D L E R T V S E A G Y E V V R S E V L
UniRef90_W0EJ48 S K T A I L L E S D I K D E A I Q F A I E D A G Y G V V G I E V L
UniRef90_F2DLW8 Q N R A H V V F D A K E E D I V E A I E D A G F F E A
UniRef90_UPI0003B79774 L E K A T V I S Y D V S L L A L E E K I A S L G F F E
UniRef90_R5U7E6 A A T A T I T T Q C S P G Q L K K A V Q D A G Y
UniRef90_W4ES45 E S T V D V N T K L D K T D I S R A I E E A G Y A V K G
UniRef90_D0IG34 T Q K L V V S F N A T A Q Q I S E Q V V R D T G F T L S S
UniRef90_UPI000333410F Q G S A T V K S V V S L Q Q I C H Q I E D M G F E A S L A E
UniRef90_F5L2Z6 K G Q V E V K F D P S V E K I T E T I D H Q G Y D V
UniRef90_M9MCD8 K A T V I F D D T I T V E K V A E E I E D T G F D A T F I E V I
UniRef90_A4EF20 T A K V T F A P T A T P A Q L T K A L E K A G Y P A R V A Q
UniRef90_F3A7C3 E K T L T V E G D V A K E S L Q A A L S D T K Y K I N
UniRef90_UPI0002E29224 L A N V R M K I D M S E E L I K G S I N K A G Y S V K
UniRef90_U5DL13 A E L A T T R H D V D L S A L Q Q A V A A A G F R A
UniRef90_A0R808 D H K L V V T S A K T T P D E I R R G I E T A G Y A I I A
UniRef90_F2EA41 T D T V V V T G Q R A L E N V V D A V K R T G K K A
UniRef90_C5VS63 G K F A I V Q G D L D D R K M K T E V E D W G Y K V I S I E E
UniRef90_A1WZ38 D D E A A V E G R P D P A M V A Q R L E E L G F T
UniRef90_A3XMS2 N A E A T I E E H I P L E T F Q K A L A E D G
UniRef90_G3M7Y4 N R S A I V Q S S I S P E T L R K T I E
UniRef90_UPI00045EBA06 T E T L T V V G Q L N R D E V I S A K I A S L G Y K A Y A M D T L
UniRef90_B9SCK2 S N E L I V V G Q V D P L Q I Q E D L R K I K K K V I
UniRef90_R5JM7 T E K A C V Y N P D L E D M K K S I E G A G F K L V T N E E
UniRef90_Q11N94 A G T M T V T S K A D L D G L A R K V T S L G Y K A
UniRef90_UPI0003FE457C T N T V Q V E Y D H T P E D L N T A L T E I L G Y
UniRef90_UPI0002E8C627 E K A V T V E F D A T L D E I K E T I D D Q G Y D V K
UniRef90_Q18DT4 T D E A A V T T T V S V K Q L Y D T I S S A G Y
UniRef90_UPI000255C748 T G K V D V E A K V G F D Q M K D A I E D Q G Y D V
UniRef90_UPI0002EFB6AB T G R V S F D P T V T S H D F I K K I Q M L G Y N A
UniRef90_V9R545 A G K V S V E S S E S P E Q I R K A V E A L G F P
UniRef90_Q0ADH2 N G Q A I V Q H D G S R E D I V Q V I E G A G F E V
UniRef90_C8XGE8 A G R V T V T S P L P L D A V R A A I D E A G Y
UniRef90_D1C0Q5 N G S V S V H S G A P L D E L R E A I D E A G Y D V
UniRef90_N6YKV2 T G A A T I E T F V S A A D I Y Q A I E D A G F G A R
UniRef90_G2X5I6 S A I V D V T E K D E A Q V L V Q V I E D I G Y D V S L E E V V
UniRef90_A4WFP8 T E K L L V S A E N D V S A A V E A V T K A G Y S L R A
UniRef90_D0LEV9 S G Q V T I S S S A P P D A I R V A V E E A G Y
UniRef90_Q2CF19 R L R L T L E G Q A T E A Q V E R A V R A V G Y G I
UniRef90_UPI000382EC57 Q Q T A T L I S N K S L N L E S L N Q V L K E V
UniRef90_UPI000237DF52 Q G K A F V T Y D T N L D D L F A A V D D A G F D A
UniRef90_UPI0003754814 T G R L E V T G S Q A T A D I R A A V A E A G Y E
UniRef90_F2DWP2 S N A V T V S G P F D A D K L C A R K L C E A G R V I K
UniRef90_D1PR10 G T A V T L K S D L S A D A L K A T V E K A G F T L V S V E S
UniRef90_X1HJ23 T E S V F L I S D L S L E K L K K A V E E V G Y G I S T
UniRef90_R7QG46 A G R A T V I H D A S A Q E L A A L V A A S G F Y C Q
UniRef90_A4ALY0 K A K I T V P D G Y D P A L I A E V E K T G Y A A
UniRef90_W8VPU0 N G N A I I E T K T N E T E I E N A I N S T G Y K V T D K K E
UniRef90_U7PMR4 S N S A T V E D D K D K E K I V E A I E D L G Y D A
UniRef90_UPI00026578AA A Q K A E V K G V I S T R E I J A A L K D L G F G A E E L
UniRef90_I3APE2 T E K L V V D A Q S D V S R I Q D A V Q Q A G F T L L G A Q T
UniRef90_D0BN72 A K K L T V E D K A E E Q K I T E A V S K A G Y Q A
UniRef90_E7GA88 N N C A N I E L D H D V E E K I T E A V E D A G Y K V I
UniRef90_K9B0I9 A G P V T L T S D L D D A D L R A A V D E A G Y E V K
UniRef90_UPI000349B5D5 Q A R V V E D P E V S L T D L V N A V R T N G F E A
UniRef90_D8PPD2 A A T V L V D T R E R A N E V Q E A I D D C G F E A
UniRef90_UPI00035F32E5 Q K H V Y V S G K L K Q Q E V K D A I R N A G F T A
UniRef90_UPI0003684D25 E G R T L V T Y N T S P E E L Q R I V R S I G Y
UniRef90_K2F5Q7 S E T A M V E I D V S S R D L E K V V E N A G Y K A
UniRef90_UPI0003B454F6 A G R V T V T S S L P D A T L C T L V T E A G Y P A T P G
UniRef90_Y5PFT4 K N E V R V T S N V S T E K D L H D A I E D Q G Y D V K
UniRef90_UPI00035DAEE0 A G R L T I T S Q H P A E T V R A A V D E A G Y
UniRef90_AOA023HQF2 T N L G E V E Y D P T V D D I V N A I E D A G F E V Q S S E Q
UniRef90_U4Q5B0 R E R L N L E N K T P V E K I E D T L R K L G F K
UniRef90_A6WXD8 N G A M T V D G T A K S D E I A G K V T A L G Y K T A L A K T V
UniRef90_K1XCC3 M E R A V I I H N I T A E Q L R E T I E E R G F D A
UniRef90_UPI0004448C62 N S S G T V E Y D T S P E S L R E A I E D M G F D A
UniRef90_C7MFL9 S G R V E V E H D T T A D E I J A A I G K A G Y P A
UniRef90_UPI00047D72D1 N Q T V A V P D R L S K D V I E K K L K D L G Y E V
UniRef90_R6TV32 S G N A T V T T A T D V A A L R A A I T G A G Y E V
UniRef90_UPI00035C3592 S G A V T V T T S E L E P A T V R A A V E E A G Y Q
UniRef90_UPI00029A6D04 S S R I E V D H D A S V D D I V A A V G K A G Y K A R A
UniRef90_E7RE25 T G K M Q I L H T A Q D K E I I Q E V E R A G F K A
UniRef90_D7VV14 K Q T V I L P S K T S S D K I L K A I A D A G
UniRef90_L5MRN9 T N K A R V P S Q T N D Q E I M T K I E Q L G F S A S L K Q E
UniRef90_N9Y5D1 S E E M K L S Y D L K F E D I Q K K I E K I G Y G V
UniRef90_B9LWE6 H E E V L V Q Y D L S E V K V K D T L R D L G Y T I R
UniRef90_T1G7S4 G Q T A E V V Y N A D P N E I T K H I E N I G F E A Q
UniRef90_I1BXG2 T H T I T S D A T L D E K A L V Q A I D S M G Y T A S K
UniRef90_UPI00032ACBBF K H M V V V T G R I D P
UniRef90_F3XNY8 S A T A R I E S T V P L Q T L Q K A L E G T H Y
UniRef90_U3CHS9 E Q S A L V E V S Q D D E R L I A A V S Q A G Y
UniRef90_R9CMS9 I A T V S S D K D I S E E L L Q Q K L Q E A G
UniRef90_B8CRS0 D K Q V Q V F G E I T I D T A I G L I E D V G Y Q A
UniRef90_B3ET10 Q A T L A M E R Y L S I N Q L Q A A L N K A G
UniRef90_Q6SG08 K K Q A K I Q Y D T N I N K L K E A I V G A G F E I N
UniRef90_G3JUA1 D Q L T A V E G S
UniRef90_S6ES13 K A I I E G E V D P Q V L I N A I V E A G Y Q A R L A D E
UniRef90_F3PYS1 K D L M S V S Y D L S P G E I R A A L L A I G Y
UniRef90_UPI0002C2E867 A Q T L A V E G T I D P E K L V I S Y L R K

UniRef90_W3WZ62
UniRef90_C5FEV0
UniRef90_UPI00037C2D2E
UniRef90_UPI000405EA83
UniRef90_Q8KE75
UniRef90_UPI000368219F
UniRef90_UPI00030A5BE5
UniRef90_F0SC39
UniRef90_C5X7L8
UniRef90_A1VB9Y
UniRef90_I1GCQ0
UniRef90_C2GIE1
UniRef90_Q17FH7
UniRef90_UPI00023795B1
UniRef90_UPI00036E5A3B
UniRef90_K9Y0G0
UniRef90_W4A0T9
UniRef90_UPI0003B6B203
UniRef90_M5PWC9
UniRef90_V6EWK8
UniRef90_D3UZB1
UniRef90_UPI00042B690B
UniRef90_D4H0T7
UniRef90_UPI000472979C
UniRef90_Q8ZS90
UniRef90_I2QSX1
UniRef90_I3Z3V4
UniRef90_UPI0003C42A47
UniRef90_X0STK1
UniRef90_T0P8D7
UniRef90_D7BDD3
UniRef90_L8DV94
UniRef90_F0T6M9
UniRef90_V0U5M6
UniRef90_X1N6F7

```

1      10      20      30      40
H M A T T T V K V D M T C A S C S N T I T E S A F Q G I S G W L S K A T V D L L
UniRef90_C5FEV0      ME K K I F T V T M S C G A C C T S A V V E S A F Q G I S G W L S K A T V D L L
UniRef90_UPI00037C2D2E M N T Q T Y R V T M T C C G G C C V R H V D K A I N K A K G V S N A E V H L L
UniRef90_Q8KE75      M T T K T Y S V K M H C A S C C A A I I T K K L S K V E G L E K A D V N L A
UniRef90_UPI000368219F M A E L T F Q I D M H C G A C C V Q R V T R V L N Q V P G T H V D E V R V G
UniRef90_UPI00030A5BE5      T T V Y A V A M T C C G H C E A T L T R E I R S L E D G V R S V E V N D R A
UniRef90_F0SC39      I G M S C A G C C A I S V E N E I R S L E D G V D E A S V N Y A
UniRef90_C5X7L8      F Q V E M H C R G C V R K V E K A M A S I G S G A E T S V G D V N
UniRef90_A1VB9Y      F A V S M T C A V C A G R I E K V V G T M D G V G A V S V N L A
UniRef90_I1GCQ0      T V D L E V T M T C S S C V H L I E R T L H A T D G I E K A R V A L T
UniRef90_C2GIE1      M A T T T Y K V E M T C G H C K K A V E E E V G A I D G V T A V E A N V E
UniRef90_Q17FH7      V G M T C A S C C V S A I E K H C K K I Y G V E S I L I A L L
UniRef90_UPI00023795B1      F K V N G N C D M C K N R I E G A L K K N S G V S D V A V D L T
UniRef90_UPI00036E5A3B      M S C A S C A N S I E S A I S N V L P G V E S C N V N F G
UniRef90_K9Y0G0      M N T Q A F V V G M T C C G H C A G A V T E E L R A L P G V E D V H V E L V
UniRef90_W4A0T9      M D K I L L R V D M D C A A E V A T L K R E L E P L V G D G S R L S F D I L
UniRef90_UPI0003B6B203      T R E I S V A M T C A S C A A L I Q L A V G R D P R V Q A A S V N Y A
UniRef90_M5PWC9      L S T T L V K V H L H C D K C E Q D L R K K L L K H K G I Y S V K T D M K
UniRef90_V6EWK8      K V A F D I S M T C A A C C A T K I E K R I S K M D G V S K A S V N F A
UniRef90_D3UZB1      S L Q T L Q L Q I S M D C G S C A K T I E A G V Q K I L G V Q E A S V S F A
UniRef90_UPI00042B690B      S D I Q T V N F Q I K M T C Q G C C A A H V V I H E V N K L S G I L N V T A S Y D
UniRef90_D4H0T7      Q T S T V T V N I L G M T C C Q S C V Q R V E T A L L R L A G V S E A T V S L E
UniRef90_UPI000472979C      T T H Q Y K L K V P H C A G C L R T V E A A L E R V D P S T G V D A V E V S V A
UniRef90_Q8ZS90      K I T I K V S M S C A M C V K A I E D G L N K L D G V S D V N V N L A
UniRef90_I2QSX1      I E F K V G M G S D H C A G I V K K A V E R L E G V K E V E T N Y P
UniRef90_I3Z3V4
UniRef90_UPI0003C42A47
UniRef90_X0STK1
UniRef90_T0P8D7
UniRef90_D7BDD3
UniRef90_L8DV94
UniRef90_F0T6M9
UniRef90_V0U5M6
UniRef90_X1N6F7

```



