

QUERY 1 10 20 30 40
UniRef90_B4F0W7 H D F K G K K R I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_F3BD04 K D M K G K K R I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_C6C6Q6 V N D L Q H L N I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_A5Z642 K D L L G K K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_G5IE90 K D M V G K K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_R6VGS2 K T M K G K R V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_D0Z938 Q D L A A Y R L I I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_R6BPE8 K T M A G K K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_F7V604 K D L A G K K V L V S A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_C9QDJ0 K P L Q G K S V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_U2NNK1 H D M Q G K R V L V S A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A A A
UniRef90_C7N1B3 K D L A G K S V L V S A G G P T R E E A L D D P V V R R Y I I S D H H S S S G T M G Y A L A R R
UniRef90_R6LMS5 K D L T G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_R5WSE1 K D L K G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_UPI0003B6E526 K D L K G K K I L V T A G S T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_UPI000427C8CF K D L A G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_R5D5Y6 K D M T G M K V I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_I0QUT8 Q D L K H L K I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A N
UniRef90_U3APM9 K D L A G Q S V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A N
UniRef90_R7CM46 K D L K G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A N
UniRef90_W0LCS3 Q D L K H L K I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A Q
UniRef90_U2KXG0 K D L Q G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_D0W1Y8 V K D L A G M R I V V S A G G P T R E E A L D D P V V R R Y I I S D H H S S S G R K M G Y A L A R R
UniRef90_A6AJ38 L V G K R V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A K
UniRef90_I3DZ56 L K G K T V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A E
UniRef90_R5JZ42 K D L V G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_D4J0A9 H D L N G K K I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_B7GGH2 L K G K K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A E
UniRef90_UPI00036B1789 L Q G R K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A K
UniRef90_R5LHA3 K D L I G K R I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_C0EFK8 H D M K G L H V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_E3GMW7 K D L A G K K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_D8PFY7 R D W T G R R L I S A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A E
UniRef90_D0Z1C9 K A L A G V K I A I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_UPI00038198A5 Q D L Q G V K I V I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A R
UniRef90_C4GDB0 H D L V G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A V A R
UniRef90_C0GIP6 N K Y Q G L H M V V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A R
UniRef90_UPI0003B769A9 K D M E G L K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A K
UniRef90_F0LPB1 K P L A G K R V L L T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A D
UniRef90_F7KNH2 K D M L G L K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A R
UniRef90_UPI0002D6692F R D L T G K R I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_R5KSL3 K D L T G K K V L I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A K
UniRef90_UPI00047C42D8 H D L K G K K I M I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A Q
UniRef90_S2LAP4 D A S G L K V V I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A E
UniRef90_R5E0R6 K D M K G L K V V T A G G P T R E T I D D P V V R R Y I I S D H H S S S G K M G F A L A K
UniRef90_L5MTW0 Q D L L D K H V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_E4KYZ7 K D L E G K H V V I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A D
UniRef90_G4HER7 L S G K K V V V T A G G T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A K
UniRef90_U2U110 L A G K C V L I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A E
UniRef90_F4DH39 L A G V K L L I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A Q
UniRef90_I3DJM0 L A H L K V A I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A E
UniRef90_UPI0004796CA7 L D L L G K R V L V T A G G T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A K
UniRef90_R6VRI8 K T L A G K R L L V T A G A T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A S
UniRef90_B8CM28 L A G I S L L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F S I A G
UniRef90_F5SCW0 L Q G K R V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_UPI0004682EE4 T E D L K G K R L I T A G G P T Y E A L D D P V V R R Y I I S D H H S S S G K M G F A L A E
UniRef90_T0NZM9 L S G R N A L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A K
UniRef90_UPI00047D05D7 L A G T R I K I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A Q
UniRef90_R7NSW7 Q D L A G R K I I T A G G P T Y E K I D D P V V R R Y I I S D H H S S S G K M G F A L A E
UniRef90_UPI0004787EFC G E L A G L H V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A Q
UniRef90_R7NEA8 K D M K G L K V C V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A R
UniRef90_R7A439 K D L T G K K I L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A R R
UniRef90_W7UVT5 K D L A G K R I L V T A G A T R E S A L D D P V V R R Y I I S D H H S S S G K M G F A L A R
UniRef90_A0LZ33 L R G K K I L I T A G G P T Y E A L D D P V V R R Y I I S D H H S S S G K M G Y E I A E
UniRef90_UPI000478738C L K G K T V V I T A G G P T R E K I D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_A7GRJ9 K T L A G K R L I T A G G P T R E K I D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_R5VQW5 K D L A G K K F L I S A G A T Q E A L D D P V V R R Y I I S D H H S S S G K M G C A L A R Q
UniRef90_A0A059NYV2 L T G R K V L I T A G G P T R E K I D D P V V R R Y I I S D H H S S S G R M G Y A I A Q
UniRef90_B3QQL6 L S G K T V V V T A G G P T R E K I D D P V V R R Y I I S D H H S S S G K M G F A I A A
UniRef90_UPI0004281792 L K G K R V L V S A G G P T K E K I D D P V V R R Y I I S D H H S S S G K M G F A I A G
UniRef90_E6QP36 H D L A G E V V I T A G G T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A E
UniRef90_S6GM09 T K L L S G K T V H I T A G G P T R E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A V
UniRef90_W0E9Y0 L S G K K V L I T A G G T Q E A L D D P V V R R Y I I S D H H S S S G R M G Y A I A Q
UniRef90_R5HUD3 K T L A G V R V T V T A G G P T Q E A L D D P V V R R Y I I S D H H S S S G R M G Y A I A R
UniRef90_D4M1K3 K D M K G L H V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A K
UniRef90_R4KP78 K D L A W S K V L V T A G G T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_B0UWV6 T Q D L L D V S V V I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A E
UniRef90_W7UCSQ6 L A G R K V V I T A G A T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A E
UniRef90_K6D6X8 S L K G K K I L V T A G G P T K E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_UPI0002559774 Q T L A G K K V T I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A A
UniRef90_UPI00041B7480 L Q N K K I V I T A G G P T Y E A L D D P V V R R Y I I S D H H S S S G K M G F A I A A
UniRef90_UPI0004278B35 L S G K K V V V T A G G T R E A L D D P V V R R Y I I S D H H S S S G K M G F A I A A
UniRef90_UPI0003B47154 K D L S G K K V L I T A G G P T R E A L D D P V V R R Y I I S D H H S S S G K M G Y A L A K
UniRef90_H3SQ06 L Q G K R V L V T A G G T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A E
UniRef90_E8RGZ0 D L K G K S V L I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A L A Q
UniRef90_UPI00037DD5FA T Q D L A G K R V V I T A G G T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A F A R
UniRef90_UPI0003B40124 T Q D L R D V R L V T A G A T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A E
UniRef90_D5EWH5 K D L A G K R Y L I T A G G P T Q E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A K
UniRef90_D1PX51 H D M Q G W K V L V T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G Y A I A K
UniRef90_U7R5Z5 H D L A H L K L A I T A G G P T R E E A L D D P V V R R Y I I S D H H S S S G K M G F A I A Q
UniRef90_R5K0K0 H D M E G V R V M V T A G G P T K E A L D D P V V R R Y I I S D H H S S S G R M G Y A I A K

QUERY UniRef90_B4F0W7 UniRef90_F3BD04 UniRef90_C6C6Q6 UniRef90_A5Z642 UniRef90_G5IE90 UniRef90_R6VGS2 UniRef90_D0Z938 UniRef90_R6BPE8 UniRef90_F7V604 UniRef90_C9QDJ0 UniRef90_U2NNK1 UniRef90_C7N1B3 UniRef90_R6LMS5 UniRef90_R5WSE1 UniRef90_UPI0003B6E526 UniRef90_UPI000427C8CF UniRef90_R5D5Y6 UniRef90_I0QQT8 UniRef90_U3APM9 UniRef90_R7CM46 UniRef90_W0LCS3 UniRef90_U2KXG0 UniRef90_D0WIY8 UniRef90_A6AJ38 UniRef90_I3DZ56 UniRef90_R5JZ42 UniRef90_D4J0A9 UniRef90_B7GGH2 UniRef90_UPI00036B1789 UniRef90_R5LHA3 UniRef90_C0EFK8 UniRef90_E3GMW7 UniRef90_D8PFY9 UniRef90_D0Z1C9 UniRef90_UPI00038198A5 UniRef90_C4GDB0 UniRef90_C0GIP6 UniRef90_UPI0003B769A9 UniRef90_F0LPB1 UniRef90_F7KNH2 UniRef90_UPI0002D6692F UniRef90_R5KSL3 UniRef90_UPI00047C42D8 UniRef90_S2LAP4 UniRef90_R5E0R6 UniRef90_L5MTW0 UniRef90_E4KYZ7 UniRef90_G4HER7 UniRef90_U2U110 UniRef90_F4DH39 UniRef90_I3DJM0 UniRef90_UPI0004796CA7 UniRef90_R6VR18 UniRef90_B8CM28 UniRef90_F5SCW0 UniRef90_UPI0004682EE4 UniRef90_T0NZM9 UniRef90_UPI00047D05D7 UniRef90_R7NSW7 UniRef90_UPI0004787EFC UniRef90_R7NEA8 UniRef90_R7A439 UniRef90_W7UVT5 UniRef90_A0LZ33 UniRef90_UPI000478738C UniRef90_A7GRJ9 UniRef90_R5VQW5 UniRef90_A0A059NYV2 UniRef90_B3QQL6 UniRef90_UPI0004281792 UniRef90_E6QP36 UniRef90_S6GM09 UniRef90_W0E9Y0 UniRef90_R5HUD3 UniRef90_D4M1K3 UniRef90_R4KP78 UniRef90_B0UUC6 UniRef90_W7CSQ6 UniRef90_K6D6X8 UniRef90_UPI0002559774 UniRef90_UPI00041B7480 UniRef90_UPI0004278B35 UniRef90_UPI0003B47154 UniRef90_H3SQ06 UniRef90_E8RGZ0 UniRef90_UPI00037DD5FA UniRef90_UPI0003B40124 UniRef90_D5EWH5 UniRef90_D1PX51 UniRef90_U7R5Z5 UniRef90_R5K0K0

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

QUERY
UniRef90_B4F0W7
UniRef90_F3BD04
UniRef90_C6C6Q6
UniRef90_A5Z642
UniRef90_G5IE90
UniRef90_R6VGS2
UniRef90_D0Z938
UniRef90_R6BP6E8
UniRef90_F7V604
UniRef90_C9QDJ0
UniRef90_U2NNK1
UniRef90_C7N1B3
UniRef90_R6LMS5
UniRef90_R5WSE1
UniRef90_UPI0003B6E526
UniRef90_UPI000427C8CF
UniRef90_R5D5Y6
UniRef90_I0QDT8
UniRef90_U3APM9
UniRef90_R7CM46
UniRef90_W0LCS3
UniRef90_U2KXG0
UniRef90_D0WYI8
UniRef90_A6AJ38
UniRef90_I3DZ56
UniRef90_R5JZ42
UniRef90_D4J0A9
UniRef90_B7GGH2
UniRef90_UPI00036B1789
UniRef90_R5LHA3
UniRef90_C0EFK8
UniRef90_E3GMW7
UniRef90_D8PFY7
UniRef90_D0Z1C9
UniRef90_UPI00038198A5
UniRef90_C4GDB0
UniRef90_C0GIP6
UniRef90_UPI0003B769A9
UniRef90_F0LPB1
UniRef90_F7KNH2
UniRef90_UPI0002D6692F
UniRef90_R5KSL3
UniRef90_UPI00047C42D8
UniRef90_S2LAP4
UniRef90_R5E0R6
UniRef90_L5MTW0
UniRef90_E4KYZ7
UniRef90_G4HER7
UniRef90_U2U110
UniRef90_F4DH39
UniRef90_I3DJM0
UniRef90_UPI0004796CA7
UniRef90_R6VRI8
UniRef90_B8CM28
UniRef90_F5SCW0
UniRef90_UPI0004682EE4
UniRef90_T0NZM9
UniRef90_UPI00047D05D7
UniRef90_R7NSW7
UniRef90_UPI0004787EFC
UniRef90_R7NEA8
UniRef90_R7A439
UniRef90_W7UVT5
UniRef90_A0LZ33
UniRef90_UPI000478738C
UniRef90_A7GRJ9
UniRef90_R5VQW5
UniRef90_A0A059NYV2
UniRef90_B3QQL6
UniRef90_UPI0004281792
UniRef90_E6QP36
UniRef90_S6GM09
UniRef90_W0E9Y0
UniRef90_R5HUD3
UniRef90_D4M1K3
UniRef90_R4KP78
UniRef90_B0UUW6
UniRef90_W7CSQ6
UniRef90_K6D6X8
UniRef90_UPI0002559774
UniRef90_UPI00041B7480
UniRef90_UPI0004278B35
UniRef90_UPI0003B47154
UniRef90_H3SQ06
UniRef90_E8RGZ0
UniRef90_UPI00037DD5FA
UniRef90_UPI0003B40124
UniRef90_D5EWH5
UniRef90_D1PX51
UniRef90_U7R5Z5
UniRef90_R5K0K0

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

QUERY UniRef90_B4F0W7 UniRef90_F3BD04 UniRef90_C6C6Q6 UniRef90_A5Z642 UniRef90_G5IE90 UniRef90_R6VGS2 UniRef90_D0Z938 UniRef90_R6BPE8 UniRef90_F7V604 UniRef90_C9QDJ0 UniRef90_U2NNK1 UniRef90_C7N1B3 UniRef90_R6LMS5 UniRef90_R5WSE1 UniRef90_UPI0003B6E526 UniRef90_UPI000427C8CF UniRef90_R5D5Y6 UniRef90_I0QQT8 UniRef90_U3APM9 UniRef90_R7CM46 UniRef90_W0LCS3 UniRef90_U2KXG0 UniRef90_D0W1Y8 UniRef90_A6AJ38 UniRef90_I3DZ56 UniRef90_R5JZ42 UniRef90_D4J0A9 UniRef90_B7GGH2 UniRef90_UPI00036B1789 UniRef90_R5LHA3 UniRef90_C0EFK8 UniRef90_E3GMW7 UniRef90_D8PFY7 UniRef90_D0Z1C9 UniRef90_UPI00038198A5 UniRef90_C4GDB0 UniRef90_C0GIP6 UniRef90_UPI0003B769A9 UniRef90_F0LPB1 UniRef90_F7KNH2 UniRef90_UPI0002D6692F UniRef90_R5KSL3 UniRef90_UPI00047C42D8 UniRef90_S2LAP4 UniRef90_R5E0R6 UniRef90_L5MTW0 UniRef90_E4KYZ7 UniRef90_G4HER7 UniRef90_U2U110 UniRef90_F4DH39 UniRef90_I3DJM0 UniRef90_UPI0004796CA7 UniRef90_R6VRI8 UniRef90_B8CM28 UniRef90_F5SCW0 UniRef90_UPI0004682EE4 UniRef90_T0NZM9 UniRef90_UPI00047D05D7 UniRef90_R7NSW7 UniRef90_UPI0004787EFC UniRef90_R7NEA8 UniRef90_R7A439 UniRef90_W7UVT5 UniRef90_A0LZ33 UniRef90_UPI000478738C UniRef90_A7GRJ9 UniRef90_R5VQW5 UniRef90_A0A059NV2 UniRef90_B3QQL6 UniRef90_UPI0004281792 UniRef90_E6QP36 UniRef90_S6GM09 UniRef90_W0E9Y0 UniRef90_R5HUD3 UniRef90_D4M1K3 UniRef90_R4KP78 UniRef90_B0UUW6 UniRef90_W7CSQ6 UniRef90_K6D6X8 UniRef90_UPI0002559774 UniRef90_UPI00041B7480 UniRef90_UPI0004278B35 UniRef90_UPI0003B47154 UniRef90_H3SQ06 UniRef90_E8RGZ0 UniRef90_UPI00037DD5FA UniRef90_UPI0003B40124 UniRef90_D5EWH5 UniRef90_D1PX51 UniRef90_U7R5Z5 UniRef90_R5K0K0

QUERY	170	180	190	200
UniRef90_B4F0W7	C	A	N	D
UniRef90_F3BD04	V	A	N	D
UniRef90_C6C6Q6	C	A	N	D
UniRef90_A5Z642	C	A	N	D
UniRef90_G5IE90	V	A	N	D
UniRef90_R6VGS2	V	A	N	D
UniRef90_D0Z938	C	A	N	D
UniRef90_R6BPE8	M	V	A	N
UniRef90_F7V604	V	A	N	D
UniRef90_C9QDJ0	C	A	N	D
UniRef90_U2NNK1	C	A	N	D
UniRef90_C7N1B3	I	A	N	S
UniRef90_R6LMS5	I	A	N	N
UniRef90_R5WSE1	V	A	N	N
UniRef90_UPI0003B6E526	V	A	N	N
UniRef90_UPI000427C8CF	V	A	N	N
UniRef90_R5D5Y6	V	A	N	N
UniRef90_I0QQT8	C	A	N	D
UniRef90_U3APM9	C	A	N	D
UniRef90_R7CM46	V	A	N	D
UniRef90_W0LCS3	C	A	N	D
UniRef90_U2KXG0	C	A	N	N
UniRef90_D0WIY8	I	A	N	S
UniRef90_A6AJ38	C	A	N	D
UniRef90_I3DZ56	V	A	N	N
UniRef90_R5JZ42	V	A	N	N
UniRef90_D4J0A9	V	A	N	N
UniRef90_B7GGH2	V	A	N	N
UniRef90_UPI00036B1789	V	L	N	S
UniRef90_R5LHA3	V	A	N	S
UniRef90_C0EFK8	L	V	A	N
UniRef90_E3GMW7	M	I	A	N
UniRef90_D8PFY7	L	V	A	N
UniRef90_D0Z1C9	C	A	N	D
UniRef90_UPI00038198A5	I	V	A	N
UniRef90_C4GDB0	I	V	A	N
UniRef90_C0GIP6	I	V	A	N
UniRef90_UPI0003B769A9	C	A	N	D
UniRef90_F0LPB1	C	A	N	D
UniRef90_F7KNH2	I	T	A	N
UniRef90_UPI0002D6692F	L	C	A	N
UniRef90_R5KSL3	L	C	A	N
UniRef90_UPI00047C42D8	M	V	A	N
UniRef90_S2LAP4	I	V	A	N
UniRef90_R5E0R6	I	I	A	N
UniRef90_L5MTW0	I	V	A	N
UniRef90_E4KYZ7	I	V	V	N
UniRef90_G4HER7	L	V	A	N
UniRef90_U2U110	V	A	N	D
UniRef90_F4DH39	I	A	N	D
UniRef90_I3DJM0	I	C	A	N
UniRef90_UPI0004796CA7	V	V	A	N
UniRef90_R6VRI8	I	V	L	N
UniRef90_B8CM28	I	I	A	N
UniRef90_F5SCW0	V	V	A	N
UniRef90_UPI0004682EE4	I	V	L	N
UniRef90_T0NZM9	I	V	L	N
UniRef90_UPI00047D05D7	I	A	A	N
UniRef90_R7NSW7	I	V	L	N
UniRef90_UPI0004787EFC	L	V	A	N
UniRef90_R7NEA8	I	V	A	N
UniRef90_R7A439	I	A	N	N
UniRef90_W7UVT5	I	C	A	N
UniRef90_A0LZ33	I	V	L	N
UniRef90_UPI000478738C	I	V	A	N
UniRef90_A7GRJ9	I	V	A	N
UniRef90_R5VQW5	I	C	A	N
UniRef90_A0A059NYV2	V	V	I	N
UniRef90_B3QQL6	V	A	F	N
UniRef90_UPI0004281792	I	V	V	N
UniRef90_E6QP36	I	V	A	N
UniRef90_S6GM09	I	A	A	N
UniRef90_W0E9Y0	L	V	A	N
UniRef90_R5HUD3	I	V	A	N
UniRef90_D4M1K3	I	J	A	N
UniRef90_R4KP78	L	V	A	N
UniRef90_B0UUW6	I	C	A	N
UniRef90_W7CSQ6	I	V	A	N
UniRef90_K6D6X8	I	V	A	N
UniRef90_UPI0002559774	I	V	A	N
UniRef90_UPI00041B7480	I	V	L	N
UniRef90_UPI0004278B35	I	V	A	N
UniRef90_UPI0003B47154	I	C	A	N
UniRef90_H3SQ06	I	V	A	N
UniRef90_E8RGZ0	I	V	V	N
UniRef90_UPI00037DD5FA	I	V	V	N
UniRef90_UPI0003B40124	I	J	A	N
UniRef90_D5EWH5	I	C	A	N
UniRef90_D1PX51	I	C	A	N
UniRef90_U7R5Z5	I	C	A	N
UniRef90_R5K0K0	I	A	A	N

QUERY Q L L L D E I V T R Y D E K N R
 UniRef90_B4F0W7 H R L L D E I A K H Y D E K N
 UniRef90_F3BD04 N E I V N T I L E K L S
 UniRef90_C6C6Q6 Q Q L I D E I V S R Y D E K N
 UniRef90_A5Z642 A Q I L D T I V K K
 UniRef90_G5IE90 G R L L D E I M K R
 UniRef90_R6VGS2 G Q L L D T I L E R I Q A
 UniRef90_D0Z938 C T L I N E I V R H Y E E K N R
 UniRef90_R6BPE8 G Q I I D E I L A R L
 UniRef90_F7V604 S G I L D Y I A A H
 UniRef90_C9QDJ0 S Q I I L T I A E R L E A
 UniRef90_U2NNK1 N L I L D A V M E R L R H
 UniRef90_C7N1B3 D R L L D E L F K L
 UniRef90_R6LMS5 A C I L D K I L E C M N K
 UniRef90_R5WSE1 N A I L D K I L S V C K E R
 UniRef90_UPI0003B6E526 N E I L N E I L S K I D K
 UniRef90_UPI000427C8CF H R I L D E I
 UniRef90_R5D5Y6 F H I L D H I L V C K D A K N K
 UniRef90_I0QQT8 Q A L I N E I V S R Y D E K N R
 UniRef90_U3APM9 V K I L H Q I H H L M D
 UniRef90_R7CM46 F R I L D K I L S L M Q D
 UniRef90_W0LCS3 Q R L I D E I V S R Y D E K N R
 UniRef90_U2KXG0 H A I L D V I A K T L S
 UniRef90_D0WYI8 G R L L D E L
 UniRef90_A6AJ38 S A V M H L I H E Q M
 UniRef90_I3DZ56 K K I L K E V F L L L E G E S K
 UniRef90_R5JZ42 A G I L N E I L R L Q T Q G N
 UniRef90_D4J0A9 Q A I L D E I V K
 UniRef90_B7GGH2 K E I L R E V H R E I E G R
 UniRef90_UPI00036B1789 Q D L V G L V V D K L N S
 UniRef90_R5LHA3 D T I L D A I V
 UniRef90_C0EFK8 Q V I L D T I L K L
 UniRef90_E3GMW7 G Q I L D T I L E C L
 UniRef90_D8PFY7 H L I L D R I L T L
 UniRef90_D0Z1C9 Q Q L I A E I A A L Y Q Q
 UniRef90_UPI00038198A5 A D L V N E I V E Q Y Q K H
 UniRef90_C4GDB0 D A I L D Y M K E
 UniRef90_C0GIP6 R Q I L H E A T Q L L T K Q
 UniRef90_UPI0003B769A9 N C I L D E L T K M
 UniRef90_F0LPB1 H A L M L L I N D K L
 UniRef90_F7KNH2 T L L I N H I L A L R Q K
 UniRef90_UPI0002D6692F D K L L D A V L A K I S
 UniRef90_R5KSL3 Y D I I S E I V G R L
 UniRef90_UPI00047C42D8 H R I L D A I L D E L
 UniRef90_S2LAP4 V A I L D T I L E R L A E R Q
 UniRef90_R5E0R6 D E I F N N I L A
 UniRef90_L5MTW0 D K L F D A V L L K L Q Q K
 UniRef90_E4KYZ7 R E I L D R A R K L M S
 UniRef90_G4HER7 R R L L T L A A E R L S G R
 UniRef90_U2U110 R A L A E H I A N M L A A K
 UniRef90_F4DH39 R H L T A L I A R H Y R H
 UniRef90_I3DJM0 K Q L V N K I V I E K Y N E K Q
 UniRef90_UPI0004796CA7 S K I F D V I N E L
 UniRef90_R6VR18 A R I A D K L E T L L K
 UniRef90_B8CM28 K Q L L T L I A E K V R T K
 UniRef90_F5SCW0 D R L V A L I G E R L H H
 UniRef90_UPI0004682EE4 R D I I D E I V S V L
 UniRef90_T0NZM9 K D I C Q L I V Q H
 UniRef90_UPI00047D05D7 E Q L M N L V A Q H Y Q K
 UniRef90_R7NSW7 C D I T D K L V R
 UniRef90_UPI0004787EFC A R I V S R L A S I R Q E R
 UniRef90_R7NEA8 S K I L D F I M A K
 UniRef90_R7A439 M E I L T V L R D M M K
 UniRef90_W7UVT5 N I I L S K L
 UniRef90_A0LZ33 E D I L K E I I E I L D A
 UniRef90_UPI000478738C E K I I E E I S L L L K D
 UniRef90_A7GRJ9 Y E I L K Q I E S M L E D
 UniRef90_R5VQW5 H R I L D T I L E
 UniRef90_A0A059NYV2 E N I L L A A I Q E M E S E N R
 UniRef90_B3QQL6 E R L L D A I E L L L
 UniRef90_UPI0004281792 G Q I L D L I S T A L K D E S R
 UniRef90_E6QP36 D R I L D E I V
 UniRef90_S6GM09 Q Q L I R H I A L L M T Q R
 UniRef90_W0E9Y0 R H L R D K I A E L L
 UniRef90_R5HUD3 A H L L D E I Q R R
 UniRef90_D4M1K3 D R I L D Q I L A Q
 UniRef90_R4KP78 E V I W D K V L Q L
 UniRef90_B0UUW6 K Q L V D K I I V R Y K W K
 UniRef90_W7CSQ6 R E I I E Q A A R L L E E K
 UniRef90_K6D6X8 K E I L K K A A T F L K
 UniRef90_UPI0002559774 A E L I K H I A A R
 UniRef90_UPI00041B7480 Q D I I T E V I K M F H A
 UniRef90_UPI0004278B35 R R L L S I A A E R I A G R N
 UniRef90_UPI0003B47154 N A I L D R
 UniRef90_H3SQ06 R R L L Q I A A Q
 UniRef90_E8RGZ0 D R I L D R V V T L L G E K
 UniRef90_UPI00037DD5FA D A V W D R V V A L I S
 UniRef90_UPI0003B40124 D A I L T K V V S L R N S
 UniRef90_D5EWH5 D L I I D H I Q T L
 UniRef90_D1PX51 S L I L D T I M E
 UniRef90_U7R5Z5 H H L L D E I V R R Y D E K N R
 UniRef90_R5K0K0 D R L L D E L M K L H K

UniRef90_F2NKA8 A A R D R G A R V V L V S N S G P T T L P 60 A P W G V V E C V R V V T T S A A E D M A F D D V V K H
UniRef90_C4ZEU7 N C M L R R G A H V V L V S N S G P T T L P 60 A P W G V V E C V R V V T T S A A E D M A F D D V V K H
UniRef90_D1PMI5 A A C M L R R G A H V V L V S N S G P T T L P 60 A P W G V V E C V R V V T T S A A E D M A F D D V V K H
UniRef90_NOAX70 E A A K E R G A N V V V L V S S S G P T T N L P 60 A P W G V V E C V R V V T T S A A E D M A F D D V V K H
UniRef90_I9GHB4 A C A G R G A E V V V L V T T G P P V V N L Q L Q T S T P P K G V I H K R I R V D V V E T S A A E D M A F D D V V K H
UniRef90_UPI00046514F9 A A V K L G A G V V T L L I T T G P P V V N L P D P P P K G V M E V V V H I E T S A A L E D M Q Q A A V V M V
UniRef90_UPI00037A567B E A R D R G A D V V T L V A S G Q T Q V L C P P E P G V V T L V R V E S T A Q Q D M Y E A V M
UniRef90_S9T1H6 A A R N M G A Q V V V V V A S G Q T Q V L C P P E P G V V T L V R V E S T A Q Q D M Y E A V M
UniRef90_G7SWV2 A F A E R G A T V V T L I S S G P T T N L A T E K P P D G V V Q S R I N V V K S T A Q Q D M Y E A V L
UniRef90_Q9K9Y4 A A R D F G G N V V T L I S S G P T T N L A T E K P P D G V V Q S R I N V V K S T A Q Q D M Y E A V L
UniRef90_UPI0003FF58A7 A A V A R G A E V V V L V S S G P T T H L S P V P G V A R L L R V R S T A E D M L Q Q A V L
UniRef90_K7VX64 A A L H R G A K V V L V H C P P A N W D V P P L G V V K E A I A V V V S A L E E M Q Q A V M F
UniRef90_UPI000472CD4D A C K A Q G A E V V T L V S S G P T T S L L Q Y P P S G V V K V V A V I T S A E E M Y H A V D
UniRef90_W4QAV5 A A K Q L G A E V V T L V S S G P T T S L L Q Y P P S G V V K V V A V I T S A E E M Y H A V D
UniRef90_A0LD63 A A Q R R M G A R V V T L V H C P P A N W D V P P L G V V K E A I A V V V S A L E E M Q Q A V M F
UniRef90_F8FC33 E A A R R M G A R V V T L V H C P P A N W D V P P L G V V K E A I A V V V S A L E E M Q Q A V M F
UniRef90_R5KCU8 E C A R R R G A E V V T L I S T G P P V S L L E A P P D G V V V R E R V D V V E S C N G M Y N A V L
UniRef90_Q5WFK5 E A R R M G A H V V T L I T S G P P T A L E A P P V I Q Q V D L V R V V E T A A E E M Y N A V I
UniRef90_H8GGN4 A A R D M G A S V V L V I T S G P P T A Q L P A P P V I Q Q V D L V R V V E T A A E E M Y N A V I
UniRef90_Q491W9 A A A D K G A K V V T L I T G P P V N L R L R T P P R A V V Q R I N V V T S A L D M Q E A V M
UniRef90_L8D548 A A L Q L G A H V V N L I T A G P P V N L P T P P H G A G V V K R I N V V E S A L Q M R D A V L
UniRef90_U6B8B1 A A A K R G A N V V T L V A G P P V N L P T P P H G A G V V K R I N V V E S A L Q M R D A V L
UniRef90_A5D1C2 A A A R R G A R V V L I S G P P T S L L K E P P H G V V E L I R I V V E T A L Q M Y D A V M
UniRef90_D5HGQ4 Q A M L R G A D V V T L V T G K V I E P P P R F V N V V I T S A Q Q D M Y E A V M
UniRef90_G8AF97 A L R R L G A E V V T L V M G P P S A V L Q Q H E L T R R I D V V V S A Q E E M Y D A V H
UniRef90_W8VXG4 D L A N R G A T V V T L I M G P P S A V L Q Q H E L T R R I D V V V S A Q E E M Y D A V H
UniRef90_UPI0004012D03 E A A K L G A E V V T L I S S G P T T S L L D E D P P A G G V V N R I D I T T A E E M Y Q D A V L
UniRef90_K2Q5E9 A L A R L G A E V V T L I S S G P P T T S L L D E D P P A G G V V N R I D I T T A E E M Y Q D A V L
UniRef90_I0JM88 Q A S L M G A V V T L I T G P P V D L L D T P P A G G V V N R I D I T T A E E M Y Q D A V L
UniRef90_UPI0003801B3D E C Y Q R M G A D V V T L I T A G P P V S M K C A S A D G G I N R I D V V E S T L E M Y N A T
UniRef90_UPI000248C5EE E A Q R M G A N V V T L V A G K A S A A P A P A T V V K V E S T L E M M E A V L
UniRef90_D3IIA4 E C S R R R G A D V V L V A G P P V S L S S S A S T I R R I D V V E S A D E M H A A C V
UniRef90_R6E1Y2 E C A K R G A E V V T L V A G P P V S L S S S A S T I R R I D V V E S C A D E M Y N A S L
UniRef90_I0WFR5 S A A S L G A E V V L V L G P P S T E T F H P Q Q V I V E R V V V S A K Q M Y E A A H
UniRef90_G5H9E7 E L S R R G A E V V L V S G R T G L P V P Q G V V K R V D V V L T A E E M Y R A A V
UniRef90_R1CRL1 E A E K M G A E V V L I S S G P T H L K A P P D G V V E V V N V N T T A E E M Y N A T
UniRef90_I2GIN4 A F A R A G A D V V T L V S S G P P T A N W D V P P L G V V K R I N V V V S A E Q M Y E A T A
UniRef90_B2IU4 A A L H R G A N V V T L V H C P P A N W D V P P L G V V K R I N V V V S A E Q M Y E A T A
UniRef90_J5HUD6 A F A K R G A K A T V T L I S S G P P V N L A T A P P A K K I R I N V V V S S K E M Y E D A A L
UniRef90_U2L6G9 E C L A R G A K V V T L V S S G P P V N L A T A P P A K K I R I N V V V S S K E M Y E D A A L
UniRef90_V2YFZ5 M A M L R G A Q V V L V T T G P P A A L V A P P P F V I E V V P V V S A Q Q D M F E A V S
UniRef90_B4S4E9 E A A R R G A D V V T L I T G P P V V Q M P T P P E G A V I R R R I D I V E T A A Q D M Q R A V S
UniRef90_R5GGG8 E C A A R G A R V V T L V S G P P V S Q M P T P P E G A V I R R R I D I V E T A A Q D M Q R A V S
UniRef90_UPI0003828C25 A A I E S G A T V V T L I S S G P P V N L D T P P D R G V V T R V D V V L S A R D M H Q A V H
UniRef90_A0A011R2N5 A A R E A G A G V V T L V S S G P P V N L D T P P D R G V V T R V D V V L S A R D M H Q A V H
UniRef90_UPI00037C1632 I A A N R G A D V V T L V S S G P P T N L E V P S N I K L I R I V S S A L Q Q M Y N A I I
UniRef90_H5SJ6 Q A R N L G A D V V C L I T T G P P T Q L L P P A G V I E C I R V V E S A A E M Y N A V L
UniRef90_UPI00035D0238 A L Y S L G A N V R L V C L G P P V N L F R F K D I G V T S I S A E E M Y N A C L
UniRef90_F3B1H4 M A A Y R G A K V S L V L G P P S N V F V P K D I G V T S I S A E E M Y N A C L
UniRef90_UPI0004715E10 A A R V M G A E V V T L I L A R T D E A P P P E I R R V R V V E S A A D M Y D A V L
UniRef90_E1GTJ6 E C A C R G A K V V T L V S S G P P V N L Q C S E S G V E R I D V I E T A K E M Y D A V V
UniRef90_UPI000309B48E A A R D H R G A N V V T L V S S G P P T D L N T P P P K F V Q I E E T A Q Q M Y E A V M
UniRef90_R5G7M6 R A M L R G A D V V T L I S S G P P V A L N T P P P F V V K M V V I V T A Q Q D M F E A V S
UniRef90_R9LW8 A A M L R G A E V V T L V T G V T A L K P P M F T E V V K V V V S A E E M H E V M
UniRef90_C4ZLV9 A C A Q A G A E V V L V S G P P V S L K Q H S R I H R I D V V E S A T Q E M Y E A A Q
UniRef90_H6WNU6 E C A R R G A E V V T L I S G P P V Q L K Q H S R I H R I D V V E S A T Q E M Y E A A Q
UniRef90_R5B8N5 A A A N S G A E V V L V T S V K N I K A V D E R I E V I T I V E S A E D M Y D A V T
UniRef90_W7CRE4 E A A S L G A N V T L V T S V K N I K A V D E R I E V I T I V E S A E D M Y D A V T
UniRef90_C5T3V9 A A R E A G A D V V T L V A G P P V H L P T P R G V R R V D V T Q S A Q E M L A A V E
UniRef90_UPI0004127591 A A V S L G A E V V T L V A G P P T N L E T P P P C K F I K T V E S A E E M Y E A I V T
UniRef90_E3PSX4 Q A A L M G A K V V T L V T G P P T N L E T P P P F G I R V K V E S A Q Q M Y E A V T
UniRef90_R7LFV7 S C A N R G A E V E L I A G P P V E L T D H P R I H R T D V V C A Q E M F E A A T
UniRef90_R5NY78 T C A N R G A K V M L V C G P P T S L T T Q A G G V R R I D V V E S A E D M F R E A T
UniRef90_B0PFU2 A A S R R G A A V T L V T G P P T A L P A P P R N V K F Q S V E T T R E E M M D A V L
UniRef90_D2RL25 D A A R R G A E V V L V T S G P P T A L P A P P R N V K F Q S V E T T R E E M M D A V L
UniRef90_D3L2S1 T A W Y R G A D V V T L I K G P P T Y I E S P F G V R T I D I E T T A Q E M Y D A V L
UniRef90_H1HLX3 E C Y Q R G A E V V T L V S G P P V V L P C S K G I K R I D I E S C A Q E M Y E Q A I
UniRef90_F4L0Y9 A A A R R G A E V V T L V L G P P S K L P Q E K N V R V I N V E T A R E M H E A A L
UniRef90_H9UDH5 I A K R L G A Q V V C L V L S G P P C L Q P Y Y T D Y V S V E S A K E M F E A V L
UniRef90_Z4WRG1 E F A R R G A E V V T L V S G P P S S L R P R E E V K V L P V M T A E E M L R V A E
UniRef90_UPI000374F4B9 V L A E R G A Q V V T L V S G P P T N L T V H P C I E R I R V R S A A D M Y H A C L
UniRef90_UPI000318E82D V A A Q L G A T V V T L V S G P P V N L V T P K A V E R I D I V T T A E E M Y Q T M L
UniRef90_UPI0004788A15 A A L H R G A N V V T L V H C P P A N W D V P P L G V V K E A I A V V V S A L E E M Q Q A V M F
UniRef90_I0KCN9 A F A R A G A N V V T L V A G P P T Y L A T P P D E T R R I N V V R S A Q E M F Q S T A
UniRef90_C9RCK8 A A R D R G A K V V T L I S S G P T G L L P P S G V I E F V V T T A L E M K E A I E
UniRef90_F0GUF2 A A K R R G A E V V L V S G P P V D P L I E I D G G I K R I E V R T A N K E A I E
UniRef90_F5L7V0 V L A G M G A E V V L V S S G P T A L D V P Q G V V K R I S V V T A D E M Y Q A V I
UniRef90_UPI0003F8DEE7 E A A K R G A T V V T L V S S G P P S S L L D P P G V V T T V R V T T A E E M Y D A V I
UniRef90_K7SFE3 A L A A L G A R V V T L V S S G P P V S I P A P P R G V V T V K V V T A E E M L A C E
UniRef90_C7JHC9 A L A D L G A T V V T L V S S G P P T T L R A P A D V V T Y V A C E T A C Q M L L E C V K
UniRef90_R5I2U9 E L S R R G A R V V T L V S S G P P A A V I A P S P D V A E T R K V V S A E E M Y A V E
UniRef90_U1KS87 A A L D L G A T V N L I S S G P P A A V I A P T D D A P I E S A Q Q M L D I A M
UniRef90_K9WQN0 A A L H R G A T V T L I H A P I T W E V P S G I R A I A V V S A A Q Q M G Q A M L
UniRef90_A9BN38 A A R E A G A Q V T L V A G P P V H L R T P R G V R R I D V V E T A Q E M F D A V H
UniRef90_D5WPF3 A A R D R G A T V T L V A G P P V G E L R S P E G V R I R V E T A L E M R D A V L
UniRef90_UPI0002E08055 E L Q K Q G A E V T L I S G P P T S L T A P D G I K R V N I T S A S E M L Y A C Q
UniRef90_UPI00040AD2A4 A A L N M G A N V T L V A G P P V N L S A P T T I R R L N V V K S A R Q M H Q A A L
UniRef90_R6NUA8 Q A R D M G A D V T L V S G P P V N L S A P T T I R R L N V V K S A R Q M H Q A A L
UniRef90_O35033 A A V Q L G A R V I L I S S G P P V S L D Q P K G A E F I P V Q S A A Q D M R E A V L
UniRef90_UPI0003732547 A A R D L G A H V Q L I A A S T D G P P S H H R V I E V I Q A M S A Q Q D M Y D R V M
UniRef90_T1DRV0 T L A T Q G A E V N L V L A G P S A L P P S H H R V I E V I Q A M S A Q Q D M Y D R V M
UniRef90_A6EF67 Q L A T L G A T V T L I S G P P T A E K S L H K V N R I N V T S A A D M L E A C T

UniRef90_F2NKA8 A H F A E A D V V V 90 M T A A V A D Y R P A E V K A E K E P K T A G E K V P N P D
UniRef90_C4ZEU7 S K A A E Q D L I I M T A A V A D Y R P S H P A D E K T V K K N D I G E L E R T E D
UniRef90_D1PMI5 Q Q A M D A D A L V K T A A V A D Y R P A T I V A E D D K V K K K Q G E M T Q Q E
UniRef90_NOAX70 E H F E N A A V V V I M A A A V A D Y R P K I T Y A D N K M K K K P G E T V L E Q E
UniRef90_I9GHB4 L Y F Q Q A D A G I L C A A V A D F T P E T T A G Y K T K R E K D R E I K P T Q D
UniRef90_UPI00046514F9 D N I A N C D I F I M S A A V A D Y R P A N I A V Q K K K Q G D E I Q K N P D
UniRef90_UPI00037A567B G A S R D A D L V V G M T A A V A D Y R P A A E R S D E K Q A K V T V H L T P N P D
UniRef90_S9T1H6 S R Y P E I D L V V K T A A V A D Y R P V A R A P Q K L K K T I E L E R N N P D
UniRef90_G7SWV2 K S A V E N Q I F I G C A A V A D Y R V A E I A T Q K K K K A G D E L N K N P D
UniRef90_Q9K9Y4 A E F S D A D V V I K T A A V A D Y R P R V V H E Q K V K K W I E L E R T V D
UniRef90_UPI0003FF58A7 Q E F P R V D V F I S A A A P V D F Q P V Q R Y E H K W K K T D G E L Q L P T P D
UniRef90_K7VX64 K H L G N A D I L I M S A A V A D V K P R D Y C S E K L P K R S L P E N L P P D
UniRef90_UPI000472CD4D V I F P K S D I A I F S A A V A D Y R P T T P Y E G K M Q E L Q L Q L T K N P D
UniRef90_W4QAV5 E A F T H S D L L I K A A A V A D Y T P K V V Y D Q K R K K Q Q D E W S I E M D
UniRef90_A0LD33 V A A P Q S D A A I M S A A V A D Y R P L Q V A P Q K K L K K I Q S D E W S I E N P D
UniRef90_F8FC33 S R M E Q Q D I L I K A A A V A D Y R P A E A A P Q K K I K K K S D E M T K N P D
UniRef90_R5KCU8 A E F N Q C D A A I L C A A V A D F K P E Y V A E N K L D N L S I R L S P T N D
UniRef90_Q5WFK5 K R Y Q Q A D I V I K A A A V A D Y Q P V D V F A H K Q K K N A R D E W S V A L E
UniRef90_H8GGN4 A R A E A S D I Y I G A A A V A D Y T P A E T Q S E K K I K K R G D T A R K T R E
UniRef90_Q491W9 R D I S N Q Q I F I G C A A V S D Y R L C H V S L D K I K K N K N T M V K N P D
UniRef90_L8D548 E L A L Q S D V F I G C C A A V A D Y R P A H V A E Q K M K K Q A D E M V K N P D
UniRef90_U6B8B1 N I I D K Q D I F I G C C A A V T D Y R P K E F T K E K I K K Q A D E L T K N P D
UniRef90_A5D1C2 E H F P G A D V V V K S A A V A D Y R P K A V S P Q K I K K H T I E L E K N P D
UniRef90_D5HGQ4 D R S T E Q D V I I K A A A V A D Y R P A E V A E H K I K K A D G D M S I K L S
UniRef90_G8AF97 S A L P R Q D L A V C A A A V A D W R V A G E S D R K K L K K K D G G G P E N P D
UniRef90_W8VXG4 M Y V S S Q D Y A I F S A A V A D Y K P V N T A N Q K I K K Q T I E L V K N P D
UniRef90_UPI0004012D03 S V F D E S D I V I K T A A V A D Y R P K H I H A G K M K K K D I E L E A P N P D
UniRef90_K2Q5E9 S A L P R Q D I A V M V A A V A D W R V A S A G Q K K K Q P G E A P N P D
UniRef90_I0JM88 K E Y P Q Q D L V I K S A A V A D Y K P K V T Y E H K M K K Y A V E M E R T K D
UniRef90_UPI0003801B3D K A F S D C D A A I L C A A V A D F K P E N I A D K K I K R E I Q L E M T P H D
UniRef90_UPI000248C5EE S R L P E Q D V I I K A A A V A D Y R P A E I Q A E H K I K K S G D E M T N P D
UniRef90_D3IIA4 A E F A H A D A A I L C A A V A D F K P A A V A A Q K I K R E G D G L T A T H D
UniRef90_R6E1Y2 E A F P L Q D A A I L C A A V A D F K P A T T A D R K I K R G A H I L E P T Q D
UniRef90_I0WFR5 V H Y P D V D V A I L C A A V A D Y R P T S V A D Q K I K K A H I L E P T Q D
UniRef90_G5H9E7 D T F A G C D G A V M C A A V A D Y T P A E V A V T K I K K E G A E W R Q T H D
UniRef90_R1CRL1 K R F N G C D V I I K A A A P L D Y K P E E V Y N N K I K K G E N G F T R N P D
UniRef90_I2GIN4 A A F P S A A V T I L N A A V A D Y T P A H P A D R K I K K Q E A D F T K T D
UniRef90_B2IUV4 E Y L P N A D V I V M S A A V A D V K P R D Y S T E K L P K R S L P Q E P V P D
UniRef90_J5HUD6 K F A Q K S A I F I G C C A A V A D Y R V A E I A T Q K I K K T N D N D E K N P D
UniRef90_U2L6G9 S H F E Q A D V G I L C A A V A D F K P V Q A A T T K I K K N E W S H L P T P D
UniRef90_V2YFZ5 A R Q D W A D F I F K A A A V A D Y T P A Q Y A G D K L K K K D G E L N R T P D
UniRef90_B4S4E9 R I A S G C D F I F G A A A V A D Y R P A E T V T G K I K K T S E T I T R N P D
UniRef90_R5GGG8 E A F S S A D A A I L C A A V A D F T P D Q A A S S K I K E Q T L H I I P T Q D
UniRef90_UPI0003828C25 D R I E G V D I F I G C C A A V S D Y R P A E V A K E K I K K D P I K L V R N P D
UniRef90_A0A011R2N5 Q Q V A G S N D V F I A V I A A V A D Y R P A R P M A Q K I K K P S I E L V Q N P D
UniRef90_UPI00037C1632 D N F D E S E V I I K S A A V A D Y K P K T Y S D K K I K K S N D I L V I E L D
UniRef90_H5SJ16 E R F A Q Y D L I L M A A A V A D W R P K R V S S Q K L K K A G A R E E K T P D
UniRef90_UPI00035D0238 S H F V D A D I A V M A A A V A D Y T P V H V S P G K I K K N N D E L T K T K D
UniRef90_F3B1H4 K I S D A Q D I I K A A A V A D Y T P A N Y S S E K I K K K T I E L S R T K D
UniRef90_UPI0004715E10 D A W K D C D I L V K A A A V S D Y R P R Q S A E S K I K K S N L E L V K T T D
UniRef90_E1GTJ6 A R F P E A D V A I L S A A V A D F K P Q V I S D K K I K R E G K Q L Q S T Q D
UniRef90_UPI000309B48E K N Y A T T D I V I K A A A V A D Y R P K V A F A E K M K K Q D I E M E R T I D
UniRef90_R5G7M6 N S F S E Q D I L I K S A A V A D Y R P A V V S D E K V K K K D G D M E R T T D
UniRef90_R9LW8 K R A S Q M D L I F K A A A V A D Y R P S K V A E D K I K K S Q G M D E R T K D
UniRef90_C4ZLV9 H A L P G A D V F I G V I A A V A D Y R P L A S A E H K I K K S A D T M N P D
UniRef90_H6WNU6 T C F P T S D V G I L C A A V A D F R P E T V A G K K I K R E K E H L Q A T Q D
UniRef90_R5B8N5 N Y W H D C S V G I M C A A V A D Y R P R Q M V E S K I K R E H T F G M K N P D
UniRef90_W7CRE4 Q R S E T M D I I K A A A V A D Y T P D A Y R P H K I K K S N F T F R T T D
UniRef90_C5T3V9 Q H A Q S A S V F I A T A A V A D W R P A T S S S Q K I K K D G S G Q P P N P D
UniRef90_UPI0004127591 S Y Y N E A D V V I K T A A V A D Y T P S I T Y D S K V K K A D G D F K R T K D
UniRef90_E3PSX4 S S F D E M D V I K S A A V A D Y K P K N I S D S K I K K S D S E L D R N K D
UniRef90_R7LFV7 S L F P S V D A G I L C A A V A D F T P I K K A D H K I K N L H L E L Q P T Q D
UniRef90_R5NY78 A H F P E S D A A I L C A A V A D F T P A Q A S D R K I K R E A D R L K P T R D
UniRef90_B0PFU2 S R A S V Q D I I V K C A A V A D F R P R T A A A D K I K K M T I E L E R T R D
UniRef90_D2RL25 A A Y P K V D V V I M A A A V A D Y R P H H A E E Q K I K K N D D T L D K N P D
UniRef90_D3L2S1 K E S D G A D I V V K A A A V G D Y R F A H T L D Q K I K R E G R G R E E N P D
UniRef90_H1HLX3 T I F P H Q D V A I L C A A V A D F Q P E N V A N Y K I K R E K I L K P T R D
UniRef90_F4L0Y9 L H Y P Q F D A A I L A A A V A D Y R P K T V A T E K I K K K G E L L Q K N P D
UniRef90_H9UDH5 E K Y K E Y D I L I M C A A V A D Y S P T Q S A Q E K I K K T Q D E L S K N P D
UniRef90_Z4WRG1 D N I G E A D I A I F A A A V A D Y R P L H S S D E K K I K R E E K L V R N P D
UniRef90_UPI000374F4B9 H Y F P K A S L T V L A A A V A D Y T P R V V A D Q K I K K N E S T F Y R T V D
UniRef90_UPI000318E82D D H F D E Q D I V I K S A A V A D Y R P R V T V H Q H K I K K Q A D T L E L K L E
UniRef90_UPI0004788A15 R H L P D A D V I V M S A A V A D V K P Q E Y N S E K L P K R S L P E E P V P D
UniRef90_I0KCN9 D A F P T A D V T I L N A A V A D Y T P A Y P A D K K I K K N D A Q F A I E L D
UniRef90_C9RCK8 R H F E Q A D V L V M A A A V S D Y R P S E Q V A G K I K K G P E K I T R N P D
UniRef90_F0GUF2 R D F S D A D L I M S A A V V D Y R V E N P S D R K I K K N G N L T I T R N L D
UniRef90_F5L7V0 R H Y S S V D A V F K A A A V A D Y H P L N K S E Q K I K K D A E I T I T F K
UniRef90_UPI0003F8DEE7 S R Y H D Q D L V I K S A A V A D Y R P S E T F E G K V K K M T I P M E R T K D
UniRef90_K7SFE3 Q A L P A D L A V C T A A V A D W R A S V P A G R K I K K T G D G P E N P D
UniRef90_C7JHC9 S A A P F D A A V C T A A V A D W R P E V Q A G Q K I K K I S R D D V P N P D
UniRef90_R5I2U9 E Y G R G C D I F I L C A A V A D F T P A S P S D T K I K K D G S R M T P T K D
UniRef90_U1KS87 H L A P K S D V F I G C C A A V A D Y R A A T I S E Q K I K K Q G D E M I K N P D
UniRef90_K9WQN0 E C F P D A D V I V M A A A V A D V K P A E Y T P E K L P K K L L P N E P V P D
UniRef90_A9BN38 Q Q L P Q A G V F I A T A A V A D W R P A K A S D Q K I K K D G S G Q T P N P D
UniRef90_D5WPF3 A N L P M H D V L I K A A A V S D Y R P A V V H P S K V I K K A T V E L V R N P D
UniRef90_UPI0002E08055 K A F N T T D I C V M S A A V A D Y T P Q E V A S Q K L K K N T D E F S I N T D
UniRef90_UPI00040AD2A4 D S L P M T D I F I A C A A V A D Y R A E E V H S E K M K K A D T D S I T L D
UniRef90_R6NUA8 E H F T Q A D L T I M A A A V G D F R P I E E Q S S E K I K K N G R L T S N P D
UniRef90_O35033 S V Y D A S D I V I K T A A V A D F T P K T V F D H K M K K Q D G G M K R T V D
UniRef90_UPI0003732547 E R M E E A D I I K A A A V A D Y R P A K M E S S K M K T N E R L T L E L E
UniRef90_T1DRV0 Q L F P S T D I A I M T A A V A D Y R P K E V A K Q K I K Q S M E I K L V A N P D
UniRef90_A6EF67 A A F T Q T D I M V M S A A V A D Y T P V K K E T Q K I K K H T E E F Q K T D

UniRef90_F2NKA8
UniRef90_C4ZEU7
UniRef90_D1PMI5
UniRef90_NOAX70
UniRef90_I9GHB4
UniRef90_UPI00046514F9
UniRef90_UPI00037A567B
UniRef90_S9T1H6
UniRef90_G7SVV2
UniRef90_Q9K9Y4
UniRef90_UPI0003FF58A7
UniRef90_K7VX64
UniRef90_UPI000472CD4D
UniRef90_W4QAV5
UniRef90_A0LD63
UniRef90_F8FC33
UniRef90_R5KCU8
UniRef90_Q5WFK5
UniRef90_H8GGN4
UniRef90_Q491W9
UniRef90_L8D548
UniRef90_U6B8B1
UniRef90_A5D1C2
UniRef90_D5HGQ4
UniRef90_G8AF97
UniRef90_W8VXG4
UniRef90_UPI0004012D03
UniRef90_K2Q5E9
UniRef90_I0JM88
UniRef90_UPI0003801B3D
UniRef90_UPI000248C5EE
UniRef90_D3IIA4
UniRef90_R6E1Y2
UniRef90_I0WFR5
UniRef90_G5H9E7
UniRef90_R1CRL1
UniRef90_I2GIN4
UniRef90_B2IUU4
UniRef90_J5HUD6
UniRef90_U2L6G9
UniRef90_V2YFZ5
UniRef90_B4S4E9
UniRef90_R5GGG8
UniRef90_UPI0003828C25
UniRef90_A0A011R2N5
UniRef90_UPI00037C1632
UniRef90_H5SJ16
UniRef90_UPI00035D0238
UniRef90_F3B1H4
UniRef90_UPI0004715E10
UniRef90_E1GTJ6
UniRef90_UPI000309B48E
UniRef90_R5G7M6
UniRef90_R9ILW8
UniRef90_C4ZLV9
UniRef90_H6WNU6
UniRef90_R5B8N5
UniRef90_W7CRE4
UniRef90_C5T3V9
UniRef90_UPI0004127591
UniRef90_E3PSX4
UniRef90_R7LFV7
UniRef90_R5NY78
UniRef90_B0PFU2
UniRef90_D2RL25
UniRef90_D3L2S1
UniRef90_H1HLX3
UniRef90_F4L0Y9
UniRef90_H9UDH5
UniRef90_Z4WRG1
UniRef90_UPI000374F4B9
UniRef90_UPI000318E82D
UniRef90_UPI0004788A15
UniRef90_I0KCN9
UniRef90_C9RCK8
UniRef90_F0GUF2
UniRef90_F5L7V0
UniRef90_UPI0003F8DEE7
UniRef90_K7SFE3
UniRef90_C7JHC9
UniRef90_R5I2U9
UniRef90_U1KS87
UniRef90_K9WQN0
UniRef90_A9BN38
UniRef90_D5WPF3
UniRef90_UPI0002E08055
UniRef90_UPI00040AD2A4
UniRef90_R6NUA8
UniRef90_O35033
UniRef90_UPI0003732547
UniRef90_T1DRV0
UniRef90_A6EF67

130 140 150 160
L K S L G E A K G D R V L V G F A S M E T T H A G V D R A A E K A R R K N L D F
I L S Y L G A H K A K G Q L L C G G F F A A M E T T Q R N D L L E N S A K A K L L A K K N N D M
I L A W V L G D H K K P T K Q L F L V C G G F F A A M E T T R E H V L L E E N S T A G K L L H K K N N D M
R T K D I L G Q V K T S K Q Q L I V C G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
I A A M L G Q V K T S K Q Q L I V C G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
I L V A S L V A G A Q K S G D R P F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_UPI00037A567B I L V A S L V A G A Q K S G D R P F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_S9T1H6 I L E E L G R Q K S K Q F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_G7SVV2 I I L A D V L G H L A V I Q S Q F F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_Q9K9Y4 I L K T L G E K K E R P Q F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_UPI0003FF58A7 I L S A V R E R R P G Q Q V V V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_K7VX64 I V A E I G N R K K E A R Q Q L L I V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_UPI000472CD4D I A A T L G A K K E A R Q Q L L I V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_W4QAV5 I L Q T L S T K K S P S Q Q V L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_A0LD63 I L L A Y A G A N K Q T P G Q Q F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_F8FC33 I L A E E L G K R K R N E Q Q F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_R5KCU8 R T K D I L R E H K K E R Q Q L L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_Q5WFK5 I L A E V A A L L I E N R R P Y V V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_H8GGN4 I V A E V A A L K T K R R P Y F A V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_Q491W9 I V A E V G K L T K N R P Y V V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_L8D548 I L A E L G R R K K H Q Q L L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_U6B8B1 R T K D I L T S Q A G P R R Q Q L L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_A5D1C2 I L A T L S V G A L K E R R P F L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_D5HGQ4 I L K E L G Q R K T K P R L L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_G8AF97 I L L K T L G H H A Q R K Q R L L V V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_W8VXG4 I L K E L G R Q K E H Q Q Y L I V G G F F A A E T T E H V E E Y A G L K L L R K K K N F D M
UniRef90_UPI0004012D03 I A A S L G K K T K D K Q K L I V A F A A E T T Q N D E E I N A K H K L L E K K N A D F
UniRef90_K2Q5E9 I S Q A V G E R K K P S Q Q L L V V G F A A E T T Q H L E T F A Q E K L L K K R C
UniRef90_I0JM88 I A A L G R V K K G N Q Q L L V V G F A A E T T D N E E T N A Q S K L L E S K N L D F
UniRef90_UPI0003801B3D I L A S L G T L K K K Q Q F L V V A G F A L E T T E H E R E N A V K K L L Q K K H L D F
UniRef90_UPI000248C5EE I A A E L G C V K G D R V L V V G G F A A E T T D H E R E N A V K K L L Q K K H L D F
UniRef90_D3IIA4 I A A T L G L Q K R T D Q I L M M G F A A E T T D N E L A N A L K K L L R A K N L D W
UniRef90_R6E1Y2 I V A Q L A Q H K Q P Y Q Q I L T V G F A A A Q T G N I V K P A L L E K L L Q S K K L D A
UniRef90_I0WFR5 I L A S V A H L T E N K A Q R F V V V G F A A A E T T D N E V A E Y A R K K L L E T R K H L D F
UniRef90_G5H9E7 I A A T L G E R K T K A Q R F L V V G G F A A E T T D N E E I N A R K K L L E T R K H L D F
UniRef90_R1CRL1 I L K Y L G E H R R A G Q Q V L V V G G F S M E T T E N M V E N S R A K L L E K K N L D M
UniRef90_I2GIN4 I L A G F S A E A K R P H Q Q L L V V G G F F A A E T T D N E L G L G Y A A E K L L R A K N L D F
UniRef90_B2IUU4 I A A T L G G A K R P T G Q R V V V G G F F A A E T T D N E H A R E K L L V R K H L D F
UniRef90_J5HUD6 I T A S V T G L D T P P F V V V G G F A A E T T H N V L G Y A A D K M R R R K K M N L
UniRef90_U2L6G9 I L A E V A A L R A P K L C G G F F A A E T T S N L H E Y A A E S K R R S K K I P L
UniRef90_V2YFZ5 R N K E D I A Y R I K K D K I L V V G G F A A E T T E K V F E H A R Q K L L R E K N V D I
UniRef90_B4S4E9 I L A E L G K R K R R D Q Q L L V V G G F A A E T T E K V F E H A R Q K L L R E K N V D I
UniRef90_R5GGG8 I L R S L G E K N N R Q F L V V G G F A A E T T E N E N E N A S K K L L S E K N A D F
UniRef90_UPI0003828C25 I L K E L G E R K N N R Q F L V V G G F F A A E T T E N E N E N A S K K L L S E K N A D F
UniRef90_A0A011R2N5 I L L E N L G K H K D K Q F L I V G F A A E T T G N T E F Y A K D K L L V R K N L D F
UniRef90_UPI00037C1632 I A A V L G K M K H H Q R I L V A F A A L E V I S N E E T N A K Q K L L E R K N A D F
UniRef90_H5SJ16 I K T L G E K K E H Q I L I V A G F A A E T T E N V Q A Y A E K K L L Q T K N L D M
UniRef90_UPI00035D0238 I L G H V G E N K K P E Q I L C G G F S M E T T K N M L E N S R K K L L K K K H L D F
UniRef90_F3B1H4 I L A E L G R L K S E G A L L C C G G F S M E T T K D L E E N S R G K L L E R K H L D M
UniRef90_UPI0004715E10 I L A E V A A H A D A P L C V G G F F A A E T T K R D L D A Y A E G K R R R K R L P M
UniRef90_E1GTJ6 I A A S L G K I K E D N Q L L V V G G F A A E T T N E Q Q N A E G K L L E R K N F D F
UniRef90_UPI000309B48E I A A T L G D L K G K N Q F L V V G F A A E T T S Q D V E K N A R L K L L E A K N L D M
UniRef90_R5G7M6 I L A T V A R S P H A D L F C G G F A A E E S H D L L J A H A T A K R A R K G V P L
UniRef90_R9ILW8 I L L T L G Q H K T H Q I L V V G G F A A E T T D D I D E Y A K S K L L A K K N A D M
UniRef90_C4ZLV9 I L F E L G K L K T K Q V L V V G G F A A E T T D D I D E Y A K S K L L A K K N A D F
UniRef90_H6WNU6 I A A T L G K L K T A K Q H L V V G F A A L E T T D N E Q H N A C D K L L R R K N L D F
UniRef90_R5B8N5 I A Q T L G Q M T R A P E G Q K L I V G F A A E T T H D E T A H A H E K L L E R K N F D M
UniRef90_W7CRE4 I L A Y L G Q T R A P E G Q V L C G G F S M E T T R D L V A H S Q E K L L E K K H A D M
UniRef90_C5T3V9 I L K Q L G Q Q K E H Q F L V V G F A A E T T Q H L L I E N A A A K V K K K N L D M
UniRef90_UPI0004127591 I A A E V G K R K R Q G Q L L V A F A A E E S T E V V E N A L R S K L L N K K N M D M
UniRef90_E3PSX4 I A A T L G K R M K T N G E Q H L I V A F A A L E T T N D E E S N A R R K L L E R K H A D F
UniRef90_R7LFV7 I A A D L G Q M K K P G Q Q F L I V G F A A L E T T N D E E E Q H A Q G K L L E R K N F D F
UniRef90_R5NY78 I L E F V G K N K L P G Q V V V V G F A A E T T Q N I V I E N A Y E K L L M K K N A D V
UniRef90_B0PFU2 I A A T L G S W K R P N Q Y F V V G G F A A E T T S N A G F F E A A K R K M A Q K N L A
UniRef90_D2RL25 I A A S L G K Q K R T G Q Y L V V G G F A A L E T T D N E L J A N A Q T K L V N K N L D L
UniRef90_D3L2S1 R T K D I L Q R T Q K R D Q Q Y L V V G F A A E T T E N T E A Y G Q Q K L L T R K N L D A
UniRef90_H1HLX3 I V I T E L A E R K P H Q Q L L I V G F A A A Q T G D I V T P A L E K L L Y R K Q L D A
UniRef90_F4L0Y9 I A A T L G A Q K R P D Q L M M G F A A L E T T D N E R A N A L G K L L H R K N L D W
UniRef90_H9UDH5 I L L E E L G R K K G K R V L V V G F A A A E A G D V V I E K A R T K L K A K N L D L
UniRef90_Z4WRG1 E N N D I I K H F A N N Q T I I V G F A A A E T T H D L D I Y A R A K L L Q N K N L D F
UniRef90_UPI000374F4B9 K N K D I L K A R K K G Q I L V V G F A A A E T T H D L D I Y A R A K L L Q N K N L D F
UniRef90_UPI000318E82D I L K E L G E R K E H Q I L V V G F A A A E T T E Q V I S Y A E K K L L Q S K N L D M
UniRef90_UPI0004788A15 I L A T L C H H A R R P R L V V V G G F A A E T T E S D V R E N A L A K R Q R K G C C D W
UniRef90_I0KCN9 I L A E I S A P G P Q R P L V V V G G F A A E T T E K V E A H A T A K R Q R K G C C D W
UniRef90_C9RCK8 I A A A I G S S R R P D G V I A G F A A L E T T D N A R E N A L S K L L R K N M D M
UniRef90_F0GUF2 V I A R V A A L K K E R P Y V V V G G F A A E T T Q D I Q Q Y A Q A K L L R K N K N D M
UniRef90_F5L7V0 I L A E L G Q R K Q P H Q C L I V G G F A A A Q T G D I V K P A L E K L L R N K K L D A
UniRef90_UPI0003F8DEE7 I L A A A A Q S E P A R L Y C V G G F A A E E S H D L L Q H A S A K R L R K S Q V P L
UniRef90_K7SFE3 I L M E V S R H R R P D Q V I V V G G F A A E T E D V L E K N A L E K L L R R K S L D Y
UniRef90_C7JHC9 I L F T L G E A K K N Q I L V V G F A A L E T T N D E E E N A I T K L L Q R K N L D F
UniRef90_R5I2U9 I L V K N D V A N A N N R P F C V G G F A A E T T N D V E A S Y A L G K L L Q R K N L D L
UniRef90_U1KS87 I L A W A G A H K T A G Q T L C G G F A A E T T Q D L E A S N A A K K L L T S K H C S M
UniRef90_K9WQN0 I L L K E L G E K K E Q I L V V G G F A A E T T Q D I E H Y A R K K L L A K N L D L
UniRef90_A9BN38 R T Q D I L Q E L G R S Q F L V V G F A A A E T T N G E V I T E A K K K I L S R K N L D T
UniRef90_D5WPF3 I A A T L G E L K N P R S Q L L V V G F A A L E T T G E V I T E A K K K I L S R K N L D T
UniRef90_UPI0002E08055 I L A T L G A M K K D H Q L L I V G F A A L E T T E N E E V H A K A K L L K K N L D L

UniRef90_F2NKA8
UniRef90_C4ZEU7
UniRef90_D1PMI5
UniRef90_NOAX70
UniRef90_I9GHB4
UniRef90_UPI00046514F9
UniRef90_UPI00037A567B
UniRef90_S9T1H6
UniRef90_G7SVV2
UniRef90_Q9K9Y4
UniRef90_UPI0003FF58A7
UniRef90_K7VX64
UniRef90_UPI000472CD4D
UniRef90_W4QAV5
UniRef90_A0LD63
UniRef90_F8FC33
UniRef90_R5KCU8
UniRef90_Q5WFK5
UniRef90_H8GGN4
UniRef90_Q491W9
UniRef90_L8D548
UniRef90_U6B8B1
UniRef90_A5D1C2
UniRef90_D5HGQ4
UniRef90_G8AF97
UniRef90_W8VXG4
UniRef90_UPI0004012D03
UniRef90_K2Q5E9
UniRef90_I0JM88
UniRef90_UPI0003801B3D
UniRef90_UPI000248C5EE
UniRef90_D3IIA4
UniRef90_R6E1Y2
UniRef90_I0WFR5
UniRef90_G5H9E7
UniRef90_R1CRL1
UniRef90_I2GIN4
UniRef90_B2IU4
UniRef90_J5HUD6
UniRef90_U2L6G9
UniRef90_V2YFZ5
UniRef90_B4S4E9
UniRef90_R5GGG8
UniRef90_UPI0003828C25
UniRef90_A0A01R2N5
UniRef90_UPI00037C1632
UniRef90_H5SJ16
UniRef90_UPI00035D0238
UniRef90_F3B1H4
UniRef90_UPI0004715E10
UniRef90_E1GTJ6
UniRef90_UPI000309B48E
UniRef90_R5G7M6
UniRef90_R9LW8
UniRef90_C4ZLV9
UniRef90_H6WNU6
UniRef90_R5B8N5
UniRef90_W7CRE4
UniRef90_C5T3V9
UniRef90_UPI0004127591
UniRef90_E3PSX4
UniRef90_R7LFV7
UniRef90_R5NY78
UniRef90_B0PFU2
UniRef90_D2RL25
UniRef90_D3L2S1
UniRef90_H1HLX3
UniRef90_F4L0Y9
UniRef90_H9UDH5
UniRef90_Z4WRG1
UniRef90_UPI000374F4B9
UniRef90_UPI000318E82D
UniRef90_UPI0004788A15
UniRef90_I0KCN9
UniRef90_C9RCK8
UniRef90_F0GUF2
UniRef90_F5L7V0
UniRef90_UPI0003F8DEE7
UniRef90_K7SFE3
UniRef90_C7JHC9
UniRef90_R5I2U9
UniRef90_U1KS87
UniRef90_K9WQN0
UniRef90_A9BN38
UniRef90_D5WPF73
UniRef90_UPI0002E08055
UniRef90_UPI00040AD2A4
UniRef90_R6NUA8
UniRef90_O35033
UniRef90_UPI0003732547
UniRef90_T1DRV0
UniRef90_A6EF67

170 180 190 200
I V A N N N L K V A G A G F G T D T N V V T L I T T A E D D G T E A L E L P R M S K R A V A
I V A N N N L K V A G A G F G T D T N V V T L I T T A E D D G T E A L E L P R M S K R A V A
I V A N N N L K V A G A G F G T D T N V V T L I T T A E D D G T E A L E L P R M S K R A V A
I V L N S L N S D S G A G F R Y T D T N K I S I I D R K D Q G H T T D Y P L K S K K S Q E T V A
I C A N D V P T R E P E Q T A F N G T D T N A I T I Y G P D G F K T E T L P V L M D S K K R E V A
I V L N Y P T R E P E Q T A F N G T D T N A I T I Y G P D G F K T E T L P V L M D S K K R E V A
I V A N D V S R S E G G F G S D D N N E V S I Y D A N G S V E R I L P L M A K K S G T V A
I C A N D V T E E G A G F G Q T D T N R V T V Y F W K H N G S K L A L E M T K K D E V A
I V A N N V A E P D A G F G V D T N R V T F V R K P S G G D E S L P V L L S K K R E V A
I V A N P I S D K Q D S G F G S D T H N Q A V F L D K S G R E E I P T C S K K E E M A
M V L N S L S D Q Q G A G F G G T T N K I A L L S A T E V V H F P L K S K K E E V A
I V A N N N I S E R Q D G A G F K G D T N Q I T I I H R N G E K P F P L L S K K Q E E A A
L V V N D V R Q D G A G F G T D T H N V M V L G D A G V E A W A R C R K K Q D E I V A
L V A N D V T V E G A G F G T D T N L V R I Y D A G A V E A L P M L S K K Q D E I V A
I V L N S T R N K G T T F R A D D N Q V E I I S E T A N V K K Y G K K N K K H E V A
I V A N N T T G E G A G F D V D T N V V F T R D G G R E T Y P Q A S K K Q E V A
I A A N W V S R Q I N Q G F N S D N N A L Y L F W N K G S V L L P L R K K K L L A
C A N N I S R Q I N Q G F N S D N N A L Y L F W N K G S V L L P L R K K K L L A
C C A N D V S R E G L G F N A S E S A L N L F W H D K E L H L P H S R D K K E L E L G
I V A N D V T Q P G A G F G S D T N I A R L V Y P G G R T V L P K M D K L L L A
I V A N N L K V A G A G F G V D T N V L L I T R A D G A S E D W P M M S K K D E E V A
I V A N D V P G T T F G G A D N T V H L I R A D G A S E D W P M M S K K D E E V A
L I L N S M R D E G A G F G T D T N K I T I I D K D G N E A F P V K S K K Q M V A
I V A N D V S A E G A G F G T D T N L V I H K S R D G V E A W P D L M T K K D E V A
I V A N D V S P E T G I M G G D R N R V K L I S R D G V E A W P D L M T K K D E V A
I V I N N V A E E G S G F G H D T N A S L M I F S S T D G K E T Y P L M S K K D D L A
I V L N S T R P D T T F R S D K N Q I T I I S S K S E G K K E Y D K K P K S E V A
L V A N D V T M E G A G F G T D T N V V R I Y D S E G V E A L P L M S K K G Q V A
I V L N S L R N E G T C F G T D N N M V S I I S A T E K R Q F G F K S K S E V A
I V L N S T R N K G T T F R T D D N Q I I I V S P K Q Q K K E Y G K K P K A E V A
I V L N S L N D N Q G A G F G K S T N K I T F I D R E E G H E E Y G L K P K S D V A
I V L N S L A E A G A G F G V D T N R L T I I D R E E G H E E Y G L K P K S D V A
I V L N S D V S N K D A G F K K E T N V A T I I D K D E Q T E F A L K S K K D D V A
I V L N S L R D S G A G F G H D T N K I T V I D K D E Q T E F A L K S K K D D V A
I V A N P I D Q P D S G F G S D D N Q A I F L D R Q N G N Q V I A P C S K L E M A
I C A N D V T R G G Q V F G Q D Q N A L H L E W Q N K K L P L A E K G K L A V A
I V L N S T R N A G T T F G S D D N Q I T I I T K S A C K S F E K K P L K T K V E V A
I C A N N L K V A G A G F G T D T N V M T V I T R E G M E D L P L M S K K E E A A
A Y N T Y R D G E T S G F E V D T N A L T L I S A Q E T T E L P L L T K S R D A V A
I V L N S L R D A G A G F R C D T N K V T I L S A Q E T T K K Y P L L K T K S E V A
V V A N D V R A D R D I G F S S D S N E V T V I G E E L E E P L P R A S K K V V S
L V G N L I A D G F G G D D S K L L E D D D G N H P L A P A S K K D E Q L A
I V A N D I T E E G A G F G S D T N I V K I I D D G N I K Y P Q M K K D E V A
I V A N D I T A P G A G F E V E T N I V T L L Y R D G S E T L P C L P K R D V A
I V L N S L K D E A A G F G K D T N K V T I F D R D N A Y S F E A K S K T L V A
I V A N N L K V E G A G F G T D T N V V S I F T R D D Q E V I L D K L S K L E V A
I V A N D V T L E G A G F G S D T N I V A V Y D A E G V L N L P Q T S K D E V A
I V L N S T R L P N T T F R S D D N Q I T I I S H D R K V Y F E K K S K K D V A
I V A N N V K Q E G A G F G V D T N V I T M Y T R T G E T E L P L L S K R E A A
I V A N N L K E K G A G F G T D T N R V T L I S E K E E K S L E L M S K E E V A
I A A N N L K V E G A G F G T D T N V L L T L I T R E K T I H L E R M G K D E A S
L V G N L S D D G M G G D D N T V I L Y D D A G R H P L P R A A K A K E V A
I V L N S L N D A G A G F R H D T N K I S I I D R K G R E D Y P L K P K K Q E V A
I C L N S L S D K G A G F G T D T N K V T V I Y P H G P M E E L P L M N K T D V A
V V A N D I L S R Q D T G F G V D T N Q V T L I T A N D M K K L P L V L T K E E T A
L V G N I G P A T F G Q D D N A L L V D A Q G H R E L P R A S K R T L A
I V A N D V T K A G A G F G S D T N I V T I E K R N G E K S L P K M S K K E V A
I V A N D I T K E G A G F A G D T N I V K L F A D D I Q E L P I M T K N Q L S
I V L N S L N D K G A G F A Y D T N K V T I L T A Q G T T E Y P I K S K K L V A
I V L N S L N D P G A G F R H D T N K I T I I S Q T D S V V Y P L K S K K L V A
I V A N N L N E P G A G F A V P T N A V T L I T K A G A E K L L M G K D A L A
I V A N D V T M K G A G F S T D T N V V K L L F P S G E R S L E L M S K E A V G
I V A N D I T A R G S F E S D T N S V I V I C T G R T S R L E G S K E E V A
I V L N S T R N L G T T F G Q N N E N K I T I I N R E G R K K E Y A K K P K I D V A
I V L N S L R D S G A G F N H D T N K I S I I F R D N K K D F E L K S K H A V A
I V A N D A R K A M G S D E N Q V Y L F F R D K P T I M V E G K K E E V A
I V L N S L R L D K G A G F S Y E T N K V T L I F D R E G I E A Y E L K S K E A V A
I V L N S L R D E G A A F G H D T N Q V T L I H R N G I H R F G L K S K R A V A
I V I N D I T K A G A G F K S D T N E V V L L T K S G K T R I E Q T S K Q A I A
I V A N P I D Q V D S G F G S D D N Q A V L L D K S G R R E I P C S K K Q L A
I V L N S L R D S G A G F G H D T N K I T V I S R Q E V H E F D L K R K D E V A
V V A N D I T Q E G A G F G S D T N I V I F A D G R Q V L P R L D K L T C A
I V A N D I T R W G A G F N S D T N V A S I I S N D G I K K L D L M T K E D L A
I V A N N V S K E G A G F G T D T N A V T I Y D R D G G K V D V P L L P K E V A
I C A N S I V D P G S G F Q S N T N A I T I I R D G S G E T W P P L L Q K S E V A
L V A N D V R R G V F G A D R N L V S L I D G S G I E T W P P L L Q K S E V A
I V A N D V S A G T G I M G G D R N Q V V L I T A Q G S E R W P H M P K E E V A
I V L N S M R D P G A G F G V D T N K V T V F R D D S Q D I P L G S K A E V A
I C A N D V S V K G L G F N A N D N A L T L F W P R D D T L N L P A T S K Q Q L A
I A A N P I D K P N S G F G S D T N Q A I F L D K Q G R Q E I E P C S K L Q L A
L V G N I G P A T F G R D D N A L L L D E A G T Q E L P H A S K S L L A
I V A N D V S M A G A G F A V D T N I V T I Y G R D G T A A L P L S K R E V A
I V L N S L N D S G A G F K T N T N K I T I I D K N L V K E F I L K S K E E V A
I A A N D V S V G D Q G F N S D N N A L T V E A K D K R F D I G L N N K Q E V A
L V A N N T P G A G F A N S D T N V V T V L K P G E T E H W N K M S K Q E L A
L V A N D V K A N G A G F G A D T N I V T I F F K D G H K E L P I M S K L D V S
M V A N D V T A E G A G F G V D T N V H I Y D R Q G V E A L P Q M S K D Q V A
I I L N S L Q D K G A G F G G E T N K V T I I D R D G S R S Y P L K S K E S V A
I V L N S L N D K G A G F K V D T N K I T I F N R A E K V F Q T K S K T E V A

UniRef90_F2NKA8 DEI LDRVHRLHRR
UniRef90_C4ZEU7 ARI MDRLLQ M
UniRef90_D1PMI5 HRI ADAIAA
UniRef90_NOAX70 QNI VEQISLLLQD
UniRef90_I9GHB4 QDI INRLVEELQ
UniRef90_UPI00046514F9 EKI LTELVTHYEEKN
UniRef90_UPI00037A567B RRL LDEAAHL YTER
UniRef90_S9T1H6 KRI LQLAASRMKD PTR
UniRef90_G7SWV2 KQL V NQIT TARYRQ
UniRef90_Q9K9Y4 HRL IMMI SEQL EK
UniRef90_UPI0003FF58A7 DRI L TEVAARLAE
UniRef90_K7VX64 HYL FDFV V
UniRef90_UPI000472CD4D QDI VQA L I K R L E
UniRef90_W4QAV5 FRI LEE
UniRef90_A0LD63 QQL MERL LA CME
UniRef90_F8FC33 ARLL LA LIAERLPK
UniRef90_R5KCU8 RDI IDEIT ALFRQSEK
UniRef90_Q5WFK5 KQL LNELEAYMKRR
UniRef90_H8GGN4 DRL TALI AERLQA
UniRef90_Q491W9 QQL INEIT DRYNENN
UniRef90_L8D548 LTV MQLI ANKLS
UniRef90_U6B8B1 QRL LDEI LQRCE EKNR
UniRef90_A5D1C2 HRI LDEVQAL
UniRef90_D5HGQ4 DML LDRIME M
UniRef90_G8AF97 ARL AEAI ARHFN
UniRef90_W8VXG4 KDI IDEIT KR
UniRef90_UPI0004012D03 A QV LKEA AL L F D
UniRef90_K2Q5E9 ERL ALWLA T QI
UniRef90_I0JM88 RKI LEE
UniRef90_UPI0003801B3D TDI IDEELASLMQ
UniRef90_UPI000248C5EE ARLLALVADRRLGK
UniRef90_D3IIA4 KDI VEYL CERMK
UniRef90_R6E1Y2 RDI VNEI LVSRL
UniRef90_I0WFR5 QDI INEIIISRI HA
UniRef90_G5H9E7 RDI ADKIEKYLD
UniRef90_R1CRL1 KLI LDKI LDNFS
UniRef90_I2GIN4 EDL LD LVEAE LNKQ
UniRef90_B2IUV4 HYL FDFAIT
UniRef90_J5HUD6 ELL VNEI V ERYRK
UniRef90_U2L6G9 RDI IDEL CRTF
UniRef90_V2YFZ5 RRI LD
UniRef90_B4S4E9 IRL LD A I E S LLS
UniRef90_R5GGG8 KDI IDTL C QTFAD
UniRef90_UPI0003828C25 RKL LQLVARRFRK
UniRef90_A0A011R2N5 RQL VTRIAA LLEK RQ
UniRef90_UPI00037C1632 NVI LDKVKSSLEK
UniRef90_H5SJ16 REI LRRVARLL
UniRef90_UPI00035D0238 TDI VD LITK KLN EK
UniRef90_F3B1H4 EKI FDELVRNF
UniRef90_UPI0004715E10 RQL LQLAVKRIS
UniRef90_E1GTJ6 KDI VNEI LKKIL
UniRef90_UPI000309B48E NEI IKKVST
UniRef90_R5G7M6 DEI LDY L LQ M
UniRef90_R9ILW8 LKILDE
UniRef90_C4ZLV9 RGI VA HLAGLL PARGR
UniRef90_H6WNU6 QDI INHLVA VLTH
UniRef90_R5B8N5 KLI LE GII S HL
UniRef90_W7CRE4 LLI WKAI IAL
UniRef90_C5T3V9 HQL VIAE IARRLP EQ
UniRef90_UPI0004127591 EEI LLEV HHL LNE V E R
UniRef90_E3PSX4 KEI YDKI IYIMHNK
UniRef90_R7LFV7 DDI VEELVSLFKQ
UniRef90_R5NY78 ADI VDR LVS SF
UniRef90_B0PFU2 DEI FDR LLA MRRE R
UniRef90_D2RL25 NH I LDIV RDA V KRK
UniRef90_D3L2S1 WGL WDL VEA EF
UniRef90_H1HLX3 KDI VDE L AT LL
UniRef90_F4L0Y9 EDI LQAM I DLFK
UniRef90_H9UDH5 KEI LKRV CEL L
UniRef90_Z4WRG1 RDI VDFIARRI
UniRef90_UPI000374F4B9 CDI ADHI EQ LFKK
UniRef90_UPI000318E82D YQL LNQIAKEM
UniRef90_UPI0004788A15 HYL FDFV
UniRef90_I0KCN9 DDL LTI IAEQL
UniRef90_C9RCK8 HRL IDL M V K LI PGR
UniRef90_F0GUF2 NEI LDLL
UniRef90_F5L7V0 YQI VKVVA ERH
UniRef90_UPI0003F8DEE7 TKI LDA ADEL F EERDK
UniRef90_K7SFE3 GKLAERL AETFRS
UniRef90_C7JHC9 QRL ASRMA DWFT E
UniRef90_R5I2U9 SAI VDN I EKLLE
UniRef90_U1KS87 MQL LQALAKRLN
UniRef90_K9WQN0 HHL FDFV
UniRef90_A9BN38 RQL VA EI A RRL
UniRef90_D5WP73 DRL LDVI
UniRef90_UPI0002E08055 KDI CNKVASLI
UniRef90_UPI00040AD2A4 IQL LKLI SQQYQTRS
UniRef90_R6NUA8 ERI LTEL AAL
UniRef90_O35033 FEI LQEI AALS KQ
UniRef90_UPI0003732547 HRL LRLV SERL
UniRef90_T1DRV0 KDI ADFI ALKLN
UniRef90_A6EF67 KDI CT E I LKL

UniRef90_UPI0002E16067 1 10 20 30 40
UniRef90_F9DPG3 Q P L K G K K V V L I T A G G P T R E R P I D D P V V R R Y F V L T N F S S S G G K M G Y A L A A E
UniRef90_J4VSW7 D Y E G R R N I V L I T A G G P T H E E F F D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_UPI00031503EC R D L V G K R N I V L I S A G G T T R E E F F D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_E6RIW9 Q D L A G K K T I T I T A G G P T T R E E P L D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_B4UK14 G D L L A G K K V L L V T A G G P T T R E E K I D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_F9Z8X5 R D L L A G K K A I V T S G G P T T Y E E H I D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_K7Z517 G S L L A G R K K V L V T S G G P T T Y E E H I D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_F4XUW4 R D L L E G K V D I V V T A G G G T T R E E Y P I D D D P V V R R F F V L T N F S S S G G K M G Y A L A A E
UniRef90_R9MS71 V K D L L A G K R V M I T A G G P T T V E E A I D D D P V V R R Y I T T N R R S S S G G K F G Y A L A A E
UniRef90_R7B4Q8 K R L L A G K K I V L L T A G G P T T Y E E A I D D D A V R R F F I T T N R R S S S G G K M G Y A L A A E
UniRef90_Q7NTH4 S L L Q G K K I M L T A G G P T T Y E E K I D D D P V V R R F F I T T G N Y S S S G G K M G Y A L A A E
UniRef90_R5MER9 Q D L K D K H V L I T A G P T T Q E A I D D D P V V R R Y I T T S N H S S S G G K M G Y A L A A E
UniRef90_A4C8X3 Q D L K D K H V L I T A G P T T Q E A I D D D P V V R R Y I T T S N H S S S G G K M G Y A L A A E
UniRef90_F2JR87 Q D L K D K H V L I T A G P T T Q E A I D D D P V V R R Y I T T S N H S S S G G K M G Y A L A A E
UniRef90_R7HDT5 R D L R G K Q L L I T A G G G T T R E E H L D D D P V V R R F I T T G N P A S S S G G K M G Y A L A A E
UniRef90_B8HNM7 R D L R G Y T V M V T A G G A T T M E K A I D D D P V V R R Y L T T S N H S S S G G K M G Y A L A A E
UniRef90_B2A2J9 T G S L A G K T L V I T A G G P T T R E E K I D D D P V V R R Y L T T S N H S S S G G K M G Y A L A A E
UniRef90_I3IEX6 H D L L T G K R V L V I T A G G P T T Y E E K I D D D A V R R F I T T G N F S S S G G K M G Y A L A A E
UniRef90_R6A2X8 H D L L A G Q R R V I T A G G P T T R E E P L D D D P V V R R Y I T T S N H S S S G G K M G Y A L A A E
UniRef90_A4A9B5 L N S L V G K N I L T I T A G P T T R E P L D D D P V V R R Y I T T S N H S S S G G K M G Y A L A A E
UniRef90_F2G1U8 G P L K G R R V L V T S G G P T T H E E P I D D D P V V R R Y I T T N R S S S G A Q G T A V A E E
UniRef90_A3JXA2 T N D L L R G K R V L V T S A G P T T H S E A I D D D P V V R R F I T T N R S S S G G K M G Y A L A A E
UniRef90_V9H417 T N D L L R G K R V L V T S A G P T T H S E A I D D D P V V R R F I T T N R S S S G G K M G Y A L A A E
UniRef90_UPI00041677B8 K R L L A G K R V L V T A G G P T T F E E P I D D D P V V R R G I T T N R S S S G G K M G Y A L A A E
UniRef90_F1VWV6 K D L L E G R S M I V T A G G P T T V E E S P I D D D P V V R R Y L T T N R R S S S G G K M G Y A L A A E
UniRef90_T4VWP1 K D L L E G R S M I V T A G G P T T V E E S P I D D D P V V R R Y L T T N R R S S S G G K M G Y A L A A E
UniRef90_S6BGP4 G R L L G G T K A V V T A G P T T R E E P L D D D P V V R R F I T T N R R S S S G G K M G Y A L A A E
UniRef90_S0G761 K D F V G K Q V L V T S A G G P T T L E E P I D D D P V V R R Y V T T N R S S S G G K M G Y A L A A E
UniRef90_UPI0003105202 K S L L A G R S V L V T A G G P T T H E E A I D D D P V V R R Y I T T N R S S S G G K M G Y A L A A E
UniRef90_UPI0003B6F20B G P L A G K N I L V T S G G P T T H E E P I D D D P V V R R Y I T T N R S S S G G A Q G T A L A A E
UniRef90_K9YA34 R D F L G K H I L I N G G G T T Q E E Y L D D D P V V R R F I T T G N P A T G K M G S A I A A Q
UniRef90_B8FNB8 Q D L L R G K C L L V T S A G G T T R E E P I D D D P V V R R F I T T G N R R A S T G K M G Y A I A A A
UniRef90_A7NPG6 G P L R G R R V V V T A G G G T T H E E P I D D D P V V R R F I T T G N R R A S T G R M G Y A I A A A
UniRef90_R6AGL5 D L L A G K N I L V T A G G P T T Y E E Q I D D D P V V R R F I T T G N R R S S S G R Q G Y A I A A K
UniRef90_F3ZUL9 D L L A G K N I L V T A G G P T T Y E E A I D D D P V V R R F I T T G N R R S S S G G K M G Y A I A A E
UniRef90_A0A016XKP1 D L L Q G R R V L V T A G P T T Y E A I D D D P V V R R G I T T N R R S S S G G K M G F A I A A R
UniRef90_G7VVB2 L L S G K K V I V T A G G G T T E E R I D D D P V V R R Y I T T N D S S S G G K M G F A I A A K
UniRef90_K9U046 R D L L A G K V L V I T A G G T T R E E Y L D D D P V V R R F I T T G N P A T G K M G I A L A A Q
UniRef90_UPI0002F302A3 Q D L L A G K C L L V T A G G G T T R E E Y L D D D P V V R R F I T T G N P A T G K M G I A L A A Q
UniRef90_U2EE99 K D L L K N K K V L V T A G G P T T I A P I D D D P V V R R F I T T N R S S S T G K M G Y S I A E A
UniRef90_A4AV12 K D L L K G K R V I T A G P T T H E A I D D D P V V R R Y L T T G N H S S S G G L M G F F E L A A K
UniRef90_UPI000368B4DD V A S L T S L R F T I T A G P T T R E A A I D D D P V V R R Y L T T G N H S S S G G K M G F A L A A A
UniRef90_R5RHY4 K P L L K H K R V L V T A G P T T Q E E A I D D D P V V R R Y I T T N H S S S G G K M G Y A L A A K
UniRef90_UPI000467F44B V A S L T S L R F T I T A G P T T R E A A I D D D P V V R R Y L T T G N H S S S G G K M G F A L A A A
UniRef90_K1ZLV0 T K L F S G K K I I I T A G P T T R E E P I D D D P I R Y I T T G N Y S S S G G K M G Y A L A N E
UniRef90_G0J6T1 S F Q G K N I L I T A G P T T Q E E A I D D D P V R Y I T T S N H S S S G G K M G I A L A E S
UniRef90_Q9PGZ7 S F Q G K N I L I T A G P T T F E E A I D D D P V R Y I T T S N H S S S G G K M G F A L A S A
UniRef90_UPI00047135A6 Q P L A G K R L L I T A G P T T F E E A I D D D P V R G I T T N R S S S G G K M G Y A V A L A R
UniRef90_H6L6M7 K P L A G K R V L V T A G G T T R E E R I D D D P V R Y I T T N H S S S G G K M G T A I A D A
UniRef90_UPI000363D6B5 K P L A G K R V L V T A G G T T R E E R I D D D P V R Y I T T N H S S S G G K M G F A L A L A R
UniRef90_F3L3K3 R A L L E G L R L V I T A G P T T R E A I D D D P V R F I T T G N D S S S G G K M G F A L A L A R
UniRef90_UPI0003B36934 R A L L A G K K V L L T A G G P T T F E E P I D D D P V R G I T T N I S S S G G K M G Y A L A R E
UniRef90_R5GMX5 R A L L K G L A V L V T A G P T T Q E E P I D D D P V R F I T T N H S S S T G K M G Y A L A E A
UniRef90_D9TNS0 N D Y D G K T V L V T A G P T T V E E P I D D D P V R Y I T T N H S S S G G K M G F E I A A K
UniRef90_Q1QT82 V R D A E A L R V T I T A G P T T R E E A L D D D P V R Y L T T N H S S S G G K M G Y A L A A E
UniRef90_D2UBD3 V R D A E A L R V T I T A G P T T R E E A L D D D P V R Y L T T N H S S S G G K M G Y A L A A E
UniRef90_X0SR69 G P L A G V R V A I T A G G G T T Q E E P L D D D P V R R H L T T G N R R S S S G R M G Y A L A V
UniRef90_UPI0003B6F2EF G P L A G V R V A I T A G P T T Q E E A I D D D P V R Y I T T N H S S S G G K M G F S L A E A
UniRef90_C1D8V3 G P L A G R R V L L T A G P T T F E E A I D D D P V R G I T T N I S S S G G K M G Y A L A R E
UniRef90_W6LXL3 H D L L Q G L T V L V T A G P T T R E E A I D D D P V R F I T T N R S S S T G R M G Y A V A L A R
UniRef90_U2HIB4 Q P L K G K K A L V T A G P T T Y E A I D D D P V R F I T T G N Y S S S G G K M G Y A I A N A
UniRef90_C5RA38 G Q L K G R K H V I V T A G G P T T V E E A I D D D P V R F I T T G N R S S S G G K M G Y A L A R E
UniRef90_UPI000471877F G Q L K G R K V I V T A G G P T T Y E A I D D D P V R F I T T G N R S S S G G K M G I A L A R E
UniRef90_M5JE46 G P L A G R R V L I T A G G G T T E E P I D D D P V R F I T T G N R S S S G G K M G Y A L A E T
UniRef90_UPI00035FE9E2 G P L S G K T A I V T A G G T T R E A A I D D D P V R Y I T T N R S S S G G K M G Y A I A T A
UniRef90_UPI0003615DF9 G R L S G E H V L I T A G P T T R E A I D D D P V V R Y I T T S N R S S S G G R M G Y A L A A A
UniRef90_UPI0001D2E532 R P L V G R H V I V T S G P T T R E P I D D D P A R F L T T N R S S S G G K Q G H A I A A A
UniRef90_E6SPM7 G D L V G K T I M I T T G P T T R E E K I D D D P V R F I T T G N Y S S S G G K M G F A L A D A
UniRef90_W7ZFK7 F T G K R V L V T A G P T T R E E K I D D D P V R Y I T T N R S S S G G K T G Y A L A T A
UniRef90_Q11B03 L T G R K I I V T S G P T T R E E P I D D D P V R Y I T T A N R S S S G G K Q G H A I A A A
UniRef90_E8LK81 A G K K V L I T A G P T T E E P I D D D P V R Y L T T N R S S S G G K M G Y A L A A A
UniRef90_T0CGE1 Q D L V G L H F V I T A G P T T E E D I D D D P V R Y L T T N R S S S G G K M G Y A L A A K
UniRef90_B0C6A4 R D L K G K R L L I S A G G T T R E E H L D D D P V R F I T T G N P S S S G G K M G I A L A L A
UniRef90_UPI00047B46DB K P L R G R R V V V T T S G P T T H E E A M D D D P V R G I T T N H S S S G G K M G F A L A R A
UniRef90_I4YYP0 T G P L A G K H V I V T S G P T T F E E P L D D D P V R Y I T T A N R S S S G G K Q G H A I A A K
UniRef90_UPI00047D94FF Q D L K D K T F I I T A G P T T I E P L D D D P V R Y L T T N Y S S S G G K M G Y A I A A K
UniRef90_UPI00036B78D1 K S L L E G K N V L V T A G P T T Y E A I D D D P V R F I T T G N H S S S G G K M G Y A L A A K
UniRef90_L7EPS5 K D L I G K K V L V T A G P T T V S Y I D D D P V R Y I T T N K S S S G G K M G Y A L A E E
UniRef90_D31BN6 N L F G K E V L I T A G P T T F E K I D D D P V R F I T T G N Y S S S G G K M G F A L A E E
UniRef90_E4T2Y5 K P L L G K R I L V T A G P T T R E E K I D D D P V R F I T T G N Y S S S G G K M G F A L A E E
UniRef90_UPI0003743AE3 G P L E G K K V I V T A G P T T R E E H I D D D P V R F I T T S N P S S S G G K M G I A M A A K
UniRef90_K8NX35 T G P L A G K K I L I T A G P T T H E P I D D D P V R Y I T T A N R S S S G G K Q G F A I A A A
UniRef90_A0A031MDX3 K P L L G K R V L V T A G P T T R E A I D D D P V R Y L T T N H S S S G G K M G F A L A E A
UniRef90_B1IM3 K D L I G K N I L V T A G P T T I A P I D D D P V R Y I T T N K S S S G G K M G Y S I A A K
UniRef90_V9XB56 R D L A G R R I V V S A G G T T R E A I D D D P V R F L T T N R S S S G G K Q G Y A L A R A
UniRef90_UPI00036B1200 L S G I R I L L T A G P T T R E A I D D D P V R F L T T N R S S S G G K M G Y A V A A E
UniRef90_W8EVC3 M R V L I T A G P T T R E E P L D D D P V R F I T T G N H S S S T G K M G Y A L A E E
UniRef90_UPI0003B5FA65 K T L A G H R L L I T A G P T T R E E P L D D D P V R Y L T T N R S S S G G K M G Y A I A E E
UniRef90_UPI0003163AA1 K T L E G K K V L V T A G G P T T R E A I D D D P I R Y I T T N H S S S G G K M G Y A I A E E
UniRef90_K5YZ27 G P L K G K H A I V T S G P T T H E P I D D D P V R Y I T T A N R S S S G G K Q G H A I A A Q
UniRef90_W3RKL8 G P L R K K S I L I T A G P T T H E P I D D D P V R Y I T T A N R S S S G G K Q G Y A I A A

UniRef90_UPI0002E16067 A A V K M G A E T I L V S G P V S L P P H G V V K V E H V V E S A E Q M L Q A V L 80
UniRef90_F9DPG3 A A Q K L G A E T V L I S L G P V S L L Q V P S E A M K R T T H V V E S T A A E D M Y Q A V L
UniRef90_J4VSW7 S F A R R R G A N V D L I V S L G P V S S L L K Q V P S E A M K R T T H V V E S T A A E E M L Q Q A V T E
UniRef90_UPI00031503EC E A L H R R G A N V T L I V S L G V S S L L K Q V P S E A M K R T T H V V E S T A A E E M L R Q Q M L
UniRef90_E6RIW9 A A L S F G A H V T L I V S G P V T I L T E A P P S G V V N E L I N I E S A E E Q L L H E S L
UniRef90_B4UK14 V A A R R R G A Q V V T L V S G P P T A L T E D E P P S G V V N E L I N I E S A E E M A R A R A V M
UniRef90_F9Z8X5 E F A A R R G A E V V T L V S A G P V S Q T E H P A V I R R I V N V E S A A E M F E R A Q V M
UniRef90_K7Z517 A L V D L G S E V T L I V S G P V S E T Y P P L G V I N T R T V L I E S A S D M L J A C E
UniRef90_F4XUW4 A A R N R G A V V T L V S H G P A T W E A P P M G I V I R D Y I P I V E T T E M H R A M L
UniRef90_F9MS71 A A K N R G A R V H L I V S A N S S L P V P E G V I E V I Y V E S A A R D M L J E A A M
UniRef90_R7B4Q8 A A A R K G A E V T L V S S G P V A L P A P P E G V I E V I Y V E S A A R D M L J E A A M
UniRef90_Q7NTH4 A C R D A G A E V T L V S S G P T G M E A S P M N R I K R R I N D V E S A A E M Q Q A A V L
UniRef90_R5MER9 E C A R R G A D V T L I V S S G P V S L L E A S C K R I R K R I N D V E S A A E M Q Y N A A V L
UniRef90_A4C8X3 A A V S L G A K V N L I V S G P V T L L K E T P P D G V V H K I N A V E S A L E M H Q A A L
UniRef90_F2JR87 D A V S R G A K V T L I V A G V P T N L P D V P F E V K E R V H I K S A R Q D M Y E A V T
UniRef90_R7HDT5 N A M L R G A E V T L I V S A S T T Q L K T P P E G R V I E Q R I L S D V T S A R Q D M Y E A V L
UniRef90_B8HNM7 A A L H R G A K V M F V H G P L Q L E M L P N G V V E S I P V V S A R D M Q E A V L
UniRef90_B2A2J9 A A V N D G A H V T L I V S A S T T Q L K T P P E G R V I E Q R I L S D V T S A R Q D M Y E A V L
UniRef90_I3IEX6 A A A E A G A K T I L I V S S G P T Q L K T P P P P R V I E Q R I L S D V T S A R Q D M Y E A V L
UniRef90_R6A2X8 A C A R G A E V E L I V S G P V A M Q H H P H I K R T D V T S A Q Q M Y E A S T
UniRef90_A4A9B5 A A V E A G A G V D L I V S G P V A L S A P P D R S K K L H R I G T T A D E M L J E A S L
UniRef90_F2G1U8 A A A L A G A K V T L V S A G P V T L D T P P Y S C A R V N I T T A D E M L J E A S L
UniRef90_A3JXA2 A L R D L G A E V V F V T G R A D A P R P T G M T V V E V E S A R E M R E A V M
UniRef90_V9H417 E A K R R A G A V T L V S G P T A L N P P P N G V I N V I N I T T N E M K N A I L
UniRef90_UPI00041677B8 A A R E A G A Q V T L I V S G P V H L P T P T G V V Q R I N V Q T A Q Q M F D I V L
UniRef90_F1VWV6 A A R E A G A D V T L V S G P T A L L A T P T G V V Q R I N V Q T A Q Q M F D I V L
UniRef90_T4VWP1 K A I E R E G A D V T L V S G P T N I L A P P Q N L K R F I Q I E S A E D M Y N A V L
UniRef90_S6BGP4 A L L R E G A E V I L V S G P V S L L A P P P G V V E T I V V E T A L A M R E A V L
UniRef90_S0G761 A A E M R G A S V T L V T G S V S L D E A P P V G V V E T I C V V Q T C Q D M A D T M L
UniRef90_UPI0003105202 A A R M A G A D V T L I V A G P V S L L E T P P R G S K S V Q N V E T A R Q D M L A V Q
UniRef90_UPI0003B6F20B A L R D L G A N V T F V T G P P A S V A P P S G V V S V Q H V V E T A A Q M L S A V Q
UniRef90_K9YA34 A A I D R G A T V T L V H G G H T L I P S P R F R L I S V T S A D E M Y E A M L
UniRef90_B8FNB8 A A E H R G A K V T L I V S G P V S I S P P E N A V T H K V M T A L E M A E V L
UniRef90_A7NPG6 A A R D R G A S V T L I V T G P P A R V P P A A V V T L V R V E T A L E M Q R E V E
UniRef90_R6AGL5 A A W M E G A D V T L V S C T T A L P A P Y G V K M V Y V Q D A R E L E K A M N
UniRef90_F3ZUL9 E C A E R G A K V T L I V A G P V S L K T P H A N I T R I D V R S A Q D M L H Q A V Q
UniRef90_A0A016XKP1 A A R E T G A D V T L V A G P Q S L T P T P R G V R R V R A Q E M L Q A V Q
UniRef90_G7VVB2 V A Q E L G A D V H L I V A A N T S A E P P V G I S R L E R V V Q S A D D M Y S A V L
UniRef90_K9U046 A A F H R G A D V T L V H A P L V N A E T P P S G V R S L P V V E T A A Q E M E K A M L
UniRef90_UPI0002F302A3 A A L M R G A T V T L I H A P L I P V P L H I K T F P V V E T A A Q E M Q K A L L
UniRef90_U2EE99 E A R D R G A E V V L I S G P T S L K P P P F G V V K L I N V K T N Q E M Y D N V L
UniRef90_A4AV12 S A A N L G A E V V L I S G P S N F L E T Q D S V T L V N V T S A E E M Y A A A H
UniRef90_UPI000368B4DD A A A M G A D V T L I S G P V Q I A T P A G V V K R I N D V I S A E Q M H D A A L
UniRef90_R5RHY4 R A Y Q L G A K V T L I S G P T D L R V I P Y G V E V I N I K S A R A M F E A V K
UniRef90_UPI000467F44B E L Y R R G A Q V D L V S G P S V L E I T P E E G I N T V R N T E S A E M L J A C R
UniRef90_K1ZLV0 A A Q E A G A N V I L I S G S T N L E A T P T K V I N R I N T Q T A E D M Y Q A V M
UniRef90_G0J6T1 K A A E R G A K V T L I L G P T A L K P H P N I K I I P V T S A L D M F E A S Q
UniRef90_Q9PGZ7 A A V S H G A E V V L V A G P V Y Q P T P P G V T R I N D V R S A A Q M R D A V L
UniRef90_UPI00047135A6 A A R E A G A D V V L I S G P T A L P T P P F G V V Q R I N V V Q S A A Q M H D A V L
UniRef90_H6L6M7 T L A K L G A E V T L I S G P V K V P K H P A V K I I D V V K S A Q E M Y E A A I
UniRef90_UPI000363D6B5 T A L L L G A E V T L V Y A R T E G T P P A G A T L I P V V E S A E D M Y E A V M
UniRef90_F3L3K3 A A I E A G A T V T L V A G P V H L D T P P P E R A T R I D V E S A R D M L S A C H
UniRef90_UPI0003B36934 A C R D A G A E V T L V S G P T A L L T E P P V G V V H T L A D V R Q A R E M L J A A V E
UniRef90_R5GMX5 Q A R D L G A E V T L V S G P V A L D D A P P Y G V D D V V D V N T T A R D M F D V V T
UniRef90_D9TNS0 A V K S R G G R A L I V T G P T N L E D A P P I D I E T I H V N T A C E M Y D A V M
UniRef90_Q1QT82 A W A R R G A Q V R L I S G P V T L A A P T N V E R V D V N T S A S E M L S A A E
UniRef90_D2UBD3 A A V R R G A Q V R L V S G P V Q L R T P P D G V V Q R I D V R T A R E M Y Q A V L
UniRef90_X0SR69 A A S R D C G A Q V R L I N A P T S L R P P L Y G V E M M P V R T A R E M Y G A V M
UniRef90_UPI0003B6F2EF I A Q K M G A H V T L I S G P V K L T T P K N V E R V D I L S A L D M H Q A S L
UniRef90_C1D8V3 A C R D A G A E V T L V S G P T A L R K T P Y G M Q C L N V R S A R D M L J A A V E
UniRef90_W6LXL3 A A A A G A E V V L V C G P V S L R T P V G I E R V N V E S A A V M H E V V M
UniRef90_U2HIB4 R L K Q L G A Q V T L I T G P T A L P P P Q E I E T I S I Q S A Q Q M Y D A S T
UniRef90_C5RA38 A A V E Q G A D V T L I S A T S Q L S D P V G V I E R T L H I T S A Q E L S E Q M F
UniRef90_UPI000471877F E L Y M Q G A D V H L I C G P L Q L S I N H H I K L S K V T S A E E M Y N A A T
UniRef90_M5JE46 E A R Q L G A D V T L V T T V K R A V H A D L H V L M V E T A Q Q L D M T M K
UniRef90_UPI00035FE9E2 A L A R L G A D V T L V S G P T A L P Q P P S G M N F V Q I E T A V E M L D A V K
UniRef90_UPI0003615DF9 A A A A R G A A V T V V A G P C T E P T P P P E R V D V E T A Q Q M H E A V M
UniRef90_UPI0001D2E532 A A A R A G A Q V T L V S G P V E I A D P P G V T V R H V E T A L E M L J A A V E
UniRef90_E6SPM7 E C A G R G A K V T L V S G P V Q T T H P P M Y E R Y H V E S A R Q M Y D V A Y
UniRef90_W7ZFK7 E A R N R G A H V T L V S G P T G L K T P P S G V V E V V S I E S A R Q M Y E V T
UniRef90_Q11B03 A L A E L G A E V H L V S G P V A I P D P P G V V A T V H V E S A R Q M R D A V E
UniRef90_E8LK81 A A A A R G A E V T L V S G P V S L K V P D G K A I N K V K T A Q D M F L A V T
UniRef90_T0CGE1 Q A I A R G A K V T L V S G P T N L P V P P G A K M A I N I R S T E S E M L Q A G V Q
UniRef90_B0C6A4 A A W Y R G A D V Q L V H G P L A S P L P P Q Q L E T V A V I T S S A E M R A A M L
UniRef90_UPI00047B46DB A A R E A G A D V T L V A G P V S Q P T P P R G V T R R I V Q S A R Q M L Q A T V
UniRef90_I4YYPO A A A E A G A R V T L I S G P V M L P D P P S G V V E R T T V H V E S A R E M L Q A V E
UniRef90_UPI00047D94FF E A S R R G A K V T L V T G P T N L D P P S G V V E A I R V N T T R E M L J E A I K
UniRef90_UPI00036B78D1 E C R R R G A T V T L I S G P A S P E Q D L S D I T L I K V D T A E E M Y Q A C M
UniRef90_L7EPS5 E A R D R G A E V T L I S G P S S L E A K P Y G V I K I D V D T A E E M Y N K V L
UniRef90_D31BN6 E C A K R G A K V T L V S A G P V A L S A S K R I E R I N V E S G E E M Y H A N
UniRef90_E4T2Y5 V C A Q Q G A E V C L I A G P V Q L K K H Q D N I E R I N V E S A E E M Y S A V M
UniRef90_UPI0003743AE3 A A Q S L G A D V T L I H G P V L S L P K P D D H S I S I T S A E L F E A V K
UniRef90_K8NX35 S A A E A G A K V T L V S G P V D L D D P A G V V R V I S I V E S A R D M L J A E V E
UniRef90_A0A031MDX3 A A A E A G A R V T L V A G P V N L P T P P R V D R V D V N T S A A E M L J A C
UniRef90_B11M3 E A R D R G A K V T L V S G P T N L K T P L G L D I K V N T N E A E M L K A V K
UniRef90_V9XB56 L A A Q R G A D V T L V A G S V S L D D P A A V D V V R V Q T A A Q M Q D A V A
UniRef90_UPI00036B1200 A A Q E F G A S V T L I S G P V A L D D T P L G I E R I W V E S A A D M L J E A T R
UniRef90_W8EVC3 T F A A E G A E V V L I S G P T N L P D P P T I R T V R V Q T A D E M Y R A T A
UniRef90_UPI0003B5FA65 A A A S M G A E V V L V S G P T Q L D T P P E G V V R R V I N I E T A A E M L J E A V T
UniRef90_UPI0003163AA1 A A S A R G A D V T L I S G P V A L P A P P P V T L I D V E T A R Q D M F E A V K
UniRef90_K5YZ27 A L V A L G A R V T L I S G P V A L P D P P F G V V E V I K V E S A R Q M Q A V Q
UniRef90_W3RKL8 A A A A G A D V R L I S G P V N L P A P A G V A V T R V E S A R D M L K E V E

UniRef90_UPI0002E16067 Y H Y D H A D I V V 90 K T A A V A D Y R P K T I H D Q K M K K Q T L L E L E R T T D
UniRef90_F9DPG3 S Q F E D A S I V V K S A A V A D Y R P K S V H T Q K M K K D V L E L E R T T D
UniRef90_J4VSW7 E V I E E A D I A I F S A A V A D Y R P R Y H H T E K K E M A L L E L E R T T D
UniRef90_UPI00031503EC Q E I L N S D V I I F M S A A V A D Y R P R D Y N S E K K L P K K E M A L L E L E R T T D
UniRef90_E6RIW9 K Y A P H S D A F I V G C A A V A D Y R A A S I A T Q K M K K K G D E L T K R N P D
UniRef90_B4UK14 S A Q A D M S D L I F V G A A A V A S D Y R P A A P A A H K K K K K G P E E E T K R T C D
UniRef90_F9Z8X5 N Y A E D S H I I V S C A A A V A D D F T P D R K A G L K L K K K D Q K E L T P T C D
UniRef90_K7Z517 A A L P V D I V V C A A A I S D W R V N T I S K H K I K K K T L Q L T E N A D D
UniRef90_F4XUW4 A D F P N A C D L I V M A A A V A D V T P G L Y Q D D M K I P K K H G L P A K P V P D
UniRef90_R9MS71 R L F D N C D V I V S P A A P A D Y R P K E R F D Q D M K I K K H K D Q K E L T P T C D
UniRef90_R7B4Q8 P V F D A C D M G I F A A A V A D V R P A K E M D R K L K K G T I N D A E E N P D
UniRef90_Q7NTH4 A E V L G R S D V I F I S V A A V A D Y R V K N R S E H K K K K R E K I L Q L C P T N D
UniRef90_R5MER9 S E F K D G D A A I L C A A V A D D F R P K A V A E N K I K K R E K I L Q L C P T N D
UniRef90_A4C8X3 T L A V I E S D V F I G C A A V A D Y R A A D I Q S E Q K I K K Q G D N L T K N P D
UniRef90_F2JR87 Q H F E W A D V V I K T A A V A D Y R S P A I S E H K K K K D N S H L T P N P D
UniRef90_R7HDT5 E A A K E S D L I V K T A A V A D Y R P A S V S D E K I K K S D G E M S I A L E
UniRef90_B8HNM7 D Y F S Q A D W T I M A A A V A D V K P A H Y S A E K L L P K N A L E L E P V P D
UniRef90_B2A2J9 A N L D R S D V I I K T A A V A S D Y R P Q E T Y H P K L L K K K A D E S T Q N P D
UniRef90_I3IEX6 A A A D S C D V I F I A A A V A D Y R P A Q V A P Q K L K K G A D Q S I N P D
UniRef90_R6A2X8 S I F P H C D T G I L C A A V A D D F T V A E T A K H K I K K R E H L D L I P T H D
UniRef90_A4A9B5 G L L H N C D I F I G C A A V A D Y R P A D A A V Q K I K K S A D E V V K N P D
UniRef90_F2G1U8 K L A P A T D I F I S T A A V A D Y K A V S I A D N K I K K T G D E F V K N P D
UniRef90_A3JXA2 D A L P V D A G V F A A A V A D W R V K S A S A S K I K K P V L E F E E N P D
UniRef90_V9H417 D N F E K S D I V I K S A A V A D Y K A K N Y S N E K I K K K G E G T F V R N D
UniRef90_UPI00041677B8 Q H A P T A T V I A T A A V A D W R P A A V A L H K I K K P Q L S F V E N P D
UniRef90_F1VWV6 S H V S G Q D V F I A V A A V A D W R V V N A S E Q K L K K N Q L S F A L N P D
UniRef90_T4VWP1 E N M D E N Q V I I K S A A V A D Y R P K E Y S D N K I K K S D D D L S I R L P D
UniRef90_S6BGP4 E A V A G A D L F I A C A A V A D Y R P R E V A D H K I K K T E E T L Q K N P D
UniRef90_S0G761 S K M A H A D I I Q V A A V A D F R P D H R E T L K I K K T S D Q D R M N P D
UniRef90_UPI0003105202 A H V P A Q G V F V A T A A V A D W R P A N A A D Q K K K K D G S G F T P N P D
UniRef90_UPI0003B6F20B A A L P A D C A I F A A A V A D W R V A N A A A S Q K M K K K D G A E F A E N P D
UniRef90_K9YA34 A H F P T A D Y T M L S A A V A D V K P A H Y S T K K L P K K E I P N C L P L D
UniRef90_B8FNB8 A Q A E R A D I V I K T A A V G D Y R C E R E A E Q K I K K T G D C M T P N P D
UniRef90_A7NPG6 S A I A D A D L L I M N A A V A D D F R P A I V A A G Q K I K K G D D E E V R N P D
UniRef90_R6AGL5 A E Y D S C D A A I M A A V A S D Y R P T V Q A D Q K L K K E H I D L T Q N P D
UniRef90_F3ZUL9 D A F P N M D V I I L S A A V A D Y T P A D V S A T K M K E M N L E L K P A Q E
UniRef90_A0A016XKP1 P E I A I A S V F I A T A A V A D W R P A S A S T Q K K K K D G S G K P A L E
UniRef90_G7VVB2 R Q W G D S D L V V M A A A V A D Y R P R E A A Q T K I K K K D S T F T V K N I
UniRef90_K9U046 E C F P T A D L T V M A A A V A D V K P A N Y T R E K L P K R S L P S S F V T P D
UniRef90_UPI0002F302A3 R E F P Q A D W L L M A A A V G D M K P Q K Y S P V K L P K A E L P S S F V P D
UniRef90_U2EE99 Q Q F E D S N T V V M S A A V A D Y M K P S Q Y S N T K I K K K E N N L E K D N D
UniRef90_A4AV12 E Y Y E K S D I A I C A A A V A D Y R A K T I A S Q K I K K T K D D F T I N K D
UniRef90_UPI000368B4DD K A A I Q S D I F I G C A A V A D Y R A A E V A T N K I K K G S D E Q L Q N P D
UniRef90_R5RHY4 E S Y E K Q D Y I I K A A A V G D Y R V K E I A T N K I K K H E D E M V K N D D
UniRef90_UPI000467F44B K V V S W C H A A V A F T A A V A D Y R P A E R S I D S K I K K R E T K G D M R N P D
UniRef90_K1ZLV0 R E I L S G C D I F I A T A A V A D Y R P K N I S P Q K I K K N T T E L Q P T P D
UniRef90_G0J6T1 N H H N E A K V V I F C A A V A D Y R S E K P S V E K I K K K Q I K L V K N P D
UniRef90_Q9PGZ7 S A F P A D V I F I G A A A V A D Y A P K S V L P Q K K K S G Q E L V R T Q D
UniRef90_UPI00047135A6 S A V H G Q H V F I S V A A V A D W R V A N P S T Q K M K K P D L K F E Q N P D
UniRef90_H6L6M7 S A F P Q A H L A V L A A A V A D Y T P E N V A C E K I K K M R I D L C R T K D
UniRef90_UPI000363D6B5 K R L E A T D A I V K A A A V A D Y R P K H T L D R K M K K M T I E L V R N P D
UniRef90_F3L3K3 S A C H Q A D I F I A C A A V A D Y R P V T V A D H K K K Q T I E L T Q N P D
UniRef90_UPI0003B36934 Q S L S G Q D V F I S V A A V A D Y R P A E Y H E H K I K K Q H E G V P T N P D
UniRef90_R5GMX5 S R F S D T D I T V M A A A V G D F R P V E Q A R D K I K K N G R E L T S N P D
UniRef90_D9TNS0 K L K D N D I F I G A A A V A D Y R P E R Y E V N K I K K S D D N I J R N P D
UniRef90_Q1QT82 Q S A A E S D I F I G C A A V A D Y R A D T V A E H K L K K A D A S D T M N P D
UniRef90_D2UBD3 G A L P A D I Y I G T A A V A D Y T P K Q V L T E K I K K N R D E L T R T P D
UniRef90_X0SR69 D C L D D T D I L I M A A A V A D Y R P T R I A P Q K L K K G E R F V L E L E
UniRef90_UPI0003B6F2EF A Q L D C C D I F I A C A A V A D Y R P E Q V A T H K I K K Q Q G G D D L T I K
UniRef90_C1D8V3 A H V A M A D V F I S V A A V A D Y R P Q V T S E H K K K T E G G L P V R N P D
UniRef90_W6LXL3 K R A R Q A D I F I A T A A V A D Y R A H L A E Q K I K K T Q D E L V R N P D
UniRef90_U2HIB4 S V F P T A D I I V M S A A V A D Y T P I D I S A K E K I K K K S D T F S I Q L K
UniRef90_C5RA38 T A L P H G A D V I M A A A V A S D Y R M A Q T A Q N K I K K Q E S G E L N P D
UniRef90_UPI000471877F N A F D G S D I A I M S A A V A D Y T P A V A A K E K I K K E S G H L S K T K D
UniRef90_M5JE46 E Q F D A A D I V I M A A A V A D F R V A E I A E H K M K K T D G D D T M N P D
UniRef90_UPI00035FE9E2 K G L P S D I F I S V A A V A D W R P A E P S D K I K A K T T K D V E N P D
UniRef90_UPI0003615DF9 A R A D T T G L F I A A A A V A D Y R V A E T A A Q K I K K R E G T E E V R N P D
UniRef90_UPI0001D2E532 A A L P A D L F I G A A A V A D W R I E P A P D K I K K Q P G G A P P N P D
UniRef90_E6SPM7 A L F K E A D A A I L S A A V A D Y T P E E V A D E K I K R E K T N G G M D I A A
UniRef90_W7ZFK7 K R F N D V D I V V K S A A V A D Y A P E I V E N Q K R K K Q T N Q W K T R A A
UniRef90_Q11B03 A L L P A D A G I F V A A V A D W R P L T E V I G E K I K K D R G A N P P N P D
UniRef90_E8LK81 E H A K D N D I V I G C A A V A S D Y R V E K V S D Q K I K K Q D G K L V E N P D
UniRef90_T0CGE1 A A M A D A D V I A A A A P A D Y R P V E V F N H K W K K P N I V L E E T P D
UniRef90_B0C6A4 A A Y P Q A D W T I M A A A V G D V Q P A H Y F P E K L P K K S L P S D P P D
UniRef90_UPI00047B46DB S A T A T A D V I F A T A A V A D W R P A S V S I A K I K K A E G G F I E N P D
UniRef90_I4YYP0 K A L P A D I G I F A A A V A D W R V A N A G E Q K I K K P A E L S L T E N P D
UniRef90_UPI00047D94FF L R F K E C D V L V K A A A P L D Y R P D I V S D H K I K K D E N T L K M K N P
UniRef90_UPI00036B78D1 D H F E S A D I A L M A A A V A D Y R P A A V S D T K I K K Q E S N L V K T R D
UniRef90_L7EPS5 E Y Y N D S D I V I K S A A V A D Y K V K N Y S E K K I K K A N I T F T R D N D
UniRef90_D31BN6 K A F K T A D V A I L C A A V A D Y K P Q N E A K E K I K H S E G N M Q S T R D
UniRef90_E4T2Y5 S R F Y G M D G A I L C A A V A D D F T A L D V A P E K L K R G K D E L Q P T R D
UniRef90_UPI0003743AE3 E Y Q H A D V I I M A A A V S D F T P V D V H K N K V K K S E I K L T K T Q D
UniRef90_K8NX35 R A L P A D I A I F A A A V A D W R V A N A G E Q K I K K T S A G M P P N P D
UniRef90_A0A031MDX3 A A L P A D L E I A S A A V A D Y R P A S C A P G K L K K M T L T L T R N P D
UniRef90_B1IM3 D N F E R Q H I V I K S A A V A D Y K P K E Y K E H K I K K F N L E L I R K D K D
UniRef90_V9XB56 K H A S G A D A V I M S A A V A D F R P F T F A T S K I K K G E G E P D K N D D
UniRef90_UPI00036B1200 Y A A G L N D I F I A T A A V A D Y T P K Q V A T Q K I K K A N N D E M T R T D
UniRef90_W8EVC3 A E A A A T D V V V F A A A V A D Y K P A H V A E N K I K K A G D E L V K N V D
UniRef90_UPI0003B5FA65 S E V P G T S I F I A A A V A D Y R L K E V A T K M K K Q H L E L E Q N P D
UniRef90_UPI0003163AA1 S H M D S D L G I F T A A V S D F T P R Q D V Q S S K M K K S E D D D E L S I E
UniRef90_K5YZ27 A A L P A D I A I C A A A V G D W R P Q T E A S Q K L K K D G S G A T E N P D
UniRef90_W3RKL8 A A L P V D C A I F A A A V A D W R V A D A G T Q K I K K Q A G A I P E N P D

UniRef90_UPI0002E16067
UniRef90_F9DPG3
UniRef90_J4VSW7
UniRef90_UPI00031503EC
UniRef90_E6RIW9
UniRef90_B4UK14
UniRef90_F9Z8X5
UniRef90_K7Z517
UniRef90_F4XUW4
UniRef90_F9MS71
UniRef90_R7B4Q8
UniRef90_Q7NTH4
UniRef90_R5MER9
UniRef90_A4C8X3
UniRef90_F2JR87
UniRef90_R7HDT5
UniRef90_B8HNM7
UniRef90_B2A2J9
UniRef90_I3IEX6
UniRef90_R6A2X8
UniRef90_A4A9B5
UniRef90_F2G1U8
UniRef90_A3JXA2
UniRef90_V9H417
UniRef90_UPI00041677B8
UniRef90_F1VWV6
UniRef90_T4VWP1
UniRef90_S6BGP4
UniRef90_S0G761
UniRef90_UPI0003105202
UniRef90_UPI0003B6F20B
UniRef90_K9YA34
UniRef90_B8FNB8
UniRef90_A7NPG6
UniRef90_R6AGL5
UniRef90_F3ZUL9
UniRef90_A0A016XKP1
UniRef90_G7VVB2
UniRef90_K9U046
UniRef90_UPI0002F302A3
UniRef90_U2EE99
UniRef90_A4AV12
UniRef90_UPI000368B4DD
UniRef90_R5RHY4
UniRef90_UPI000467F44B
UniRef90_K1ZLV0
UniRef90_G0J6T1
UniRef90_Q9PGZ7
UniRef90_UPI00047135A6
UniRef90_H6L6M7
UniRef90_UPI000363D6B5
UniRef90_F3L3K3
UniRef90_UPI0003B36934
UniRef90_R5GMX5
UniRef90_D9TNS0
UniRef90_Q1QT82
UniRef90_D2UBD3
UniRef90_UPI000369
UniRef90_UPI0003B6F2EF
UniRef90_C1D8V3
UniRef90_W6LXL3
UniRef90_U2HIB4
UniRef90_C5RA38
UniRef90_UPI000471877F
UniRef90_M5JE46
UniRef90_UPI00035FE9E2
UniRef90_UPI0003615DF9
UniRef90_UPI0001D2E532
UniRef90_E6SPM7
UniRef90_W7ZFK7
UniRef90_Q11B03
UniRef90_E8LK81
UniRef90_T0CGE1
UniRef90_B0C6A4
UniRef90_UPI00047B46DB
UniRef90_I4YYP0
UniRef90_UPI00047D94FF
UniRef90_UPI00036B78D1
UniRef90_L7EPS5
UniRef90_D31BN6
UniRef90_E4T2Y5
UniRef90_UPI0003743AE3
UniRef90_K8NX35
UniRef90_A0A031MDX3
UniRef90_B11M3
UniRef90_V9XB56
UniRef90_UPI00036B1200
UniRef90_W8EVC3
UniRef90_UPI0003B5FA65
UniRef90_UPI0003163AA1
UniRef90_K5YZ27
UniRef90_W3RKL8

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

UniRef90_UPI0002E16067 | I V A N D V T Q A D S G F G T D T N T V V L T L G K E N V Q Y F D N M T K K Q L A
UniRef90_F9DPG3 | I I V N S D L T D D P G G G F G S D T N N V V T L L S R E E S E T P F E T E A M P S K K D Q L A
UniRef90_J4VSW7 | I I V L N S Q D Q D A G G S G F A H S E R N N K V L L F D R K N N S I E E Y E L K K D A V E M A
UniRef90_UPI00031503EC | I I A N S P V L D D K K G A G F G S E R N N A L T L Y W Q N N E Q L D L P E T S K K L E I F A
UniRef90_E6RIW9 | C A N D V S G H S D V G F G S E R N N A L T L Y W Q N N E Q L D L P E T S K K L E I F A
UniRef90_B4UK14 | V V L N S V K G A S P G A G C F G G Y D T N R K V T I I S R A N E L V Q E Y E L K S K K E V V A
UniRef90_F9Z8X5 | I V L N S V S L D D S T F G S D T N T L H L I T S T D K L E N W P T M T K K A E I A
UniRef90_K7Z517 | I L A N N V S L D D S T F G S D T N T L H L I T S T D K L E N W P T M T K K A E I A
UniRef90_F4XUW4 | I V A N N P V D K K P N A G F G S D T N Q A L I D K D T S R Q Q I N R C T K K L E L A
UniRef90_F9MS71 | I V A N N I K K P D A G F A T D T N I V T I I D K D T S A L D Y A K Q T K K E L A
UniRef90_R7B4Q8 | I V A N E V G A N K V F G K D D D E V W L V T S D E E E T H L P L M S K K A E L A
UniRef90_Q7NTH4 | L V A N L A Q Q A M G S D D D N Q V V L L D D N D E T K K F E K K M P K D E V A
UniRef90_R5MER9 | I V L N S T R N E G T T F G R S D D D N Q I E I I W Q S N G Q L D L P V Q S K E L A
UniRef90_A4C8X3 | C A N D V S A Q Q G I G F N S D T H N A L T I Y W Q S N G Q L D L P V Q S K E L A
UniRef90_F2JR87 | I V A N N I A E D D G A G F K G T D T N I A T L I E S T K T D C T A Y E P Q M S K L Q L G
UniRef90_R7HDT5 | I V A N N I A E D D G A G F G T D T N I V I T M I T K T D C T A Y E P Q M S K L Q L G
UniRef90_B8HNM7 | I V A N N P I D Q P G S G F G S D Q N Q A I F L D A D Q N R Q T I L P P C T K L E L A
UniRef90_B2A2J9 | I V V N D I S S D S R L G F N S D E I N A V T V I F E D E H S N H E L S Q R S K T Q L A
UniRef90_I3IEX6 | V I A N N I S S D S R L G F N S D E I N A V T V I F E D E H S N H E L S Q R S K T Q L A
UniRef90_R6A2X8 | I V L N S L R T S P G A G F A C D E N K V T L L F A D D G T K D F P L K S K T E V A
UniRef90_A4A9B5 | I V A N D V S T D S R L G F N S D E N K A A L L W R Q D D D E R V L E Q C S K D V L A
UniRef90_F2G1U8 | I A N D I S T T E S R L G F N S D E N K A A L H V I W Q D D G D R K R L P A T S K D E L A
UniRef90_A3JXA2 | I V A N D V S P A T G I M G G T E N A V V L I T A D D G A E A W P R A A K S D V A
UniRef90_V9H417 | I V A N D L T S A D T G F G S E D D N A L L V I I S K D E G E E L P D K R A S K R E V A
UniRef90_UPI00041677B8 | L V G N I G P A T F G Q D D N A L L V I I S K D E G A G A Q E L P R A S K R E L G
UniRef90_F1VWV6 | L V G N I G H A T F G K D D N E L V L F D A N T E I H F P H A P K Q E L A
UniRef90_T4VWP1 | I V A N D L T G Q D G A G F G V D T N I V K I I D R E G G V Q E H P R K M K K E V A
UniRef90_S6BGP4 | I A A N Q V G G K D A G F Q T D T N K M T L F F K D G S K D I P L M D K Q A V A
UniRef90_S0G761 | I A A N L V G G K D A G F Q T D T N K M T L F F K D G S K D I P L M D K Q A V A
UniRef90_UPI0003105202 | L V G N I G P A T F G Q D D N A L M L V D A D A G A K E L P H A S K Q V L A
UniRef90_UPI0003B6F20B | I V A N D V S P A T G I M G G A E N A V T V I S D A D A G A D G W P R M S K A E V A
UniRef90_K9YA34 | I V A N P I D R T E G G F G S D D N Q C I L L G K A G A G E Q S I L P L C S K L Q L A
UniRef90_B8FNB8 | I A A N L I G P S D S G F G A D T N K I T C F S C G A G A T D L G L M S K E A A A
UniRef90_A7NPG6 | I V A N E A V A S I G S E D I Q L I L I D A Q G G I E R L P L L P K T E A A
UniRef90_R6AGL5 | L V A N D V A M P G A G F N G T T N I A S L L Y K D G H E Q Y P K M S K D E L G
UniRef90_F3ZUL9 | I V L N S L Q D K G A G F Q C D N K V S L I D A S S R T D F P L K M K K E V A
UniRef90_A0A016XKP1 | L V G N I G P A T F G Q D D N A L L L V D A S A G T K E L P R A D K K L T L A
UniRef90_G7VVB2 | L A A N D V T A D G A G F G V D T N A V Q I Y D R A G G V E S I P V Q S K E E V A
UniRef90_K9U046 | I V A N P I D L P D S G F G S D Q N Q A I F L N K A G D D R I A P G T K L E M A
UniRef90_UPI0002F302A3 | I V A N P V D L Q V G S G F G T D Q N Q A V F F A K T G E K E V E R C S K L E L A
UniRef90_U2EE99 | I V A N D I L S N D T G F A S D D N K V I I M S K T G E K S L E D K M H K K S V A
UniRef90_A4AV12 | I L N S L N S D Q G A G F A S D D N K V I I M S K T G E K S L E D K M H K K S V A
UniRef90_UPI000368B4DD | C A N D V S Q P D G A G F N S D Q N A V T L L W Q D G E Q A L E L K S K A A L S
UniRef90_R5RHY4 | L V A N N L N E N G A G F K K D T N K V T F I S K N D V Q S A L E L M S K D E L S
UniRef90_UPI000467F44B | I V L N T L Q D A G A G F G G S D T N K V T F I S K N D V Q S A L E L M S K D E V A
UniRef90_K1ZLV0 | I I A N Q V L G Y N L C F G S D E N S V V I F S K N N K I E L P R M Q K T K L A
UniRef90_G0J6T1 | V V L N S L L D S E A G F Q K D T N Q V T I L S K N K E I K T P V M S K E L L A
UniRef90_Q9PGZ7 | I I A N Q V L G V G N G F E S D D N A V T V Y W Q G G E R V E A S C S K V E L A
UniRef90_UPI00047135A6 | L V G N I G H Q T F G Q D D N I I L F D E N G H T I L P R A D K K L T L A
UniRef90_H6L6M7 | I V L N S L R D K G A G F G H D T N K V T F I D R Q E T E E H E L K S K L E V A
UniRef90_UPI000363D6B5 | I V A N D V T Q A G A G F G V D T N I V R V Y G K E G V E S L P L P E A S K L R S V A
UniRef90_F3L3K3 | I I A N D V T G N D A V F G Q D H N S V I I I G S E L L H L P E A S K L D V A
UniRef90_UPI0003B36934 | L V A N L A Q A A M G A D D N E I V L L D D A G Q H P M P R M E K S A V A
UniRef90_R5GMX5 | I V A N D V L R T P G A G F A A D N N V V T V L T P G E T E R W S K M G K D A L A
UniRef90_D9TNS0 | I V A N D V S M E G A G F S G D T N I V N I I D K D N I K E Y P L M S K T N V A
UniRef90_Q1QT82 | I V A N D V S S A G L G F G A D D N A A L L L W H A E R Q A L P A Q A K T D L A
UniRef90_D2UBD3 | I I A N Q V G V V G N G F E S D Q N A A T A Y W Q H G A R S E L P A V V K T Q L A
UniRef90_X0SR69 | I V A N D V S A T D S G F G V E T N R V T L L T P D G S T F P L M S K S E V A
UniRef90_UPI0003B6F2EF | I A A N D V A K S G Q G F N S E K N A L T V F S E T E R F D I T L A T K K V V A
UniRef90_C1D8V3 | L V A N L A Q S A M G A D D N E V L L D D S G G H P L P R M G K P D V A
UniRef90_W6LXL3 | I A A N R V G V A G S G F E S E Q N E L H V L D W E G G E K G L P L A D K T L L G
UniRef90_U2HIB4 | I V L N S M K D K G A G F G T D T N K V T I I S K D T I K N F Q L K T K V E V A
UniRef90_C5RA38 | L I A N D V S K D Q V G F G Y D T N Q V T I L T K D K E P E L P L Q S K I L T L A
UniRef90_UPI000471877F | I V L N S L R D S N A G F G Y D T N K V T I F D R S G T V T F E T G L V S K K K V A
UniRef90_M5JE46 | I V A N D V S Q E N I G F A H D T N A V S L V T E N Q V E T L P L A T K N D I A
UniRef90_UPI00035FE9E2 | I V A N D V S S G D V M G G S E N A I A L V K R D G G L E S L P R M D K A A L A
UniRef90_UPI0003615DF9 | I A A N V W G R P G T G F D S E R N A I E V L W D G G H T S L P R D A P K A D L A
UniRef90_UPI0001D2E532 | I V A N D V S A A S G V F G G D A N E V R L V G A D D G V E S W P R L D K S E V A
UniRef90_E6SPM7 | I V L N S L N D E G A G F R C D T N K I C I I D R E G T T D Y P L K S K V E V A
UniRef90_W7ZFK7 | I V A N N I T T E G A G F D H D T N I V T V Y A R D H E K R Y P L A S K K D V A
UniRef90_Q11B03 | I V A N D V S H R S G V M G G D R N K V H I V S R D R V E E W P E A G K E E V A
UniRef90_E8LK81 | I V L N D V S S K Q D I G F S D D F N A V T V F D K E G K V A F P K M T K E V L A
UniRef90_T0CGE1 | I V V N D V S P Q V G F D V D T N Q V V I S R N G E V D L P L M T K A N V A
UniRef90_B0C6A4 | I V A N P I D Q P Q S G F G S E H N Q A V F L D S A G H Q V I P L C S K L L M A
UniRef90_UPI00047B46DB | L V G N I G P A T F G Q D D N E L L V D A S G H Q V I P L C S K L L M A
UniRef90_I4YYP0 | I V A N D V S A G G V M G G S D N T V H L V T A S G V E T W P T L A S K S D V A
UniRef90_UPI00047D94FF | I V A N N V A E Q D A G F R G D T N V V T I L T D K D N I E E H P K M S K D Q L S
UniRef90_UPI00036B78D1 | I V L N S L N D G A A F G A D T N K V T V E T K T G E K F F A S S K S K Q A I A
UniRef90_L7EPS5 | I I A N D I T L K D T F S S D D N L V T I I S N T G E V Y L D K M S K R N I A
UniRef90_D31BN6 | I V L N S M R N E G T T F Q T A D N Q I N I S A T E N K A F E K K S K T L V A
UniRef90_E4T2Y5 | I V L N S L Q D A Q A G F G Y D T N K I S I L F R S S G D K E F E L K N K T S V A
UniRef90_UPI0003743AE3 | I I A N S L T D E G A G F E S D T N T V H L L G K N S S Q K F Q G P K K D I A
UniRef90_K8NX35 | I V A N D V S P A S G V M G G D R N T V H V L T L D K V D S W P V M T K E E V A
UniRef90_A0A031MDX3 | I V A N D V S Q K E I G F N A D D N A V T L I D R S A P Q P L P R A S K H K L A
UniRef90_B11M3 | I V A N N I S P G E T G F A S E D N L V T I I S K S D G K N L K K M S K R E V A
UniRef90_V9XB56 | L V V N A V G E G K A F E V D D N N G W L L S A D G E T A L A H G S K A L M A
UniRef90_UPI00036B1200 | I A A N S V A E G K G F D R A T N A L I E V V W A G D G S Q L P E M D K K L L A
UniRef90_W8EVC3 | V V L N S L R D A G A G F R H D T N A K I E L L E V A A D G Q T I F D L K S K A E V A
UniRef90_UPI0003B5FA65 | I V A N Q V G N G K G F D K D S N Q V D L T A A G G H T L P E A S K T Q L A
UniRef90_UPI0003163AA1 | I V M N D V S N K E I G M S D D N E V I M L F T R A D G E Q P Y P K M D K Q A L G
UniRef90_K5YZ27 | I V A N N V S G G T G I M G S D E N E V L L T A D A G A E P W A R M N K Q A V A
UniRef90_W3RKL8 | I V A N D V S P A G G V M G G D R N T V H I V T R D G V E S W P A M D K D D V A

UniRef90_UPI0002E16067 IQLFETILLSHEKE
UniRef90_F9DPG3 VRLFETILL
UniRef90_J4VSW7 HDIASFINKRLGE
UniRef90_UPI00031503EC HHI FDI NHHLIHNN
UniRef90_E6RIW9 VKVIEQLAKRL
UniRef90_B4UK14 EALLDWILPVL D AR
UniRef90_F9Z8X5 HDIVDRIVQL
UniRef90_K7Z517 YRLASKIAEYFQSR
UniRef90_F4XUW4 HRLFYFI
UniRef90_F9MS71 EILLNKIVKLL
UniRef90_R7B4Q8 DILLDTIAAM
UniRef90_Q7NTH4 SAIVRHLAALLAKR
UniRef90_R5MER9 ADIINELCNLFSSKKS
UniRef90_A4C8X3 VSIKTI FER
UniRef90_F2JR87 HVIDDKVKAYL
UniRef90_R7HDT5 GCIFDAITKNMKAR
UniRef90_B8HNM7 HALFDFILENL
UniRef90_B2A2J9 EHL LAE ENLLN
UniRef90_I3IEX6 RELIALIARK
UniRef90_R6A2X8 DDIVDFI
UniRef90_A4A9B5 AVVIAQIASL
UniRef90_F2G1U8 GQLLALIAERFALNN
UniRef90_A3JXA2 RKLADRLAEALKK
UniRef90_V9H417 SKIFETLLRK
UniRef90_UPI00041677B8 RALVQQMAERMGRGQ
UniRef90_F1VWV6 RQLITETISERL
UniRef90_T4VWP1 DVIDDKIKTLLNK
UniRef90_S6BGP4 ERLVSVIAERMDAQ
UniRef90_S0G761 HVLLDNLITRLDP
UniRef90_UPI0003105202 VQLLEDIRRLGSQQ
UniRef90_UPI0003B6F20B KRLADRIAQALN
UniRef90_K9YA34 HYLFDLI
UniRef90_B8FNB8 HALLDKAA GFLPE
UniRef90_A7NPG6 ELLLDALVERCAAR
UniRef90_R6AGL5 HIIIEKMAELMK
UniRef90_F3ZUL9 QDIVDRLVLSL
UniRef90_A0A016XKP1 RQLVAELARRLK
UniRef90_G7VVB2 RKLITIAARRM
UniRef90_K9U046 HRVFDLVVISH
UniRef90_UPI0002F302A3 HRLFDFILENL
UniRef90_U2EE99 RELFNLIIR
UniRef90_A4AV12 VDLINELIIRLDA
UniRef90_UPI000368B4DD ESLITLISEQFSQ
UniRef90_R5RHY4 D
UniRef90_UPI000467F44B ADLADYLVIRKLQ
UniRef90_K1ZLV0 RQIMRILISSL
UniRef90_G0J6T1 IQLLDRI GSLLENK
UniRef90_Q9PGZ7 ERLLAALIAERMQ
UniRef90_UPI00047135A6 RQLISEISKRIDKHS
UniRef90_H6L6M7 EDIAAKLICKMLQKK
UniRef90_UPI000363D6B5 ERIWRILAA SR
UniRef90_F3L3K3 RTCNELAKE Y
UniRef90_UPI0003B36934 WAI VQHIAQML
UniRef90_R5GMX5 KRILVKLAA MRADGER
UniRef90_D9TNS0 HILDEIKRYFN
UniRef90_Q1QT82 DAI VDRVLSLYANR
UniRef90_D2UBD3 EQLLDLIAERLHA
UniRef90_X0SR69 ERVLE RVASLWRS
UniRef90_UPI0003B6F2EF KQLLEIAAQYSQK
UniRef90_C1D8V3 RAI VSHLARLL
UniRef90_W6LXL3 QQLIALIAERY
UniRef90_U2HIB4 NDI CELIL
UniRef90_C5RA38 REIMKKI
UniRef90_UPI000471877F EEIVKILIQKVHAK
UniRef90_M5JE46 HALMRISERLQK
UniRef90_UPI00035FE9E2 QNLAKRIAESFES
UniRef90_UPI0003615DF9 DALMDLIERYH
UniRef90_UPI0001D2E532 ARLVJARLAE RL
UniRef90_E6SPM7 KDIVDRLVKLLS
UniRef90_W7ZFK7 LHI FDEIEAYMK
UniRef90_Q11B03 RRLAAKVAELLN SKAR
UniRef90_E8LK81 GVLMDLIFEM
UniRef90_T0CGE1 DRI LTRVKA LRNS
UniRef90_B0C6A4 HQVLNLI
UniRef90_UPI00047B46DB RTLIAEIA TRRL
UniRef90_I4YYPO ARLVERLGTLM
UniRef90_UPI00047D94FF GVI VDKITTLIQR R
UniRef90_UPI00036B78D1 KDLLDITIVK
UniRef90_L7EPS5 RKMFDLLEEK
UniRef90_D31BN6 IDITIDEV EAQLQSK
UniRef90_E4T2Y5 QDIVSEIYAIL
UniRef90_UPI0003743AE3 IEILNTI
UniRef90_K8NX35 DALVAKIADTLGQSS
UniRef90_A0A031MDX3 RQLI AVIDRL
UniRef90_B1IM3 KEIFD TILNK
UniRef90_V9XB56 SRVLDALGP LLAERSR
UniRef90_UPI00036B1200 RALMALISQRYQQ
UniRef90_W8EVC3 RDI VRALVJARLPHP
UniRef90_UPI0003B5FA65 FEILDITNTVYQQ
UniRef90_UPI0003163AA1 AEILGTVVKRFW
UniRef90_K5YZ27 EKLAKI GAHFE
UniRef90_W3RKL8 KGLVARIANAMTDK

UniRef90_D5EF74
UniRef90_UPI0004217D9C
UniRef90_UPI0003793104
UniRef90_W0EMC1
UniRef90_E5V1H9
UniRef90_UPI0002556B25
UniRef90_A0A033V5M6
UniRef90_W2V6N2
UniRef90_W4F010
UniRef90_Q2WAW9
UniRef90_UPI0004769D81
UniRef90_A4BU24
UniRef90_B0K294
UniRef90_UPI0003B5FDB6
UniRef90_UPI00036D5255
UniRef90_D2PV85
UniRef90_Y5PIG4
UniRef90_M9RC39
UniRef90_E6TTP3
UniRef90_K2MPI7
UniRef90_Q2SN68
UniRef90_C0N8P9
UniRef90_V1CJA7
UniRef90_L2F5H4
UniRef90_K9TC67
UniRef90_UPI000347650B
UniRef90_W5YE60
UniRef90_C7RHM7
UniRef90_B0T7C6
UniRef90_H1HA86
UniRef90_UPI0002D80E47
UniRef90_E2ZD42
UniRef90_S9Q7J6
UniRef90_T0HWR8
UniRef90_K1LXE5
UniRef90_Q7VN50
UniRef90_UPI00047E2E2E
UniRef90_M2P752
UniRef90_UPI000478FF1A
UniRef90_M2U7D0
UniRef90_V6S7R9
UniRef90_N1MQ34
UniRef90_I3ZX79
UniRef90_Q5QZB5
UniRef90_D1VSE8
UniRef90_Q15ZW1
UniRef90_UPI0003802F30
UniRef90_UPI000364B8B1
UniRef90_E8SG08
UniRef90_A0A011M8P1
UniRef90_K2FT21
UniRef90_A8U9S4
UniRef90_J1KXU6
UniRef90_R7BQW5
UniRef90_B0UR63
UniRef90_E6YNW2
UniRef90_H8W7B5
UniRef90_UPI000409E7E9
UniRef90_A6VXS8
UniRef90_G7LYE2
UniRef90_D9QJ17
UniRef90_J8TNZ7
UniRef90_D3QDI1
UniRef90_A0A010ZVW0
UniRef90_N9Y0T0
UniRef90_UPI000237C88F
UniRef90_G8M301
UniRef90_A0JX67
UniRef90_I7LB85
UniRef90_M4ZIN8
UniRef90_Q2JMS1
UniRef90_UPI0003F6F931
UniRef90_I7LQX0
UniRef90_I1YS17
UniRef90_E8T2A7
UniRef90_R6GRH7
UniRef90_R5PDZ2
UniRef90_UPI00021918E6
UniRef90_V5PN48
UniRef90_N8ZKZ4
UniRef90_UPI000262D05E
UniRef90_G5GQB6
UniRef90_A0A015NL81
UniRef90_A0A024KCP1
UniRef90_M3VB20
UniRef90_C5BLG6
UniRef90_M1KKK2
UniRef90_A5P8P5
UniRef90_F7SQW7
UniRef90_A3ING7
UniRef90_J5KB50
UniRef90_Q9RWT6

1 10 20 30 40

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

UniRef90_D5EF74 T A W Y R G A D V T L V S G P V S L L P T P H G I T Y C P V K S A M D M Y K A V 80
UniRef90_UPI0004217D9C E L A R L G A N V T R L I V T A G P T S L L K T S N N G N I V N S R R I D V V S C D D M L K A V E D E
UniRef90_UPI0003793104 A A R A L G A E V T L V V T A G P P V A L L K T T H P P A S I V I S R R I D V V S A A R E M L J A A V E
UniRef90_W0EMC1 A C A E A G A E V V L V T A G P P V A L L K T T H P P A S I V I S R R I D V V S A A R E M L J A A V E
UniRef90_E5V1H9 E V A K R G G E V L V T A G P V G I K E S T H E N I V K V K K I V V S T A Q R D M Y E A V V K
UniRef90_UPI0002556B25 A A A E A G A K N V T L I V S S G P V T H L P T Q P P E R G V V F R I D V V S A E A R D M L J A C
UniRef90_A0A033V5M6 A A R D L G A N V T L V S S G P S A L L T P P A K V V D F F Q S H S A E E M L D K V M L
UniRef90_W2V6N2 A A L M A G A E T V L V S S G S V A L E A P P A G M T R V V H V E S A L Q M L N A V R
UniRef90_W4F010 A A H K L G A E T V L V S S G S V A L E A P P A G M T R V V H V E S A L Q M L N A V R
UniRef90_Q2WAW9 A L A A M G A E V T L V S S G P V S L L P P A G V T V V H V E S A L Q M L N A V R
UniRef90_UPI0004769D81 A A R D A G A R V T L V H G P P C E L A V L P P G V I Q E A H A V V E T A A Q E M H A V L
UniRef90_A4BU24 A A Q K T G A R V T L V I A S G P P S G E F L A V L A A G V I T E R W D V E T A A Q D M Y N A V M
UniRef90_B0K294 A L V E R G A Q V I L I A S G P P T Y L E V L A A K D V I T F I P V V E T A A Q D M Y N A V M
UniRef90_UPI0003B5FDB6 A L R D L G A R V N F V T T G P P A S V L E A P P D G V V N D V I R V V E T A R Q D M F A V Q
UniRef90_UPI00036D5255 A A V A A R G A V T L I V S A N P V T L P D D P A G C D Q V V V R V V E T A R Q D M F A V Q
UniRef90_D2PV85 L A A A R G A K V T L V S A N S E L P D D P A G V V D Q V V V P V V E T S T R D M F A V A T T
UniRef90_Y5PIG4 A L A K R G A K V T L V T A G P A Q L D N P P E N V V V E V I H V V E S A E E M L J A A V T
UniRef90_M9RC39 A L L G L G A R V T F V T G P P A N I A A P L G V D T L V E V E Q S A A S D M L D A V
UniRef90_E6TTP3 E A A E R G A E V L I T G P P T N I A K P P H G V T T I L V E V E S A A S D M L D A V T
UniRef90_K2MPI7 A L A R L G A E V H L I S G P P V S I L A D P P A G V V S V T H V E S A A R Q M R D A V E
UniRef90_Q2SN68 A A V S M G A Q V T L I S G P P V S L P R P P S G V K Q R V N V E G A L Q E M H A L A V
UniRef90_C0N8P9 A A Q E A G A E V I L I A G P P V S L P T P T P G V L P T P T G V V N V E T A Q Q M L D A V T
UniRef90_V1CJA7 Q A V L R G A D V T L I T G E T H L T L P P E G L K V V K I K S A C D L H E A M M
UniRef90_L2F5H4 A C E Q L G A K V T L V A G N A M H L P T P P F N G A R A R I D V T T C A K E M Q Q A V C Q
UniRef90_K9TC67 C A L H R G A K V T F V A G G A V A P L G F Q P P G A R I R V A V T C A K E M Q Q A V C Q
UniRef90_UPI000347650B A C A L A G A R V T L V A G P P V G L L P T P A G V V Q R I D V V R S A A R Q M H A A V L
UniRef90_W5YE60 A L A A R G A D V T L V S G P P T T L P D D P A G H T R I R V V E T A A R E M L J A C
UniRef90_C7RHM7 E A K K R G A E V I L V S S G P V K P F E L E G G I T R I R V E K T N E M L K N E I E Q
UniRef90_B0T7C6 A L A K L G A R V T L V S G P P V S L P T P L G V V D R V D V V E S A R E M L J A C Q
UniRef90_H1HA86 E A A K Q G A D V V L V S G P P V S N Q K L H E R G A K T V I S V M S A R E M Y E A C H
UniRef90_UPI0002D80E47 A A A L L G A R V T L I V S G P P V A L P A P A G A T R I D V E S A R E M H D A A Q
UniRef90_E2ZD42 A A A K C G A D V T L V A A P T D L V T P F K V N R V D V M T T G E M K E A V D
UniRef90_S9Q7J6 A A R S L G A H V T V V L G P P V H L A V D R T G V L E D V V D V V G A L Q M A E V R
UniRef90_T0HWR8 A A A E A G A R V T L V A G P P V H L P T P P L G V D R V D V V E S A L Q M A E V R
UniRef90_K1LXE5 I A C Y L G A E V Q F I T S K E G F F M L P G M T E I R V V Y S A Q D M Y E A V E
UniRef90_Q7VN50 A F A K R G A T V N L I A S G P P V N I L E A P P N N V H R I N V Q S A D E M A G A V
UniRef90_UPI00047E2E2E K A A L M G A E V T L V S G P P V N I L E A P P N N V H R I N V Q S A D E M A G A V
UniRef90_M2P752 A A F M L G A D V H L I S G P P V N I L E A P P Y I P I T H I T S A Q E E L F E K V T
UniRef90_UPI000478FF1A V A A A R G A D V V L V A A N V E L P A P P F G V R Q V V P I G T A E L Q R T A M H
UniRef90_M2U7D0 A L A K L G A D V T L V A G P P V T L P T P P G V V D I R V D V E T A A R E M L J A V E
UniRef90_V6S7R9 A A A D L G A E V T L V S G P P T H L Q K H G L V V K V E R V I T S A R E M Y D V C H
UniRef90_N1MQ34 A A A Q A G A R V T L V S G P P V T H L P T P D G V T R I D V V Q T S A R E M L G A V E
UniRef90_I3ZX79 E A A K M G A E V C L I S G P P T A L K E H P N I T L H K V T S A L Q E M K N K V D
UniRef90_Q5QZB5 A A A H A G A K V T L V S S G P T Q L P L P T P T G V V Q R V D V E T T E Q M L N A V Q
UniRef90_D1VSE8 R A K K R G A N V T L I S S G P T N I L E P P K V D N D F V R I K T A E Q D M F D A V G M
UniRef90_Q15ZW1 A A V A L G A R V T L I S S G P V N I T R P P V G V V D V I Q V V I S A E Q M H K Q A L
UniRef90_UPI0003802F30 A L L N A G A Q V T L I S S G P V N I T A P P V G C D L I Q V V I S A E Q M H K Q A L
UniRef90_UPI0003648B81 A L I Q K G A K V T F V T G P P V E I S A P P F H G S K V I K V E T A D Q D M Y E A V H
UniRef90_E8SG08 A L Q K V G A E V T L V T G P P V E I S A P P F H G S K V I K V E T A D Q D M Y E A V R
UniRef90_A0A011M8P1 A A H E A G A R V T L V S G P P V H L P C P T G V V K R I D V V T S A R D M H T E V M
UniRef90_K2FT21 A A A E A G A R V T L I S S G P V N I L E A P P T P T R V V K R I D V V R A E Q M Y N A S M
UniRef90_A8U9S4 A A R N L G A D V C L I S T S K V L P Q K P Y G V T L I Q V E T A E Q M H Q A I N
UniRef90_J1KXU6 E A A S L G A E V F L I A G P P T H L K K N S L I K V V D V V I S A Q E M Y D A C H
UniRef90_R7BQW5 A A A E R G A D V T L I S G P P V A L L P D P P E G V K M V H V E T A R A N E M L S A A D E
UniRef90_B0UR63 A A A A G A R V T L I S S G P V A L L P D P P E G V K M V H V E T A R A N E M L S A A D E
UniRef90_E6YNW2 A L A N L G A T V T L I C G P P V D L M D P P E G V K T I H V V K T A C Q M L Q A V Q
UniRef90_H8W7B5 A A V A M G A E V V L V S G P P V D L S A P A G V D V R P V E S A A Q E M L E A A S
UniRef90_UPI000409E7E9 A A R D M G A D V T L V H G P P L Q I S A P A G V R A I P V E S A A Q D M L E A V L
UniRef90_A6VSX8 A A I T R G A K V T L I S G P P V Q I A T P A G A N I A V V K S A D D M L J A C E
UniRef90_G7LYE2 E A R N R G A N V T L I S G P P T A L E A V P M N G V N I K V S T N E E M R E A L
UniRef90_D9QJ17 A L A A R G A V T T L V S G P P T A L E A V P M N G V N I K V S T N E E M R E A L
UniRef90_J8TNZ7 A A Y L R G A E V T L V S G P P T N L M A P V G I K T I H I E S A K E M Y E A V T
UniRef90_D3QDI1 A L K Q R G A V T T L V T G P P T Q L D D D P Q G I E V V H I Q S A E E M F E E V T
UniRef90_A0A010ZVW0 T A A A R G A K V T L I A A N T A L P D P A G V I D V V R V V S T R E D Q E A V F
UniRef90_N9Y0T0 E A R D R G A E V T L V S G A D F L E C P K G I E L I N V Q T N S E M R E E V L
UniRef90_UPI000237C88F E L A H R G A E V K I V T S G P P V N I K L H P S V H R M D V V V S A T A M Y D L R
UniRef90_G8M301 Q A Q K R G A K V K I V T S G P P V N I S P P Y G V V V K T A D E M Y N E V M
UniRef90_A0JX67 A A R D A G A S V R L L A A H M D V P A P A G V I E V V R V V E T A L Q L R E E A L
UniRef90_I7LB85 A A R D A G A D V T L I Y G N T Q L A A P D G I N T I A V E S A R Q D M Y E A I A
UniRef90_M4ZIN8 A A Q A V G A D V R L I A G P P V E L A A D P K G V S V T H V E T A A Q L E A A V E
UniRef90_Q2JMS1 A A A C R G A T V T L V H G P P F F E P E P F G G I R A I R V E T A A Q L E A A V L Q
UniRef90_UPI0003F6F931 V A A Q R G A D V T L V A A N T D L P Q V I P S G V R V V V R N S A A E M Y Q Q V Q
UniRef90_I7LXQ0 A A V E S G A K V T L I A S T Q K A P Q I Y G V D V V Y V N S A A E M Y Q Q V Q
UniRef90_I1YS17 E C F K R G A N V T F V A G P P V H I T C S E G I N R I D V E S C E Q M Y E A C Q
UniRef90_E8T2A7 A A A A G A E V T L I S S G P P T C L K T P Y R V K R V E V T S V I E M R E A L
UniRef90_R6GRH7 A A M E R G A D V I A I C G P P V S V L Q L P K E C T I V R V E T T T E E M L D K T A
UniRef90_R5PDZ2 E C L R R G A N V T L I A G P P V N L S C S E G T R R I D V E S C E E M Y E A L L
UniRef90_UPI00021918E6 A A R D L G A Q V T L I S A P T M L T V P A G V T A Y T V G V D S T A E A M R S A L L
UniRef90_V5PN48 A A A Q A G A D V H L I A G P P C A L E T P A G V T R T N V Q T A R Q M F D A V M
UniRef90_N8ZKZ4 A C Y A A G A K V T L I S G P P V S L D E T P N G V V K R I K V S A I Q M L D E S M
UniRef90_UPI000262D05E V A N R L G A T V T L I T G P P H L E T P A G V N Q R V I D V E T A G D M H A V R H
UniRef90_G5GQB6 E A A R R G A E V I L V A G P P T L A T P A G V N Q R V I D V E T A G D M H A V R H
UniRef90_A0A015NL81 A A R D L G A E V T L V A T K S V G A L P E G V H A V R V E S A A D M L G A V M
UniRef90_A0A024KCP1 A L A N A G A K V R L V S G P P V T L P D P P R H V D V T H I E T A E Q M L S A V L
UniRef90_M3VB20 A A A Q R G A H V T L V A G A T S L P G P P A A V D V V H I D S A V E L E R E M Q
UniRef90_C5BLG6 A A L D A G A Q V T L V S G P P V N L S E P P P K V R L V A V E S A L E M H A T L
UniRef90_M1KKK2 A A V R L G A R V T L I S G P P V S I E P P V G Y Q D F L P V Q S A A D M R E A V L
UniRef90_A5P8P5 M A A A G A R V T L I A G P P V H L P T P Y G V V E R I D V E T A A D D M A E E V R
UniRef90_F7SQW7 E A A T Q G A R V T L I S G P P V N L S T P Y G V V E R I D V E T A A Q M H H E A L
UniRef90_A3ING7 A A S D R G A T V T L V H G P P I A L S L S P D Y K Q L I S I V S A D Q M E A V I M
UniRef90_J5KB50 A A I E E G A E V I L I S G P P I A L S L S P K A Q L I S I N S A D E L N E A Y
UniRef90_Q9RWT6 E A R T R G A E V V L V T G P P V N L P D L S G V I Q T V R I E T A L E M Q A I M

UniRef90_D5EF74 E K M D F A K I T I 90 K S A A V S D Y R A A S I E M E K M K 110 G K D T V Q N P D
UniRef90_UPI0004217D9C R Y F H E S D V T V M S A A V A D Y R P L K K S S E Q K T K K R F N L E L V K N T T D
UniRef90_UPI0003793104 A R V D S C D L F I G C A A V A D Y R L A E I T A S E H K L L K K R G D E A V Q N P D
UniRef90_W0EMC1 E A Y D H A D A A I M C A A V A D Y A P E T V S D V K L K K R V L R L K P N P D
UniRef90_E5V1H9 E N Y K D C D T I I K A A A V A D Y T P V E V F D K K V K K Q D T D Q F K R N P D
UniRef90_UPI0002556B25 A A M P D C D L L I K A A A V A D Y T P E V V A S E H K L K K K D P T Q M V K R N P D
UniRef90_A0A033V5M6 S R M N D C M D L I K A A A V A D Y T P V E T S E H K M K K K N G T F V R N T D
UniRef90_W2V6N2 H H L K S D M T F I G T A A V A D Y R L Q A P E P E K T K K S K Q N G I P N P D
UniRef90_W4F010 A E Y D D A N I V V K T A A V A D Y R P K T A H L E K K M K K Q P I E L E R T T D
UniRef90_Q2WAW9 Q R L P A D L V V C A A A V A D W T V A N R A S E K R K K P T I E L A P N P D
UniRef90_UPI0004769D81 E A L E G T E V F I A T A A V A D Y R P A T P A A S E Q K L K K T R E E L E R T N P D
UniRef90_A4BU24 Q H I E D C D I F I G A A A V A D Y R P A T R S A E K I K K K E T R L V R N P D
UniRef90_B0K294 M H L N E V D I V I G A A A V S D Y R P K E M K K E K I K K D E E K L T I K N P
UniRef90_UPI0003B5FDB6 A A L P A D I A V M A A A V A D W H V T N E S G L K M K K D G S G M A E N P D
UniRef90_UPI00036D5255 R V L P A D L F I G A A A V A D W R V E A A A D K I K K K T E D Q S L V V Q N P D
UniRef90_D2PV85 G R A A D A D A I V M A A A P A D F R P A D V A E H K I K K K T E D Q L V V Q N P D
UniRef90_Y5PIG4 S R Y E E Q D T V V K A A A V S D Y T P A D V L N H K M K K Q D V T F K R T K D
UniRef90_M9RC39 Q A V Q N V D V G I F A A A V A D W R L A N A S A Q K K K K Q D G K E F S E N S D
UniRef90_E6TTP3 K H F E G Q D V I V I K A A A V A D Y R P K T T F D H K V K K K Q D V E M E R T D
UniRef90_K2MPI7 G L L P A D A G I F V A A V A D W R P E T E T G E K I K K K K G E A T E N P D
UniRef90_Q2SN68 A V I Q A G A D I F I S A A A V A D Y S P V T T A D Q K M K K S A E Q L E Q R N P D
UniRef90_C0N8P9 A E A N H S D I F I S C A A V A D Y S P A K V E A N K I K K T T H E L E P T T D
UniRef90_V1CJA7 K N L D E N Q V V I Q S A A V A D Y R P R D Y H E H K I K K S D D D L T I V L E
UniRef90_L2F5H4 M L A G D K T V F I A T A A V A D Y R V K Q Q A L Q K I K K T T D D L V K N P D
UniRef90_K9TC67 E F F P Q A D M T V M A A A V A D V R P V Q F H S H K L P K Q A L P E R L P D
UniRef90_UPI000347650B E A S N G A D T Y I A A A A V G D Y R P Q Q V A P C K L K K Q A G T L A E N P D
UniRef90_W5YE60 H A L P C D L A I C T A A V A D W H V A P S A A Q K K K P A L Q L A P N P D
UniRef90_C7RHM7 R Y F D S D A L I M S A A P V D R V E N P S A D R K L K K T G N N D L I E N P
UniRef90_B0T7C6 A A L P A D V G V F V A A V A D W R L D E V F G V K L K K D K G G P P E N P D
UniRef90_H1HA86 Q Y Y A D V D A V V A A A V A D Y R P K E V A T E K I K K K F I G E M D K N P D
UniRef90_UPI0002D80E47 R L A G D C D L F I G C A A V A D Y R A E A P A E H K L K K Q D G E D T L T R
UniRef90_E2ZD42 R L Y D D A N I V I K A A A V A D Y R P A V R A E Q K I K K N D D K L T K N D D
UniRef90_S9Q7J6 A R V E D V D L F I M V A A V A D W R P Q T R A E H K V K K T E G S P E T R T P D
UniRef90_T0HWR8 G A L P A D I A V M V A A V A D W R V A Q A A D Q K L K K R G S Q L E J E N P D
UniRef90_K1LXE5 Q A F E G C D Y L V M A A A V S D Y R V K E P A L N K I K K T A T N Q E T T N P
UniRef90_Q7VN50 E L A Q K S A D L F I G C A A V A D Y R V A E V A Q K I K K N D D N E V R N P D
UniRef90_UPI00047E2E2E K A T S S C D L F I A S A A V A D Y R V V N R A T Q K M K K E V G Q D A Q N P D
UniRef90_M2P752 E I S N D Y D Y I I M S A A V G D Y T P I D T Y T E K I K K E S D T M K K T N D
UniRef90_UPI000478FF1A A E A K E A D V V V M S A A V A D F R P A T E A A T K M K K G S A A P E R N P D
UniRef90_M2U7D0 A A L P R A D I A V M V A A V A D W R T D A E P R K L K K A G S A P P E N P D
UniRef90_V6S7R9 Q Y F N E V D V A V A A A V A D Y R P K N V A S Q K I K K N E E A F S I E L E
UniRef90_N1MQ34 S A L P A D A A I M V A A V A D W R T A D A A D Q K L K K D G S G Q P E N P D
UniRef90_I3ZX79 E L A E K Q D V L I M A A A V A D Y R V K D I A E S Q K I K K E Q N N Q P P Q L K
UniRef90_Q5QZB5 Q Q L P N C D V F I G C A A V S D Y R V A E V A S Q K I K K E Q N N Q P P Q L K
UniRef90_D1VSE8 K Y F S D N A D V L I K A A A P A D Y K P K Y Y S K E K I K K N S Y D L R N N P
UniRef90_Q15ZW1 T A V S N C D L F I G C A A V A D Y K P Q K T E Q K I K K S D T E F T R N P D
UniRef90_UPI0003802F30 T C A P Q A T T F V A C A A V A D Y R V A D I A S E K I K K D S E N M Q V K N H
UniRef90_UPI0003648B81 S A L P Q A D G A F F T A A V A D W K V I K T K N K K K Q N G M V P T F E D
UniRef90_E8SG08 Q R F K Q Q D I I F K T A A V S D Y T P V D P L P H K M K K Q N V T F K R T Q D
UniRef90_A0A011M8P1 T R V T R H E V F I A V A A V A D Y R P A R T I T Q K I K K P A I E L V L N P D
UniRef90_K2FT21 A V V D E C D V E I A T A A V A D Y R P S V T A E H K I K K S T E E I H V K N P
UniRef90_A8U9S4 K E F D K A S I I M A A A V S D Y R P K K V E T N K I K K N E Q E M I K N T D
UniRef90_J1KXU6 L Y F N E V D A A I A A A A V A D Y R P K F V A D Q K I K K T T E E F S I E L E
UniRef90_R7BQW5 K A F S A C D I G I F A A A V A D V R P A S E A N K K I K K G I N D S T E N P D
UniRef90_B0UR63 A A L P A D I A V F A A A V A D W R P A A E T G E K I K K G P G G P P E N P D
UniRef90_E6YNW2 E T L P A D G A I F V A A V C D W R S Q T Q S L Q K I K K E S N Q M V I E N P D
UniRef90_H8W7B5 K A V D E C D L F I A T A A V A D Y R P E V F A S E K I K K T N D N M V R N P D
UniRef90_UPI000409E7E9 G H F D T Q D H L V I K S A A V A D Y R P K T V H A E K H K K V H I L E E T D
UniRef90_A6VSX8 R S M N T Q D V F I G A A A V A D F K M K A A N N Q K M K K Q S D T D E I N P D
UniRef90_G7LYE2 K A F S D A D I V I K S A A V A D Y K P K N Y S T Q K I K K A D N D F I R N D
UniRef90_D9QJ17 A A L P A D I A V L S A A V A D W R V D T V A G K I K K A P G G P P T N P D
UniRef90_J8TNZ7 S L Y D E A D I V I K S A A V A D Y R P A V T Y T Q K R K K W A I E M D R T K D
UniRef90_D3QDI1 A R Y Q T Q D I V F K A A A V S D Y T P K E V Q P H K V I K K Q D G E F K R T P D
UniRef90_A0A010ZVW0 A A G A D A D V V V M A A A P A D F R P A D Y V E T K I K K S G D T D M Q N P D
UniRef90_N9Y0T0 K H Y K N S D L V I K S A A V A D Y K P K N Y S K E K I K K T G D E L E R D N D
UniRef90_UPI000237C88F K L F T S C H A A V F A A A V S D Y A P S D V S A E K I K R S T I H L K A N P D
UniRef90_G8M301 K S Y A D F D I L I M V A A V A D Y K C A Q I A E K K I K K K D I E L V K N P D
UniRef90_A0JX67 R A A V D S D V V I M A A A V A D F R P A N V S D T K I K K R D D R N P D L Q
UniRef90_I7LB85 T N F N D A D V L I M A A A V G D W R A K T V A G K N K L K K Q A D Q F V K N I D
UniRef90_M4ZIN8 A E L P A D V A L F A A A V A D W R V A H E G G K L K K P L Q L T E N P D
UniRef90_Q2JMS1 A E F P Q A D L L W M A A A V G D V R P S Q V Y A G K L P K A D L P Q M P I P D
UniRef90_UPI0003F6F931 E A A P E A D I L V M A A A V A D F R P E S T A P S K I K K E P V R L V R N P D
UniRef90_I7LQX0 S S F V T A D L F I S V A A V S D Y R P A N E A S Q K I K K E G S E G V Q N V D
UniRef90_I1YS17 Q A F P A A D A A I L C A A V A D F K P L N F S D T K I D N L H I D L Q P T H D
UniRef90_E8T2A7 K A F K E A D V I V I S A A A I G D Y R P K E R H S S K I K K G K G E L V R T P D
UniRef90_R6GRH7 E Y A V N A D V I I M A A A P S D Y K P V Y F S D N K I K K E L H V D F V K N P D
UniRef90_R5PDZ2 K V F P N T D A A I L A A A V A D F K P E Q Q C D R K I K H M T L H L K T T D
UniRef90_UPI00021918E6 A R Y Q T A Q M V I M A A A V A D F R P V T V A D N K I K K T T A D Y T K N P D
UniRef90_V5PN48 A D V S H N D I F I A V A A V A D W R V R D V A Q D K I K K T G E E F V Q N P D
UniRef90_N8ZKZ4 Q M L D K C D I F I A T A A V A D Y R V A E V A E H K I K K A G D E L I K N P D
UniRef90_UPI000262D05E S A L D Q V D L F I G A A A V C D M R P A S V S K Q L K K S Q D E L T L T E N D
UniRef90_G5GQB6 A E Y D A V D A V I K A A A V A D Y R P A S E T A E H K I K K S Q D G E L T R N P D
UniRef90_A0A015NL81 D R F D E S D I V I K A A A V A D Y R P I V R H D A K L K K T G D R L V I E L E
UniRef90_A0A024KCP1 A S L P A D G A I F V A A V A D W R A A A I A E H K I K K S T L H F V R N P D
UniRef90_M3VB20 A R A V D A D V V I M A A A V A D F R P I S V A A G S K I K K G A D G P A P N P D
UniRef90_C5BLG6 A A A E S A D V V I G A A A V A D Y R P Q V A A Q D K L K K H A G E P M Q N P D
UniRef90_M1KKK2 S V F D S C D M V I K T A A V A D F T P A A V A S H K M K K R D I A E F N R T A D
UniRef90_A5P8P5 N A L P A D A A F M V A A V A D W F S R H V A A E K M K K K G S A P E N P D
UniRef90_F7SQW7 T L A P H A A L F I G C A A V A D Y R A A S A A E H K I K K T D D S D T K N P D
UniRef90_A3ING7 S H L V E S D I I S M S A A V A D V K P A N Y A D N K I K K K E L P T E S V T D
UniRef90_J5KB50 K A M E S D L F I S C A A V A D Y K P L N S H D N K I K K N K D E M T K N P D
UniRef90_Q9RWT6 E A A G D A D M V V M T A A I A D Y R A A A P K S E K E A K T P I H L T P N P D

	130	140	150	160
UniRef90_D5EF74	I A A E V G A R K K S P D Q Q I L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0004217D9C	I L A H I G Q K K S A P E Q Q L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0003793104	I L A R V L G D R R K A P A P Q Y F T L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_W0EMC1	I L A E L G T H R K R A G O Q Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_E5V1H9	I L K Y I G E H K K E N Q Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0002556B25	I L L A T L A T R K E D R K P Q F S L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A0A033V5M6	I L K Y L G E H R K D K Q Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_W2V6N2	I L L A T V V A S G Q A S Y L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_W4F010	I L L T L G E R K K D Q R L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q2WAW9	I L L M T V S R K A E A P P R L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0004769D81	I L L A D V A R R V D A R R P P L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A4BU24	I L V Q A V A A L D Q Q G R P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_B0K294	D I M Y E V I G Q K K G N K F L S I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0003B5FDB6	I L R W L S N D A S R R P R L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI00036D5255	I L A T V A S R A S N R A P R Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_D2PV85	I L L A T V A H R R Q R A G Q Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Y5PIG4	I L K Y L G E H K T H R Q Y L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_M9RC39	I L L A T V S A S K T R P T L L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_E6TTP3	I L L K T L G E S Q R T N Q I L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_K2MPI7	I L L A G V L G H H G K R P A L L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q2SN68	I L L A D V A A A P N A P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_CON8P9	I L S S V T S S Q P D L T L F V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_V1CJA7	R N K D V A H K V K G D R I L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_L2F5H4	I L A T I S R E N P Q I R F S V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_K9TC67	I I A Q L G E C K P H Q R L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI000347650B	I L A S L S A L P E H P F L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_W5YE60	I L L A T L G R S K P T R K Q L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_C7RHM7	D I V K Y F A S G K N R Q K I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_B0T7C6	I L A T L S A S G P R R P L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_H1HA86	I L A S L G A S K K E Q F L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0002D80E47	L V K N A V S A R A D R P F V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_E2ZD42	I L F S L G Q R K G N R L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_S9Q7J6	V L A E A S R R R E R R P A L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_T0HWR8	I L A S V A T G P R R P P L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_K1LXE5	D I V A I M S A K K T S Q C V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q7VN50	I L A S V A Q L A E R R P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI00047E2E2E	I L A T I A K G D A R P K L C I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_M2P752	I L A Y L G T H K K A H Q I I C	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI000478FF1A	V L V E L V A E R A P G R L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_M2U7D0	I L A E L S R H A E P A L L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_V6S7R9	K T K D I L A S I K K H Q F L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_N1MQ34	I L A T L G R H A Q R N A L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_I3ZX79	I L K S L G E T K K E N Q F L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q5QZB5	L V Q N Q V A S S E K P P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_D1VSE8	D I A K Y Y G S K K K Q P T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q15ZW1	I L S D V A H L A Q S P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0003802F30	D I V A D V A K L V K K P F M V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI000364B8B1	I L A S V S K L K K N R P V V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_E8SG08	I L K Y L G E H K T T Q K L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A0A011M8P1	I L L A D V A A L P A P P L C	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_K2FT21	D I V A A V S A H A K R P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A8U9S4	I L A T L G S Q K K E Q F L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_J1KXU6	K T K D I L A S I K K N Q F L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_R7BQW5	I L S T L A H A K V D Q T V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_B0UR63	I L A T I A R R Q G R P P L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_E6YNW2	I L A T I G H A T N R P P L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_H8W7B5	T L A T I A A R A D A P F T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI000409E7E9	I L K T L G M K K T H Q V V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A6VSX8	I I A T L A Q Q K R A K T I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_G7LYE2	I L Q E L G N K K E K Q T L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_D9QJ17	I L L A G L A T P G P M R P L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_J8TNZ7	I L L A T L G A R K Q K Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_D3QDI1	I L L K Y L G E H K A H Q Y I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A0A010ZVW0	I L L A G L V R R R R E G P V I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_N9Y0T0	I L L E L G K L K K N Q I L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI000237C88F	I A A E L G K T K K A G Q V T V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_G8M301	I A K E L G K V K G N R I L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A0JX67	E L V E V R A A N K P G Q L I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_I7LB85	I L K T L A H A K R A D Q L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_M4ZIN8	I L A T I S K L G E K R P L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q2JMS1	L L A A L A R H K R P G Q R L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI0003F6F931	I L T E L V E R R R S G Q L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_I7LQX0	I L S E I G H S K P S N Q F V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_I1YS17	I A A A L G Q Q K T S R Q R I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_E8T2A7	I L R E V A S L K R E G Q V V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_R6GRH7	I A A T I G K V K G R K L V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_R5PDZ2	I A A S L G K L K I E R Q Q C L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI00021918E6	I L A E L G Q Q K Q Q Q F L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_V5PN48	I L A V A Q L P N A P Y C V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_N8ZKZ4	I V A T I A Q Q E K R P F M V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_UPI000262D05E	I I H S V A T C P D R P G L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_G5GQB6	L I Y E L G Q R D R H Q L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A0A015NL81	K T A D I A G R R K S G Q F L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A0A024KCP1	I L A T I G H H A Q R P R L V I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_M3VB20	I L A G L V R A R N D G T L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_C5BLG6	I I A D V A A L P G L R F V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_M1KKK2	I L K E L G E R K T H Q L L V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A5P8P5	I L A V A A E G R K R P H L L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_F7SQW7	I I A D V S A L P G N R P F V V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_A3ING7	I L A N L S T L K K N H Q T L I	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_J5KB50	I L S S I G K K H P D K F I V	G F A A E S S H L V E H A K E K M L R K N L D L		
UniRef90_Q9RWT6	I L A G L G A E Q H P G R V L V	G F A A E S S H L V E H A K E K M L R K N L D L		

UniRef90_D5EF74 I V A N D I T A T 170 A V D T N R K I T I I K K A G D W H E L V G T K E E V A
UniRef90_UPI0004217D9C I V L N S D L Q D E G A G F K G D D C N K I T I I D Q Q A Y N T A Q A F P L K P K K A R E V A
UniRef90_UPI0003793104 I I A N D V L A R S D P G L G G F G A D D D N K A V L V L Y H G R E N D A P S E E L T S K K T E D V A
UniRef90_W0EMC1 I V L N S L R D A G A G F R C D D N K V T V I G R E N G K V E I P C K L S K K T E L V A
UniRef90_E5V1H9 I V A N D I L S K Q G I G F G S D D N E A V T I I T K R N G Q K K V E K T T T K E N I A
UniRef90_UPI0002556B25 I V A N D V S A N E P S I I G F R S S E D N E A I T L I D F A N G Q Q S S F A K T S K K Q K V A
UniRef90_A0A033V5M6 I V A N H V A N E A I L G F R S S E D N E A I D M Y F F A N G Q K V P I A K T S K K Q K V A
UniRef90_W2V6N2 V I A N Q V G N G L A F D K D Y N Q V T T I T K D D G Q C E L P F S H K T R L A
UniRef90_W4F010 I V A N D V T S E Q D G G A F G T D D N T V H I I D G G T F E K T S W P A M S K K D D V A
UniRef90_Q2WAW9 I V A N D V S E G S G G T F G G D D A N T V H I I D G G T F E K T S W P A M S K K D D V A
UniRef90_UPI0004769D81 V A A N R V D G G R G F G H G D N S L L C L W P D G G E R E L P R Q A T K A K D R L A
UniRef90_A4BU24 I A A N D V G R K G L G F D S T S N A L E V E W E D R D N V K E Y P L M T K I E A S
UniRef90_B0K294 I V A N D V T Q K G A G F E V D T N I K I I D R D N V K E Y P L M T K I E A S
UniRef90_UPI0003B5FDB6 I V A N D V S P A T G T M G G G T E N A V T L I T S E A G P E E W P R M D K D K V A
UniRef90_UPI00036D5255 I I A N D V S S E A G K V F G G D A N E A H L V S D R S D G V E S W P R M S K K D A L V A
UniRef90_D2PV85 L V V N D V S G A G G V F G G D A N E A V V L D R D R G N A P V P S P S G S K D A L V A
UniRef90_Y5PIG4 I S N N V G D Q T I G F Q S D D N E L T M H F K D G Q R I K K G K K V Q L A
UniRef90_M9RC39 I V A N D V S P S T G T M G G S E N D V L L I T A D G G S E D W P M G K K Q E A A
UniRef90_E6TTP3 I A A N D V S P G T G F G G S D T N E L L L Y K R D D G Q T V I P M T T K K E A A
UniRef90_K2MPI7 I V A N D V S H D S G V G P G G R N R V I V G R D G H E A W P E M S K K D E V A
UniRef90_Q2SN68 I A N D V S R K G L G F A N S D D N A V S L I S R D G E V I P I A K Q S K Q A L A
UniRef90_CON8P9 I A A N Q V S G E G Q G F A N S D D N A L Q V F W T G G E Q L L P L A P K S K L A
UniRef90_V1CJA7 I V L N D L T K Q G A G F G V E T N I V K I I D R S G S E Q E Y P K L S K T E V G
UniRef90_L2F5H4 I A C N D V S R T D I G F G S D D N A L T V F F K G S N T K L E K T S K K D K L A
UniRef90_K9TC67 I V A N P I D R P N A G F G S D S N Q A V V I D A T G R Q Q I A P C S K K L A
UniRef90_UPI000347650B I A A N Q V G E G L G F E T A D N A L T L Y W N A G G S R E L P R A G K A K E L A
UniRef90_W5YE60 I V A N D V S P G T G T M G G G T E N E L T L I D A A G S E H W P R L D K A D E L A
UniRef90_C7RHM7 I I A N D V T K W G A G F N V D T N I A S I I C A D N I E E L G I M P K K E L A
UniRef90_B0T7C6 I I A N D V T E P G V M G G D E N A V L L I S K D K T E R W T R A A K D S V A
UniRef90_H1HA86 I V L N S L K D E G A G F G K P T N K V T F I D K D N I E P K E L K S K E E V A
UniRef90_UPI0002D80E47 V A N D V S R A G L G F G A D D N A A L L L W R E G D T D L P Q P K A E L A
UniRef90_E2ZD42 L V A N D I T A E G A G F G A D T T N I G A F I Y P D G G T E E Q L M S K D E L A
UniRef90_S9Q7J6 I V A N D V T A P G A G F G V D N Q V T V L T R D D G G E H A L L S G T K H E V A
UniRef90_T0HWR8 I I A N D V S G D V M G G D V N A V H I V R A D D V I S L P E M P K H E D V A
UniRef90_K1LXE5 I I A N D I S Q A N L G F N V D E N A V L I G S N G E Q V F E R M A K S N L A
UniRef90_Q7VN50 I C A N N V A N G Q V F G Q D Q N A L H L F W R S H Q K R L P L A N K S D I A
UniRef90_UPI00047E2E2E C L N D V S G G K V F G E S E M L L F T Q S G E R L L K A D K S E I A
UniRef90_M2P752 I C N N L K V E G A G F G T D T N V I S I I T Q D K I I S Y D K K S K E D L S
UniRef90_UPI000478FF1A L V V N D V S A G Q V F G R P A D N A V V V L G A D G V T D V P H G G K D A V A
UniRef90_M2U7D0 I V A N D V S G G V M G G A D N R I H L I D E T G A E D W D L P G K D E V A
UniRef90_V6S7R9 I V L N S L N D E G A G F G K P T N K V T F I D K N F V I E P M D L K S K E E V A
UniRef90_N1MQ34 I V A N D V S G D V M G G D S N A V Q L V T A S G L E T W P A L P K G Q V A
UniRef90_I3ZX79 I V L N T L E D K G A G F Q T N T N K V S F I T A K N A I S F D L K S K K E V A
UniRef90_Q5QZB5 I V A N D V S Q V G L G F N S D S N A I T L S K D S E Q S L P T M S K H D M
UniRef90_D1VSE8 I V V N N I V R E G A G F S A D T N I A S I I D K N K I E D F N I M T K I E L A
UniRef90_Q15ZW1 I A A N D V S Q A G L G F N S E Q N A L N V Y W N N G G E N L G V A D K S Q L A
UniRef90_UPI0003802F30 A A N D V S A K S G Q G F N S D N N A L T L Y S A I D K I E L P L A N K H I A
UniRef90_UPI0003648B81 I V A N N V S L G T Q T M G G D E N T A I L I S E E I S E Q L P T M S K R A L A
UniRef90_E8SG08 I I A N N V S G D T S I G F S S D N N E V S L Y F K D G T E T L Q K G P K K K L A
UniRef90_A0A011M8P1 I V G N L I Q D E G A G F G G D D N R L I L F D D D G Q H P L A A A S K L V L A
UniRef90_K2FT21 I A T N D V S G E N V G F N S D N N A L T V I W P G G H K V L P L A A K R Q M I A
UniRef90_A8U9S4 I V A N D V S S K A H A G F N K D T N E V T I F M V D E K I E L T V K S K Q M I A
UniRef90_J1KXU6 I V L N S L Q D K G A G F K K D T N K V T F I D K N F E E P M E L K S K E S V A
UniRef90_R7BQW5 I V A N E V S P D K A G F G K D E N E I W F V T N E D V E H V D P M E K E V L A
UniRef90_B0UR63 I V A N D V S A G T G V M G G D R N E I L L I G R D G V E T W P T L A K D E V A
UniRef90_E6YNW2 I L A N D V S L H A D G M G S D T N E I F F V S K D N V I E H W P Y M S K Q K I A
UniRef90_H8W7B5 I I A N D V S V P G L G F S S D R N A V T V F W P A G S S E S I G P D S K Q A I A
UniRef90_UPI000409E7E9 L V A N H V A T P G I G F G T E N E A V T L F R A D G S T R L P R Q S K Q A L A
UniRef90_A6VSX8 I I A N D V S R A D D I G F N Q D E N Q V T I I T K D K T W S P D K A T K S E L A
UniRef90_G7LYE2 I V A N D I T A D D T G F A S E D N K V I I L S N E G K K V L D K M S K E K I A
UniRef90_D9QJ17 I V G N D V S G P V F G A D G N T V L L V T R E D G A E A W P R L T K T E V A
UniRef90_J8TNZ7 I V A N D I S Q E G A G F K G D T N E V I I Y T K D
UniRef90_D3QD11 I S N N V S G D T S I G F S S D D N E L T M H F K N H H Q I D I S G K P K I D V A
UniRef90_UPI00012VW0 L V V N D V S D T G K A F S E S T E N A A V V L A D D V G T T E V P H G G K K E V L A
UniRef90_N9Y0T0 I V A N D L T S K E T G F G S D N N K V F I I S K N G K V E L D T M S K R D V A
UniRef90_UPI000237C88F V V L N S P T N N E G E G F M G D T N R I S I I H K D H K I E F P L M S K Q A V A
UniRef90_G8M301 I I A N D V I Q E G A G F G T D T N I K I K K D G E I V F P L M S K L E A G
UniRef90_A0JX67 L V V N H V G E G L V F G Q D H N S V V I L S R S G S E P Q A A G S K D D V A
UniRef90_I7LB85 I V A N D V S Q N V F G S D E D Q V T L L A Q N K Q E K W P K M T K K Q V A
UniRef90_M4ZIN8 I V A N D V S P A T G V M G G D R N T V H L L T K D G Q V H V W P I M T K D E V A
UniRef90_Q2JMS1 I V A N P I D Q P D S G F G S S H N Q G Y W I P Q Q G S E R I P L A T K P T L A
UniRef90_UPI0003F6F931 L L V N V V G D G L A F E V P V N S G W L L G G D G E R R I P V G S K N L L A
UniRef90_I7LQX0 L I A N D V S R S D V G F N S D D N A V T I L V P D Q K E T T M L V P K I E I A
UniRef90_I1YS17 I V L N S T R N A G T T F Q T D D N Q L T L I S K G G K K E Y E K K R K H L V A
UniRef90_E8T2A7 V V A N S V T S G V F G S D S T R A F F I T A K E C R E S L P M M S K E E V A
UniRef90_R6GRH7 A V A N D V T E S G A G F D V D T N V A T I V T R S G E S L P M G T K A R L A
UniRef90_R5PDZ2 I V L N S M R N K G T C F Q S D N N Q I T I I G S D R K K Q F P I K S K I E A A
UniRef90_UPI00021918E6 I V A N D V I A S A H A G F N H D T N E V T I L Q P N V E Q R L P L A S K Q V I A
UniRef90_V5PN48 L V G N L G P A T F G K D D N E V I L F D E A G Q K R L P R A D K A S L A
UniRef90_N8ZKZ4 I A C N D V S R A D I G F A S D E N A M I V F F A D E K R E L E K A S K Q D I A
UniRef90_UPI000262D05E I T A N C A G G E I L F G Q D V T E A L L V F S G S E Q K L P G T K S E V A
UniRef90_G5GQB6 I V A N N V A E K D A G F G V A T N H V Q I F Y A D G R E D H P L M P K A E L A
UniRef90_A0A015NL81 I V A N D V T A E G A G F N G D T N V V Q L F D A D G A A Q W P M L T K R E I A
UniRef90_A0A024KCP1 I F A N D V S N D A G V F G G D R N H V H L L S S N G V E D I G A G S K A E I A
UniRef90_M3VB20 L I V A N V G D G K A F G T E D N T G W V L T A N G R E T L P F G S K T L M A
UniRef90_C5BLG6 I I A N N V A D G G V F E Q D E N E V T V F S R D G T V S F A R R G K K Q L A
UniRef90_M1KKK2 I V A N D V K A E G A G F G T D T N V V T F Y F S R D G R K E L A E M S K L D V A
UniRef90_A5P8P5 I I A N N V A E G E S V M G G D L N Q V H I V T S G G V E S L A E M P K E V A
UniRef90_F7SQW7 I V A N D V S Q Q G L G F G S D N N A A L L L W R S D Q L E A P P Q A K T Q L A
UniRef90_A3ING7 I V A N P I D Q P E A G F G S D N N Q A L F I D A N G Q Q K I N S C S K L E I A
UniRef90_J5KB50 I I A N D V S D T S I G F G S D N N E V M I I T A N K S I L A K S K L N I A
UniRef90_Q9RWT6 I L L N Y P T R E G T A F G G D D N Q V T L V R A D G T H D W P R I S K R E V A

UniRef90_D5EF74 WGV L N T V S E M C K E E N R
UniRef90_UPI0004217D9C K D I C Q K I T D L I
UniRef90_UPI0003793104 T A I F D Y L L T R Y H
UniRef90_W0EMC1 V D I V D L L A R C M N E
UniRef90_E5V1H9 K E L L D T I I
UniRef90_UPI0002556B25 R Q L V D F I A E R M N
UniRef90_A0A033V5M6 I K I L N E I T S R W E D
UniRef90_W2V6N2 G Q I V A T L A A N L Q
UniRef90_W4F010 L E L F K T I L A R
UniRef90_Q2WAW9 R N L A E R I T K A L G K
UniRef90_UPI0004769D81 R E L T T L I A E R L Q
UniRef90_A4BU24 R H L I E L I S E R Y H A Q S
UniRef90_B0K294 H V I L D E I A K L L
UniRef90_UPI0003B5FDB6 A R L A A R I A E A L E
UniRef90_UPI00036D5255 A Q L T A R L A D L L D
UniRef90_D2PV85 G V I W N L V A S R W H
UniRef90_Y5PIG4 Q Q I L D E L E T R W Q
UniRef90_M9RC39 Q R L A L K I A E A L
UniRef90_E6TTP3 K K L L D N T L E I Y M E K Q K
UniRef90_K2MPI7 S R L A A L I A E T L E K K
UniRef90_Q2SN68 G Q L M S Q I V R Q Y Q K
UniRef90_C0N8P9 R D L M T L I I E R F Y A K N
UniRef90_V1CJA7 D T I L D K V L A M A E K R
UniRef90_L2F5H4 E Q L A D L I G K Q L A K K
UniRef90_K9TC67 H H L F D F I Q S L
UniRef90_UPI000347650B R E L V A C V A E R F Q
UniRef90_W5YE60 H R L V A R I A T F L Q
UniRef90_C7RHM7 N K I L D L L
UniRef90_B0T7C6 R D L A Q R I A E S L S
UniRef90_H1HA86 Q D I T Y K L T K H Y E
UniRef90_UPI0002D80E47 E A V I R R A L E R L A S
UniRef90_E2ZD42 E R I I D R V I D I Y N K K N
UniRef90_S9Q7J6 R A L L E L V
UniRef90_T0HWR8 R A L V E R F A D A L
UniRef90_K1LXE5 F E L W Q A I L T
UniRef90_Q7VN50 V S L V E E I V N L F K
UniRef90_UPI00047E2E2E Q Q I L E A I V T L F
UniRef90_M2P752 Y D I L
UniRef90_UPI000478FF1A A G I W A A I S T R L
UniRef90_M2U7D0 R R L A T R I A D H F T K
UniRef90_V6S7R9 Q D I V N K I V K Q Y
UniRef90_N1MQ34 D K L I A K V A D A L S A H
UniRef90_I3ZX79 K D I L N Y I A Q
UniRef90_Q5QZB5
UniRef90_D1VSE8 D K I L N R I S K L F S
UniRef90_Q15ZW1 I S L L T L V A Q R H A L K
UniRef90_UPI0003802F30 K Q L V N L I N Q H Y L A K D
UniRef90_UPI000364B8B1 E T L V E K I S Q S F E E
UniRef90_E8SG08 F Q I L S L E S R W D
UniRef90_A0A011M8P1 R Q L V A H I A G L L A K R
UniRef90_K2FT21 K Q L I E L I A I R H K
UniRef90_A8U9S4 E E I L A V A L T K M K K
UniRef90_J1KXU6 A D I L N K V I Q H F S K S S
UniRef90_R7BQW5 H R V L D K T L E L F
UniRef90_B0UR63 R R L V A H L A E L
UniRef90_E6YNW2 E K L A S V I V S F F S S
UniRef90_H8W7B5 A R L V A L I A D H
UniRef90_UPI000409E7E9 H E L L
UniRef90_A6VSX8 N Q L V E F I Q Q H I K S S S
UniRef90_G7LYE2 S N L F D L I L E K
UniRef90_D9QJ17 S R L A D R I A D H F A E
UniRef90_J8TNZ7
UniRef90_D3QDI1 Q R I L D E L E T R W H
UniRef90_A0A010ZVW0 D T I W D L V A P R L
UniRef90_N9Y0T0 R S I F D N I L E
UniRef90_UPI000237C88F V D I V S A L E K I L
UniRef90_G8M301 D R I L D E V I K L I G K
UniRef90_A0JX67 A T V I D R I S S E L S
UniRef90_I7LB85 E K L L N L I R K R F
UniRef90_M4ZIN8 T A L V A E I A K K L N K
UniRef90_Q2JMS1 H R L L D L A R Q L E
UniRef90_UPI0003F6F931 S T L W D A V A R A T A G R D R
UniRef90_I7LQX0 R L I M N R I G Q T F
UniRef90_I1YS17 R D I T D E L V S I L
UniRef90_E8T2A7 L K I V E L T A K L L S
UniRef90_R6GRH7 D V I L D K I
UniRef90_R5PDZ2 G D I V D E M V E V I S H K S
UniRef90_UPI00021918E6 Q Q I L Q T A L A T R Q D K
UniRef90_V5PN48 R S L I V E I A A R L P S R
UniRef90_N8ZKZ4 Q Q L V E A I S D A I N Q E Q Q
UniRef90_UPI000262D05E Q E I F A T L S P L L A K R
UniRef90_G5GQB6 G V I L D R L E D V L K S
UniRef90_A0A015NL81 L R L M R L V A E R
UniRef90_A0A024KCP1 E Q I V S R I S T F F
UniRef90_M3VB20 S R I L D E V A A
UniRef90_C5BLG6 R G L I Q W I A A A L A E K
UniRef90_M1KKK2 F E M L K E M T A L K A E D R
UniRef90_A5P8P5 R E L V R R A A E A L A E
UniRef90_F7SQW7 A L I I R H
UniRef90_A3ING7 H R L L D E F V
UniRef90_J5KB50 R N I I D L I T K E I K D
UniRef90_Q9RWT6 R R L L D E A R Q I R E R

UniRef90_Q03RS1
UniRef90_C7HU45
UniRef90_D3CXL0
UniRef90_UPI000403ACFF
UniRef90_H1S287
UniRef90_M5E176
UniRef90_R6XBG4
UniRef90_I0HEJ0
UniRef90_A9DVL3
UniRef90_K5BJY0
UniRef90_K2E461
UniRef90_C5CGE7
UniRef90_UPI00037C00D8
UniRef90_B6JQC4
UniRef90_A4E187
UniRef90_A3JNE4
UniRef90_K9RU39
UniRef90_UPI00035FAFA2
UniRef90_X5XQD9
UniRef90_A3XRN4
UniRef90_A0A017HJM6
UniRef90_J2L678
UniRef90_UPI000401BAD7
UniRef90_U5QDR2
UniRef90_W8H815
UniRef90_E0QGZ2
UniRef90_V4Y332
UniRef90_D0D0J2
UniRef90_C8NP33
UniRef90_I6W4W8
UniRef90_UPI0003959A25
UniRef90_J2KKS9
UniRef90_H5TW51
UniRef90_I7IL88
UniRef90_B8DMN8
UniRef90_UPI000313BBA0
UniRef90_F2IAA7
UniRef90_UPI00036BFF0D
UniRef90_U7ULJ6
UniRef90_H0US44
UniRef90_J5Y489
UniRef90_C8NG04
UniRef90_UPI0003602565
UniRef90_A5G5N1
UniRef90_D5H352
UniRef90_W8RNNW3
UniRef90_UPI00040E2EC5
UniRef90_UPI000479207A
UniRef90_UPI0003066A45
UniRef90_A1SJF8
UniRef90_J9DVE0
UniRef90_UPI00037B158E
UniRef90_UPI0003B43768
UniRef90_W7DN68
UniRef90_LOEET5
UniRef90_D1BH12
UniRef90_Q3AQ58
UniRef90_UPI0004641D23
UniRef90_C5CSV2
UniRef90_A0A023X3I9
UniRef90_F7XVD8
UniRef90_W2BSF0
UniRef90_UPI00036FBF9
UniRef90_V2QB14
UniRef90_UPI00038241CA
UniRef90_E0NQ77
UniRef90_G4QC31
UniRef90_UPI0003706DD9
UniRef90_C7R4B5
UniRef90_I9MED9
UniRef90_UPI00047DD39E
UniRef90_L0DUS0
UniRef90_Q3B1M8
UniRef90_S7U4S1
UniRef90_Q025H9
UniRef90_R4LR37
UniRef90_E6VSY7
UniRef90_UPI0003F67EBE
UniRef90_J0QYI2
UniRef90_UPI0004775260
UniRef90_A0A059FPE2
UniRef90_UPI0004693446
UniRef90_A3YCV3
UniRef90_F3WW13
UniRef90_E1VWB9
UniRef90_UPI00035F737D
UniRef90_S9SE76
UniRef90_D8MF91
UniRef90_F4KNT4
UniRef90_UPI000476EA03
UniRef90_Q11QQ8
UniRef90_R4VDC2

1 10 20 30 40
Q T L A G K R V I V T A G G T R E E R L D P V R F F L T N D S S G K M G Y A V 40
K D L L K G K R V I V S A G G T T R E E Y A L I D D P V R R F F L T N N K S S S G K M G Y A N A A
D L L A G R R V V L I S A G G G T T R E E Y A L I D D P V R R F F L T G N A S S S G R Q Q G Y A L A R
R D L L A G R R H V V V I S A G G G T T R E E Y A L I D D P V R R F F L T G N A S S S G R Q Q G Y A L A R
K P L L A G R R V V V I S A G G G T T F E E A S L I D D P V R R F F L T I T N R S S S S G K M G Y A L A R
K D L L N K K K I T T A G G P T T R E E K L I D D P V R R F F L T T G N Y H S S S S G K M G Y A L A R
D L L A G R R H V V V T A G G G T T R E E P L I D D P V R R Y L I G N R S S S S G K M G Y A L A R
G P L L K G K K I L V T T A G G P T T H E E P I D D P V R R Y F I A N R R S S S S G A K Q Q G Y A V A R
H D L L A G V K A V V T T A G G G T T H E E P I D D P V R R Y F I A N R R S S S S G A K Q Q G Y A V A R
L L A G K K I V V T T A G G G T T K R E N I D D P V R R Y V I G N Y S S S S G K M G Y A I A D R A
K P L S G K K A V V T T A G G P T T R E E Y I D D P T V R R Y F T T N R S S S S G K M G Y A I A A
U P I 0 0 0 3 7 C 0 0 D 8 M K V L I T A G G P T T R E E P I D D P V R R Y I A N R S S S S G K M G Y A I A V
T Q I L K G R R V L I T A G G P T T H E E P I D D P V R R Y I A N R S S S S G K M G Y A I A V
G P L L K G K R H V L V T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G T A Q Q G T A I A K
K A L L K G K R V L V T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G T A Q Q G T A I A K
R D L L R G K K I L I T T S G G G T T R E E H L I D D A V R F L I G N P A S S S S G K M G Y A I A Q
G P L L R G R R H V L V T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G A K Q Q G T A L A A
K P L L A G R R I V I T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G A K Q Q G H A L A A
L L K G K K I V L T T A G G P T T Y E A P I D D P V R R F I G N H S S S S G K M G Y A I A E
R T L L G G K H L V T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G A K Q Q G T A I G A R
L L A G R R V L L T T A G P T T F E E P I D D P V R R G I T N S S S S G K M G Y A L A R
K E F S G K K V L V T T L G P T T Q E E A L D D P V R R F I S N H S S S S G K M G Y A L A K
R D L L A G K T V L V T T G G G G T T R E E F L D D P V R R F L I G N R S S S S G R K M G Y A L A T
R D L L E G R R V L V S A G G G T T R E E P I D D P V R R F L I G N R S S S S G R K M G Y A L A R
E L L K G K K I V I T A G G A T T I E D I D D P V R R Y T T N K S S S S G K M G Y A I A K
L L A G K R V V V C I T A G G P T T H E E P I D D P V R R Y G M T N R S S S S G K M G Y A I A Q
G P L L R G R R V V V T T S G G P T T H E E P I D D P V R R Y I L I G N R S S S S G A Q Q G T A I A S
Q D L L A G K R V L I T A G G G T T Q E E H I D D P V R R Y I L I G N R S S S S G R T Q Q G Y A L G E
M E G L R V L I T A G G P T T H E E P I D D P V R R Y I L I G N R S S S S G K T Q G Y E I A K
K A L L A G K K I V L T T A G G P T T F E E A L I D D P V R R G I T N S S S S G K M G Y A I A R
K T L D G K T V L I T A G G P T T Y E A L I D D P V R R F I G N H S S S S G K M G Y A L A E
D L L A G A R L V I S A G G G T T R E E L L D D P V R R Y L L S N R S S S S G K Q Q G Y A L A R
F E G M N A L I T A G P T T R E E P I D D P V R R Y L L S N R S S S S G K Q G Y A L A E
Q D M Q G R R V L V T L G P T T R E E Q W D D G V R Y W T N P S S S S G T M G A A V A V A
L L K G K K I V L T A G G P T T Y E A L I D D P V R R F I G N H S S S S G K M G Y A L A R
K R F V L G K K V L V T A G G P T T Y E A L I D D P V R R F I G N H S S S S G K M G Y A L A E
L S G K R V L V T A G G P T T H E E P I D D P V R R F I A N R S S S S G R K M G Y A L A E
L R G K K V L V T A G G G T T R E E F I D D P V R R F I G N R S S S S G R K M G Y A L A K
R S F S G R S F L I T A G P T T R E E P I D D P V R R F I G N S N P S S S S G R K M G Y A L A R
F S G R S F I T A G G P T T Y E M I D D P V R R F V I G N F S S S S G K M G Y A L A S
L E G K T I L I T A G G P T T K E E A L I D D P V R R Y G V I T N D S S S S G K M G Y A L A R
L Q G Q R V L I T A G G P T T F E E A L I D D P V R R Y I S N H S S S S G K M G Y A I A V
K D L V G E N I L I T A G G P T T R E E A L I D D P V R R Y I S N H S S S S G K M G Y A I A V
L R Q G K N I V I T A G G G T T E E A L I D D P V R R Y I G N R S S S S G K M G Y A I A T
G P L L A G K R H V L V T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G A Q Q G T A I A A
G P L L A G K R V L V T T S G G P T T H E E P I D D P V R R Y I A N R S S S S G A Q Q G T A I A R
L V G R H V L V T A G G P T T Y E A L I D D P V R R F L I T G N S S S S G K M G Y A I A R
L A G R R V L V T A G G G T T R E E A L I D D P V R R F L I G N R S S S S G K Q Q G V A L A R
D L L A G R Q V L V T A G G G T T R E E Y L I D D P V R R F L I G N R S S S S G L Q Q G Y A L A R
G S L L K G L K A L V T A G G P T T H E E P I D D P V R R Y I L I G N R S S S S G K Q Q G Y A L A R
L A G K H V L M T A G P T T A E P I D D P V R R V L A N R S S S S G K T G Y A L A R
V G D L A G K R V V I S A G G G T T R E E P L I D D P V R R F L I G N R S S S S G K Q Q G V A L A T
U P I 0 0 0 3 B 4 3 7 6 8 S A G G T T R E E P I D D P V R R F L I G N R S S S S G R K M G Y A L A E
U P I 0 0 0 3 7 B 1 5 8 E L S G K T A L V T A G G P T T Y E E P I D D P V R R Y I T N D S S S S G R K M G Y A I A E
U P I 0 0 0 3 B 4 3 7 6 8 T K P L S G K T A L V T A G G G T T R E E P I D D P V R R Y I T N D S S S S G R K M G Y A I A E
L O E E T 5 R D L E G L R V L V T A G G G T T R E E P I D D P V R R F L I G N R S S S S G K M G Y A I A A
D 1 B H 1 2 L L G K S V V I T A G G P T T R E K I D D G V R R F L I G N R S S S S G K M G Y A L A A
Q 3 A Q 5 8 L L Q G L R V V V T A G G P T T Y E E D L D D G V R R Y L S G N R S S S S G K M G Y A L A A
U P I 0 0 0 4 6 4 1 D 2 3 L L A G Q K V L V T A G G P T T F E E P L I D D P I R G I T N H S S S S G K M G Y A I A R
C 5 C S V 2 L L A G R R V L V T A G G G T T H E E P I D D P V R R F I G N R S S S S G R M G Y A I A R
A 0 A 0 2 3 X 3 I 9 L L A G R R V L V T A G G G T T H E E P I D D P V R R F I G N R S S S S G R M G Y A I A V
F 7 X V D 8 L L K G K K A I V T A G G P T T H E K I D D P V R R F I G N R S S S S G K M G Y A I A K
W 2 B S F 0 Q D L V G K R I L V S A G G G T T Q E E P L I D D P V R R Y I G N R S S S S G K M G Y A I A K
U P I 0 0 0 3 6 F B F 9 G P L A G V R T M V T A G G P T T R E E P I D D P V R R Y L I T N R S S S S G K M G Y A L A A
V 2 Q B 1 4 L S G L T I L I T A G G P T T R E E Y F L D P V R R Y L I T N E N R S S S S G K M G Y A L A A
U P I 0 0 0 3 8 2 4 1 C A R D L E G K R I V V S A G G G T T R E E A V D P V R R F L I G N R S S S S G K Q Q G Y A I A R
E 0 N Q 7 7 G K L L Y G R E I V I T A G G P T T Y E K I D D P V R R Y I G N R S S S S G K M G Y A I A E
G 4 Q C 3 1 L L D G M K I L I T T S A G G P T T H E E I D D P V R R Y I G N R S S S S G K Q T G Y E L A K
U P I 0 0 0 3 7 0 6 D D 9 L L Q G K K I I V T A G G G T T R E E A I D D P V R R F I S N R S S S S G K M G H A L A E
C 7 R 4 B 5 Q D L T G R T V L V T A G G G T T R E E A I D D P V R R Y I L I G N R S S S S G R Q Q G V A L A A
I 9 M E D 9 N D F R G K K I V I T A G G G T T K E A I D D P V R R Y I L I G N R S S S S G K M G Y A I A S
U P I 0 0 0 4 7 D D 3 9 E K D L K K Y K I L V T A G G H T V E A I I D D P V R R Y I S N R S S S S T G K M G Y Q I A L
L 0 D U S 0 G P L S G K Q V L V T A G G P T T H E E A I D D P V R R F I L I G N R S S S S G R M G Y A I A A
Q 3 B 1 M 8 L L S G K H V V I T A G P T T R E K I L D D G V R R F L I G N R S S S S G R M G Y A I A R
S 7 U 4 S 1 Q D L A G R R V L V T L G P T T R E E M W D D G V R R F W S N P S S S S G A M G Y A L A A
Q 0 2 5 H 9 R D L L E G E T V L I T A G G P T T Q E E P L L D P V R R Y L I G N R S S S S G K M G Y A L A E
R 4 L R 3 7 D L L T G R R V V V T A G G G T T R E E P L L D P V R R F L I G N R S S S S G K Q Q G Y A L A R
E 6 V S Y 7 Q D L L A G K Q V L V T L G P T T R E E P W D D G V R R F W S N P S S S S G A M G A C M A M
U P I 0 0 0 3 F 6 7 E B E L L L G K K V L I S A G G P T T R E K I D D P V R R F F A N R S S S S T G K M G Y K I A T
J 0 Q Y I 2 L L S N H H F V I T S S G P T T H E P I D D P I R Y F A N R S S S S G K Q Q G H A I A T
U P I 0 0 0 4 7 7 5 2 6 0 V Q L L A G K K I L M T A G P T T Y E A P I D D A V R G I T N R S S S S G K M G Y A I A Q
A 0 A 0 5 9 F P E 2 G P L L A G V S A L I T A G P T T R E E A L I D D P V R R Y L S G N H S S S S G R Q Q G Y A I A S
U P I 0 0 0 4 6 9 3 4 4 6 G P L L R G K S L I L I T A G G P T T Y E A A I D D P V R R F I L I G N H S S S S G K M G Y A I A N
A 3 Y C V 3 Q P L L G Q H W L I T A G P T T M E A I I D D P V R R F I S N H S S S S G K M G Y A L A D
F 3 W W 1 3 G P L L A G R H V L V T A G G P T T H E E P I D D P V R R Y I A N R S S S S G R Q Q G F A V A G
E 1 V W B 9 L L A G T K V L I T A G G G T T R E E P L I D D P V R R F L I G N R S S S S G R Q Q G V A L A Q
U P I 0 0 0 3 5 F 7 3 7 D Q D L L A G R R V L V T L G P T T R E E M W D D G V R R F W S N P S S S S G K M G Y A L A S
S 9 S E 7 6 R P L L A G R H V L V T S S G P T T R E E P I D D P V R R Y I A N R S S S S G A Q Q G T A I G A R
D 8 M F 9 1 L L I G K K I V I T A G G G T T H E E A L I D D P V R R Y L I T N R S S S S G K M G Y A I A R
F 4 K N T 4 R P L L A G E C V T I T A G P T T Y E E P I D D P V R R F I G N H S S S S G L M G Y A I A E
U P I 0 0 0 4 7 6 E A 0 3 R P L L A G R H I L V T S S G P T T H E E P I D D P V R R Y I A N R S S S S G R Q Q G H A I A A
Q 1 1 Q Q 8 L L H K K I L I T A G G P T T Y E A L I D D P V R R F I A N R S S S S G R K M G Y A L A V
R 4 V D C 2 L L S D K R V L I T A G P T T R E E P I D D P V R R F L A N R S S S S G R M G Y A I A E

UniRef90_Q03RS1 A A Q Q K A G A K V T L V I T A P T G L S A 60 P S G V L D L V N I 70 T T E L A T A V 80
UniRef90_C7HU45 E A F K R G A G A K V T L V I T A P T G L S A 60 P S G V L D L V N I 70 T T E L A T A V 80
UniRef90_D3CXL0 A A V A R G A R G A R V T T V V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_UPI000403ACFF T A V A R G A R G A R V T T V V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_H1S287 A A R E A G A G A R V V L V V A S G P T S G L E T P P R G V A D R T D I V V E E T A A E E Q M R R K A V V M
UniRef90_M5E176 A A S Y R R G A G A R V K L I I A A G G P S E T L E K T S D M L K R I D R I V E E T A A E E Q M R R K A V V M
UniRef90_R6XBG4 E C A R R R G A G A R V T T L V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_I0HEJ0 A A V A R G A R G A R V T T L V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_A9DVL3 A L A A M G A G A R V T T L V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_K5BJY0 V M A Q R G A G A R V T T L V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_K2E461 A A H Q F G A G A R V R L L V V S T I K V E L P P Y G G V K V I N V V I S A A E E M Y Q A V A V
UniRef90_C5CGE7 A L R Y M G A G A R V L V L I S S G P T S N L E T P P Y G G V K V I N V V I S A A E E M Y Q A V A V
UniRef90_UPI00037C00D8 A A A K R G H S V L L I S S G P T S N L E T P P Y G G V K V I N V V I S A A E E M Y Q A V A V
UniRef90_B6JCQ4 A A A A G A G A D V V L V I S S G P V N L E L P P K G V V K T I R V V E S A A E E M L L A A V A V
UniRef90_A4E187 A L A A Q G A G A D V T T F V T G P P A D V L P P P M D V T T V V K V V E T A A A E E M L L A A V A V
UniRef90_A3JNE4 A L Q G A R G A R V T T L V V A A A N V A L P L S A K T V G G A G A R S R L N V V G S T N L E L K R E A I V D H
UniRef90_K9RU39 A G Q A R G A R G A R V L L V V H G P P Q A S L G L P P E G I D H M A V V E T S G L E M L A S A V E N E
UniRef90_UPI00035FAFA2 A L A T L G A R G A R V T T F V T G P P A S L L P P P E G V T V V V R V E T A A E E M L L A A V A V
UniRef90_X5XQD9 A L A R L G A D V R L I I S S G P V S I A D A P P P E G V V T T H V V E T A A E E M L L A A V A V
UniRef90_A3XRN4 A A A G L G A R S V T L I I S S G P T S H L Q K H N L I E V I R V V E T S A A Q M L L D A V A V Q Q
UniRef90_A0A017HJM6 A L A E R G A R G A R V T T F V T G P P A S L L P P P S G V E R R I D V V E T A G Q M L L A A V A V
UniRef90_J2L678 A A A R E A G A G A R V V L V V S G P P T S A L D A P P P Y G G V R R I D V V E T A A Q Q M H D A V A V
UniRef90_UPI000401BAD7 A F Q S K G A G A R V H V V V S G P P V S I L P L E K E F H L Y P I V R S A R Q E M Y E A S S
UniRef90_U5QDR2 A C A H R G A L V H L V L G G P P S E T L E K T S D M L K R I D R I V E E T A A E E Q M R R K A V V M
UniRef90_W8H815 L A V Q R G A G A R V T T L V V S G Y T S A L A D V P P A N L N S Y V C V V R S A A Q D M M Y E A V A V
UniRef90_E0QGZ2 T A A Q M G A G A R V T T L V I S S G S T H L E V P A N L N S Y V C V V R S A A Q D M M Y E A V A V
UniRef90_V4Y332 A C A N A G A G A R V C L V T A G P V A L D T P P R G V E S R V D V V R S A A Q D M M Y E A V A V
UniRef90_D0D0J2 A L R D L G A R G A R V V F V T G P P A D A A R P T P R G V E S R V D V V R S A A Q D M M Y E A V A V
UniRef90_C8NP33 V A A Q R G A R G A R V T T I I A S G N T E L P T P A G A V E L V D V V E T S T G D M F T E V V Q
UniRef90_I6W4W8 S A Y E H G A G A R V H L I I S S G P T C L L D P P Y G G V S S T Q S T A V E M H K Q A V A V
UniRef90_UPI0003959A25 A A Q A A G A G A R V T L V V A S G P V H L V T P R G V V R R I D V V E T A Q D M L L Q A V A V
UniRef90_J2KKS9 E A A K R G A K V T L I I S S G P S S Q T I H R N I D L H R I T S A K E M L L E K V F
UniRef90_H5TW51 A A A Q R G A H V T V V V A S G P T N E G T P P A G N V E V V H I Q E S D A E E M F E A V A V
UniRef90_I7IL88 S L T K R G A N V T T L V V A S G P T H L E T P P E N V I Q I Q E S D A E E M F E A V A V
UniRef90_B8DMN8 A L W L R G A R V H A V C G P P G S P W L P M G I A R H R I V T G A R Q E M F D A A D
UniRef90_UPI000313BBA0 S A A K L G A S V L L I A G P T N F T K H H S L I Q Q V I H V V V S A Q E M Y E A C H
UniRef90_F2IAA7 A V A A L G G D V V L V I T G P P T N Q K K H K Q I Q Q V I H V V V S A Q E M Y E A C H
UniRef90_UPI00036BFF0D A A A A M G A D V Q L I I A A G P V H L S T P P G V V K R T D V V E T A A R E M A A A V
UniRef90_U7ULJ6 A A M L A G A D V T T L V A A G P S A L P A P L G V H R I D V V G T T L E M Q A A C C
UniRef90_H0US44 A A W Y R G G D V T T L V C G A P G V S V D V P L G V V R F I P V V I S A E E D M L L R C C M
UniRef90_J5Y489 M A A R M G G E V T T L I I L P T A P H I E N S V V K V C P V V I S A Q Q M Y E A A Q
UniRef90_C8NG04 A A S T L G A K V Q L V V S T T K Q L K V P P Y G G V Q R V T Y V E S A L V E M F D A V V T
UniRef90_UPI0003602565 A A R E A G A R V T T L V A G P T A L A L G T P P R G V V R R I D V V E S A L V E M F D A V V T
UniRef90_A5G5N1 A A R R R G A R V T T L V T G P T C L A L E P P F G V V E T V Q V V S A L E M R Q E A V M
UniRef90_D5H352 E A A A M G A K V K L I Y G N V S M P L P P P R I E T L I H V S S T A Q E E M L V A V K
UniRef90_W8RNV3 A L R D L G A R V S F V T G P A D V L P P P A G V V E V I P V E T A S Q E M A E A V N
UniRef90_UPI00040E2EC5 A L A A L G A R V V F I T G P A D V L P P P A G V V E V I P V E T A A Q M L L E A V Q
UniRef90_UPI000479207A A A R E A G A G A R V T T L V A A R P V S L P T P R G V T R L D V V K S A E N M L R A V T
UniRef90_UPI0003066A45 A A R E A G A D V H L I I A A H V E T D L P H G M R T T R V S S A R E L E E A T L
UniRef90_A1SJF8 A A A A R G A R V T T L V A A N V S L P D P A G V V K I V R V V G S T A E L R D A V L
UniRef90_J9DVE0 A L A A L G A R T L L V S G P V N L P D P E G V R V V V E T G R Q M A A A C D
UniRef90_UPI00037B158E A A Q E A G A R V T T L I G A N L E V L A V P D G L R R I N V G T T L E L Q E A M D
UniRef90_UPI0003B43768 A A G A R G A S V T T L I G A N L E V L A V P D G L R R I N V G T T L E L Q E A M D
UniRef90_W7DN68 E L H D A G A Q V T L I S G P V S L L P P Q N I R L I S V E T A Q E M L L D A C L
UniRef90_L0EET5 A A R D L G A D V T T L I A A R V T A E L P A G V E V V S V E S A Q E D M L R A V M
UniRef90_D1BH12 E A R E R G A D V V L V A A N V T L D A P D G V T V V P V E T T A Q L S D A V D
UniRef90_Q3AQ58 A A A Q R G A R V T T L I S G S V N L A T P L G V Q R E F N V E S A V E M Y A A A E
UniRef90_UPI0004641D23 S A A R A G A R V V L V A G P V N Q L D T P P L G V V Q R V N V R S A A Q M R D A V N
UniRef90_C5CSV2 A A R E A G A G A R V T T L V A G P V H L P T P R G V V S R I D V V L S A Q D M L L E A T L
UniRef90_A0A023X3I9 E A S R M G A R V E V I S A N V A E S V E P G V A W T P V E T V K E L S R A V R
UniRef90_F7XVD8 A A Q M L G A T V T L I S A G P V S L N P P E N M E L I R V E N S A Q E M F E A A H
UniRef90_W2BSF0 A A R L R G A R T T L V S A N T S L P D P A A T T V E N V V I T T G D M N A K M Q
UniRef90_UPI00036FBF9 A L A Q L G A R V C L I S G P T A L P G P A G V T R V D V E T A A Q M H A A V F
UniRef90_V2QB14 E A H K M G A N V I L I S G E V S I V S D I L P N I H K V V V S A A Q D M Y N A F L
UniRef90_UPI00038241CA L A A Q R G A R V T T L I S G I T S L P T P A A V D V E H V Q S A A Q M K Q A V F
UniRef90_E0NQ77 E C A K R G A R V T T L I S G P V S L Q C S E A I H R I D V E S E E M Y A A T V
UniRef90_G4QC31 S A R D F G A R V K L I S G P T C L R A P Y G I E F E E V T T A K E M H T K V M
UniRef90_UPI0003706DD9 A A F F A G A R V V L V T A S P L G V H R G I Q M I H V E S A Q E M A K Y V N
UniRef90_C7R4B5 A A H R R G A T V T L I S G A H L T V P T P P G I D L I P V E T A A E Q M H T A V L
UniRef90_I9MED9 A A A A R G A T V T T L I G A P T N L P K A A C A G L K V E Y V E A A S D M R A A V L
UniRef90_UPI00047DD39E K A Y N R G A N V T L I I G P N D L D I K D P F N L I N V V S A S K D M Y E A V N
UniRef90_L0DUS0 A A R D A G A R I C L I H G P L A V P V P P G G I V K A V A V D C A A S M R T A V F
UniRef90_Q3B1M8 A A Y R R G A R T T L I A G P V Q L P T P P E G G I V C I K V E S A R E M D E A A R
UniRef90_S7U4S1 A A W L R G A R V T A V V G P C E V R M P E G V R V L Q V E S A R E M Y D A A M
UniRef90_Q025H9 A A A A R G A R V T T L V S G P V T H L A P P R G V V E V I H V R T A V E M R D Q V M
UniRef90_R4LR37 S A V A R G A Q V T L V A A N V T L A V P A G V E V V S V S T T E L R K A T V
UniRef90_E6VSY7 A A Y L R G A R V T T V V A G P T G L L F P Q A I T V I P V R T A L E M H R A C L
UniRef90_UPI0003F67EBE A A A E M G A R V T T L V S G P V N L A T P S T I K R I D V E T T A E E M Y K V T T
UniRef90_J0QYI2 Q L N Q L G A K V T L I S G P V H L E D P P K G V T T T I H V V E T A E N D M K A V Q
UniRef90_UPI0004775260 A A A E Q G A Q V L V I S G P T A L L P V P H G V V Q R V V S V E S A A Q M F A A V Q
UniRef90_A0A059FPE2 A L A A A G A S V T L V A G P V A L A Q T Y R N S I N L V Q V E T A R Q M L K A C C
UniRef90_UPI0004693446 R A A A L G A Q V F L V A G P T H C A P T Y D S I R L F P I V S A K E M Y D A C C M
UniRef90_A3YCV3 V A R S L G A K V L V S G P V A V T A A T G V E L H P V K S A L D M L D K C R
UniRef90_F3WW13 A L A R L G A R V T T L V A G P V T L P A P S G V T R I D V E T A R Q M A D A V Q
UniRef90_E1VWB9 A A R D A G A T V T L I A G H L E V P A P S H G V Q L V H A S S A L E L R E A V F
UniRef90_UPI00035F737D V A K K M G F E V T L V S G P V S I P R P D G V I Y K S V E T A L E M R E V L V
UniRef90_S9SE76 A L R D L G A R V T T F V T G P A I V P P P E G V D V I V A V E T A D Q M L A A V R
UniRef90_D8MF91 A A A E M G A D V I L I T T A R E D I F G V D K I V V E S A Q E M F D A S I
UniRef90_F4KNT4 A L A C Q G A R V H L V L G P T H L R P N P H I V V H P V M T A E E M L A A A Q
UniRef90_UPI000476EA03 S L A R L G A D V T T L V S G P V A L P D P M G V R T V H I V E T A R Q M L A A V D
UniRef90_Q11QQ8 E A W K M G A R V T T L V C G P V N E M L P A S V R Q L H K I V E T S G O M F D V V Q
UniRef90_R4VDC2 A A A R A G A Q V T L V T G P S Q L T A P R G V T R V D V E T A E Q M H R E V L

	90	100	110	120
UniRef90_Q03RS1	D R F P N A D V L V	M A A A V A D F Q	P V T V A D Q K I	K K T A D N D E M T P
UniRef90_C7HU45	K E F D D C D A L I	M S A A A V A D F	F R P A A E H Q S	K K K N S L E E L T E N I D
UniRef90_D3CXL0	E H A G D A D V V I	M A A A A V A D F	F R P A A E H Q S	K K K N S L E E L T E N I D
UniRef90_UPI000403ACFF	E A A G D A D V V I	M A A A A V A D F	F R P A A E H Q S	K K K N S L E E L T E N I D
UniRef90_H1S287	A G L P G A D V F I	A V A A V A D W R	P A E V A S S Q K	L K K A S N D H F V I Q N T P
UniRef90_M5E176	N E F E N A S Q D A I	I M A A A V A S D	F Y P Q E V S S D	R K K S D G K L E V T T D
UniRef90_R6XBG4	E C F A S A Q D A I	L C A A V A D F	D F K P S H V S S	D R K I K K R E H D N L V P T H
UniRef90_I0HEJ0	E A F A A A D V A I	M A A A P A D F	R P E T V A A Q K	I L K K T D S G T P T N P D
UniRef90_A9DVL3	Q A L P A D A G V	F A A A V A D F	H V E G A G D R	S K L K K S K D G F A E N P D
UniRef90_K5BJY0	K H A P E A H V L V	M A A A V A D F	R P A Q V H T S	K I K K S A D P D V A P P P
UniRef90_K2E461	Q E F W D S Y A L V	M V A A V A D Y	R P E T T A E S	K I L K K N S S E T V K N P D
UniRef90_C5CGE7	T E V K K A D L L V	M T A A V A D Y	T P S K T L S A	K L L K K S N K P L Q L T L K
UniRef90_UPI00037C00D8	S Q I L S R H D L A I	F T A A V A D Y	T P S K L A E H	K L L K K T E D R M A L T L K
UniRef90_B6JCQ4	A A L P T E V A I	F A A A V A D W	R V A Q A G A Q	K I K K G K D E L V I E N P D
UniRef90_A4E187	K A A G N V D A A V	F A A A V A D W	H V A N A S G D	S K I K K P K L E F A E N S P D
UniRef90_A3JNE4	D A L P A D A A I	F A A A V A D W	H V T S A S D S	K I K K D I N G I P E N S P D
UniRef90_K9RU39	Q A W G N F D W L	I M A A A V G D	V R P K T N S T	I K L P K D Q I P N P F I P D
UniRef90_UPI00035FAFA2	A A L P A D A A V	F A A A V A D W	R V A S A S A T	H K M K K P A G E F A E N P D
UniRef90_X5XQD9	Q L L P A D A A V	F V A A V A D W	R T A G T A G E	K I K K K A D P D V A N P D
UniRef90_A3XRN4	A N F D K V D I A I	A A A A V A D Y	R P A Q V A N Q	K I L K K K E A S Q M S I A L E
UniRef90_A0A017HJM6	A A L P A D A A V	M A A A V A D W	H V V S A S G Q	K I L K K D G G G P P Q N P D
UniRef90_J2L678	A N V A G D D V F I	A V A A V A D W	R V V A N V S N	Q K I L K K N A D D F E Q N A D
UniRef90_UPI000401BAD7	K L H A L M D I C	V F T A A V A D	Y A P A T V A P	E K I I K K S D P T L V K N V D
UniRef90_U5QDR2	E L F A G G A H L I	F M A A A V A D	V R P R S T K S	P D K I P K T Q L E V A V D D
UniRef90_W8H815	K H A P G D A V I	V M A A A V A D	F R P S T T V A	S K I L K K G A G E P D K N E D
UniRef90_E0QGZ2	K Y W K N S D V I	I K A A A V A D	Y T P R E K Y D	N K M K K H D G D L S I P L K
UniRef90_V4Y332	M A S Q N C D V F I	A C A A V A D W	A V A N A A S T	Q K I L K K D Q S G F V E N P D
UniRef90_D0D0J2	G A L P A D A A V	F A A A V A D W	R V A T A S D S	K I L K K K Q A G E F T E N P D
UniRef90_C8NP33	E R A G E S D T I	I M A A A V A D	F R P D T Q A D	S K L K K T T V H L V I E N D
UniRef90_I6W4W8	Q R A K D Y D I F I	S V A A V A D W	H L P Y P S E D	K I L K K N N W F F Q K N P D
UniRef90_UPI0003959A25	A S V E G A D V F I	V A T A A V A D	W R P A H A A D	Q K I L K K D G S G F V E N P D
UniRef90_J2KKS9	Q F Y D K I D L G I	A S A A V A D Y	A P K E I A K E	K I L K K N E D E L V K N P D
UniRef90_H5TW51	K R A A D A D A V I	M A A A V A D F	R A P V T V N D	T L K I L K K N Q I E L T T N P D
UniRef90_I7IL88	T H F D E Q D I V F	K A A A V A S D	Y A P A E M L E	H K I L K K K D V T F T K R T P
UniRef90_B8DMN8	A V W D A M D A G V	F T A A V A D F	S P V P L G A E	K F K K A D A R F T P N P D
UniRef90_UPI000313BBA0	Q Y F E Q D V D V A I	A A A A V A S D	Y K P K N R T	L Q K I K K K F V I E T K T K D
UniRef90_F2IAA7	K N W S Q M D M G I	F A A A V A D Y	R P A H S E T	I Q K I K K T Q D Q L E I N P D
UniRef90_UPI00036BFF0D	D A A L P A D T A I	M V A A V A D W	R T A D A A D Q	K I L K K P V L H L A E N P D
UniRef90_U7ULJ6	E Y D S V D L V I	K A A A V A D Y	R V A R P A S N	K I L K K S T V E R A L A K N P D
UniRef90_H0US44	E N R D V D V I	I K A A A V G D	Y R V A T P S S	K I L K K R E G R E R F S N P D
UniRef90_J5Y489	E A F V D T D I A I	L A A A V A D Y	K P M V Q A P Q	K I L K K K T D E L T K T Q D
UniRef90_C8NG04	Q L F P K T D I A V	M V A A V A S D	Y V A K R S A N	Q K I L K K K Q N E S G L M P D
UniRef90_UPI0003602565	S V V A A Q D V F I	A T A A V A D W	R P A T A A E H	K I L K K D G S G Q C P N P D
UniRef90_A5G5N1	D K V S G S T I I I	K A A A V A D Y	R P A S R A D L	K I L K K S A E E L E K N P D
UniRef90_D5H352	K E F K H S N V L I	M A A A V A D W	R M K Q V A D H	K I L K K Q A D Q Q V E K T T D
UniRef90_W8RNNW3	T V L P A D A A V	F A A A V A D W	R V A N A A A Q	K M K K K D G S G F A E N P D
UniRef90_UPI00040E2EC5	T A L P A D A A V	F A A A V A D W	R V T A Q S E A	K I L K K Q A G E L A E N P D
UniRef90_UPI000479207A	G R A Q G A T I E I	A T A A V A D W	R P A A P S D Q	K I L K K P Q L E F T E N P D
UniRef90_UPI0003066A45	T A A A G S D V V I	M A A A V A D F	R P D T V G E H	K M K K S E D G T D P N P D
UniRef90_A1SJF8	A G A A S A D A V V	M A A A P A D F	R P V D V S E A	K I L K K D V D G S A Q N P D
UniRef90_J9DVE0	D A L P S H I A V	M T A A V A D W	R T N T A K D K	I L K K K Q T D E L T Q N P D
UniRef90_UPI00037B158E	A E A S A S A D I F I	A V A A V A D W	Y V K N A S T Q	K I L K K K Q L E F A E N P D
UniRef90_UPI0003B43768	E A A R E A D L V I	M A A A V A D Y	R P T E V R Q G	K I L R K E E T E L V K N P D
UniRef90_W7DN68	S N I P V D I A V	M T A A V A D W	R V K I K K T G	D A Q T P T F D L I T N P D
UniRef90_L0EET5	E R F D A D V V V I	K A A A V A D Y	R P A V R R T S	K M K K K E D E L E K T P D
UniRef90_D1BH12	E H R E A S D V I V	M T A A V A D F	R P A R L G D H	K T K K R P I E L E L V V N P D
UniRef90_Q3AQ58	P F F A S A D I F I	G A A A V A D Y	R P V E V V Q G	K R K K D Q L T L V E N P D
UniRef90_UPI0004641D23	A A L P A D V Y I	G A A A V A D Y	T P R A F S P N	K I L K K T G A G E T R T P D
UniRef90_C5CSV2	H A A Q S A S I F V	A T A A V A D W	R P A T H S E Q	K I L K K D G S G K T P V L N
UniRef90_A0A023X3I9	E R A G E A D V L V	M A A A V A S D	F T P A S P V R	E K I L R R G S Q N E T M S T E D
UniRef90_F7XVD8	R K A A N C D I F I	S A A A V A D F	Y K P K S I S I	E K I L K K F S L K L E K N P D
UniRef90_W2BSF0	S L L P S N D I A I	M A A A P A D F	S V V E A S S K	I L K K D G D Q G Q Q T E D
UniRef90_UPI00036FBF9	E R I G T D L L E V	A A A A V A D Y	R P A P A E R K	I L K K K E T A E L T R N P D
UniRef90_V2QB14	S F Y N D A D L I	M A A A V A D Y	A P V Y E N I K	I L K K N D D A E L T I N L K
UniRef90_UPI00038241CA	K H S I D V D A V I	M A A A V A D F	R P A E V A V A	K I L K K G A D E P E S I P D
UniRef90_E0NQ77	E A Y K Q A D V A V	L S A A V A D F	F K P E T V A H	E K I L K R L K I Q L K P T H
UniRef90_G4QC31	Q V A S E Y D L F I	S V A A V A D W	Y L P N P A K Q	K I L K K P N W F H K N P D
UniRef90_UPI0003706DD9	H L F S E A D G L I	M A A A V S D Y	R V A K V A D H	K L K K Q E K E L Q K N P D
UniRef90_C7R4B5	A H A P S S D I V I	M A A A V A D Y	R P I H V L P T	K A K K D H I E L T A N P D
UniRef90_I9MED9	A H Y N E S D I V I	K A A A V A D Y	R P Q S T A E H	K I L K K T G D T L Q R N P D
UniRef90_UPI00047DD39E	K E F E G A D A L I	M A A A P A D F	T P A E Y S E E	K I L K K E D S D N H D I K D
UniRef90_L0DUS0	E H L E G V D L F I	F A A A V A D Y	R P R E P A S R	K L K K K M T Q T L T R N P D
UniRef90_Q3B1M8	A L Y E G T D I F I	G A A A V A D Y	R P L E A V E G	K L K K D M A V Q L Q L N P D
UniRef90_S7U4S1	V L W P D T D I G C	L T A A V A D F	R P V P V G R E	K Y K K D Q I E F E L N A D
UniRef90_Q025H9	A N L Q L A G V I	K A A A V A D F	H L S K V P D Q	K V K K T A A R I D P T P D
UniRef90_R4LR37	A A A A A A D V I	M A A A P A D F	R P A A V A G Q	K I L K K S A D E L V T N P D
UniRef90_E6VSY7	D L W P S M D I A C	A T A A V A D F	R P I P H G P	D K F K K G T V Q F E A N P D
UniRef90_UPI0003F67EBE	E E F S S H D L V I	K A A A V A D Y	R P K V T Y D N	K M K K K Q Q V E M E R T K D
UniRef90_J0QYI2	E A L P A D G A I	F V A A V A D W	R S D H Q I S	K K L K K N K H K M V E N P D
UniRef90_UPI0004775260	Q R I A D C D I F I	S V A A V A D Y	R V A M P S E Q	K I L K K T E Q E L I P N P D
UniRef90_A0A059FPE2	D A L P A D V F V I	S V A A V A D W	R P A R A A T K	K L I P A M E L L A E N P D
UniRef90_UPI0004693446	E I F P T V D V A I	A A A A V A D Y	R P K N V A T K	K I L K K N T D Q F V L E L E
UniRef90_A3YCZ3	E I A A N H D V F I	G A A A V A D F	R L K E V A S Q	K M K K Q A D S D E M Q P D
UniRef90_F3WW13	A A L P A D A A V	M V A A V A D W	R V I E A A G Q	K V K K D G G T L V E N P D
UniRef90_E1VWB9	T H A P G N D V L I	M N A A V A D F	R P A T I E N S	K I L K K R D E H S V R N P D
UniRef90_UPI00035F737D	K L F P Q S S L A I	M T A A V S D H	R P E F L G K K	K V K K D E F K F I R N P D
UniRef90_S9SE76	A A L P A D A A V	M V A A V A D W	R V A Q A S G Q	K I L K K G A N G T L A P N P D
UniRef90_D8MF91	Q A F A T A D I F I	S A A A V S D F	R P A E K A I H	K I L K K Q A N R L V I Q N P D
UniRef90_F4KNT4	E T F G R S S I A I	F A A A V A D Y	R P E E R V S G	K I L K K M Q L T L T Q N P D
UniRef90_UPI000476EA03	A A L P A D A A V	F V A A V A D W	R V T S E A G E	K I L K K R A G E G P N P D
UniRef90_Q11QQ8	A E I E K Q D V A I	F A A A V A D Y	T P E Q V S D I	K I L K K F T R L K K N P D
UniRef90_R4VDC2	A R A A Q A D L F I	A A A A V A D Y	R V A A P A D Q	K V K K Q H L E L V P N P D

UniRef90_Q03RS1
UniRef90_C7HU45
UniRef90_D3CXL0
UniRef90_VPI000403ACFF
UniRef90_H1S287
UniRef90_M5E176
UniRef90_R6XBG4
UniRef90_I0HEJ0
UniRef90_A9DVL3
UniRef90_K5BJY0
UniRef90_K2E461
UniRef90_C5CGE7
UniRef90_UPI00037C00D8
UniRef90_B6JQC4
UniRef90_A4E187
UniRef90_A3JNE4
UniRef90_K9RU39
UniRef90_UPI00035FAFA2
UniRef90_X5XQD9
UniRef90_A3XRN4
UniRef90_A0A017HJM6
UniRef90_J2L678
UniRef90_UPI000401BAD7
UniRef90_U5QDR2
UniRef90_W8H815
UniRef90_E0QGZ2
UniRef90_V4Y332
UniRef90_D0D0J2
UniRef90_C8NP33
UniRef90_I6W4W8
UniRef90_UPI0003959A25
UniRef90_J2KKS9
UniRef90_H5TW51
UniRef90_I7IL88
UniRef90_B8DMN8
UniRef90_UPI000313BBA0
UniRef90_F2IAA7
UniRef90_UPI00036BFF0D
UniRef90_U7ULJ6
UniRef90_H0US44
UniRef90_J5Y489
UniRef90_C8NG04
UniRef90_UPI0003602565
UniRef90_A5G5N1
UniRef90_D5H352
UniRef90_W8RNV3
UniRef90_UPI00040E2EC5
UniRef90_UPI000479207A
UniRef90_UPI0003066A45
UniRef90_A1SJF8
UniRef90_J9DVE0
UniRef90_UPI00037B158E
UniRef90_UPI0003B43768
UniRef90_W7DN68
UniRef90_L0EET5
UniRef90_D1BH12
UniRef90_Q3AQ58
UniRef90_UPI0004641D23
UniRef90_C5CSV2
UniRef90_A0A023X3I9
UniRef90_F7XVD8
UniRef90_W2BSF0
UniRef90_UPI00036FBF9
UniRef90_V2QB14
UniRef90_UPI00038241CA
UniRef90_E0NQ77
UniRef90_G4QC31
UniRef90_UPI0003706DD9
UniRef90_C7R4B5
UniRef90_I9MED9
UniRef90_UPI00047DD39E
UniRef90_L0DUS0
UniRef90_Q3B1M8
UniRef90_S7U4S1
UniRef90_Q025H9
UniRef90_R4LR37
UniRef90_E6VSY7
UniRef90_UPI0003F67EBE
UniRef90_J0QY12
UniRef90_UPI0004775260
UniRef90_A0A059FPE2
UniRef90_UPI0004693446
UniRef90_A3YCV3
UniRef90_F3WW13
UniRef90_E1VWB9
UniRef90_UPI00035F737D
UniRef90_S9SE76
UniRef90_D8MF91
UniRef90_F4KNT4
UniRef90_UPI000476EA03
UniRef90_Q11QQ8
UniRef90_R4VDC2

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

140

150

160

UniRef90_Q03RS1
UniRef90_C7HU45
UniRef90_D3CXL0
UniRef90_UPI000403ACFF
UniRef90_H1S287
UniRef90_M5E176
UniRef90_R6XBG4
UniRef90_I0HEJ0
UniRef90_A9DVL3
UniRef90_K5BJY0
UniRef90_K2E461
UniRef90_C5CGE7
UniRef90_UPI00037C00D8
UniRef90_B6JQC4
UniRef90_A4E187
UniRef90_A3JNE4
UniRef90_K9RU39
UniRef90_UPI00035FAFA2
UniRef90_X5XQD9
UniRef90_A3XRN4
UniRef90_A0A017HJM6
UniRef90_J2L678
UniRef90_UPI000401BAD7
UniRef90_U5QDR2
UniRef90_W8H815
UniRef90_E0QGZ2
UniRef90_V4Y332
UniRef90_D0D0J2
UniRef90_C8NP33
UniRef90_I6W4W8
UniRef90_UPI0003959A25
UniRef90_J2KKS9
UniRef90_H5TW51
UniRef90_I7IL88
UniRef90_B8DMN8
UniRef90_UPI000313BBA0
UniRef90_F2IAA7
UniRef90_UPI00036BFF0D
UniRef90_U7ULJ6
UniRef90_H0US44
UniRef90_J5Y489
UniRef90_C8NG04
UniRef90_UPI0003602565
UniRef90_A5G5N1
UniRef90_D5H352
UniRef90_W8RNV3
UniRef90_UPI00040E2EC5
UniRef90_UPI000479207A
UniRef90_UPI0003066A45
UniRef90_A1SJF8
UniRef90_J9DVE0
UniRef90_UPI00037B158E
UniRef90_UPI0003B43768
UniRef90_W7DN68
UniRef90_L0EET5
UniRef90_D1BH12
UniRef90_Q3AQ58
UniRef90_UPI0004641D23
UniRef90_C5CSV2
UniRef90_A0A023X3I9
UniRef90_F7XVD8
UniRef90_W2BSF0
UniRef90_UPI00036FBF9
UniRef90_V2QB14
UniRef90_UPI00038241CA
UniRef90_E0NQ77
UniRef90_G4QC31
UniRef90_UPI0003706DD9
UniRef90_C7R4B5
UniRef90_I9MED9
UniRef90_UPI00047DD39E
UniRef90_L0DUS0
UniRef90_Q3B1M8
UniRef90_S7U4S1
UniRef90_Q025H9
UniRef90_R4LR37
UniRef90_E6VSY7
UniRef90_UPI0003F67EBE
UniRef90_J0QY12
UniRef90_UPI0004775260
UniRef90_A0A059FPE2
UniRef90_UPI0004693446
UniRef90_A3Y3CZ3
UniRef90_F3WW13
UniRef90_E1VWB9
UniRef90_UPI00035F737D
UniRef90_S9SE76
UniRef90_D8MF91
UniRef90_F4KNT4
UniRef90_UPI000476EA03
UniRef90_Q11QQ8
UniRef90_R4VDC2

170 180 190 200
L A A N D V S R Q D I G F N S D D N Q V I T F I M P D G V T D T P K T S K R V I A
I I A N D V K K K G A G F N V D E T N I A S I L S K R D K V T E K L D I M T S K K E L A
L V V N Q V G G A G L G F E V E H N A V L L D D A D G S V T D V P L M S K K D E L A
L V V N Q V G E N L A F G T E P D N A A V V L D A D A D G S V T D V P L R G A K E L A
L V G N I G H H T F G M D D N E T V L F D A H G M T R L P P R A D K L T L A
I I A N D S T R N K N G I A F R S D D D K N Q V N I L S E P K D G K I Q L Q L A E P K T E E V A
I V I L N S T R N E G N T I F R S D D D N M I S I I S P P D G K K D Y Q K K P K T E E V A
I V V N E V G P D L V F G Q D S H N T V T L L G A D D G S T T F G Q L P K D D V A
I V A N D V S G P A T G L M G G S E N A V L L A T E A D D A T E T A L E H R M S K T D A V A
L V V N A V S E K T R A F E V D T N D G W L L A A A D G S T A L E H R G S K T L M A
I V A N D I S N P E I I G F E S E N Y N A V T L I D K S G Q Q E I A K T A K K D L A
I I F N D I S S R K D I G F D S S E L N E V T L I Y Y P D H S E T M L P Q Q D S K E H L A
I V A N D V S S R R K D I G F D S S E L N E V T L I Y Y P D H S E T M L P Q Q D S K E H L A
I V A N D V S P A T G I M G G S E N A V T Q I F I K D Q G E E A W P A M S K T D V A
I V A N D V S P E T G I M G G S E N A V T L I S A D G A D A W P P R M S K T D A V A
I V A N D V S P Q T G L M G G S E N A V V L L I S A E G A D A W P P R M G K T L A V A
I V A N P I D R R P E S G F N S P T N Q A L I F H K S G A K T V P L T T K L R L A
I V A N D V S P G T G I M G G S E N A V T L I T S K D G A E D W P P R M G K D M V A
I V A N D V S H P T G V M G G D R N K V R L I T S K D G A E D W P P R M G K D M V A
I V L N S L N D Q G A G F K T E T N K V T F I S K S G V V P Q E L K P K D E V A
I V A N D V S S A T G I M G G T E N A V T L I T A G G E E A W E R M G K D A V A
L V G N I G H Q T F G K D E N A L T L F D D K G H T S L P R A D K Q T L A
V V L N S T K E E G A G F Q S H D T N K V K I F S K T G V V Q S E L L P K S A L A
L V A N R V D E G G Q G F S R D N Q A M L L S G A D G S D A I L P L V S K L E M A
L V V N A V D G E P G K A F E V D H N D G W L L G A D G S E L E H G S K A L E M A
I V A N D V S I A G A G F G T D T N I V Q I F F K D S S V K L D K L S K E E L A
L V G N I G P D T F G Q S E N A V L L I T E D Q A P V A T E R M A D K L S L A
I L A N D V S P A T G I M G G S E N A V V L L I S D D Q G S E A W P P R M G K R S A V A
L M C N E V S G H K V F G Q D T R N E G W I L T A D D G V T E V P Q G T K L E V A
L V G N I A Q Y S M G K D T T F L L F D S D G G I K E F E T L P K S E A A
L V G N I G P A T F G K D D N A L L L V D A Q H K E L P H A S K A V L G
I V L N S L R D E G A G F K N D T N K I R I F T R T G K K E F D L K S K T D E V A
L V V N A V G G D R S I G F S S D D N D Y T M Y F A K N G N M S L G K H K V I L A
I V G N L V G G A D A G F G S A T N R V T V L A K G G E E W P V L P K P D V A
I V L N S L Q D D G A G F G K P T N K V T F I D K N N I E P M E L L K S K E A V A
I V L N E I L G E P G V G F G T D T N S V K L I F K N N I K R S F E L L Q S K E Q L A
I V A N D V S G D V M G G T E N A V H I V T A Q G V I E S W S N L P K D Q V A
L V A N D V S V A G A G F G Q G T T N I A T F L F P D R S G R E A M E M M S K F E L A
I V A N D V T E E G C G F G V D T N R V V M L D R S G G R F E F S G S K E D V S
I V L N S L N D K G A G F S V D T N Q V T F I T R D K V V P I P L K T K T E I A
I I A N D V S N S R I G F N S D H H A V L L L D A Q G E R P L P R V D K L V L A
L V A N L G P S T F G C D N A V L L V D A Q G E R P L P R V D K L V L A
V V A N D I T S L E G A G F N V D T N I V K L L F R D G G V E D L P L M G K L E L A
I V A N D V S S K N V I F G N D E D Q V T L I T Q K N K T K K W P K M S K R K I A
I V A N D V S P A T G I M G G S E N A V T L I T A D G A E A W P P R L S K D E T A
I V A N D V S P A T G I M G G T E N A V H I V T G E G V I E D W P P R M N K A L V A
L V G N I G P D T F G Q D D N A L L V D E S G G T T E L T R A S K L S L A
L V L N E V S G T D K V F G R D E N E V V L L S A R G A E E A S R G S K D E V A
L V V N D V S G G A V F G S P E N Q A V L L A A D G E V E V P R G P K N A L A
L M A N N V S P E S G V M G G D F A T E I H F L T Q T S E E S W E M L S K H D V A
L V G N L A Q N V M D A D N T L A L F D D R G M H S L P A T K L D A A
L V I N R V S G W Q E G F A V D D N R V L V L D R S G G D I V A E A G S K M S V A
I V V N D V S P D T K I M G G V E N E V T I L S S A D D K Q H F K R A D K R E I G
I V A N D V T A P D G A G F G V D T N A V S V F D S A S G R T E W K V M P K Q E I G
L A L N E V S G H D V G F G T P D N A V T F L A A D G S T L S A E G S K R D V A
I A Y N S F D G A T G E V E T N I L T L I A Q N G E R V A L P L M S K D D A A
I V A N R V G V P G T G F E S D D N A M T A Y W P G G E R D F P P A P K L R L A
L V G N I G P L T F G Q D D N A L L V D A T S T R E L P P R A P K L T L A
I V G N D I S R E D I G F S V E N E V I V V G P D T E R L V K R A A K I D V A
I A I N D V S K G K V F N E D Y N E V I V I N S E G V L A E S Q G E K M S V A
L V L N N V S D G N V F G K D S N E V I I I N S E G V L A E S Q G E K M S V A
I A A N Q V G G D Q G G F E R A E N A L I C L W R E G R R V L P M M P K T R L A
I A A N D V S R K D I G F N S M D N E V T L F F A D G H T H T G R Q S K Q D I A
L V V N A V G D G K A F E V D H N D G W I L S N G G E S A L E H G S K A L M A
I V L N S L Q N K G T C F R E N E N Q I T I L S P N G S K R A Y E K K D K K V A
L V G N L A Q N V M G K E T T L L L F D S N G S V I E K F D T L P K T K A A
I V A N Y V A I S S Q G F D V D D N S G Y I I S T D G S I E I P K M S K K E M A
L A I N E V S G T H T G F G D V P N T I T L V T N T G Q V E D S I S G T K D D V A
I I A N D V S V P G V G F N A D H N I A K V L Y R N D G R E E L S K M S K E H M A
I V A N D I T L K G S G F K S D E N K V S F V Y K N K N T S F D L M K K S E L A
I A A N D V S A G R A I G T P D N A L T V E W P R G G E R G F A A Q P K E T L A
I A F N T F E Q P G S G F E G T D N R L T L I E R N G R T D L P L M T K D E A A
L A A N V G V P E S G F E A S T N R I V L L D R T G R E E W P V L P K S E V A
I V G N L V G G S E L G F E S D E N E V L L R R Q G G E I Q I P R A S K R H I A
I V V N E V S G T D L V F G A D D N T V T L R G A D G S T V L G I L P K D D V A
I V A N D V S R Q G S G F G T A T N E M F V L D R Q G R R E W P V L P K T E V A
I V V N N V A E D G A G F G S D T N I V T Y F N R K E Q H V I P K A S K K E V A
I V A N D V K K G Q S V M G G D N N T I H L I S H E T I E D W P P E M S K H D V A
L V G N L A Q T A I G S D D N E L I L F D D Q G S H P L P K A D K L T L A
I I A N D V S G D V M G G A D N E V V L I T R E T S E R W P P R M G K D E V A
I V L N S L Q D A G A G F G K S T N K V T F I D K N S T P M E L L K S K V A V A
I I A N D V S R S D I G F N Q D Q N Q V T V V G K D Q T W T P E Q A A K T E L A
L V V N E V S A D V F G G E A N T V H L I T A D G S A S W T R M T K D E V A
L V V N E V S A S L T F G Q E A N A I H V L F A D G S A A V E S M T K D E V A
V V V N D I S N P K T G F K S E M N E V T L L S R N N E E H S F P L S T K R K I A
I L A N D V S P G T G I M G G S E N A V T L I T G E R G E E A W P P R M G K E A V A
L I I N D V S R S D T G F S S D D N A V T L I T P G E P E T L S K A S K I D I A
I V L N S T S D A G A G F G V P T N K V L I L D K A G A R D L P L E S K A V V A
I V A N D V S G G V M G G E R N A V K L V S R A G A V E E W P D M A K G E V A
I V L N S L N D T G A G F A G D T N K I T I Y A R A K D K E P H S Q L L S K E Y I A
I A A N A V G E Q Q G F D V S D N T L Q V L W S D G Q A T L G P A P K T Q I A

UniRef90_Q03RS1 Q A L V S R V A T L L A A K
UniRef90_C7HU45 N K I L D L L V
UniRef90_D3CXL0 H R I F D H V V G M L
UniRef90_UPI000403ACFF D T V W D L V A A R L K P R S
UniRef90_H1S287 R D L V A A I A Q R L
UniRef90_M5E176 H K I F D Y L L
UniRef90_R6XBG4 S D I V D E M E K L W K
UniRef90_I0HEJ0 D V I L L D H V V A R L D A Q
UniRef90_A9DVL3
UniRef90_K5BJY0 S R I V D A I V A L L Q N H
UniRef90_K2E461 K I L L N K I
UniRef90_C5CGE7 Y E I V K R I T D R Y
UniRef90_UPI00037C00D8 F H L I E I E D L
UniRef90_B6JCQ4 A R L V A R I A D T F S S
UniRef90_A4E187 A T L A D R I A E A L
UniRef90_A3JNE4 E L L A S R I
UniRef90_K9RU39 H E L Y D L I L R
UniRef90_UPI00035FAFA2 R K L A E R I A A A L
UniRef90_X5XQD9 A R L A A L I A E R L Q A
UniRef90_A3XRN4 K D L L H M I Q N L M
UniRef90_A0A017HJM6 A R L A D R I A Q A L
UniRef90_J2L678 R Q L V R E I A H R L S A S S
UniRef90_UPI000401BAD7 K M I L N E V K K L
UniRef90_U5QDR2 H R L L D R L E K
UniRef90_W8H815 S R V L D A V D Q L F
UniRef90_E0QGZ2 R T I L R L I K E K I M D K
UniRef90_V4Y332 H W L L S H I A P Q L
UniRef90_D0D0J2 E R L A Q R L
UniRef90_C8NP33 A R I L D A A V A
UniRef90_I6W4W8 D K L I T A I H K R F N K
UniRef90_UPI0003959A25 E Q L V A E I A K R I
UniRef90_J2KKS9 K D I L D F V E H Q L
UniRef90_H5TW51 S R I L D E V R A L L P D
UniRef90_I7IL88 E H I L D S L E T R W E
UniRef90_B8DMN8 W R I V D W L A R R
UniRef90_UPI000313BBA0 D D I L N K V I A N F H E
UniRef90_F2IAA7 F S L L N E L M T N L Y E
UniRef90_UPI00036BFF0D R R L M E K I A D
UniRef90_U7ULJ6 Q K I T S A G A A L V A A K
UniRef90_H0US44 H M I L D R V A V M M E
UniRef90_J5Y489 A D I L T L I H D E L
UniRef90_C8NG04 L N I W E S L L E
UniRef90_UPI0003602565 R L L V R E I A Q R L S K H H
UniRef90_A5G5N1 H I I L D R A A
UniRef90_D5H352 Q K L L Q L I A Q K I
UniRef90_W8RNV3 R R L A L R I A E A L
UniRef90_UPI00040E2EC5 R R L A Q R L A E A L
UniRef90_UPI000479207A R R L V Q E I A L R M
UniRef90_UPI0003066A45 R F V V E R I A R
UniRef90_A1SJF8 H I I W D Q V A S R L Q D
UniRef90_J9DVE0 H R L A G K I A E Y F S K T H
UniRef90_UPI00037B158E R R L V A E I A A R L P K
UniRef90_UPI0003B43768 D R I L D V V A
UniRef90_W7DN68 R R L T K E I T K F F N H
UniRef90_L0EET5 L R L M R L A A E R L A D R
UniRef90_D1BH12 A A L V D Q V L A L
UniRef90_Q3AQ58 A H Y L D A L E A L M R S
UniRef90_UPI0004641D23 D G L V E L V A E R L R A D A R
UniRef90_C5CSV2 R E L M T E I A A R L P D
UniRef90_A0A023X3I9 R A I L D E V I R R L D
UniRef90_F7XVD8 F K L L
UniRef90_W2BSF0 W A I I E A I K K H
UniRef90_UPI00036FBF9 G E L A Q L I T E R Y
UniRef90_V2QB14 K I I L A E S A I L L H S E K N Q
UniRef90_UPI00038241CA S R I L D E L G Q L L
UniRef90_E0NQ77 A D I V D E L E Y L L
UniRef90_G4QC31 D E L I I A I H K R F S K
UniRef90_UPI0003706DD9 E E I I H Y V I D Q L T K K
UniRef90_C7R4B5 N H I L N T V V H L L S
UniRef90_I9MED9 N I I L D K I L A
UniRef90_UPI00047DD39E D I I L D N L A V L L K D R K K
UniRef90_L0DUS0 P A L I R L I A E R M A E
UniRef90_Q3B1M8 G K L L E A V S R I M
UniRef90_S7U4S1 W R I W D H V
UniRef90_Q025H9 D R I F D E I L A L
UniRef90_R4LR37 D A I W D E V A G R L
UniRef90_E6VSY7 W R L W D H L L
UniRef90_UPI0003F67EBE R E I L K L I L R D M K D
UniRef90_J0QYI2 Q K L A L K I A D F F S K
UniRef90_UPI0004775260 R Q L V Q H I Q Q L
UniRef90_A0A059FPE2 R R L A G K I A A E L
UniRef90_UPI0004693446 E D I M K M V C E H L
UniRef90_A3Y CZ3 K Y L V I T L I Q S Q Y Q A H
UniRef90_F3WW13 E G L A Q R I A D A L Q
UniRef90_E1VWB9 R V V I E Q I
UniRef90_UPI00035F737D A D I L N Q V
UniRef90_S9SE76 R R L A L R I A E A L
UniRef90_D8MF91 R A I M T Q V I T L
UniRef90_F4KNT4 E Q I V D F V L K H
UniRef90_UPI000476EA03 D R L A A E I S R R L L E
UniRef90_Q11QQ8 K D I L N Y L L
UniRef90_R4VDC2 S E L I E L I G A R L D A

UniRef90_A0A024IEQ3 1 10 20 30 40
UniRef90_C5C693 D L S G R H V L I T A G P T F E A I D P V R G L T N R R S S G G K M G F A L A A
UniRef90_R5V466 D L A G V R A V V S A G G T R E E P V D P V R R Y I I T A N R H S S T G R K Q G V A L V A A
UniRef90_UPI00045E9197 R A L E G K R R V L V T S G P T H E E P I D D P V R R Y I I T A N R H S S T G R K Q G V A L V A A
UniRef90_A0Z2T7 K S L L T G K K I V I T A G G T F R E E A I D D P V R R F I T G N R H S S S G K M G F A L I A K A R
UniRef90_A4SZP1 R D L A G R T V L V T A G G T R E E P L D D P V R R F I G N R R S S S G K Q G V A L V A N E
UniRef90_D4YRJ4 R S L D G R R V L I T A G G T Q R E E L D D P V R R T I T N R R S S S G T G M G L E I A L A E R
UniRef90_A4AJT6 H D L A G R T V L V T A G G T R E E P L D D P V R R F I G N R R S S S G K Q G V A L V A N E
UniRef90_L1MGH9 R D L D G R R V L I T A G G T T R E E L D D P V R R T I T N R R S S S G T G M G L E I A L A E R
UniRef90_UPI00041BE458 L R S L D G R R V L V S A G G T T Y E E L D D P V I R R G I T T N R R S S S G K M G L E I A L A K
UniRef90_U6EF56 G D L L T G H K V L V S T A G G T R E F F D D P V R R F I L T G N P A T G K M G L A L A I A Q
UniRef90_D4YJ27 R D L T G K R V L V S T A G G T R E F F D D P V R R F I L T G N P A T G K M G L A L A I A Q
UniRef90_K9UMA2 R D L T G K R V L V S T A G G T R E F F D D P V R R F I L T G N P A T G K M G L A L A I A Q
UniRef90_R6H6W6 R D L V G E R H V L V T S G P T H E E P I D D P V R R Y I L T N R R S S S G K F G G Y A L A S A
UniRef90_V5SCE5 R D L V G E R H V L V T S G P T H E E P I D D P V R R Y I L T N R R S S S G K F G G Y A L A S A
UniRef90_E1LOF2 H S L L A G K K V V V S A G G T H E E A L D D P V R R Y I L T G N A S S S G R K M G G H A V A L V R
UniRef90_F8E2Z4 V Q D L L K G K K V L I T T C G P T F R E E F F D D P V I R R Y I L T S N A R S S S G K M G Y A L A D K
UniRef90_B2VA89 R N L L E G R R L V I S A G G T T R E E A L D D P V R R Y I L T G N H S S S S G R K Q G Y A L A D D
UniRef90_K2D3F1 D F Y G K K I L I T T S G P T H E E A I D D P V R R Y I S A N R H S S S S G K M G A A I A D A
UniRef90_UPI0003FD213F R A L A G R H V L V T S G P T H E E P I D D P V R R Y I L G N R R S S S G K Q G V A L A V
UniRef90_K1L016 L S G K S A V I T T A G G T I E R I D D S V R R F I L S G N F H S S S S G K Q G N A I A L A
UniRef90_F01ZA8 L L A G R K V L V T A G G T R E P I D D P V R R Y I L S G N F H S S S S G K R M G F A I A K
UniRef90_F0M1Z0 L L A G R T V T I T A G G T R E E P I D D P V R R Y I L G N R R S S S G K Q G V A L A V
UniRef90_B5JK18 L S G K S A V I T T A G G T I E R I D D S V R R F I L S G N F H S S S S G K Q G N A I A L A
UniRef90_G0VRU4 L L K G K K V L V T A G G T R E P I D D P V R R Y I L S G N F H S S S S G K R M G F A I A K
UniRef90_A0A031JYR0 L L F G K H V L V T A G P T H E E P I D D P V R R Y I L A N R R S S S G K Q G F A I A A
UniRef90_C3WE02 L T G K K V L I T A G R T E E A I D D E V R R Y I L S T N R R S S S G K M G M T I A K
UniRef90_R5FH21 V R D F K G K K V L I T V G G T E E E P I D D P V R R Y I L T N R R S S S G K M G M T I A K
UniRef90_X7FDH3 G R L S G R R I V M T S G P T H E E P I D D P V R R Y I L T A N R R S S S G A Q G N A I A G R Q
UniRef90_Q82UM0 R S L S G K R V L V T A G G T F R E E A I D D A V R R G I L T G N R S S S S G K T G G F A L A V
UniRef90_UPI000362B45B D L L G R K I L I T A G G T R E E P I D D P V R R F I L T G N R S S S S G K Q G F A L A V
UniRef90_U1FTQ5 S F A G K R A L V T A G P T I E E L D D P V R R Y I L S N H S S S S G K Q G Y A L A S E
UniRef90_UPI0004771073 R D L L A R N K I L V I S A G G T R E E A I D D A V R R F I L S G N R S S S S G L Q G Y A L A R
UniRef90_K9Q5Q8 Q D L L A G K H F V I S A G G T R E A I D D P V R R F I L G N R R S S S G R K M G T A L A R
UniRef90_G9PE68 T G I L R G K K V L I T A G G T R E A I D D P V R R F I L G N R R S S S G K M G T A L A R
UniRef90_C2EW80 T G I L A G K R V L I T A G P T R E S I D D P V R R Y I L S N Y S S S S G K M G Y A M A
UniRef90_UPI0003651AB0 K P L A G R H I L V T S G P T H E E P I D D P V R R Y I L A N R R S S S G K Q G H A T A A
UniRef90_D5RLD1 Q D L L A G R H V L V T S G P T H E E P I D D P V R R Y I L A N R R S S S G R K Q G H A T A A
UniRef90_UPI0002EFD2B6 Q D L Q G K Q V L I S A G G T R E F F D D P V R R F I A G N P A T G K Q G H A T A A
UniRef90_K9SIX6 Q P L A G L N A L I T A G P T Q E E P L D D P V R R Y I T N H S S T G K M G Y A L A Q
UniRef90_UPI00042382C9 G P L K G K H V L V T S G P T H E E A I D D P V R R Y I T A N R S S S S G A Q G T A I A R
UniRef90_S9QPH2 L Q G K R V L V T A G P T Y E A I D D A V R R G I T N L S S S S G K M G Y A I A R
UniRef90_UPI0004694E75 K H F E G R K V I T A G P T A E E P I D D P V R R Y I T N R R S S S G K M G F A I A K
UniRef90_UPI0003B79F95 E F A E K N V I T S G P T Q E E A I D D P V R R Y I T S N R H S S S S G K M G A I A M
UniRef90_M7XDW6 H D L S G H R I V I T A G G T R E E P L D D P V R R F I L S G N R S S S G K Q G V A L A V
UniRef90_UPI0003B59027 L H G K R I V I T A G P T R E S I D D P V R R Y L S N Y S S S S G K M G F A M A E
UniRef90_G8UX62 L L Q G L H V L V S A G P T Y E A I D D P V R R Y I T N R R S S S G R K M G F A I A A
UniRef90_T0Y622 L L G Q Q V L V T A G P T Y E A I D D P V R R G I T N L S S S S G R K M G F A I A A
UniRef90_Q21V40 D L L A G V R I V I S A G G T R E E P L D D P V R R Y I L T N R H S S S S G K Q G F A L A R
UniRef90_G7H5C5 V K D L L V G R S I M I S A G P T I E A I D D P V R R Y I T N R S S S S G K M G Y A I A K
UniRef90_E0E4G7 G P L L G K R L L I T A G A T F E A I D D P V R R G I T N R S S S S G Q M G T A I A R
UniRef90_UPI0002D82FD2 G P L L A G R R A L V T S G P T H E E A I D D P V R R Y I L A N R S S S S G K Q G H A I A A
UniRef90_K9H314 S L L L G K T V V I T A G A T V E E I D D P V R R Y I L S N H S S S S G K M G Y A L A N
UniRef90_L0WK16 K R L L A G K K V L I T A G P T R E P I D D P V R R Y V S N Y S S S S G K M G Y A L A E
UniRef90_G9ES28 K R L Q G H R V V I T A G P T F E E P I D D P V R R G I T N R S S S S G K M G Y A I A R
UniRef90_UPI0004634A46 V P D L A G R R V V I S A G G T R E E P L D D P V R R F I L G N R S S S S G R K M G Y A L A E
UniRef90_UPI000401B1B2 G D L V G K R I L I T A G G T R E A I D D P V R R F I L G N R R S S S G R K Q G I A I A R
UniRef90_UPI00035E49C3 K S F A G Q K V V I T S G P T Q E A I D D P V R R Y I S G N R H S S S S G K M G A A L A L
UniRef90_L1PFL1 R D L S G K K V V I T S A G G T R E P L D D P V R R Y L S G N R S S S S G K M G Y A L A L
UniRef90_U5BV63 D L E G R R V V I S A G G T R E A L D D P V R R Y L G N R R S S S G K Q G Y A L A R
UniRef90_UPI00039D7747 R D L K G K K V L V T A G G T R E A I D D P V R R Y I G N R R S S S G R M G F A L A R
UniRef90_W7SC20 R D F E G V R F M I T A G G T R E A I D D P V R R F I G N H S S S S G R Q G Y A L A E
UniRef90_G9YGJ0 K P L Q G R H V V I T A G A T Q E E I D D P V R R Y I T N H S S T G K M G Y A L A K
UniRef90_E2MPV13 K P L A G K R V L I T G A T R E E I D D G V R R G I L S N S S S S G R M G F A L A R
UniRef90_E7MP32 N F K G K N V L V S A G A T F E E I D P V R R F I L T N R S S S S G R M G V E I A K
UniRef90_D3DK27 Q S L T G R K V V I T A G P T V E E A I D D P V R R Y I L S N Y S S S S G K M G F A I A K
UniRef90_F6D3F7 K R L S G K K V L V T A G P T R E E I D D P V R R Y I L S N Y S S S S G K M G Y E I A K
UniRef90_V9G4Z4 R D L A G R H V V V S A G G T R E E P I D D P V R R F I L G N R R S S S G K Q G Y A L A A
UniRef90_UPI00041739AC S L A G E R I V I T A G P T Y E A I D D P V R R Y I L G N R S S S S G K M G V A L A A
UniRef90_B7IDK7 R D W Q G I H L T I T A G P T R E A I D D P V R R Y I L G N R H S S S S G K M G Y A L A A
UniRef90_E4N7N1 D L R G R R I V V S A G G T R E A L D D P V R R F I L G N R S S S S G H Q G M A I A A
UniRef90_F2N9J8 D L R G R R I V V S A G G T R E E P L D D P V R R F I L G N H S S S S G K M G F A L A A
UniRef90_G9ZBV9 R S L V G R R I L I T A G G T H E E P L D D P V R R F I L G N A S S S S G R Q G F A L A D
UniRef90_UPI00046C91E9 I E N L S G K K V L I T A G P T R E E K V D G L R F Y F T N R R S S S S G K M G F A L A V
UniRef90_G4FCA6 Q D M E G I R V M I T L G P T R E E H W D G L R F Y W T N R R S S S S G T G M G A V A V
UniRef90_M7ADF1 G E L A G R T V T I T A G G T Q E E P L D D P V R R F I L G N R S S S S G K Q G I A L A Q
UniRef90_S4XE44 F K G K K I L I T A G P T Y E A I D D P V R R Y I L S N H S S S S G K M G F A I A N
UniRef90_W9AH81 K D L K G K I V V T A G P T R E A Y I D D P V R R F I L S N S S S S G T M G V S I A N
UniRef90_E5Y3L2 R P L N G R H V V I T A G P T F E E P L D D P V R R G I T N R R S S S S G K Q G V A I A A
UniRef90_UPI0004790D10 R P L N G R H V V I T A G P T F E E P L D D P V R R G I T N R R S S S S G K Q G V A I A A
UniRef90_A4C200 R D L E G R R V V V S A G G T R E P L D D P V R R Y L G N R R S S S G T G Q G Y A L A K
UniRef90_M1ZR7 D L L T G K H I L I S T G S T Q E Y I D D A V R R Y I L G N P S S S S G R M G I A L A T
UniRef90_E8RN02 R D L V G K K V L I S A G G T H E E P L D D P V R R F L G N A S S S S G R Q G Y A L A D
UniRef90_UPI00045E7066 D L A G R H V V I T A G G T R E Y I D D P V R R F L G N A S S S S G R Q G Y A V A R
UniRef90_H5XAQ6 R D M E G M R V V V T A G P T V E P I D D P I K L I T N R R S S S S G K M G V A V A R
UniRef90_U9VQP3 G D L T G T S V V I S A G G T R E P L D D P V R R Y I A N H S S S S G R M G V E I A N
UniRef90_W5WQQ1 R D L V G K K V L I T A G G T H E E P L D D P V R R F L G N A S S S S G R Q G Y A L A R
UniRef90_Q2J842 D L A G R H V V I T A G G T R E Y I D D P V R R F L G N A S S S S G R Q G Y A V A R
UniRef90_X0ZFQ1 R D M E G M R V V V T A G P T V E P I D D P I K L I T N R R S S S S G K M G V A V A R
UniRef90_X4R7N9 G D L T G T S V V I S A G G T R E P L D D P V R R Y I A N H S S S S G R M G V E I A N
UniRef90_UPI00041BDB17 R D L E G R R V V I T A G G T R E P L D D P V R R F I L G N R S S S S G R Q G Y A L A R
UniRef90_K1Z9V2 G K K I V I T A G P T R E N I D P V R R Y I S N Y S S S S K M G Y A L A E

UniRef90_A0A024IEQ3 A A H E A G A Q V T L V V A A G P V A L P T P R G V V Q R V V D V V M S A Q D M Q R A V R Q
UniRef90_C5C693 E L A R R R G A K V T L V V A A N V V E I G E T P P G G V V A D Y V V P V V T S A A L E L E Q E A T M R Q
UniRef90_R5W466 V A A R R A G A K V T L V V S S G V P T E A E A D P P L F G V V A D R V V H V V E S A A R D M F L E A T V E
UniRef90_UPI00045E9197 A A R A A G A E T L L I A G S P V M E L S T P P E G V V T R L N V V E T S A G Q M H E A T L
UniRef90_A0Z2T7 A A A E A G A E T L L I A G S P V M E L S T P P E G V V T R L N V V E T S A G Q M H E A T L
UniRef90_A4SZP1 A A V E A G A H V H L I A G S P C D L D T P P G Q I T R T R T H V V E T S A K E K M H S A T L
UniRef90_D4YRJ4 A A K R A G A D V T L V V A G S P C D L D T P P G Q I T R T R T H V V E T S A K E K M H S A T L
UniRef90_A4AJT6 A A L A R G A S V T L L I G A N T L E V A L P P V G T V R L I E V G T T L E L Q T A V V E Q
UniRef90_L1MGH9 I A A H R G A E V T T L V V A A N T D D L P P N P G T V E T V H R V V L S A R Q E M L A D A K V G Q
UniRef90_UPI00041BE458 A F R D A G A R V T T L V V L A G T G D L P E P W G V E T V R V R S A R Q E M L A D A K V G Q
UniRef90_U6EF56 E A Y R R G A E V T T M V T R G R V D V E T P P S V F N C L E V V E S T A Q M D M A Q T A L E
UniRef90_D4YJ27 A A A L A G G Q V T L V V H T L D H A K N L D P P G R I E Q L I Q A I D S A Q E M M Q Q T M V
UniRef90_K9UMA2 A A A N R G A Q V T T L I S G P V V A L Q A P P A G V T E M T Y V E T A R Q E M L S T A E
UniRef90_R6H6W6 A A A Q K L G A R V T T L I T A G P V S L A D P P E T V Q H V V E S A Q E M L S T A E
UniRef90_V5SCE5 A A R V R G A R V T L L I A G P P L S C V Y P T P G C D S C D H V V I C A Q E M M Y E A T T
UniRef90_E1LOF2 V A A Q R G A R V T T L V A S G T E E L P I P S G A N L V R V V K S A R E M Q Q A V T
UniRef90_F8E2Z4 E V Y G F G S Q V T L I S S S D Q S T F A D P H L K K I J D V V T A E D M F E A I V K
UniRef90_B2VA89 H S L V R G A E V T F F V S S D Q S T F A D P H L K K I J D V V T A E D M F E A I V K
UniRef90_K2D3F1 V A V H R G A E V T T L V R G D T A L P V P P G A T I V D V V S A R D M D T A V R
UniRef90_UPI0003FD213F A F A R S G A E V T L I S G T G A K P K N K N K I Y P V K S A N D M F Q A A N
UniRef90_K1L0L6 A L A R R G A R V T T L V S G P V A L A D P P A G V V A V V R V E T A L Q L R E A A V L
UniRef90_F0LZA8 A A R N A G A T V R L L A A H M E L A P P P A G V V A V V P V E T A L Q L R E A A V L
UniRef90_F0M1Z0 A L A Q S G A K V T T L V A G N T K E T P P N L N L A P V V G S T R D M K A V D D
UniRef90_B5JKI8 A A V M A G A E V T T L V A G T T D N L K T P V A R R V D V G S T R D M K A V D D
UniRef90_G0VRU4 A A A E A G A R V T T L V A G P V H L P T P P G V D R V D V V E S A L E M M A E A V D
UniRef90_A0A031JYR0 S A V D L G A E V V V I K G K V T S V L E T P T G V V E T F V V R K T T N D M Y N A V K
UniRef90_C3WE02 A A A D R G A E V V V V K G K V T S V L E T P T G V V E T F V V R K T T N D M Y N A V K
UniRef90_R5FH21 A L A D L G A E V T F V T G P V A S V P P P L G V Q V H R V V E T A R E M M R S A V L
UniRef90_X7FDH3 A A L E A G A Q V T L V C P P V C P P F P A V D K L T H I V I S A S E M M F S A V K
UniRef90_Q82UM0 A A A S R G A Q V T L V H L V T A N T D L A Q P P E H L E V I Q V V Q S A E E M F E A V K
UniRef90_UPI000362B45B A L A D R G A K V T T L V S A N P I A L Q P P E H L E V I Q V V Q S A E E M F E A V K
UniRef90_U1FTQ5 T A A A R G A E V T T L V A A N V I A L P D P P A G A T V V V E S S A A Q L R E S L L
UniRef90_UPI0004771073 A A A Y R G A E I T T L V H A N V I A L E D L P E M E R F P V V V S A E M E R S L L
UniRef90_K9Q5Q8 A A V E R G A H V T T L V A A N I E A Q L P P E Q V I E V V K V V S A L Q L R D A V H
UniRef90_G9PE68 A A A D A G A T V E L V L G Q P S A L A Q V S A G I E L I R V E S A Q D M S D A V V Q
UniRef90_C2EW80 A A A L A G A Q V T T L I S S G P V T L A D P P A G V T T M R I E S A R D M L A A V E
UniRef90_UPI0003651AB0 A A S L R G A T V T T L V S A V N S A S L N S A I Q V I V V E T S A Q M H H A M L
UniRef90_D5RLD1 A L A G L G A R V T T L V S S G P V T L A D P P A G V T T M R I E S A R D M L A A V E
UniRef90_UPI0002EFD2B6 A A A A A G A R V T T L V S A V N S A S L N S A I Q V I V V E T S A Q M H H A M L
UniRef90_K9SIX6 A A K A L G A A V T T L V S G P V A L P P P T G V V N V V Q V V L S A E D M F E A V Q
UniRef90_UPI00042382C9 S L A A L G A D V T F V S G P A D V P P P L G V K V V V Q T S A R Q M K D A V D
UniRef90_S9QPH2 A A L E A G A E V I L I T S G P V C L D A P P A K V T R V T S A Q D M L G A V E
UniRef90_UPI0004694E75 M A K F M G A D T T L I T G P V C L R E P P Y G V K R I D V V E R A T D M L D A L K
UniRef90_UPI0003B79F95 A F A E A G A K V H L V L G K G A V P D H P N I Q I R S V R S T A Q E E M Y D A S A
UniRef90_M7XDW6 A A R D R G A D V V L V A A H L D V P A P D G V E I R S V S T A Q E L Q R A V T
UniRef90_UPI0003B59027 A A M A G A Q V T L I A G P V S L A T P P G V R R V D V V S A Q S M L E E V N
UniRef90_G8UX62 A A A Q A G A E V T T L V A G P V S L A T P P G V R R V D V V S A Q N M H A M L
UniRef90_T0Y622 A A H E A G A V T T L V A G P V H L P T P R G V H R R V N V T S A Q Q M L A A V
UniRef90_Q21V40 A A A A R G A D V T T L V A G S T S N G D P A G V D L V P I S S A V E L A D E M T
UniRef90_G7H5C5 R A V A R G A Q V T T L V S G K T D L D V P K G V K Y L N I E S A D D L Y E N V V
UniRef90_E0E4G7 S C R A V G A K V T T L I Y G Q L Q T T I P L G L H T E Q A V I S A E M F R A V H
UniRef90_UPI0002D82FD2 A L T A L G A E V T T L V S G P V A L D D P D G V R V I R V E S A R E M L E A C R
UniRef90_K9H314 A C Y H A G A D V T T L V S G K H S L K T P F G V R R L D V D G T A E Q M L K V C L
UniRef90_L0WKI6 A A A M A G A E V T T L I S S G P C D Q P C S A G I K L V K I D V E T A Q Q M R A A V M
UniRef90_G9ES28 A A A D A G A D V T T L I S S G P T A L P L P W G V R R L D V E T A Q Q M R A A V M
UniRef90_UPI0004634A46 A F A T T G A D V T T L I S S A P T S L P D P P R A A I Q R V V E T A D Q M Y A A A
UniRef90_UPI000401B1B2 T A L A R G A E V T L I S A N V L E L P D P A G A K V V R V G T A E E L R T A V F
UniRef90_UPI00035E49C3 E A L S R G A E V T T L V T S N I D A A P Q G C S V I D A P S A Q D V Y D A V M
UniRef90_L1PFL1 A F A K K G A E V H V L G E G A V K P H Q N L Q I H V V R S A S D M F Q K A E
UniRef90_U5BV63 V A A Q R G A E V T T L V A A H T T L P D P A G V R V V R I G S A V E L R D A M H
UniRef90_UPI00039D7747 V A A Q R G A E V T T L V A A H T T L P D P A G V R V V R I G S A V E L R D A M H
UniRef90_W7SC20 A A A F A G A D V T T L V A G Q V T L A T P P S A V K R V D V L T T N E M K A A V D
UniRef90_G9YGJ0 M A A Q R G A Q V T T V V A G H T N D L A T P P L G A T V V K V D S T L E M A E A T Y
UniRef90_E2MVI3 E A R N A G A K V T T L I S G K T N L P Q P Y G V D V V K V V T S A A D M R E C V V
UniRef90_E7MP32 V F R W Y G A Q V K V V A G F T T A Q E P P E T H V Q R V V V S A Q D M Y Q K V M
UniRef90_D3DK27 D A F R G A E V T M L C G K M E T R V P K L F D V V E V E S T A Q E M Q D E L L Q
UniRef90_F6D3F7 V A K Q L G A N V H L I A A H T D E A P P A D L N V E R V V G S A E E M Y E A V L
UniRef90_V9G4Z4 A C R D A G A E V T L V S G K V S L P T P T G V T R I D V L S A E Q M L S A A Q
UniRef90_UPI00041739AC I S K R M G A Y T T L I S S G P T N L T P P Y F I E F I K V K T A H D M Y T Q V M
UniRef90_B7IDK7 T A A A R G A R V T T L V A A N T E L P A P A G V D V V R A G T A R Q L R E A V L
UniRef90_E4N7N1 A A Y E L G A E V T T L V L G P T T A I A P P E G V C V E R V E S A E Q M L R C A R
UniRef90_F2N9J8 A A A R R G A E V T T L I S S G P T A I A P P E G V C V E R V E S A E Q M L R C A R
UniRef90_G9ZBV9 A A A A A G A Q V D L L C G Q V I E R S V P A G V N V T W V E T T E D L A K A T E
UniRef90_UPI00046C91E9 A A V A Q G A K V T T L I S G P V S L P T P P G V T R I D V V E S A E Q M H S E A Q
UniRef90_G4FCA6 A A A Q R G A E V T T L I A G T V S A G D P A G V D I V G V S A E Q M A T E M T
UniRef90_M7ADF1 V A V Q R G A R V E I I A G Y D D L P E P S G A T V T R V V R T A R E M Q Q A V V
UniRef90_S4XE44 A A A Q G A E V T T L I A G P E Q V L K E Q N I H R I N V V T A R E M Y E E M H
UniRef90_W9AH81 A A W L R G A R V E A V C G P E T P W L P A G I A R H N V G S A R H M L E A A A
UniRef90_E5Y3L2 A A A A G A H V H L I A A H L E V P V P A G L Q V T R A G T A R E L R S A V L
UniRef90_UPI0004790D10 A A A N L G A H V Y L V S G P T N Q Q Q H A R L K K V D V V S A E E M Y A V H
UniRef90_A4C200 E A Y F R G A D V I L V H G P L S S S V K P Y T K R I R V D T T Q E M A E N V E
UniRef90_M1ZR7 A A D A G A R V T T L V S G P V S L P T P A G V T R I D V V E T A A E M H D A V H
UniRef90_E8RN02 A A T E R G A R V T T L V A A N V S L P T P H G V E V V A V E T T A S E Q L R A A V R
UniRef90_UPI00045E7066 V A A Q R G A T V T L V G A N T S L P D P A G V E V V P V S T A S E Q L R A A V R
UniRef90_H5XAQ6 A A A H R G A Q V S L V F G P M E P H T P D S V Q T T A V V S A A D M E A S L M
UniRef90_U9VQP3 V A A Q R G A E V T I V S G F T E L P V P S G A R T V V K T A R D M L R T A M T
UniRef90_W5WQQ1 A A V V R G A S V T T V V A A N V A L P E V A G A R T I P V T S A A Q M L R D R V H
UniRef90_Q2J842 V A A S R G A E V T A L I Y G P G T E A P P S N V K V V R V V Q T T R E M C E A F K
UniRef90_X0Zfq1 E A S R R G A D V T L V A A N T E A A V D P S V A I E Q V S T A R E L A E R M S
UniRef90_X4R7N9 V A A Q R G A E V T T L V T A H T D L P A P A G V D V V D V S T A R E M A D A V E
UniRef90_UPI00041BDB17 A A L E A G T Y V V L I S G P T N L D C S T K I K H I N I H T A E M H K A V M
UniRef90_K1Z9V2

UniRef90_A0A024IEQ3
UniRef90_C5C693
UniRef90_R5W466
UniRef90_UPI00045E9197
UniRef90_A0Z2T7
UniRef90_A4SZP1
UniRef90_D4YRJ4
UniRef90_A4AJT6
UniRef90_L1MGH9
UniRef90_UPI00041BE458
UniRef90_U6EF56
UniRef90_D4YJ27
UniRef90_K9UMA2
UniRef90_R6H6W6
UniRef90_V5SCE5
UniRef90_E1L0F2
UniRef90_F8E2Z4
UniRef90_B2VA89
UniRef90_K2D3F1
UniRef90_UPI0003FD213F
UniRef90_K1L0L6
UniRef90_F0LZA8
UniRef90_F0M1Z0
UniRef90_B5JKI8
UniRef90_G0VRU4
UniRef90_A0A031JYR0
UniRef90_C3WE02
UniRef90_R5FH21
UniRef90_X7FDH3
UniRef90_Q82UM0
UniRef90_UPI000362B45B
UniRef90_U1FTQ5
UniRef90_UPI0004771073
UniRef90_K9Q5Q8
UniRef90_G9PE68
UniRef90_C2EW80
UniRef90_UPI0003651AB0
UniRef90_D5RLD1
UniRef90_UPI0002EFD2B6
UniRef90_K9SIX6
UniRef90_UPI00042382C9
UniRef90_S9QPH2
UniRef90_UPI0004694E75
UniRef90_UPI0003B79F95
UniRef90_M7XDW6
UniRef90_UPI0003B59027
UniRef90_G8UX62
UniRef90_T0Y622
UniRef90_Q21V40
UniRef90_G7H5C5
UniRef90_E0E4G7
UniRef90_UPI0002D82FD2
UniRef90_K9H314
UniRef90_L0WKI6
UniRef90_G9ES28
UniRef90_UPI0004634A46
UniRef90_UPI000401B1B2
UniRef90_UPI00035E49C3
UniRef90_L1PFL1
UniRef90_U5BV63
UniRef90_UPI00039D7747
UniRef90_W7SC20
UniRef90_G9YGJ0
UniRef90_E2MWI3
UniRef90_E7MP32
UniRef90_D3DK27
UniRef90_F6D3F7
UniRef90_V9G4Z4
UniRef90_UPI00041739AC
UniRef90_B7IDK7
UniRef90_E4N7N1
UniRef90_F2N9J8
UniRef90_G9ZBV9
UniRef90_UPI00046C91E9
UniRef90_G4FCA6
UniRef90_M7ADF1
UniRef90_S4XE44
UniRef90_W9AH81
UniRef90_E5Y3L2
UniRef90_UPI0004790D10
UniRef90_A4C200
UniRef90_M1ZR7
UniRef90_E8RN02
UniRef90_UPI00045E7066
UniRef90_H5XAQ6
UniRef90_U9VQP3
UniRef90_W5WQQ1
UniRef90_Q2J842
UniRef90_X0ZFQ1
UniRef90_X4R7N9
UniRef90_UPI00041BDB17
UniRef90_K1Z9V2

90 100 110 120
A S A D A A D V F I A A A A V A D W R P A N A A G Q K I V K K D G S G F V E N P
D A A G D A D V V V M S A A A V A D F R T P S T T A T P A K I V K K K P T I E L V T N P D
K N A P E Q D L I L K S A A A V A D Y T P V S T A T E K K K K K K K K K K K K K K K K K
E N L P V D A D A V I F A A A A V A D W R V E D A S E A T E K K I I K K V G D T L N R N P D
E Q I K P T D V F I G S A A A V A D W Y R A E F S A S P Q K I I K K V G D T L N R N P D
S E L T D Y D L F F A V A A A V A D W G T A K P A S K E Q K I K K R Q N L E F L A N P D
U n i R e f 9 0 _ D 4 Y R J 4 E E F P K D A D A L I M A A A A V A D W R W L K K V A D S K E Q K I I K K R S M D Q A N K T P D
U n i R e f 9 0 _ A 4 A J T 6 A E A V T A D L V I M A A A A V A D Y R P A E T A A Q S K I I K K R S D S R T E N P D
U n i R e f 9 0 _ L 1 M G H 9 E V A G E Q D V I I M A A A A V A D V R P A H Q A A V K L K K G Q E L V E N P D
U n i R e f 9 0 _ U P I 0 0 0 4 1 B E 4 5 8 S R W A A A D G L V G A A A A V A D Q R P E T Y A A A E K V L K K G G E G P E T M T P D
U n i R e f 9 0 _ U 6 E F 5 6 D N L K D H D V F I A A A A V S D F V V E K S Q S K L S S Q K E Q T L K L K P
U n i R e f 9 0 _ D 4 Y J 2 7 K H V T D K D I V I M S A A A V S D Y R S A H P A H Y S A D Q K L M K K D Q L E S N Q D G L E
U n i R e f 9 0 _ K 9 U M A 2 A H F A T A D L V L M S A A A V A D V K P A H Y S A D Q K L P K K N L E L A P V P
U n i R e f 9 0 _ R 6 H 6 W 6 A S F A N A D I A L F A A A A V A D M R P A N P A E D K K L K K G K N D S E E N P D
U n i R e f 9 0 _ V 5 S C E 5 A A L P A D A V A V F A A A A V A D W R V A N S A A E G K I K K P A L H L A N E N A D
U n i R e f 9 0 _ E 1 L 0 F 2 R Y L S S M T I A V I C T A A A V A D W Q P A N V E A Q K I I K K D K R A Y I D A P D
U n i R e f 9 0 _ F 8 E 2 Z 4 E A A R D A D V V I M A A A A V A D Y R P A S V A D S K L K K N S L E L T E N P D
U n i R e f 9 0 _ B 2 V A 8 9 D T I Q D F D I I M N A A A V A D F R P K A Y S P S N K L K K T K E E L Q T P N P D
U n i R e f 9 0 _ K 2 D 3 F 1 R F L P D A D V F I S A A A A V C D Y R P L S Y S P S K K F S V E W Q T P H
U n i R e f 9 0 _ U P I 0 0 0 3 F D 2 1 3 F E V A A D A D M V I M S A A A V A D F R P A E V A G A K M K K G S D E D T E N P D
U n i R e f 9 0 _ K 1 L 0 L 6 S L H K A M D L C V F A A A A V A D Y A P K D I A L E K I K K M T I E L V K N V D
U n i R e f 9 0 _ F 0 L Z A 8 A A L P A D A A V F C A A A V A D W R V E A Q G R K I K K T G A P P V E N P D
U n i R e f 9 0 _ F 0 M 1 Z 0 A A A A D S D V V I M S A A A V A D F R P A D V S D T K I K K R E G H S D P N P D
U n i R e f 9 0 _ B 5 J K I 8 A A L P A D I F I G C A A A V C D Y S V S N N S D K K I K K E D D G Q F E A K T P D
U n i R e f 9 0 _ G 0 V R U 4 S Y Y D D C D L V I K S A A A V A D Y R S A H P A H Y S A D Q K L K K N D D E M A K N P D
U n i R e f 9 0 _ A 0 A 0 3 1 J Y R 0 A A L P A D V A V M V A A A V A D W R V V R S A D Q K L K K D P L E L T E N P D
U n i R e f 9 0 _ C 3 W E 0 2 K R F S K M D I A I A C A A A V A D Y K P K Y Y S N E K I K K K D G G L D R K N P D
U n i R e f 9 0 _ R 5 F H 2 1 A L A K E C D L F V M A A A P A D Y K I A E K F S G K I K K I T L T L E K N P D
U n i R e f 9 0 _ X 7 F D H 3 A A L P A D A A I F A A A A V A D W R V T H E S A S K L K K T A G T F E E N P D
U n i R e f 9 0 _ Q 8 2 U M 0 A E V E G H D I F I S V A A A V A D Y R P A E C H P S K I K K T V A D I T P N P D
U n i R e f 9 0 _ U P I 0 0 0 3 6 2 B 4 5 B L E F P H S D A L I M S A A A V A D A K V A S Y S E A K I R K E S L D R V D N P D
U n i R e f 9 0 _ U 1 F T Q 5 S K Y K Q I D I V F K A A A V S D Y T P A E A L T H K L K K Q D G E F K R T P D
U n i R e f 9 0 _ U P I 0 0 0 4 7 7 1 0 7 3 A A S A G A D V V V M A A A A V A D F R S A S R H D V K I K K T P I H L T K N P D
U n i R e f 9 0 _ K 9 Q 5 Q 8 D Q A G Q F D W I M C A A A V G D V R S K I L H N N K L S K E S I L E L E T I P D
U n i R e f 9 0 _ G 9 P E 6 8 E A G R S A Q V I V M C A A A V A D F R P K T Y A G F K L K K Y T L E L V E N P D
U n i R e f 9 0 _ C 2 E W 8 0 E L F P A A D I L I M A A A A V A D F R P A R V A N Q K I K K Q D D Q E Q K T T D
U n i R e f 9 0 _ U P I 0 0 0 3 6 5 1 A B 0 Q H L P Q P G D I F I G T A A A V A D Y Q T P A V E K M K K D H A E I T R T T
U n i R e f 9 0 _ D 5 R L D 1 A A L P A D A A I C A A A A V A D W R S A G E A T Q K L K K I P G E A P P N P D
U n i R e f 9 0 _ U P I 0 0 0 2 E F D 2 B 6 A A L P A D A A V F A A A A V A D W R T A G E A A Q K M K K N G K G I P Q N P D
U n i R e f 9 0 _ K 9 S I X 6 E N F G K A D I T I M A A A A V G D V R T A S Y S D R K I P K A L L P E E K I P D
U n i R e f 9 0 _ U P I 0 0 0 4 2 3 8 2 C 9 R R F A S A D I A V M A A A A V G D F Q P E H A D A S E K I K K Q G R R L V S N P D
U n i R e f 9 0 _ S 9 Q P H 2 A A L P A D A A V F A A A A V A D W R V A N A S G S K M K K D G S E F T E N P D
U n i R e f 9 0 _ U P I 0 0 0 4 6 9 4 E 7 5 N E I S G V D I F I S V A A A V A D Y R A K S T S K K T K K T S N S I T I P N P
U n i R e f 9 0 _ U P I 0 0 0 3 B 7 9 F 9 5 R E I S K A E I L I M A A A A V A D F K P K E Y K E S K I K K S G S E F D E N P D
U n i R e f 9 0 _ M 7 X D W 6 K L H P A M D I C V F A A A A V A D Y A P K H V A A E K I K K D G E G M V K N I D
U n i R e f 9 0 _ U P I 0 0 0 3 B 5 9 0 2 7 A A A T D A D I V V M A A A A V A D F R P A T T N D S K I K K E K V E L V A N P D
U n i R e f 9 0 _ G 8 U X 6 2 R H V Q Q G D V F I G T A A A V S D Y R V L N P A S E K M K K N E N Q L V R N A D
U n i R e f 9 0 _ T 0 Y 6 2 2 Q A A V N A D I V I A V A A A V A D Y R P A Q V S A H K K I K H L L E L E I E N P D
U n i R e f 9 0 _ Q 2 1 V 4 0 D Y A Q K A T I F V A T A A A V A D W R P A L A A E Q K I K K D G S G F V E N P D
U n i R e f 9 0 _ G 7 H 5 C 5 K R A A E A D V I M A A A A V A D F R P V A V S D A K I K K S P I E L E T N P D
U n i R e f 9 0 _ E 0 E 4 G 7 R E F E A N D V V I Q S A A A V A D Y K P K S Y S D K K I K K K D I E L C N K D
U n i R e f 9 0 _ U P I 0 0 0 2 D 8 2 F D 2 N H I T N Q D V F I S V A A A V A D Y K V K N S S S D K M K K P V I E L T E N P D
U n i R e f 9 0 _ K 9 H 3 1 4 A A L P A D V A V C A A A A V A D W R V E A A G Q K I K K T A E G F T E N P D
U n i R e f 9 0 _ L 0 W K I 6 S V C Q K A D I F I A A A A V A D F K A A S V A D H K I K K T K N Q Q T M T L Q
U n i R e f 9 0 _ G 9 E S 2 8 H E L Q D G C I F I G A A A A V A D Y H I Q A P A L Q K M K K T E H H E L V K N P D
U n i R e f 9 0 _ U P I 0 0 0 4 6 3 4 A 4 6 A V L L S Q D I F I A V A A A V A D W R P A A A A T E K I K R S N D P F V E N P D
U n i R e f 9 0 _ U P I 0 0 0 4 0 1 B 1 B 2 A V A P A A D V V V F A A A A V A D Y K P A H V A E N K I K K A G D K V K N V D
U n i R e f 9 0 _ U P I 0 0 0 3 5 E 4 9 C 3 E A A S D A A V V V M A A A A V A D F R P A Q R V D A K I K K S D A D P E P N P D
U n i R e f 9 0 _ L 1 P F L 1 S H L G Y S D A L V M A A A A V A D Y R P R A A S A S K I K K E E N E S A P P T D
U n i R e f 9 0 _ U 5 B V 6 3 N L H S Q M D I S V F A A A A V A D Y S P K I A A V E K I K K Q G E L V K N I D
U n i R e f 9 0 _ U P I 0 0 0 3 9 D 7 7 4 7 R A A A D A D V V V M A A A A V A D F R P D S P A G K I I K K S D D Q P D P N A D
U n i R e f 9 0 _ W 7 S C 2 0 A E S P S A D A V V M A A A A V A D F R P L G L S A S K I K K G D R E P E P N P D
U n i R e f 9 0 _ G 9 Y G J 0 A L Y D D C D I V I K A A A A V A D Y R A A E S P Q K I K K N D D D M V K N P D
U n i R e f 9 0 _ E 2 M W I 3 E H A K L A D V C I F A A A A V A D F R P A S A A G S K M K K S N I Q L V E N P D
U n i R e f 9 0 _ E 7 M P 3 2 N N F E K A D V V I M S A A A V A D Y T P I E K A D H K I K K A E G D L K R T Q D
U n i R e f 9 0 _ D 3 D K 2 7 E L K D W A D I V M N A A A V S D Y M P E R K E T G K I K K T Q S R L V S T P D
U n i R e f 9 0 _ F 6 D 3 F 7 K L L P K T D V F V S A A A A V S D Y T V D S S A E G K I S S D E L I L S T K R
U n i R e f 9 0 _ V 9 G 4 Z 4 R Q F A D S D I V I K A A A A V A D Y R P A Q V A T S K L K K M T L E L V K T T D
U n i R e f 9 0 _ U P I 0 0 0 4 1 7 3 9 A C Q C V D P A D I F I A T A A A V A D Y R T R D A A P Q K I K K T Q D A M V K N P D
U n i R e f 9 0 _ B 7 I D K 7 N K F I D Y D L I I M T A A A A V A D Y T P K E K I K S E N F I L E L E R T K D
U n i R e f 9 0 _ E 4 N 7 N 1 R A A E D A D A V V M A A A A V A D F R P A E Y A S G K I K K V D G I E P R N P D
U n i R e f 9 0 _ F 2 N 9 J 8 S A F A D A T A L I C A A A A V S D Y A A A E P A A H K L K K G T E R L V R T P D
U n i R e f 9 0 _ G 9 Z B V 9 A H P G D I Y L S A A A A V A D Y R V A H P A T Q K K K Q G D T L V Q N P D
U n i R e f 9 0 _ U P I 0 0 0 4 6 C 9 1 E 9 T A S Q G A D A V I L A A A P A D Y R P A R Y S A Q K M K S L S L E L A P N S D
U n i R e f 9 0 _ G 4 F C A 6 R L A P Q A A L E I G C A A A V A D Y R A A A E H K I K K Q D N S D T K N P D
U n i R e f 9 0 _ M 7 A D F 1 K R A A D A D V V I M A A A A V A D F R P V S M A D A K I K K G D Q E L T T N P D
U n i R e f 9 0 _ S 4 X E 4 4 D A A S S V D A V I M S A A A V A D F R P A S A A E A K L K K G G D T D T E N P D
U n i R e f 9 0 _ W 9 A H 8 1 R H Y A A S D I V I K A A A A V A D Y K P K H V Y T E K M K K Q L E M V R T Q D
U n i R e f 9 0 _ E 5 Y 3 L 2 S V W P Q C D A G V F T A A A V A D F S P V P A D K K F K K F D V H F A P N P D
U n i R e f 9 0 _ U P I 0 0 0 4 7 9 0 D 1 0 A A L P T S D I L I M A A A A V A D F R P A E V T G T K I K K N D I R N P D I L R
U n i R e f 9 0 _ A 4 C 2 0 0 A C F K E M D V A I C A A A A V A D Y K P K I T A T K K I K K T A E P L E I Q L T
U n i R e f 9 0 _ M 1 Z R 7 K L V R D Y G I V I L A G A P A D F K P K N T A S K I K K S H S E V P K V E L E
U n i R e f 9 0 _ E 8 R N 0 2 A A L P A D V F V G V A A V G D W R A K E I A R D K Q K K G V D G E V K N P D
U n i R e f 9 0 _ U P I 0 0 0 4 5 E 7 0 6 6 S A G A T A D V V V M A A A A V A D F R P L T T A E H K M K K V A G E P T T N P D
U n i R e f 9 0 _ H 5 X A Q 6 D A A P A D A V V M A A A A V A D F R P A T L A E H K I K K T D D M S T R N P D
U n i R e f 9 0 _ U 9 V Q P 3 A Q L E T A D W I I M A A A A V A D M R P Q L N V A G K L A K A D L P N P L P L E
U n i R e f 9 0 _ W 5 W Q Q 1 E Q A K E A D V V I M A A A A V A D Y R P A T V A G S K I K K T R I E L E E N P D
U n i R e f 9 0 _ Q 2 J 8 4 2 E V A P S A D V V V M A A A A V A D F R P G A P A G Y K I K K E S I L V E A N P D
U n i R e f 9 0 _ X 0 Z F Q 1 R E L K S P D I I V S T A A A Q D F A I E R P A E R K L R H F E P P T V P A P R
U n i R e f 9 0 _ X 4 R 7 N 9 A H A H K D I L I M S A A A V S D Y R V A N A S D T K L K E L H L D G S V A N P D
U n i R e f 9 0 _ U P I 0 0 0 4 1 B D B 1 7 H A A A E A D V V V M A A A A V A D F R P A D T A G H K I K K T D D G L S E R N P D
U n i R e f 9 0 _ K 1 Z 9 V 2 Q E I S A C D V F I S A A A A V S D Y R P A N S S S Q K T K K G T E R I S I E L K

UniRef90_A0A024IEQ3
UniRef90_C5C693
UniRef90_R5W466
UniRef90_UPI00045E9197
UniRef90_A0Z2T7
UniRef90_A4SZP1
UniRef90_D4YRJ4
UniRef90_A4AJT6
UniRef90_L1MGH9
UniRef90_UPI00041BE458
UniRef90_U6EF56
UniRef90_D4YJ27
UniRef90_K9UMA2
UniRef90_R6H6W6
UniRef90_V5SCE5
UniRef90_E1LOF2
UniRef90_F8E2Z4
UniRef90_B2VA89
UniRef90_K2D3F1
UniRef90_UPI0003FD213F
UniRef90_K1L0L6
UniRef90_F0LZA8
UniRef90_F0M1Z0
UniRef90_B5JKI8
UniRef90_G0VRU4
UniRef90_A0A031JYR0
UniRef90_C3WE02
UniRef90_R5FH21
UniRef90_X7FDH3
UniRef90_Q82UM0
UniRef90_UPI000362B45B
UniRef90_U1FTQ5
UniRef90_UPI0004771073
UniRef90_K9Q5Q8
UniRef90_G9PE68
UniRef90_C2EW80
UniRef90_UPI0003651AB0
UniRef90_D5RLD1
UniRef90_UPI0002EFD2B6
UniRef90_K9SIX6
UniRef90_UPI00042382C9
UniRef90_S9QPH2
UniRef90_UPI0004694E75
UniRef90_UPI0003B79F95
UniRef90_M7XDW6
UniRef90_UPI0003B59027
UniRef90_G8UX62
UniRef90_T0Y622
UniRef90_Q21V40
UniRef90_G7H5C5
UniRef90_E0E4G7
UniRef90_UPI0002D82FD2
UniRef90_K9H314
UniRef90_L0WKI6
UniRef90_G9ES28
UniRef90_UPI0004634A46
UniRef90_UPI000401B1B2
UniRef90_UPI00035E49C3
UniRef90_L1PFL1
UniRef90_U5BV63
UniRef90_UPI00039D7747
UniRef90_W7SC20
UniRef90_G9YGJ0
UniRef90_E2MVI3
UniRef90_E7MP32
UniRef90_D3DK27
UniRef90_UPI0003F6D3F7
UniRef90_V9G4Z4
UniRef90_UPI00041739AC
UniRef90_B7IDK7
UniRef90_E4N7N1
UniRef90_F2N9J8
UniRef90_G9ZBV9
UniRef90_UPI00046C91E9
UniRef90_G4FCA6
UniRef90_M7ADF1
UniRef90_S4XE44
UniRef90_W9AH81
UniRef90_E5Y3L2
UniRef90_UPI0004790D10
UniRef90_A4C200
UniRef90_M1ZR7
UniRef90_E8RN02
UniRef90_UPI00045E7066
UniRef90_H5XAQ6
UniRef90_U9VQP3
UniRef90_W5WQQ1
UniRef90_Q2J842
UniRef90_X0ZFK1
UniRef90_X4R7N9
UniRef90_UPI00041BDB17
UniRef90_K1Z9V2

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

UniRef90_A0A0241EQ3
UniRef90_C5C693
UniRef90_R5W466
UniRef90_UPI00045E9197
UniRef90_A0Z2T7
UniRef90_A4SZP1
UniRef90_D4YRJ4
UniRef90_A4AJT6
UniRef90_L1MGH9
UniRef90_UPI00041BE458
UniRef90_U6EF56
UniRef90_D4YJ27
UniRef90_K9UMA2
UniRef90_R6H6W6
UniRef90_V5SCE5
UniRef90_E1L0F2
UniRef90_F8E2Z4
UniRef90_B2VA89
UniRef90_K2D3F1
UniRef90_UPI0003FD213F
UniRef90_K1L0L6
UniRef90_F0LZA8
UniRef90_F0M1Z0
UniRef90_B5JKI8
UniRef90_G0VRU4
UniRef90_A0A031JYR0
UniRef90_C3WE02
UniRef90_R5FH21
UniRef90_X7FDH3
UniRef90_Q82UM0
UniRef90_UPI000362B45B
UniRef90_U1FTQ5
UniRef90_UPI0004771073
UniRef90_K9Q5Q8
UniRef90_G9PE68
UniRef90_C2EW80
UniRef90_UPI0003651AB0
UniRef90_D5RLD1
UniRef90_UPI0002EFD2B6
UniRef90_K9SIX6
UniRef90_UPI00042382C9
UniRef90_S9QP2
UniRef90_UPI0004694E75
UniRef90_UPI0003B79F95
UniRef90_M7XDW6
UniRef90_UPI0003B59027
UniRef90_G8UX62
UniRef90_T0Y622
UniRef90_Q21V40
UniRef90_G7H5C5
UniRef90_E0E4G7
UniRef90_UPI0002D82FD2
UniRef90_K9H314
UniRef90_L0WKI6
UniRef90_G9ES28
UniRef90_UPI0004634A46
UniRef90_UPI000401B1B2
UniRef90_UPI00035E49C3
UniRef90_L1PFL1
UniRef90_U5BV63
UniRef90_UPI00039D7747
UniRef90_W7SC20
UniRef90_G9YGJ0
UniRef90_E2MWI3
UniRef90_E7MP32
UniRef90_D3DK27
UniRef90_UPI0003F6D3F7
UniRef90_V9G4Z4
UniRef90_UPI00041739AC
UniRef90_B7IDK7
UniRef90_E4N7N1
UniRef90_F2N9J8
UniRef90_G9ZBV9
UniRef90_UPI00046C91E9
UniRef90_G4FCA6
UniRef90_M7ADF1
UniRef90_S4XE44
UniRef90_W9AH81
UniRef90_E5Y3L2
UniRef90_UPI0004790D10
UniRef90_A4C200
UniRef90_M1ZR7
UniRef90_E8RN02
UniRef90_UPI00045E7066
UniRef90_H5XAQ6
UniRef90_U9VQP3
UniRef90_W5WQQ1
UniRef90_Q2J842
UniRef90_X0Zfq1
UniRef90_X4R7N9
UniRef90_UPI00041BDB17
UniRef90_K1Z9V2

170 180 190 200
L V G N I G P D T F G R D D N A L L L V D E A G G T T E L P R D G S K A L A V A
L A V N A V G T D Q G F G D V P N A V V L D A K E A K E L P S K A M T K K A E E V A
I V A N D V K V E G A G F G G T D T N V V T L T T A A G A K E L P S K A M T K K A E E V A
I V A N D V S R A D I G F N S D A N T V T W L D N G S R E V I P L T T K K Q N L A
I V G N I G P E T F G S D L E N Q L L V I D A N G S K K I A K A K K T Q L A
I I A N N V S T D S T F G S D L E N Q L L V I D A N G S K K I A K A K K T Q L A
L V I N R V G W T E G F A S D R N T V I V I N K L G D R V V G E A G S K L S V A
L M C N D V G A G A K V F G A Q Q A N T S G W M V F T A E G P Q S L G P L P K D L E V A
L L V N D V Q R G R A F G A Q A N T L T P I T A E G P Q S L G P L P K D L E V A
M V A N D V S E V D A G F G S D Q N K V V L I D D E I W D I P L S T K K E I S
I V A N D V S D Q T I G F G N T D R N Q V T L T K R S G D R P L E R Q S K I G V A
I V T N P V D L P D S G F G S D R N Q A V M L T K R S G D R P L E R Q S K I G V A
I V A N E V G A N K T F G K D D D E T W L V T E S G A E H I D P A S K T E L A
L V A N D V S Q A G S V F G G S D E R N T V H L V F A D R V E H A P C A M L T H V A
M I A N D V S H A G S S T F G S D T N K V S Y V F A D R V E H A P C A M L T H V A
L M C N E V G D G K V F G Q R S S Q G W L L H P E G V T E I P F G S K L E V A
I T A N P V K V L S K D I Y E G Y I L F K D G K I E I K A E S K S R A S
L V A N G A G V L G G D E G T F M L M D R E G R H P F V G S K S Q L S
L M C N D V S G G A T F G S E D N V G W L L S S D G E S V E V P E G T K H S V A
I V L N S M R Q E G A G F G V D T N K V N L F F E A G S S E S T V L P K E D A V A
I V A N D V G A G T G I M G S A E N E V V L I T E A G A E P W P R A G K T E V A
L V V N H V G T D K V F G Q D T N S V V L A R S G S E P Q E T A G T K T D E V S
I V A N D V S Q A G A V F G K G T T N T L H L V F P D G S I Q S L E T L P K S E L A
L V A N D V S A E G A G F K G T T N T L A T L L F P D G S I Q S L E T L P K S E L A
I V A N D V S G D V M G G D A N T V H I V M A D E S V S L P E M P K K G D L A
I V A N D A S N M Q K S T N E I Y I G K L K S L P E K K K E E L A
V V A N D V T K G A G F G S D T N V S I I T P D G K R D S G V M E K S K I A
I L A N D V S P A T G I M G G T E N A V T L I T A E G S E T W D R A G E K D A V A
I V A N N A V E T I G S N E S S L L L D D E G T H Y L P E K A N K N T Q A
I Y V N N V S N G A V F G S D F T Q G L I L D R E N N V I K V P E I S K D T L S
I I A N N V G D K S I G F S S D D N D Y T M H F A N Q E V I L G K D T K I S L A
L V V N Q V G E G R A F G T P D N A A T V L V A G G E V E V P L G P K E D A V A
L A A N S I D L P D S G F G S E T N Q L V F I D K E G R Q T I P M A P K L A I V A
L A V N T V G A T S G F G D V A N E I H V L D S H G Q Q V H S A G S K L Q V A
I T A N S V A G N G A F G S D L N N Q V T I L Q L G T E V Q W S R M T K T E V A
I V A N Q V A G K G L G F E S D N N Q V T V I T K K A Q F E L P L T H K T R L A
I V A N D V S G G D V M G G A E N T V H I V T E S G V I E D W P R L P K P E V A
I V A N D V S G P G T G V M G G A T R N T V H L V T G E G V I E D W P R L P K P E V A
I A A N A V D S Q Q T G F A A D T N Q A T F I N D A G V V Q V T P L C S K L E L A
L V A N D L R E P G A G F A T D T N V V T I L T P A G T E R L Q Q M P K T Q L A
I V A N D V S P A T G I M G G S E N A V T I L S D D E G A E S W P R A T K D Q V A
L A A N L V Q E T I G S E D T L T L F D G A G R H H L P R A Q K I E Q A
I V A N D V S R S D I A F G S D D N E V I L I Y A N G R E K I N K A S K E E I A
I V L N S T K D E G A G F Q L D T N K V R L F R E D G S V I E S G V L P K T E V A
L V I N N V G W R T G F S T D D N E V V L D D G H G D I V M E A G A K A S V A
I I A N Q V G N G M G F E S D V N Q V T V I T K N K Q I E L P L T H K T R L A
I A A N V V G A G R G I E T A D N A L L S V F W H G G Q H E L A R A D K A T L A
L V G N I G P A T F G Q D D N A L L L V Q A S G V Q V E L A R E S K I N L A
L V V N P V G S G K A F G T E D N T G W L L S A A S G T E T L P L T S K T L L A
I V A N Q L T M Q S G A G F S T E T N Q I V K I I E A D G R I I E Y P K L L K S E V G
L V A N Q T S M S M G K T T I T I D D E N E I S F P E T D K R Q A A
I L A N D V S P A T G T F G G D R N T L H L I T A D G M E D W P T L D K
I A V N D V S D K T I G F G S E N A M T V F F A E G P Q N L P K A H K S K I A
I V A N A V G K G V G F E S E I N Q V T V I T A E S K Q I K L S L T H K T R L A
L V G N I G H L T F G K D D N E I V L F D D E G R H P L P P G D K A S L A
V V L N S L R D A G A G F R V D T N K V L L D A D G E I F E V K L K A A V A
L V V N D V D R G S K A F G S P D N A V I L G A D G E T P V A R G P K A V L S
L A V N A V G A D I G F G D V P N Y V Y V L N Q E G S V V T G G G T K A D V A
I V L N S M K D A G A G F K H D T N K V T L F F A D T G N Q T S K V L P K D Q I A
L V V N A V G E G R A F E T E D N A G W L F F A D G N T P I P F G S K A R L A
L V V N A V G D G L A F E V E D N A G W L L S P E G E R P I P H G S K A R L A
L V A N D V S A E G A G F K G T N I A T F L Y A D G T E P L A L M S K D A L A
L M C N D V S G G Q T F G A T D N V G W L L S L D G E Q D V P R G S K F S V A
I T A N S L R E P G A G F G V D T N I V K I I S P T S V I E D L G L L S K D D T A
L I A N P L E V M D R D F H E G Y I L Y A D G R E E I E F G D K V T S A
M I A N D V A V E G A G F G S D K N E V I L D G N V L T V P L T S K S E I A
L V A N D V S Q E G A G F R T E T N R V Q I Y D A K G V L D L P L M A K E E V A
I A C N D V S R A D I G F A S D D N A M Q V F F A E D A V V L D K A S K N K I A
I I S N D A N K V M G S D F N S A M F L I S K D K V I Q L E G S K E K V A
L V V N E V G D G K A F G Q D T N S A V L L G A D G T E V I A D G P K D I L A
I V A N D V A L A G S G F N Q D M D R A W W V G R A G V C D L G F G S K R D L A
I I A N D V S G D V F G A D D N S A T L I S A R E R I P L P R Q S K S A L A
V V L N D V S D G R V F G A A T N S V T I L D S N G T V S F G D V A K E Q V A
I V A N D V S Q A G L G F G S D Q N A A W L L W R T A E R A E A P Q P K T Q L A
L V V N A V S G N G K A F G T E D N T G W L L S S G G E E T L P P G S K T L M A
L M C N A V G D G L A V F G Q D S S S G W L L T A E D V I T E V P A A S K L V V A
I T I N N V A A Q G A G F E G D T N M V T Y V N K G S D R E E W A L A T K T E V A
I V G N L L Q D G F G T A D N T V F V A D A S G R E E W A H L S K T D V A
L V L N D V G Q G R V F G K D E T A V T I L G A D G S E P V T V G S K R E V A
I I L N C L Q D K G A G F A T D T N K I T I I D Q N N T I N F E L K S K L A V A
I V A N N V K R K D I G F S E Y N E V I V I G N S F V R K L E K N Y K T I I A
I L A N D V S K D V F D R D T N M I L I D A S G P T A G K H L T K A E V A
L V V N A V G G G R G F G G V D N D V T I V D E H G Q Q V A V A A G S K D V V A
L V V N A V G E G K A F G T D D N T G W L L S Q Q G W R I P L G S K S R L A
I V A N P V D Q P E S G F G C D R N Q G I F L D H Q G Q T T L A S T K L R M A
L V A N A V G Q D K V F G Q K V S G W V L P Q D E Q E I P E A S K L V V S
L V V N E V G A G L G F E V E H N A A V V L D R G G E T A I E H T S K D L L A
V V A N D V A R P G A G F G S E T N D V I V T S S G S K V M R A T K V E I A
L V I N R V G F D A G F G S E T A V T I V D G Q G A T V A Q A G T K R E A A
L V L N A V G E G A G F E S E H T A G W L T A D G G R R I P L G R K S E L A
I I A N K V G S G L G F D S D D N E V V I L H K N G S V K F P K M R K N K L A

UniRef90_A0A024IEQ3 R R L V A E I A R R L
 UniRef90_C5C693 R G L V D L V A A R L
 UniRef90_R5W466 V E I F N E I V K
 UniRef90_UPI00045E9197 R H L V A R I A A E L S
 UniRef90_A0Z2T7 K L L M M R C S K R L S
 UniRef90_A4SZP1 R Q L T Q L V A K K I S
 UniRef90_D4YR.J4 D K I V N L L Q K S L
 UniRef90_A4AJT6 H R I L D L V
 UniRef90_L1MGH9 A Q I M D E V V E L M
 UniRef90_UPI00041BE458 R A V V Q W W A R R L E S
 UniRef90_U6EF56 A L I M D K I A E K I N
 UniRef90_D4YJ27 V E L L A R I Q D E L K
 UniRef90_K9UMA2 H Q I L D G L
 UniRef90_R6H6W6 H V I L D K A L S M
 UniRef90_V5SCE5 A A L I G R A A R Y L A Q
 UniRef90_E1LOF2 H D I F T H I V I A
 UniRef90_F8E2Z4 A R I W D G I E S L
 UniRef90_B2VA89 Y L I L D S I F N K L
 UniRef90_K2D3F1 Q Q L G D K L V Q L L K
 UniRef90_UPI0003FD213F
 UniRef90_K1L016 Q L I L L E
 UniRef90_F01ZA8 D R L A E R I S G I F Q
 UniRef90_F0M1Z0 A A I I S R I
 UniRef90_B5JKI8 Q A I L L T W I
 UniRef90_G0VRU4
 UniRef90_A0A031JYR0 R A L V E R I A D A L A E
 UniRef90_C3WE02 Y D I L M N I
 UniRef90_R5FH21 N V I L D K I Q E
 UniRef90_X7FDH3 A R L A H R L A D A L E A
 UniRef90_Q82UM0 R L V M A H I A H L Y D K R
 UniRef90_UPI000362B45B D L L L D Q L V S K L
 UniRef90_U1FTQ5 A K I L D A L E T R W Q
 UniRef90_UPI0004771073 D A V W D L V A L R L
 UniRef90_K9Q5Q8 H H L L D F I K Q L
 UniRef90_G9PE68 R D L V E L I A Q R L S
 UniRef90_C2EW80 I K L I Q L L A T K I K
 UniRef90_UPI0003651AB0 G Q I I A I M A V T L Q
 UniRef90_D5RLD1 A R L A T R I A E F F
 UniRef90_UPI0002EFD2B6 R R L V A R I A A A M P K
 UniRef90_K9SIX6 H R L L D
 UniRef90_UPI00042382C9 V E I L L R R L A
 UniRef90_S9QP2
 UniRef90_UPI0004694E75 R R L I K H I S L L Q E K Q K
 UniRef90_UPI0003B79F95 F E I L R R L I
 UniRef90_M7XDW6 K L I L E E I K K L
 UniRef90_UPI0003B59027 D R I L D V I
 UniRef90_G8UX62 G Q I I A I L A A S L Q
 UniRef90_T0Y622 R E L V T L I A A R
 UniRef90_Q21V40 R K L I A H I
 UniRef90_G7H5C5 S R I L D S L A P L L S Q R
 UniRef90_E0E4G7 D I L L D K V R D L L E N K
 UniRef90_UPI0002D82FD2 D N I V K H L A A R L N
 UniRef90_K9H314
 UniRef90_L0WKI6 E Q L V A C V V K L M N Q K Q
 UniRef90_G9ES28 G Q I I A L L A A T L H
 UniRef90_UPI0004634A46 R R L I E E I A R R
 UniRef90_UPI000401B1B2 H D I V Q A V L A R L
 UniRef90_UPI00035E49C3 D A I W D L A L A R L
 UniRef90_L1PFL1 R I L I D L I S Q R F D
 UniRef90_U5BV63 E L I L S G I K S L
 UniRef90_UPI00039D7747 A A M W D A V A D L L
 UniRef90_W7SC20 A T V W D A V V I P L L
 UniRef90_G9YGJ0 A E I T K R V A S I C E K K R Q
 UniRef90_E2MVI3 G S I L D A V S E L R Q E
 UniRef90_E7MP32 K E I L R H C L K K
 UniRef90_D3DK27 E L I V K K V I N G L L S K S
 UniRef90_F6D3F7 Q R I L D K I L L E N L
 UniRef90_V9G4Z4 E Q L L K L A A E R L G R R S
 UniRef90_UPI00041739AC E Q L T T L I G Q T L A K R
 UniRef90_B7IDK7 K D I L T N I I
 UniRef90_E4N7N1 D A I W D Q V V A R L P R H S
 UniRef90_F2N9J8 F E I L R R
 UniRef90_G9ZBV9 E T L L D H I R A A Y S H
 UniRef90_UPI00046C91E9 H E L L R V V A E R L S
 UniRef90_G4FCA6 A T I I H Q A L L A L L S
 UniRef90_M7ADF1 S R I L D E I R T L
 UniRef90_S4XE44 S H I L D A L D E L F
 UniRef90_W9AH81 K S I I Q L I L R D M K D E D
 UniRef90_E5Y3L2 W R L L S W L L S R
 UniRef90_UPI0004790D10 D A V V T R V A E A L
 UniRef90_A4C200 E D I M N E I V L R
 UniRef90_M1IZR7 R E L L D L V
 UniRef90_E8RN02 A D L I Q Y L T T R L K
 UniRef90_UPI00045E7066 H A V W D A I V P L L K
 UniRef90_H5XAQ6 A T V W D A V G E L M R Q
 UniRef90_H5XQP3 H H I Y D
 UniRef90_U9VQP3 V A I W N A I A D N L
 UniRef90_W5WQQ1 H R I L D L V V I G L T A D R
 UniRef90_Q2J842 K A I L D A A M A R L R G R
 UniRef90_X0ZFY1 A A I L N T I V E R
 UniRef90_UPI00041BDB17
 UniRef90_K1Z9V2 R E L I K T I

UniRef90_UPI00029B24D3 1 K P L K G K R I L V T A G A T R E E Y I L D D P V R F F I L T N S S S G K Q G M G V A I A 40
UniRef90_K9AL02 L T G R R R V L V V S A G G T T R E E A P L V D D P V R F F I L T N S S S G K Q G M G V A I A A R
UniRef90_K6V622 W R G R R R V V V S T A G G G T T R E E P L V D D P V R F F I L T N S S S G K Q G M G V A I A V
UniRef90_C7NHE9 G P W A G R R R V V V I T S A G G G T T R E E P L V D D P V R F F I L T N S S S G K Q G M G V A I A A R
UniRef90_M5TWU1 N L Q G K N I L V V T S S G G G T T R E E Q L L D D P V R F F I L T N S S S G K Q G M G V A I A A R
UniRef90_UPI000299FCAC G P L R G R H I V V V T S A G G G T T R E E P L V D D P V R F F I L T N S S S G K Q G M G V A I A A A
UniRef90_N0E3F8 Q D L V G T R V V V V T A G G G T T H E E L L D D P V R F F I L T N S S S G K Q G M G V A I A A D
UniRef90_B1VDN6 D W S G L K R V V V I T A G G G T T Q E E L L D D P V R F F I L T N S S S G K Q G M G V A I A A R
UniRef90_D5NV72 L A G K R V V V I T A G G P T V E E L L D D P V R F F I L T N S S S G K Q G M G V A I A A R
UniRef90_UPI000418C2F1 L R G R R I I V V S A G G G T T K E E S L L D D P V R F F I L T N S S S G K Q G M G V A I A A N
UniRef90_C5F3U3 L S G K K L L V T T A G S T T R E E S L D D P V R F F I L T N S S S G K Q G M G V A I A A N
UniRef90_UPI0002490551 K D L A G L R M L I T A G S T T R E W E Y F D P V R F F I L T N S S S G K Q G M G V A I A A G
UniRef90_F81T0 R D L Q G L K L V V T A G G P T R E E F M D P V R F F I L T N S S S G A M G M G V S I A N R
UniRef90_H2C6C4 D D L A G R H I V V V S A G G G T T R E E P L D D P V R F F I L T N S S S G K Q G M G V A I A A R
UniRef90_UPI0002DEF0D3 G D L A G R R V V V V T A G G G T T R E E P L D D P V R F F I L T N S S S G K Q G M G V A I A A Q
UniRef90_U7F6V13 W Q D K R V V V I S A G G G T T Q E E L L D D P V R F F I L T N S S S G K Q G M G V A I A A E
UniRef90_U7KQE4 L A G R R F I S S A G G G T T R E E P L D D P V R F F I L T N S S S G K Q G M G V A I A A E
UniRef90_UPI0002D3F4D6 L A G R R F I S S A G G P T R E W I L D D P V R F F I L T N S S S G K Q G M G V A I A A E
UniRef90_S3VAR5 L K D L K I L I S A G A T T S E E N I D D D A R I L I T N S S S G K Q G M G V S I A I A N
UniRef90_B6BV46 L K N K K I L I T A S R T T R E E S L D D P I R Y F I S N S S S G K Q G M G F N I G I
UniRef90_B5RN06 Q D F K A K K V I T V G A T T V E E I D D G V R Y L G N R S S S G K Q G M G F A I A I A V R
UniRef90_D2ANV1 L A G R T V L V T A G G T T R E A I D D P V R F F I L T N S S S G K Q G M G F A I A A L
UniRef90_E3B6Z9 L L G K K I L V T A G P T Y Q E S I D D P V R F F I L T N S S S G K Q G M G Y A I A A L
UniRef90_UPI0003665AE5 N V L I T A G P T T Q E S I D D P I R Y I T N S S S S G K Q G M G Y A I A A R
UniRef90_V9R7Y8 L H T K R V L I T A G P T T F E A I D D A V R G I T N S S S S G K Q G M G Y A I A A Q
UniRef90_Q2Y741 L S G K K I L I T A G P T T F E P F D P V R F F I L T N S S S S G R Q A A I A A A
UniRef90_I0XT18 L S G K K I L I T A G P T T F E P F D P V R F F I L T N S S S S G R Q A A I A A A
UniRef90_R5E8N3 H I L I T S G P T T R E Q Y I D D P V R Y M T N G S S S S G R Q M G S T I A A A
UniRef90_A4A1G9 N V L I T A G P T T C E K I D D P I R Y I S N S S S S G K Q G M G Y A I A A E
UniRef90_Q5FDB6 N L K F K R V I V T A G P T T R E W I D D P V R F F I L T N S S S S G K Q G M G Y E I A A K
UniRef90_UPI0001WBC5 L K G R R V V V S A G G P T R E E Y I D D P V R F F I L T N S S S S G K Q G M G Y E I A A K
UniRef90_B6BRH1 L A G R R V V V T A G G P T R E P L D D P V R F F I L T N S S S S G R Q M G V A I A A V
UniRef90_S3X0C0 L K N K R I L V V S A G G P T C E R P L D D P V R F F I L T N S S S S G K Q G M G T A I A A R
UniRef90_U7D6R9 H D L T G R H V L I S A G G T T R E A L D D P V R F F I L T N S S S S G K Q G M G Y A I A A R
UniRef90_B5GBJ9 G P L N G R K I I V T A G G P T H E R F V D D P V R F F I L T N S S S S G K Q G M G F S I A A Q
UniRef90_X0VFS5 L A G R R V I V T A G G P T H E R F V D D P V R F F I L T N S S S S G R M G H S I A A A
UniRef90_I4B296 Q D M A G R R V M V T L G P T T R E G W D G V R F W S N P S S S G L M G A A I A A V
UniRef90_B8J2H3 S L R G R H I L V T A G G P T H E R F V D D P V R F F I L T N S S S S G R F G F L E I A A V
UniRef90_UPI0003F5115F G P L A G R H I L V T A G G P T H E R F V D D P V R F F I L T N S S S S G K Q G M G F I A A G
UniRef90_UPI0002488592 K T L E G K R V L I T A G A T R E E Y I L D P V R F F I L T N S S S S G K Q G M G V A I A A E
UniRef90_Q9V0S3 L E G K R V L I T A G A T R E E Y I L D P V R F F I L T N S S S S G K Q G M G V A I A A E
UniRef90_R6YUW5 G D L K K L K A I V T A G P T N E Y I D P V R F F I L T N S S S S G K Q G M G Y E I A A K
UniRef90_J9YYL8 K T L R G Q R V L I T A G P T T W E A I D D P A R F G L I S N R A S S G R Q Q G F A I S Q
UniRef90_F8XR35 M K Y S K L I I S S G P T R E W I D D P V R F F I L T N S S S S G K Q G M G F C H I A E
UniRef90_S3VMF5 L D G Q R L L V T A G G T T R E A I D D P V R F F I L T N S S S S G R Q M G C Y A I A Q
UniRef90_UPI00040CB513 L A G K K I V I T A G G T T S R E A I D D P V R F F I L T N S S S S G K Q G M G V A I A K
UniRef90_Q0421 D L C G I K L L V S A G G T T R E A I D D P V R F F I L T N S S S S G K Q G M G Y A I A R
UniRef90_Z5X907 K Q L E G R K V L I T A G P T T Q E P I D D P V R F F I L T N S S S S G K Q G M G A A I A R
UniRef90_W5X504 L A G R R V V V T A G G P T Y E Q I D D P V R F F I L T N S S S S G K Q G M G Y A F A K
UniRef90_UPI0002FA8343 D L A G R R V V V S A G G T T R E P L D D P V R F F I L T N S S S S G R Q M G V A I A A R
UniRef90_UPI0002FA8343 D W R G K R V L V S A G G P T R E P L D D P V R F F I L T N S S S S G R Q M G V L A A Q
UniRef90_A5GIL2 R P L T G R T V T I T A G G T T R E P L D D P V R F F I L T N S S S S G K Q G M G V A I A A
UniRef90_UPI00047EEF18 R T L A G R R V V I T A G G T T R E P L D D P V R F F I L T N S S S S G K Q G M G V A I A A
UniRef90_UPI0004150EB5 L T G K K V L I T L G A T T I E A I D D P V R F F I L T N S S S S G K Q G M G M A L V N
UniRef90_A1AX65 L A G K R V V I T A G G T T F E A I D D P V R F F I L T N S S S S G K Q G M G Y A I A R
UniRef90_UPI00037E08AA L S G R T V V V T A G G T T R E P L D D P V R F F I L T N S S S S G K Q G M G V A I A E
UniRef90_UPI00010PKE6 W Q G K R V I I T G G G S K E A I D D P V R F F I L T N S S S S G L Q A S A L C L
UniRef90_D3UJ74 L A G R T V V I T A G G T T R E P I D D P V R F F I L T N S S S S G R Q G L A I A S
UniRef90_J3EGD9 L V G A R I L V T A G G T T R E P I D D P V R F F I L T N S S S S G R Q Q G I E I A K
UniRef90_N6W5W5 G P L A G R T V V I T A G G T T R E A L D D P V R F F I L T N S S S S G K Q G M G V A I A R
UniRef90_UPI00035D828B Q D L A G K R V V I S L G G T T R E A L D D P V R F F I L T N S S S S G R M G R A I A Q
UniRef90_D4HE00 L A G R R V V I N A G P T V E W D A V R V L G N R S S S G T L G R A I A A Q
UniRef90_UPI00036A5F1A D L A G W K V L V S A G G T T R E P I D D P V R F F I L T N S S S S G R Q G F A I A A
UniRef90_C7M0V1 R D L E G R H L L I T A G G T T R E E L D D P V R F F I L T N S S S S G R Q G F A I A H
UniRef90_UPI0002629FE1 T G S L E G R H V V S A G G T T R E P I D D P V R F F I L T N S S S S G R Q G M G C A I A A
UniRef90_F3PAS0 L A G L N V L I S L G G T T F E E I D D P I R G I S N R S S S S G K Q G M G L E I A K
UniRef90_D3E0B5 D L A G L H V V V S A G G T T R E P I D D P V R F F I L T N S S S S G K Q G M G F A I A G
UniRef90_C7Q835 K D L E G K R L L V T A G A T T F I D D V R F F I T N S S S S G K Q G M G I A M A N
UniRef90_UPI00037CE96D N D L K N K S F L V T G G A T T E K I D D S A R M I T N N S S S G E M G L V L A Q
UniRef90_UPI0002F735F9 R D W Q G R R L L V S A G P T R E A L D D P A R C Y L T N S S S S G R M G V L L A Q
UniRef90_K9P6J9 N K Y K N I K F T I S S G A T T K E W I D D P I R Y I T N T S S S S G K M G S S I A Y E
UniRef90_D5UAN0 T R D W S G R S L L V T A G P T V E A L D D P A R I V S N R S S S S G R M G V M L A Q
UniRef90_Q0ID88 D M K G L R V L V T A G A T T S E R I D D S V R F V T N S S S S G T M G V E I A I
UniRef90_D9Q044 R D L L N K E F L I T A G G C T S E N I D D A A R K I T N N S S S G T M G L M L A Q
UniRef90_Q7V359 W E D R Y V I V T G G G T T K E H I D D V R S I T N E S S S S G K Q A C A L A T
UniRef90_A6Q404 L A G L R V V V S A G G T T R E P I D D P V R F F I L T N S S S S G K Q G M G F A M A K
UniRef90_UPI000469D024 G D L A G L R V V V S A G G T T R E P I D D P V R F F I L T N S S S S G R Q G M G V A I A L
UniRef90_UPI00037A7B6F W Q G R N V I I T A G G G T T R E K I D D D V R F F I L T N S S S S G K Q A S A I A L
UniRef90_D1B227 L A G K R V V I T A G G P T V E A I D D P V R F F I L T N S S S S G K M G F A I A R
UniRef90_Q4FQM7 N D L A G R R V V I T A G G A T T A E R V D D P I R I L L T N R S S S S G K T G G A E I A L
UniRef90_G7WNL0 L A G L R V V V S A G G T T R E P L D D P V R F F I L T N S S S S G K Q G M G Y A I A A
UniRef90_H5UV06 D L A G L K V M V T A G G P T R E Y M D P V R F F I L T N R S S S S G K M G Y A I A S
UniRef90_D8EWK1 L A G R S V V V S A G G T T R E P I D D P V R F F I L T N R S S S S G A M G V A I A S
UniRef90_U1MUE5 K D L L N K E I L I T G G C T S E K I D D A A R Q I T N K S S S S G A M G L L L S Q
UniRef90_B9NZV0 K E M K G A R V V V S S G G P T Y E N Q I D D P I R F I S N K S S S S G R M G L E I A L
UniRef90_O28628 W K Q A R V C V S G G G S K E N I D D A V R F F I L T N S S S S G K M G A C I A L
UniRef90_C3XKQ3 R D Y A G L R V L V T A G P T R E W I D D I R F I S N P S S S S G L M G Y S V A G
UniRef90_G0EFA4 Q T L T G E K V V V T A G A T T S E R I D D P V R F F I L T N R S S S S G K T G R A V A R
UniRef90_J3A4I7 D L K N R R I L V T A G P T R E Y L D D P V R V I T N R S S S S G L M G V L I A R
UniRef90_B8D3H7 P L A G R H V V V T S G A T S E S L D P I R V L T N R S S S S G R T G R E V A K
UniRef90_Q3ISV7

	50	60	70	80
UniRef90_UPI00029B24D3	E A E L R G A E V V T L L V	R T R S S V I P S F S V I E R L E V I D T V E E M M N A L E		
UniRef90_K9AL02	A A H A A G A S E V V T L L V	A A H V D T D L P P A D R G V I S R V L V P I V E S T L E D L Q E A M E		
UniRef90_K6V622	E A A R R L G A S E V V T L L V	A A H V D T D L P P A D R G V I S R V L V P I V E S T L E D L Q E A M E		
UniRef90_C7NHE9	A A R D L G A E V V T L L V	S Q A A V E V V P A P E S R V V E A V E S A A E L E M K E A A V D A		
UniRef90_M5TWU1	A A L K R G H D V V T L L V	S G P V A V D Y P P S G A V E V I P I V E V T T D D M L R V A N		
UniRef90_UPI000299FCAC	V A A A R G A R V T T L L V	T T S E L D L Q L P T P P A A G V E S V R P I V E T A L Q E L R A T M L		
UniRef90_N0E3F8	A A A Q R G A R V T T L L V	A G N T D L H T P P S G A E V I N I V L S T Q Q E D L Q T E M E		
UniRef90_B1VDN6	V A A Q R G A R V T T L L V	A G N T D L H T P P S G A E V I N I V L S T Q Q E D L Q T E M E		
UniRef90_D5NV72	I A A Q R G A R V T T L L V	A G N T D L H T P P S G A E V I N I V L S T Q Q E D L Q T E M E		
UniRef90_UPI000418C2F1	A C V A A G A D V V T L L V	A G K V A L P T P L N V T R I D V L S A Q S Q E M L I V A Q		
UniRef90_C5F3U3	A A A G A G A D V V T L L V	T T R Q L P V V P G V T V K Q V V E S A Q S M A D T I D		
UniRef90_UPI0002490551	A A Q E A G A D V V T L L V	A G Q L D S E I N T S S L N L L R V V E S T A E E M M A K A V E		
UniRef90_F81T0	Q A V R R G A E V V A V V V	A G P G V T P L T E R T G L V V V S A E E M M A K A R A L		
UniRef90_H2C6C4	E A Q F R G A D V V F L V V	H G P L S G K V K S F V K N V E V V Q T T E E M M L S A V K		
UniRef90_UPI0002DEF0D3	T A A A R G A R V T T L L V	S A N S A L A D P A G V D L V R V V G S T A E E L R T A V T		
UniRef90_F6FV13	A A R D R G A D V V T L L V	A A N S L E A A A T A P A E V V V R D V E S T A E E L R D A V R		
UniRef90_U7KQE4	W A A Q K G A Q V V T L L V	A A N T A L P L P S G A K V R H I V I S T T R E L L E E A M H		
UniRef90_UPI0002D3F4D6	A A H R F G A E V V L L V	A A A N V D P E S Y P S G A L D I R E V E T T A Q L E S V C R		
UniRef90_S3VAR5	S A S D W S D N I V Y I	A R G L T Q D E S Y P K G A R V I S V E T T S Q E M Q Q A I L		
UniRef90_B6BV46	E A F D L G A E V T L L V	K G K T E V L P H K G T K I I E A N N H E E M E Q N I V L		
UniRef90_B5RN06	E A Q N L G A N V T I I	K G P S T N E E T P Y G I N V I R I K T A A D D M Y T A C H		
UniRef90_UPI000299FCAC	E L L A R G A S V V V L V	K A K T T N E S F H P N L E I I N T K S A A D D M N Q A M L		
UniRef90_D2ANV1	A A A D R G A D V T F V	T T M Q P P A D L A Q V R V V S V T E S A L Q M R D A V L		
UniRef90_E3B6Z9	A A A T E G A D V V L L V	S G P T H L K H H E R L K V V H V T N S Q N E M L Q T C I		
UniRef90_UPI0003665AE5	H M N K I G W K I N L V	S S G P V T I L K S H N I Q N I F H V V K N C Q N E M L Q T C I		
UniRef90_V9R7Y8	A A A E A G A E V T L L V	S S G P V L E A P P R A R L I K V V T S A Q D M L I A V K		
UniRef90_Q2Y741	E A T Q I A K A E V T L L V	S R G L T E P K Y S P K G A R V V I K V R Q A Q E M F E A V K		
UniRef90_I0XT18	A A I R A G A E V T L L V	S S G P V Q V D Y P P D K A A V I V V R Q A Q E M F E A V K		
UniRef90_R5E8N3	A A I A A G H D V T I I	S S G P V Q V D Y P P D K A A V I V V R Q A Q E M F E A V K		
UniRef90_A4A1G9	H M N K I G W K I N L V	S S G P V H L K G Y N I E N T I Y V N T A H E M L Q A C I		
UniRef90_Q5FDB6	S F L L Y P V E V I Y I	H G N T L E R Y P G A K L N I E V E T T L Q L R D A V L		
UniRef90_N1WBC5	S L F K K G F D T T L L V	S G P T N L N I D E D I K L I K V E T A N Q M L V A T Q		
UniRef90_B6BRH1	A A H R L G A D V V T L L V	S A N G A E V L P A A V E L V P V G T A S R Q E L E D A V R Q		
UniRef90_S3X0C0	A A L Y L G A D V V F I	H G P Q R E Q L P A G C C C V S V T T A A Q E M H K A V Q		
UniRef90_U7D6R9	T A A A R G A R V T T L L V	A A H T D L A A P A G A D V V P V S T A A E L R E A L L		
UniRef90_B5GBJ9	A A I D R G G S V V T L L V	A G P V A L P V T P V I G A R R L D V T T A D E M F E A T Q		
UniRef90_X0VFS5	A A V A T G F E V V Y I	A G P V A L P V T P V I G A R R L D V T T A D E M F E A T Q		
UniRef90_I4B296	C A W L R G A E V T A V	C G P V R A R M P Q G A R R D V V S A R D M F A V A A		
UniRef90_B8J2H3	A L L E R G A Q V T V L	A A H V S R D T P G A E V I P V S S A R D L H E A V L		
UniRef90_UPI0003F5115F	A L A A L G A R V T T L L V	S G P V T L P T P A G V N R D V E T A R E M A A A V D		
UniRef90_UPI0002488592	E A E F R G A E V T L L V	R T R G S V K S F V E N Q I E V E T V E E M L G A I E K		
UniRef90_Q9V0S3	I A M R R G A D V T L L V	S A P T S L E P A P L F V D V I P V V S A Q D M F E A V K		
UniRef90_R6YUW5	S L S K K G F N T T L L V	T G P T R L E I D E D I N L V I R V E T A E E M F K A T L		
UniRef90_J9YYL8	A C A E A G A E V L L I	T G P T H E Q T P P G V S R L D V L S A R D M L T A C L		
UniRef90_F8XR35	E A L R R N I E T V Y I	R G L T Q A E Y P K G A K L L S V E T T E S M K D A V L		
UniRef90_S3VMF5	A I S K W I P E V Y I	H G Q E N Y K I P K G T K Q V S V E T T S D L C G A V L		
UniRef90_UPI00040CB513	A G L E M G A S V T L L V	T A N T S P A L L P R L T I E A V T A A D V E R E T L		
UniRef90_Q04211	A A L V A G A E V T L L V	S G H L A V L P P S L K N I K V E T T E Q M F S A V K		
UniRef90_Z5X907	V A A Q R G A D V T T L L V	A A N T A L A D P A G V H V L H I T S A E Q L H E A V T		
UniRef90_W5X504	A A L L M G A E V T V V	S G P A R A A L P L Q A N L V H V R T A Q E M L I E A G L		
UniRef90_A6LMK4	V A K R M G A Y T T L L V	S G P N T K P P P Y F I N F I K V V T A N E M Y N E I I		
UniRef90_UPI0002FA8343	A A A A R G A Q V T L L V	A A N T D V P P A G S E V V R V G T T A E L R D A V R		
UniRef90_UPI0002FA8343	A A R F R G A D V D L L V	H G P L T V P W L E G L H C L P A F S S A A M E V C L L		
UniRef90_UPI00047EEF18	A A L A A G A T V R F I	A A H M D V Q P P D G V E L T V E T A A E L R E A T L		
UniRef90_UPI0004150EB5	A A L A A G A E V T L L V	A A H L E V P A P A G A G V V A V E T A L E L R E A T L		
UniRef90_A1AX65	A C I E M G A S V T C I	Y G N I T T I L N P K S N N I P I T S A Q Q M H T K V M		
UniRef90_UPI00037E08AA	A A A E A G A E V C L I	S G P T C L A L P A G V R R V D V Q S A A E M L R D A V L		
UniRef90_UPI000410PKE6	T A A A A G A Q V H L I	A G L M D V Q A P E H I T V E R A O L E M L Q R A V Q		
UniRef90_D3UJ74	G L F F Y G A E V H F I	S S A F P T P L P Q G I F C I E A Q S A R E Y H Q A L Q		
UniRef90_J3EGD9	S A A R A G A S V R V I	A A N V E A T L P A V Q Q V T R V G S A L Q M R E A T L		
UniRef90_N6W5W5	S A F A A G A Q V T L L V	A A N V E S E M D P Q I E V V P A H S S S D V E E A V M		
UniRef90_UPI00035D828B	A A L A A G A R V R F I	A G S M S V P V P S E G V E R V H V E S T A E L L A V L		
UniRef90_D4HE00	V A A A R G A D V H V I	A A G V D V A I P S S D V Q L T R I D S T E D L A E A M D		
UniRef90_UPI00036A5F1A	Y A A A M G A D V T L L V	A H V G T P R I L G C H V Q R V D V A T A E D M L Q A C E		
UniRef90_C7M0V1	V A A L A G A T V T L L V	T T E D A G P V G E L V E V V R V E R A E E L L A A M R		
UniRef90_UPI0002629FE1	A A L A R G A R V T L L V	A A N V D L E T P P G A E R V D V G S A A E L L A A V E		
UniRef90_UPI0002629FE1	A A A E Q G A R V T L L V	Q A H V A D A L P P G V A V I A A G T A S D M L H A V R		
UniRef90_UPI0002629FE1	E A Y R L G A N L K I L	A A H H E V I P K V F D V I D A K S S S V M S E K T I		
UniRef90_D3E0B5	T A A A R G A R V T L L V	A A N T S L A D P A G V D V V R V S T T A E L R T A V R		
UniRef90_C7Q835	E A Y R R G G K V T L L V	H G E T K A T L N P Y Y E S I Y S E T T L Q M Y Q K V L		
UniRef90_UPI00037CE96D	V A R F R G A K V T Y I	H G P L K I R I D G I E S Y E V Q N G S E L N E L I Q		
UniRef90_UPI0002F735F9	A A R L R G A T V D L V	H G P V D P A W L E G L H C H P V V T A A E M E A A L L		
UniRef90_K9P6J9	E I Y N R G G N S V Y I	E G N T S L N V K G N D K K I I D T T E Q L K E A V L		
UniRef90_D5UAN0	A A R W R G A R V D L I	H G P L Q L P W L E G L S C H P V E S A Q A M E S A L I		
UniRef90_Q0ID88	D A F A R G A E V D V I	H G H V D V K I P H F V N S Y E I V E T T E M A E R M R		
UniRef90_D9Q044	V A R F R G A K V K Y I	H G P N K L D I T E G I N T Y E I L D N T S N D L I Q E I E		
UniRef90_Q7V359	A L Y L K G A K V E L I	T T K P C E N L P K G L D L F A C E T A Q E M Y E L V Q		
UniRef90_A6Q404	I A R D L G A E V T L L V	T T V A A P F G G M N I I Q I Q T A D E M M K Q L K		
UniRef90_UPI000469D024	A A A D R G A D V V T L L V	A A H V E S S V R P A V R V L S A G T A E E L G T V M A		
UniRef90_UPI00037A7B6F	C L Y L K G A N V T L I	S S G E T P L L Q E I N L L H V K S S F E L H H A L T		
UniRef90_D1B227	A C V A A G A D V T L L V	A G K L A L P T P L N V T R I D V L S A E E M L M V A Q		
UniRef90_Q4FQM7	E A R R R G A E V T L L V	H R G R L G L P L K E V V V E S A E D M L R A V L		
UniRef90_G7WNL0	E A L H R G A H V T L L V	T T A S L P D P V G A D V V R V E T A R E L Q D A M T		
UniRef90_H5UV06	A A V Q R G A E V V L L V	S G N T L K P P A G V A F C P V K S A Q E M K A V L		
UniRef90_D8EWK1	A A R A A G A T V T L L V	S G N L H V P P A P A G V E L V E V E T T A Q L R E A M L		
UniRef90_U1MUE5	V A R F R G A Q V K Y I	H G P L K I D K N E G L K R Y E I E T S V D L I K V I K		
UniRef90_B9NZV0	E F W R R G A D V V H V	T S K P F G M S L P N Y K E I R V W S V E D M M K A V L		
UniRef90_O28628	V A Y F L G A K V E F I	S S Q F P F I L P L N L Q T Q A V S T Q E Y L E A I K		
UniRef90_C3KKQ3	E A V D R G A Q V T V V	H G S P T C L E P P R R A L S I R V E T A E E M A Q V A A		
UniRef90_G0EFA4	A C Y I A G A E V T L L V	H D G S A L S E D E D V H Y A D V R Q A E E M L A A V E		
UniRef90_J3A4I7	E L A C R G A R V D L V	H G P M T V K P P Y L V K S I H V E T T S D M D K I R		
UniRef90_B8D3H7	A C Y V R G A D V T L L V	H D G E T V P Y A D V H R V E S A A E M L D A V Q		
UniRef90_Q3ISV7				

UniRef90_UPI00029B24D3 S E L G S Y D V V V 90 M A A A V S D F R V K E K S K V K I K S D Q A L T L E L E P
UniRef90_K9AL02 T A Q A S A D V I I M A A A V A D F R P A E E V G E S K I K K S G D E L E G M Q N P D
UniRef90_K6V622 A A A P G A D V I V M A A A V A D F R P R E Q C A G S H K I K K K M S T G D E L E L T R N P D
UniRef90_C7NHE9 R E F S D A D L L V M A A A V A D Y R P P A Q V S D S K I K I K K S G D E L E L T R N P D
UniRef90_M5TWU1 E V F P S C D G A I G A A A P C D Y R P L H V S S D S K I L K S K T G R P L Q E T P D
UniRef90_UPI000299FCAC S A A V S A D V I V K A A A V A D F R P A D V S D S K I K K K D E I R L E R N P D
UniRef90_N0E3F8 E H F S A D V I V M A A A V A D F R P P A D Y V D T K I K K K G M I R L V R N P D
UniRef90_B1VDN6 Q A A R E A D V V I M A A A V A D Y R P A S Q Q A T S K I K K K E V I E L V E N P D
UniRef90_D5NV72 K H A R D A D V I V M A A A V A D Y R P A S V A T S K M K K K T N D H M T E N P D
UniRef90_UPI000418C2F1 Q C V E G A D V F I S T A A V A D Y R T E E A A P Q K I K K K T Q D A M T K N P D
UniRef90_C5F3U3 A E F T E A D A V I M A A A V A D Y R L P T V S D H K I K K K T D A T S V Q N P D
UniRef90_UPI0002490551 Q N F D A T D A L I M A A A V A D Y R P S V T S Q K M K K I F I N F K E T P D
UniRef90_F81T0 V R L P G M H V V V G T A A V S D F R P A K R A E Q Q K V H K A S W P V E P N P D
UniRef90_H2C6C4 N L V E K Y R A V I L A A A P A D Y R F K T V R E K K V E S H A E V P T V E L E
UniRef90_UPI0002DEF0D3 A A A A D A D A V V M A A A V A D F R P A A Y A T D G K I K K K R A G Q E P R N P D
UniRef90_F6FV13 A A A S D A D V V V M A A A V A D F R P A T A P T A K I K K K V P G Q A P T N P D
UniRef90_U7KQE4 E E A R D A D V I I M A A A V S D F R P A E A A E S K M K K G Q A H L V E N P D
UniRef90_UPI0002D3F4D6 E Q A A E A D L V I M A A A V S D Y R P A Q A S A G H K M K K D T I E L V Q N P D
UniRef90_S3VAR5 N E M A S N T A L I M A A A P A D F R P L S S S E M K I K K E D G A E T I F L E
UniRef90_B6BV46 N E A S N H D T F I S V A A V S D Y K A D H V F Q G K I K K D Q N K L I K T S D
UniRef90_B5RN06 D I Y K E F D I I G T A A V A D Y R P D K I Y K T K I K K N I E E F L N K D
UniRef90_D2ANV1 E K A K D S D I F I G C A A V A D Y R P D K N K F T N K I K K T D D E F I K N P D
UniRef90_E3B6Z9 A A T P D V L V M A A A V A D F R P D H V A D A K I K K T H G E D D V R N P D
UniRef90_UPI0003665AE5 E Y F D A V D V A V A A A A V A D Y R P K D V A P Q K I K K S E S E L E K T K D
UniRef90_V9R7Y8 K L L P V D V A I F T A A V T D W C P A Y S T R K I K K K N I R I T N N P D
UniRef90_Q2Y741 Q Q V Q Q V D F F I S V A A V A D Y R P K N A S E H K I K K N D S N I I V P N P
UniRef90_I0XT18 K E V T S S S L L I M A A A P A D F R P K N A N E S K I K K E E G S E T L V L E
UniRef90_R5E8N3 K E L A E S H D T F I G V A A V G D W R P V E Y S E S K I K K E E G Q D I K N P D
UniRef90_A4A1G9 A E F P R C D G L I G V A A P C D Y R P E R V E G H K I A K T G E H L I E T P D
UniRef90_Q5FDB6 K S L P V D V A I F T A A V T D W C P I Y S P T K I K K T N I H V T H N P D
UniRef90_N1WBC5 S Q I T N D S L L V M A A A P A D F R P I L M T A E H K I K K E K T E L E E N P D
UniRef90_B6BRH1 E N L P A D V A I F S A A V A D F K V N K K F K S K I K K Q D F N L E K N V D
UniRef90_S3X0C0 S A T A K A D V V V M A A A V A D F R P V K Q A D S K I K K H R I E L T E N P D
UniRef90_U7D6R9 A H M S S C D M G I M A A A V G D F C A G D V P S E K I K K Y T L A L E K N E
UniRef90_B5GBJ9 A A A P D A D A V V M A A A V A D F R P A A Y A P G K I K K K D D A E P R N P D
UniRef90_X0VFS5 E S V E N A D V L V M A A A V A D F R P Q G E I A K E K I K K K K D V P E I V L E
UniRef90_I4B296 D H L S G G C I L V M A A A P A D Y K P Q F R S P V K I K K T E N P Q I N N P D
UniRef90_B8J2H3 A L W P Q M D V G M F T A A V A D F S P R P L G G R K F K K F S L D F L P N P D
UniRef90_UPI0003F5115F A R V K D A D G V V M S A A V A D F R P A E T A V G S K Q K K R V A D L V E N P D
UniRef90_UPI0002488592 A A L P A D A A V M V A A V A D W H V A A A A G Q K I K K Q A D G F T E N P D
UniRef90_Q9V0S3 E E L K K Y D V V I M A A A V S D F K P K I K A K E K I K K S D K S T T L E L V P
UniRef90_R6YUW5 T E R A P Q M D I I K A A A V A D Y T P V S V S D E K I K K N D G D M K R T T D
UniRef90_J9YYL8 T N L P A D V A I F S A A V S D Y K V K E K S E K I K K R D N N L E K N V D
UniRef90_F8XR35 Q A L D P T D I F I A N A A V A D H R P S H F S A Q K I S K T A I A N P I N P D
UniRef90_S3VMF5 S E I S D S S V L I M A A A P A D F R P K L S N D S K I K K E E G S D T L V L E
UniRef90_N1WVW9 E E I Q A D S T I L I M A A A P A D F R P L D S K E S K I K K E D G S E T L F L E
UniRef90_UPI00040CB513 S R L D G H D V L I M A A A V A D F R P S V V A A S K I K K D P A T L D R T T D
UniRef90_Q0421 T A F L G A D A L I M A A A V A D Y E P V N Y T A H K I K K Q D Q G D K E T P D
UniRef90_Z5X907 K H A P D A H V L V M A A A V A D F R P A H V A T S K I K K P I D E L V R T D D
UniRef90_W5X504 A H C A D A N L I I G A A A V A D Y R P A V R H R G K I R P T T L E L H P N P D
UniRef90_A6LMK4 K R Y H D F D I V M S A A V A D F T P K K K E K N K I K K S N K E L E R T K D
UniRef90_UPI0002FA8343 A A A K D A D V V V M A A A V S D F R P V N P A A N K I K K P T I E L V E N P D
UniRef90_A5GIL2 E R Q S R A D A V L M C A A V A D R R E R S D N S S K L P K M A G W E Q V P D
UniRef90_UPI00047EEF18 R L A P Q S D V L I M A A A V A D F R P D S V S E T K V K K R D D G E T R N P D
UniRef90_UPI0004150EB5 K A A V D A D V V I M A A A V A D F R P S V N A T T K I K K R D I T L V R N P D
UniRef90_A1AX65 D N I T G Q D I F I A C A A V S D F F V K N A K N Q K I K K D G K E L L P N K D
UniRef90_UPI00037E08AA R E L P S D V E I A V A A V A D Y R V D A A A S Q K I K K S T L N L V A N P D
UniRef90_A0A010PKE6 R V A P Q A D L L I M A A A V A D F R P L T A Y A A Q K I K K T E D G E N P D
UniRef90_D3UJ74 E L T K S H Q F L F M A A A I A D F K P K N P V P G K I K K Q D K E W I A C E K
UniRef90_J3EGD9 A Q V A D A D A L V M T A A V A D F R P E A A S E S K I K K D P S N E E R N P D
UniRef90_N6W5W5 S R L K D C D A L V M A A A I A D F K P G V A R E D K I K K D P D H L V R T D
UniRef90_UPI00035D828B E Q A A D A D V L V M A A A V A D F R P A E A S E S K M K K G D D G S E R T E D
UniRef90_D4HE00 D L A K Q A D I V I Q A V A A D F A P V A V D T K K K H E G D D H Q T P D
UniRef90_UPI00036A5F1A K V A E N A G V F I A S A A V S D F R F A E V S E Q K M K K R G D T Q D F N T D
UniRef90_C7M0V1 E R Q P S A D V V V Q A A A V A D F A P V A T A S S K I K S L T I E L G P T P D
UniRef90_UPI0002629FE1 E R L P G A D V L V M A A A V A D F T A A E R A G A K I K K D E S A G E G E R E
UniRef90_F3PAS0 E V A R D A D V I M A A A V A D Y R P L T V A A T K I K K M S I E L T N P D
UniRef90_D3E0B5 E L V P D F D V F I A T A A V S D F A P I V K E D Y K I S S S L N L S L E F E P
UniRef90_C7Q835 A A A R D A D V V V M A A A V A D F R P R E A A E A K I K K P E I R L V Q N P H
UniRef90_UPI00037CE96D D K I N K E D F F V A S A A V T D Y T P T K K Y E G K I K K K N L E L K L T P K
UniRef90_UPI0002F735F9 K E V P N Y D Y F F M N A A V A D I K K K I I N H K V P K N N L K D H L V P D
UniRef90_K9P6J9 R L Q D G A D A I A M A A A V A D H R R R R P E G R K L A K E A L E W P V P D
UniRef90_D5UAN0 N E L D N T D I L I M A A A P L D F R P A V Y S D K K I K K Q A L N S W P D N S
UniRef90_Q0ID88 E L Q P D V D A V A M A A A V A D L R P E K P A K A A L E S V S D Q M E P V P D
UniRef90_D9Q044 E A S R S Y D I V G A A A P L D F T V I A P Y K G K L K S D S S Y T T L R L P
UniRef90_Q7V359 K E I S K C D Y F I M N A A V A D F T I S G D T S K K I K S K F E D F Y V P D
UniRef90_A6Q404 E R I K V A K Y L F M A A A V S D Y R P K Y P Q K G K L K K E Q L G K E W C L E
UniRef90_UPI000469D024 D I F P T T D V L I M A A A V A D F K P V H V A D Q K K K N D D E D I F N P D
UniRef90_UPI00037A7B6F A E A S A D D V V V M A A A V A D Y R P V A E V S P L K R S K D A A P E V E N P D
UniRef90_D1B227 H Q M E Q Q K Y L F M A A A V S D Y V P L H S H S G K I K K E T L G E I F I K R
UniRef90_Q4FQM7 Q C V H E E I I D G S L K V A D F Y T A T A P Q K I K K T Q E A M T K N P D
UniRef90_G7WNL0 A E L E G G G Y A I V A A A V S D Y T R D P S A D K I K S G G E L V L R L R P
UniRef90_H5UV06 A A A E A D V V V M A A A V A D F R P A E Y V I G T K I K K T Q V R L V R N P D
UniRef90_D8EWK1 D H R S G C H I I K A A A V S D Y R P K E T S D Q K L K K G A A E L V K N P D
UniRef90_U1MUE5 E R A S A D V V V M A A A V A D Y R V R G A D E K R S K E S W G D A P N P D
UniRef90_B9NZV0 N E I S N C D Y F F M N A A V S D F K I S N T N S A K I P K N Q I N D H L K P D
UniRef90_O28628 Y E I K G C N D L F V S A A A V S D F I V D A E A K K I P E L V L K L E S P K
UniRef90_C3XKQ3 Q E S K T Q N F L F M S A A I S D Y L P K N Q V K E K L K K Q E L G Q E W N K
UniRef90_G0EFA4 R E A R T P H I V F H V A A P V D F R P A E K R E G K I R S E E A S E N I E N P
UniRef90_J3A4I7 A A C R D A D A L V S A A A I S D Y F T V I E A S S D Q K I R S G E A R T Y D R L G
UniRef90_B8D3H7 E L T N E Y D A V V F A A A P A S D Y K P A S S P E K I S T R D K P Y V R L E Q
UniRef90_Q3ISV7 A V A D G A D A L V S A A A I G D Y T V E T A D E K I R S G Q T L T L E L E P

UniRef90_UPI00029B24D3 A P K I T S R K Q P E V F L V G F K A A E T G G D A H E Y A V E K F S R R K G G S D L
UniRef90_K9AL02 V L A G L V A S R R R P S G Q Q F I V V G F F A A E T T G G D D P S D D H A R R A K K L E R K K G G C D L
UniRef90_K6V622 I L A G L V E A R R R D H S P V I V V G G F F A A E E T T G G D D D A D P S D D H A R R A K K L E R K K G G V D L
UniRef90_C7NHE9 I L A G A V A R R R D P R P V I V V G G F F A A E E T T G G D D D R D R F R A T V K L L Q R K K H V C D L
UniRef90_M5TWU1 V I A V L G E S K R R D D Q W V V V G G F F A A E E T T G G D D D R S T E H H G R A K K L E R K K G C C C D L
UniRef90_UPI000299FCAC I L A D L V A A R G P A D G C V L I A G G F F A A E E T T G G D D A K E H H G R A K K L E R K K G C C C D L
UniRef90_NOE3F8 I L A E L V R H R R A G D G P V I V V G G F F A A E E T T G G D S E E H A Q R K K F L R K K G C C D L
UniRef90_B1VDN6 I L A G L V E L R R E A G E L I V V G G F F A A E E T T G D S E E H A Q R K K F L R K K G C C D L
UniRef90_D5NV72 I L K G L V S A R E A G E L I V V G G F F A A E E T T G D E N D Y A R G K K F E S K K D L D L
UniRef90_UPI000418C2F1 I L A T I V S L A H P A L F V V V G G F F A A E E T T Q D V E R Y A R Q K K L I S K K D L D L
UniRef90_C5F3U3 I L A S L G R K K T H Q T L I V V G G F F A A E E T T Q N D L L K N A T Q K K L T K K N A D M
UniRef90_UPI0002490551 I L K T F G S R K T H P Q L I V V G G F F A A E E T T Q N I I E D N A T K K L L N E K N A D Y
UniRef90_H81T0 V I R T L A E Q A D P G T L M I V G G F F A A E E T T D N I I E K A K A K K E R H G F D L
UniRef90_H2C6C4 R T P K I S S Q L R G K A F L V V G G F F A A E E T T E E L I E K A K A K K E R H G F D L
UniRef90_UPI0002DEF0D3 I L A G L A A R L R P G Q V V V V G G F F A A E E T T D R V L E H G R A K K A A K G C D L
UniRef90_F6FV13 V L A E L A R R L R P G Q V V V V G G F F A A E E T T G D A T D H G R A K K A R K K G A D L
UniRef90_U7KQE4 V L K G L V A A R R E S S C V I V V G G F F A A E E T T G S D A H E Y A Q E K F V R K K G C D L
UniRef90_UPI0002D3F4D6 I L A G L V A D R R E S S Q T L I V V G G F F A A E E T T G S P D E H A R Q K K I V R K K G C C D L
UniRef90_S3VAR5 L T K N V I A E K F I D T L I V V G G F F A A E E T T H K L E E H A V G K L R R K N L D Y
UniRef90_B6BV46 I L K S T K K L F P N L F C V G G F F A A E S N N L I N Y A K Q K L V E K N L D M
UniRef90_B5RN06 I I E H I G K N K T K N Q L V I V G G F F A A E Q S K D E I I K K A R E K L E T K N L D Y
UniRef90_D2ANV1 V L A N C K K T Y P I F A I V G G F F A A E S Q N I V D Y A Q A K K L V E K N L N M
UniRef90_E3B6Z9 I L A E A V R Q R D A E L V I V V G G F F A A E E T T G D A D H H A R A K K L A R K K G C D L
UniRef90_UPI0003665AE5 I L A S L G E T K K D Q F L I V V G G F F A A E L E S E N E T I E N A K A K I R K K L D L
UniRef90_V9R7Y8 V L H C I S T H K K R P K L V I V G G F F S L E S E N V I E N A K K I L E R K K Q C D W
UniRef90_Q2Y741 D I L E Y V A N L P D P P F C I V G G F F A A E E T T Q N L E E N A E A K K R R R K K L P L
UniRef90_I0XT18 L I K N I Q E H D L K D V L R V V G G F F A A E E T T D L L D Q A N L G K L E R K K A D F
UniRef90_R5E8N3 I L S Y V G H S G L C S A V I V V G G F F A A E E T T D N L A E N A R K K L E D S K A D M
UniRef90_A4A1G9 V V A T M G A K K Q A A Q W V V V G G F F A A E E T E D A R F R A L V K L L E K K N C D L
UniRef90_Q5FDB6 I I H Q I T S T H Q K R P K L V I V G G F F S L E S E N I V E Y N S L K K L L F N K K C C D W
UniRef90_N1WBC5 V L Q Q V S E H K I E N S I R V V G G F F A A E E T T R E L E R Y A K K K L L R K K G L H Y
UniRef90_B6BRH1 I L S Y V S N H N S M R P L V I V G G F F A A E E T T D E I E L N A K E K L N N K N C D W
UniRef90_S3X0C0 I L A G L T A R P P R R T F V V V G G F F A A E E T T G D E N A H G A E A K R R K N A D L
UniRef90_U7D6R9 I A A W F G R H K S S H Q L L I V G T F S L E T E G L E R A A E K M R R K N A D F
UniRef90_B5GBJ9 I L A E L S A H R R R S G Q L V V V G F F A A E E T E D V L A H G R A K K L A R K K G C D L
UniRef90_X0VFS5 R V S K L K A K S G W P R V I V V G F F A A E E S Q K L E T E K N A Q S K L E K K G L D L
UniRef90_I4B296 I L K T M A A R N R P R A L L I V G G F F A A E E T H E T E K Y A L G K K L K D K E L D M
UniRef90_B8J2H3 I L Q S L A E Q R A P G Q K I L A F A A A E E T A P D M N A A H A K I I T R K K A D L
UniRef90_UPI0003F5115F I L A D I S H R R R A G Q L I V V G F F A A E E T G D A G D Y G R E K A R R K G A D L
UniRef90_UPI0002488592 I L A T L G H S A R R A G P G L I V V G G F F A A E E T Q D V I A H A T A K R T R K G A D W
UniRef90_Q9V0S3 N P K I R K I I Q S D V F L V V G G F K A E E T E K L I S E A K K Q I E S A G S D L
UniRef90_R6YUW5 I L A Y V S G H R K P E P F I C V G F F A S M E T E N L L E S N S K K K L H K K A D L
UniRef90_J9YYL8 I L N Y V S N H N S L R P L V I V G G F F A A E E T T N N L E S Y A I K K L N E K N C D W
UniRef90_F8XR35 I V S A V H R D S R R P R Y I V V A F F A A E E T H D H L J A T A G T K A Q R K S G A D V
UniRef90_S3VMF5 L V K N I R E K I S R S G C L R I V G G F F A A E E T H S L E N E Y A L S K K L N S L D Y
UniRef90_N1WVW9 V L K N I A E E K I S G C C L V V G G F F A A E E T D F L E E Y A R G K L N R K S N L D Y
UniRef90_UPI00040CB513 I L A A A T T H P H R P P V I V V G G F F A A E E T G D V R A L G A D K A R R K G A D L
UniRef90_Q0421 I L K K M G S K K A N Q V V V V G F F A A E E T N N L L E N A S K K L S R K K A D M
UniRef90_Z5X907 V L A G A V R Q R T D G Q L I V V G G F F A A E E T G D A N F H A R A K K L Q R K G C D L
UniRef90_W5X504 I I A E I A K A A P D A I T V V G G F A A E E P S R S L D A A R D K L A R K G L Y A
UniRef90_A6LMK4 I L K E I S K K S K D Q I I V V G G F F A A E E T Q N I I E Y G K E K L E K K G V D C
UniRef90_UPI0002FA8343 V L A E L A R R L R D G Q V I V V G G F F A A E E T G D A H D H G V A K A R R K G A D L
UniRef90_A5GIL2 I L Q S L G A R R S S Q Q H L L L G G F A A L A G D D E T R G R E K L Q A K G C D L
UniRef90_UPI00047EEF18 I L A E A V Q Q R G S P A V I V V G F F A A E E T G D S D A H G A T A K L K R K G C D L
UniRef90_UPI0004150EB5 I L A E L G A D R K G S Q V L I V V G G F F A A E E T G D S D G Y A T A K L E R K G A D L
UniRef90_A1AX65 I L A D V C K L K E K P I C I V G G F A A E E T Q N T L K K A K K L K N K G C D A
UniRef90_UPI00037E08AA I L T E V A A L P D A P F C V V G F F A A E E T E R L A E H A E A K R L R K K L P L
UniRef90_A0A010PKE6 I L A E T V I Q H R R A P R V I V V G G F F A A E E T G D P L E I A Q A K L R K K G C D L
UniRef90_D3UJ74 N L D I L Q N L Q S P N L I K I V G F F A A E S D S A L D S A K K M L I E K Q C L C
UniRef90_J3EGD9 I L A E I G H S E Q R P P L V V V G F F A A E E T G T E E E Y G A D K A A R K G A D F
UniRef90_N6W5W5 I L R S V C V S E K R P K V I V V G G F F A A E E T G D V L K I G T E K A L R K G A D L
UniRef90_UPI00035D828B V L A T A V R T R A A G P L I V V G F F A A E E T G D A E E Y G R A K L A R K G C E M
UniRef90_D4HE00 I L A R I C S Q S V Q N R V V V V A F A A E E S Q F L K I A Q A K L A R K G C D L
UniRef90_UPI00036A5F1A V L A R I A N M K N R P E K V I V A F A A E E S E K H I E Y A A K L V A R K G V D A
UniRef90_C7M0V1 V L G E L S A H R E P H Q T I V V G F A A E E T G D P R T E V E R K R A A R D V D I
UniRef90_UPI0002629FE1 E V P T L A R A Q G G G P V I V V G F F A A E E T G D A D E H A R A K A R R K R A H L
UniRef90_F3PAS0 I L T G L V T D P P G G Q I V V V G G F F A A E E T G D D D F H G A V K A R R K R A H L
UniRef90_D3E0B5 V A K I I H Q I I N P D I F L V V G F F A A E Y N I P E E R A K T Q M Q D A G T D L
UniRef90_C7Q835 V L R E L G H R S P P G Q T V V V G F F A A E E T G D W L E H G R A K L A K Y G V D L
UniRef90_UPI00037CE96D I I K V K E I S P E T K L I V A F K A E Y G I H E D K I Q E I S E Y S A D F
UniRef90_UPI0002F735F9 I L K E V S S L K R K N Q L Y I V G F F A A S G N L R E T I K Q K F A I K G C D L
UniRef90_K9P6J9 L L A A L V R R R P P A Q A I L V G F F A A Q S G E V L Q E A R A K F A R K G C D L
UniRef90_D5UAN0 I L A S T K R K K G T L I V V S F F A A E T A E N D E Y A V D K M N R K G A D M
UniRef90_Q0ID88 L L A G L A E R R P P G Q V L L V G F A A A H V D S L L E R A R H K L S A K Q C D L
UniRef90_D9Q044 A P K T I S K S I T L K P K V L I V G F F A A D V A T T E K E A M E K A S K Y G A T L
UniRef90_Q7V359 I L K E I S K S I T L K K N Q I F V V S F F A A F T G S F K K S I K E K I M L K G C D L
UniRef90_A6Q404 N I D I L Q S I D K E G I V V I V G G F K A E E T D E K V I E N A Q K M L V K K G V D A
UniRef90_UPI000469D024 I L Q A I A A T K T K H Q F V V V G F F A A E E T Q N L L E N A E K K L S K K N A D V
UniRef90_UPI00037A7B6F I L A G L V R G R E G Q T I V V G G F F A A E E T E T L L D R G R R K A A R K G T D L
UniRef90_D1B227 N L D I L S T I P K K G Y K V I V G F F A A E L D E K N G N A Q K M L E A K E L D A
UniRef90_Q4FQM7 I L A T I S L A H P E L F V V V G F F A A E E T Q D V E R Y A R G K L S K R D L D L
UniRef90_G7WNL0 T S K I I A A V R A S H P K M V V G G F F A A E E T E L I F R A R E S M E K N R L D L
UniRef90_H5UV06 V L A G L V H H R D E G P L V V V G G F A A E E T G D E T H H A R A K L A R K G S D L
UniRef90_D8EWK1 I L A L G K T K K D H P A I L V G G V C A R G N
UniRef90_U1MUE5 I L A E L A G L P R D G L L V V G G F G A E T E A D D E R G R A K L A R K G A D L
UniRef90_B9NZV0 I L K K I S E L K N N Q V F V V G G F C A F T G S I E E A I K E K I L K K G C D Y
UniRef90_O28628 I I K E V R K L Y S G H I I V G F F K A E E T D E L L K V A S E K M A D D N L N M
UniRef90_C3XKQ3 L I E N I L A T L P K T Q K T I V G F F K L E S K D G L I Q N A K N A L K H K G L D A
UniRef90_G0EFA4 K V S L A V R D A P Q A L H I V G F T A A P V S D P E E A K K K L E K H G F D I
UniRef90_J3A4I7 T P K L I D S M R Y S G L T I V A F F A A E E T D A M V G E A R R L L D R A G L A F
UniRef90_B8D3H7 T P K T I K T A Y N R P R I L V A F F A A E E T E K L V E K T L L K A S D Y G A D L
UniRef90_Q3ISV7 T P K L I V R E A H P G L A I V V G F K A E E T D A M V G K A R E T L D R A D L D F

UniRef90_UPI00029B24D3 V V A N T L R 170 A F G S D E N E V I L I S R D L H K R L 190 P R M S K R E L V A
UniRef90_K9AL02 L V F N D V S G A D R A F G H D V T E V V V L A R Q D G D E V V D A G T K K D D V A
UniRef90_K6V622 L V A N E V G Q D V E V F G Q Q D D T T T V S I L L R Q D G A D T P V R G P A G T K K D D T A
UniRef90_C7NHE9 L V A N E V G G D V E K T F F G Q Q D D T T T V S I L L R Q D G A D T P V R G P A G T K K D D T A
UniRef90_M5TWU1 M V S N G P E A I F D A S D D N H V E L L D P A G G V I E T T I S S G S K K P H V A
UniRef90_UPI000299FCAC L V V N E V G R N T T F G H D D N G T G W I L D A G G E T F L E H P S G S K K T L L A
UniRef90_N0E3F8 L V V N E V G S S D R T F G K D D N T G V I L L Q Q L A G S V E D V G H S A D K R V I A
UniRef90_B1VDN6 L M A N A V V G S R G K V F G Q E D S A G W L I T A L E V R E V P A G H K L E V A
UniRef90_D5NV72 L M A N D V S D R G K V F G H T D D N A G W I L T K E A P R V T V K R G S K Q V V A
UniRef90_UPI000418C2F1 I A C N D V S R A D I G F A S D D N A M Q V F E F K N E A V T L E K A S K D K I A
UniRef90_C5F3U3 I V A N H V S D A T H G F N T D T N A V T L L R P E Q A V T L P E M P K P K V A
UniRef90_UPI0002490551 I I A N N V N E T G V G F G S D D N Q V T L L Q A D G H E Q K W A K M S K K L V A
UniRef90_F81T0 V V A N R V G L G V G F G T G A H E A W L V T A D G V E P M P G H H K E T A
UniRef90_H2C6C4 I I A N N V S R R D I G F S S E Y N E V V V I G E R Y T R K L S K D Y K Y I A
UniRef90_UPI0002DEF0D3 L V V N E V G E S R T F G S E E N E A V V I G T D G E T P V P H R G P K E A L A
UniRef90_F6FV13 L A V N A V G E G R G F G S E E N D V T V V D A A G D E V T A R G T K R E V A
UniRef90_U7KQE4 L M A N E V G R A K T F G Q K S N E G W I L R P E S A Q R V E H G S K A Q V V A
UniRef90_UPI0002D3F4D6 L V F N D V S D G K T F G H D T T H V E V L A L T G A Q V V G L G N K A D V A
UniRef90_S3VAR5 I V G N Y V S R E D T G F G D R D T S V I I F G K D G S K E I G P A S K H D V A
UniRef90_B6BV46 I I A N E L Q K T M G E D Q A E V V I L D K K Q E K I L P K M E K K L L A
UniRef90_B5RN06 I I A N D L T E Y F G S N V S K I Y I L N K D K V E K F P E M S K K E T A
UniRef90_D2ANV1 V V A N S T E K V F G N D N S S V T I L S K H Q T K Q Y N N K S K S E I A
UniRef90_E3B6Z9 L V A N E V G D G V T F A Q D S S T A H L L R R D D V V T V G P A P K S H I A
UniRef90_UPI0003665AE5 I I V N S L N D E G A G F G K A T N K I T F I D S D N E E P M E L K T K E E V A
UniRef90_V9R7Y8 I I S N T L I N N E Q V M G N D Y N K I T I I T K D H Y Q E F P I M S K K D I G
UniRef90_Q2Y741 L A A N L A Q E A I G A E E V A L T L F D D S G R H S L P K S S K I E Q A
UniRef90_I0XT18 I V G N Y V G K D S A G F G D T S V V I Y G K E G K E I G L P S S K A E I A
UniRef90_R5E8N3 I V V N P S A I G S T Q N Q A S F V T K N G I E A K E L S S K A E I A
UniRef90_A4A1G9 I V L N G P E A M N A A E N R V E I L D R A G E V V A M L G P K E D V A
UniRef90_Q5FDB6 I I A N A L N N N Q V M G N D N N S V I T I L T K D K N Y K F P I M S K K D I A
UniRef90_N1WBC5 I V G N Y V G A G K G F G E V D S S V R I F S G K G E K E I G P L P K E K I A
UniRef90_B6BRH1 I I S N D V S N R K I G F D S D Y N E V T I H Y R N K D E N L S Y K K K S E I S
UniRef90_S3X0C0 L A V N A V S G K Q L G F G D V P N A L V L D S Q G E E V A K A G T K D E V A
UniRef90_U7D6R9 T V Y N T V S E G L E G D T E I R L L S R A S D A V V L H M S K N D A A
UniRef90_B5GBJ9 L V V N E V G E T K T F G A E S S E A V V L G A D G E T P V P Y G P K E G L A
UniRef90_X0VFS5 I V A N D I T A V D A G A V D T
UniRef90_I4B296 I F L N D V S K T G A G F A S T T N E F T V F Y R D G R E E L A N A P K E Q L G
UniRef90_B8J2H3 L A A N R V N S A D S G F A S P T N S M V V V D A N G R E E W P T Q S K A D V A
UniRef90_UPI0003F5115F L V I N R V S G K A G G E V P T E I T V V T P A G E I T A G A G T K A Q M A
UniRef90_UPI0002488592 I V A N D V S G D V M G G A N N S V H I V S A D G V E S W P D L P K D V V A
UniRef90_Q9V0S3 V I G N T L E A F G S E E S K V V I V G K D F V K E L P R M K K R E L A
UniRef90_R6YUW5 I V A N N L R D E G A G F G S D T N V V T L V M E E G I V E L P C M S K E Q V A
UniRef90_J9YYL8 I I A N D V S K S N I G F N S D F N E V S I F Y K N K S D R I S Y K P K S E I S
UniRef90_F8XR35 I V V N D I N S A E I G M G A E N A C S I L
UniRef90_S3VMF5 I V G N Y V G K D S K G F G D R D T S V M I Y S G D G S R E L G P D S K E R I A
UniRef90_N1WPPW9 I V G N Y V G K N S K G F G E V D T T S V M I Y S S A G K I E I H T E G S K K V V S
UniRef90_UPI00040CB513 L A V N R V G D G H G F G D V P N S V D L L N A Q G E V D H I E G S K E L V A
UniRef90_Q0421 I V A N D V S H G V I F G S D E D K V M V L R Q D K T T E I T E T K V E I A
UniRef90_Z5X907 L V V N A V S G E G A G I R G G
UniRef90_W5X504 I A A N D V S R D G I G F D A D Q N S L R L I T L D S P V V F G L M S K L G C A
UniRef90_A6LMK4 I T A N N A L K V M G N E N A E A F L I T K K Q T L T F E G S K E K I A
UniRef90_UPI0002FA8343 L V V N A V G E R V F G F G T D T N D E V V V D R E G R V V A R A G T K D E V A
UniRef90_A5GIL2 L M V N P V D R P D Q G L D S D L N G G W L L G P G E R E E I P A V H K L A L A
UniRef90_UPI00047EEF18 L V L N R V G R S L V F G Q D D S T E V T I L D A G G A E E T V S G S K N R V A
UniRef90_UPI0004150EB5 L V V N E V G G G K V F G Q D E N Q V T L A R G S T S Q V K A G S K D E
UniRef90_A1AX65 I I L N D V S N A Y F G F N V D E N E V V F L S Q N
UniRef90_UPI00037E08AA L V G N L A Q D T L G Q D S A E L V L E D D Q G R H P L S R A D K L S Q A
UniRef90_A0A010PKE6 L V L N Q V G E A L V F G R D E I H I L T
UniRef90_D3UJ74 V C L N I L S H Q N S F G A L H N E M T L I N S H V T K T I P L N S K F H I A
UniRef90_J3EGD9 I C L N R V G G S V F G F G D V P N D I R L L D A R G A I A G R V G S K D E V A
UniRef90_N6W5W5 L A V N R V G G S V F G E V D N E V W L L D S A G V M E S A K G S K S R V A
UniRef90_UPI00035D828B L V V N E V G R D K V F G R D E T A V T L L F A D G S P A V E A G S K E E
UniRef90_D4HE00 M V V N D V S G G K V F G K V G T D V T M V H Q G G P G R R I T G S K S Q A A
UniRef90_UPI00036A5F1A I V A N D V N N M A S D A F G W W I S K G N E I I E K C N K M K F S
UniRef90_C7M0V1 M V G N D V S R A D A G F A V A T N E V V L L D R D G R W E L A L A S K E Q I A
UniRef90_UPI0002629FE1 L V F N D V S A G V F G G A E N A V H L D T G A E L A A A A G D K T Q V A
UniRef90_F3PAS0 L A V N A V G E D L G F G D V P N A V V V L D G G S E V A G Q G S K M D I A
UniRef90_D3E0B5 V A N D V Y K K G C E F G S D S N E V I L V S D E I K K V G L N S K S E I A
UniRef90_C7Q835 L I V N E V G V D L T F G A D H S A A V V I G A D G E E P V A D R G P K S E I A
UniRef90_UPI00037CE96D I I L N D V S R K D I G F G S D F N E V Y F F D G D K L T K I E K R L K S E I A
UniRef90_UPI0002F735F9 I F A N P I D I A G Q G F G S E N E G W L F D K K G E Y I E K S S K L D L A
UniRef90_K9P6J9 L F A N P I D R A G A G F G S A G N E G W L L G P R G R E S V G P T G K L A L A
UniRef90_D5UAN0 I V A N K I K D S I G K D T N K I T I F K D G F K S Y P I L S K R E C
UniRef90_Q0ID88 L F A N P I D Q P N Q G F G S H R N G G W L L R R D G S Q Q L P Q C K L E L A
UniRef90_D9Q044 V A A N P I N V I G T Y G F A S E Y D K V V V V D T G T G R I Y D L G R K E S L A
UniRef90_Q7V359 L F A N P I D I E D Q G F G S A K N E G W L F D K N M E Y L E K T S K I E L A
UniRef90_A6Q404 V C L N I V K H K T A F G S D M N Q I V F I T K D K A V Q S P L K S K L E L S
UniRef90_UPI000469D024 I L A N N V A Q V G A G F N V D T N K V T L L Q A G K G P V V P L M S K E D V A
UniRef90_UPI00037A7B6F L A V N E V G W A R G F E S A D N A V T V I D A G E V V A A R G S K R D V A
UniRef90_D1B227 V C L N I L K E Q N N F G S N K N E I T F I T K T H V E T L P L S D K F H I A
UniRef90_Q4FQM7 I A C N D V S R A D I G F A S D D N A M E V F F E H D S I T L D K A S K D K I A
UniRef90_G7WNL0 V V G N D V R G M G T E D N R V L I L S R S G R V A E V A G K R E I A
UniRef90_H5UV06 L V A N E V G V G V T F G Q D D T V H V L A P G G R V L L T A G T K A A S
UniRef90_D8EWK1 L V L N R V G H D E G F G P V E T R V R V L D A D G V V A D A S G A K A S V A
UniRef90_U1MUE5 L F A N P I D L E D Q G F G F A Q N E G W L F D K K N M E H I S K T S K I D L A
UniRef90_B9NZV0 V A N D V L E R G M G T E D T R V L L T P K R Q E W V E G L K Q H V A
UniRef90_O28628 I C L N T I T Q S H N P L N A N N Q L L W I S N S F V K D L G F C D K L S L A
UniRef90_C3XKQ3 V A N A A G R A F A S A T N E V V V T R S W G V E Y I P E A P K R L V A
UniRef90_G0EFA4 V A A N D A S V M G A D E T R T L F V R S D S V E E F T G S K D A L G A
UniRef90_J3A4I7 V I G N N L S S E A G F G K E M L E I V A V A E G G I M D R G T R F K P E V A
UniRef90_B8D3H7 V V A N D A S V M G E S R T R V L F V D E T D V T A H E G D K A A I G
UniRef90_Q3ISV7

UniRef90_UPI00029B24D3 E R L W E E I E K L L S A
UniRef90_K9AL02 Q K V T A V I A E R L L
UniRef90_K6V622 C A L L D V V E E F F E G P G R
UniRef90_C7NHE9 R A V C A A V T P L F
UniRef90_M5TWU1 D R L T H H I H N R L
UniRef90_UPI000299FCAC D R I L D A V V A M M Q S
UniRef90_N0E3F8 D A I W D L V E T L
UniRef90_B1VDN6 G A I L N A L
UniRef90_D5NV72 A Q I L Q V V N E I R H N N R
UniRef90_UPI000418C2F1 E Q L A S I I G K A I W Q R H
UniRef90_C5F3U3 A A L T E Q L A T M L A K Q
UniRef90_UPI0002490551 E K I I K L I S N Q L
UniRef90_F8I1T0 T A L L N W V A R H
UniRef90_H2C6C4 R E I L D T V R E E L K N K H
UniRef90_UPI0002DEF0D3 D T V W D L I A E R L P E
UniRef90_F6FV13 D A I W D A V V K T L P T R
UniRef90_U7KQE4 A Q I L A A V N E M F
UniRef90_UPI0002D3F4D6 V S V M E T I A K H
UniRef90_S3VAR5 K Q L I A Y L R N R
UniRef90_B6BV46 N S I L T E I Y D R F K
UniRef90_B5RN06 I E I L K L L
UniRef90_D2ANV1 K L I L D F A K E I I
UniRef90_E3B6Z9 A A L L D L V A D L V P S Q
UniRef90_UPI0003665AE5 Q D I I N K I K N R Y N
UniRef90_V9R7Y8 Q L I T E Q L I N F L A N K
UniRef90_Q2Y741 R H L I A H A A S L Y E K
UniRef90_I0XT18 K G I L E Y L
UniRef90_R5E8N3 E E I I E A L A D L L K K R
UniRef90_A4A1G9 A G I M Q A I
UniRef90_Q5FDB6 K L I T E K I I G F L D N H N
UniRef90_N1WBC5 E A L V I Q F L V S
UniRef90_B6BRH1 D E I V D R I I Y Q L N
UniRef90_S3X0C0 D A L M E L V A E R L A A R
UniRef90_U7D6R9 R G I L E A V V I S
UniRef90_B5GBJ9 H T V W D L V A A R L
UniRef90_X0VFS5
UniRef90_I4B296 R T I I G C I A S
UniRef90_B8J2H3 W E L C S W L L R M
UniRef90_UPI0003F5115F V T I A G L I A D H F
UniRef90_UPI0002488592 T R L A D R I A A A L
UniRef90_Q9V0S3 E R I W D E I E K K I
UniRef90_R6YUW5 E A V L D A I
UniRef90_J9YYL8 D E I V E K I I D H L N
UniRef90_F8XR35
UniRef90_S3VMF5 T G I L E Y L
UniRef90_N1WPW9 E K I V E F L
UniRef90_UPI00040CB513 R A L L E H V A T L L
UniRef90_Q04211 K K I I V L V A E E L E S R
UniRef90_Z5X907
UniRef90_W5X504 L W L L D R V A K
UniRef90_A6LMK4 K E V L S F I S S
UniRef90_UPI0002FA8343 H A V W D A V R P L L D A
UniRef90_A5GIL2 H D L L D R L S Q L
UniRef90_UPI00047EEF18 E V V V S R V A S A L
UniRef90_UPI0004150EB5
UniRef90_A1AX65
UniRef90_UPI00037E08AA R H L V R H L A T L L N
UniRef90_A0A010PKE6
UniRef90_D3UJ74 D K I L E F V A Q T L Q
UniRef90_J3EGD9 A G L V G H M A S F L D N L K R
UniRef90_N6W5W5 Q A L V S A I G D R L A R L S R
UniRef90_UPI00035D828B
UniRef90_D4HE00 V A I L D E V R A L L
UniRef90_UPI00036A5F1A Q E I I K K V M E L
UniRef90_C7MOV1 A G I L A H A V A
UniRef90_UPI0002629FE1 H A I L D A L P S R
UniRef90_F3PAS0 R L L I G L T A D L V N
UniRef90_D3E0B5 K S I F K E I A N K I
UniRef90_C7Q835 D V I W D R V L K
UniRef90_UPI00037CE96D K L V W D K I L
UniRef90_UPI0002F735F9 N K L I N R I I S
UniRef90_K9P6J9 H R
UniRef90_D5UAN0 E E I V N I A V Y E W K K K N
UniRef90_Q0ID88 N R L L D E I A
UniRef90_D9Q044 R K I L D I A L S Q I K S R N
UniRef90_Q7V359 N N L I D E I I S
UniRef90_A6Q404 L D L A T L A K A L D E
UniRef90_UPI000469D024 R K F W K
UniRef90_UPI00037A7B6F E A L W D A V L A
UniRef90_D1B227 Q A I V I E Q
UniRef90_Q4FQM7 E Q L T T I I G E A I W Q R H
UniRef90_G7WNL0 E A V V D A L A G E L S
UniRef90_H5UV06 A A V W D A V E E A L
UniRef90_D8EWK1
UniRef90_U1MUE5 R A I I D C V A Q R L
UniRef90_B9NZV0 N K L I S Q I I S
UniRef90_Q28628 E R I V E A Y L E
UniRef90_C3XKQ3 F K I L E Q
UniRef90_G0EFA4 R R L L D I A L A A L R A R R K
UniRef90_J3A4I7 E R V A G E L A A E L D E R
UniRef90_B8D3H7 R I I G D F I S R R L Q A
UniRef90_Q3ISV7 G H I A D E L A S V L E

UniRef90_UPI0003B69117 1 G D L A G V R V V V S A G G T R E P F D P V R F V G N R S S 30 G R Q G A I A A 40
UniRef90_B6BJW8 W N D R R V I V T G G G T I E K I D D V R Y L S N F S S G K M A S S I A A
UniRef90_UPI0004703A93
UniRef90_UPI00047055C4
UniRef90_UPI0003B79D7E D L A G R H V V V S A G G T R E P L D P V R F L G N R S S G K Q G Y A V A A
UniRef90_Q9YAI0 L R D L E G I R A L V T L G S T R E W I D D R V R F I S N P S S G V M G V L E A A L
UniRef90_A5GW41 R D F E G V E L L V T A G P T Q E F L D P A R V L S N P S T G L M G V L L A L A Q
UniRef90_F3A0E4 M G I A I A A N
UniRef90_A0A022LFT7 G D L A G V R V V V S A G G T R E P I D P V R Y L T N R S S G R Q G V A I A A A
UniRef90_T3QS36 Q D L K G Q S M I V T A G P T V E S I D D P V R Y L T N R S S G K M G Y S I A A R
UniRef90_W6EGV3 W S E R E V V I T G G G T M E K I D D D V R R Y L T N F S S G K Q A S A L A L A
UniRef90_B1H0K2 K K L T F L I S G G P T K E Y I D D P V R F I S N E S S G K M G N A L A L A Q
UniRef90_X1LB59 L E G K K F L I S G G R T E E D V D S L R V I T N R S S G K M A L E L L Y
UniRef90_D5VS03 K K V L I L N G S T V E F I D D D V R V I T N L S S G K M G I A L A E
UniRef90_B9LAA2 W E N K K V V I T A G G S V E K I D D D V R F V S N F S S G K M G E A L A K
UniRef90_A8EWU4 W I N R K V V L S G G G T I E K I D D D V R Y I S N F S S G K M A S N L A K
UniRef90_L9XDW6 R S L E G R H V V I T T G A T A E S I D P V R V I T N R S S G K M G R A V A R
UniRef90_B9LUV9 Q S L S G T H V V V T A G A T K E R I D D P I R L L T N R S S G K T G R A V A R
UniRef90_R5LDD4 N K Y E N I R F T I T A G A T K E W I D P L R Y I T N R S S G K T M G E A L Y N
UniRef90_A9BDJ6 K D W E G Y K L L V T A G P T I E D I D A A R Y L T N R S S G N M G V L I A Q
UniRef90_X5FQT3 W C D K S V V I T G G G T K E K I D D D V R Y L S N F S S G K M A K A L A D
UniRef90_Q30RV5 W M D R R V I V T G G G T I E K I D D D V R F L S N F S S G K M A S A M A T
UniRef90_G4RNJ5 R D M R G L K V L V T A G P T H E H L D D D V K Y I S T P S S G L T G V Y F A R
UniRef90_X1K1L2 G D L A G K R M V V T A G G T R E S P I D P V R H I G N R S S G K M G Y A M A E
UniRef90_L9W124 R S L E D E H V V V T S G A T G R E S I D P V R V L T N R S S G K M G R A V A R
UniRef90_T2LKR5 W C D K E V V I S G G G T K E K I D N V R C V S N F S S G K M A K A I A D
UniRef90_V5RJV6 N N K K F M L N F G R T R S Y I D K I R Y I T N T S S G K M G L A L R N
UniRef90_X0T880 N D Y Q G K T V L V T A S C T R E P I D Q V R F I S N Y S S G K M G F A L A K
UniRef90_T0DIY3 K H V V I T A G A T V A P I D P V R F V T N P S S G K T G Y E I A K
UniRef90_UPI0004718AB4 G R T V V I T G G P T E K I D D D V R V I S N L S S G K T M S K A L A D
UniRef90_Q12WR6 L F G K K V I T S G A T A E S I D P I R L I T N R S S G T T G R E I A L
UniRef90_X3UNS7 V N D L R H I N I M I T A G P T R E P L D P V R Y I S N H S S G K M G F A I A A
UniRef90_W6A9S5 L A N K K V L L N F G R T R T Y L D K V R Y L T N E S S G K M G W E I F Q
UniRef90_U3U3E4 N D L Q H L N I M I T A G P T R E A L D P V R Y I S N H S S G K M G Y A V A A
UniRef90_G2MGW1 R P L A G K T V V V T A G G T T E K V D P V R S L T N Q A S G K T G R A V A R
UniRef90_F0QYA5 R D M N G L S V L I T S G P T H E Y I D A T K Y L T T P S S G L T G Y H F A R
UniRef90_UPI00029A1B03
UniRef90_UPI0002F629C0 G P L A G R R L V V S A G G T H E P I D P V R F I G N R S S G R Q G V A I A S
UniRef90_Q7VGI6 W S K Q R V I V S G G S K E S P I D D V R Y I S N R S S G K Q A S Y L A L
UniRef90_I7J863 R P L A G K R V L I T S G A C A E P L D D D V R V L T T R S T G Q M G R A L A L
UniRef90_Q2FUB0 R P L A G K H I L I T S G R C E E P V D D I R V L T T R S S G K M G R E L A Y
UniRef90_E1NQ21
UniRef90_T0T4T0 R N E K V V I T T G A T L A P L D P V R F L T N S S S G K T G F L L A K
UniRef90_UPI00037555E6 K K E K V I V T S G P T S E Y L D D D V R T I T N K S S S G K Q G R A I A I
UniRef90_B8GKP3 G S L A G R R V L I T S G A C R E S P I D D D V R V L T T N R S T G Q M G R A L A L
UniRef90_M0LS76 R P L E G E H V V V T S G A T A E S I D P V R V L T N R S S G R M G R A V A R
UniRef90_L0HMNO N E L R G K R I M V I T G G A G Y E K F D N F R I I T N L A T G R M G I E I A R
UniRef90_UPI0004770FF3 M K I L I T S G G T R E A I D D Q V R S I T N H S S G R L G K E I A E
UniRef90_L0AC83 D M K G L R I L I T A G A T R S W I D D V R F I T N P S S G R M G I E L S
UniRef90_E1X539 K K I V I T T G A T I S S V D P V R Y L T N A S S G K T G F E I A K
UniRef90_E1RK29 L A G E K V L I T S G A C V E E I D D D V R V M T T R S S G Y M G R E M A L
UniRef90_T0M0H9 N E L R G K N V L I J A G R S E L P I D P V R V I T N R S S G T G Y W A R
UniRef90_M0FKS2 Q T L A G K S V V V T A G A T T E S I D P I R T L S N R A S G R T G R A V A R
UniRef90_E8QS43 F E N R E V V M G G A S V E K I D S V R I S N L S S G I Q A S A L A E
UniRef90_G8P716 M K V L I T S G G T T E P I D E V R G I S N F A T G S L G K L A E
UniRef90_F9F009 L A G K K I L I T A G A T L E M I D P V R G I T N I S S G Q M G I A L A R
UniRef90_U1QNC5 L A G Q R V V V T S G A T T E S V D P I R T L S N R A S G R T G R A V A R
UniRef90_U1PVH8 G S F A G L T V A V S A G G T H E A V D P V R F L G N R S T G R F G V D I A R
UniRef90_D1YHI5 L A G K K I V I T A G G T I S P L D P V R F L G N R S S G K M G I A L A K
UniRef90_UPI0003EB58C4 V N D L R H L N I M I T A G P T R E P L D P V R Y I S N Y S S G K M G F A I A A
UniRef90_U1NWJ7 S L A D T S I V I T S G A T S E T I D P I R V L T N R A S G A T G E A I A R
UniRef90_G4R4R0 M K L I I T S G G T T E P I D A V R G I T N H S T G Q L G K L I T E
UniRef90_F8DGU5 M H L L I T S G G T S E A I D R V R A L T N H S T G S L G K L L A E
UniRef90_X1CP11 D F L G K G F V V T A G P T R E P L D R V R F F S N Y S S G K M G Y A L A E
UniRef90_R5QWE7
UniRef90_J9YZZ1 K T A L I T V G S T R E Y I D P V R Y I T N E S S G Q Q G M A I I K
UniRef90_A8MAE7 R N M S G L R V L I T S G P T R E Y I D D D V K Y V T T P S S G L T G Y A I I A R
UniRef90_UPI000462CA17 M K L L I T S G G T S E A I D D V R A I T T N H A S S G K L G K I I A E
UniRef90_G0I9Q1 M K I L V T S G G T S E A I D S V R S I T N H S T G R L G K L I T E
UniRef90_R9XNQ0 S L Q G I R I L V T G G A T P V P I D N V R L L T N R F T G Q L G I E I A Q
UniRef90_R7MSJ5 M K I L I T S G G T T E K I D A V R G I T N H S T G Y L G K E I A E
UniRef90_Q97A07 N K Y D G K S I L I T S G R G E E R I D P V R S I T N D S T G Y T G Y W I A R
UniRef90_T1Z2P9 M K L L I T S G G T S E K I D Q V R S I T N H S T G K L G A L I A E
UniRef90_W4VEQ9
UniRef90_UPI000288F3D4 L R G K S L L I T G G P T P V P V D N I R R I T T R F T G A L S I Q L A R
UniRef90_H1KUG3
UniRef90_C7P0G9 Q P L A G E H V V V T S G A T T E S I D P L R T L S N R A S G R T G R A L A R
UniRef90_F5Z196 M K I L I T S G G T T E K I D S V R G I T N H S S G Q T G K E I A A
UniRef90_S5QX83 M K I L I T S G G T T E K I D S V R G I T N H A T G S L G K Y I A E
UniRef90_B5IBQ6 R D L K G K K V L V I G G A G Y E K F D E F R I I T N L A T G K M G I E I A R
UniRef90_I7MY52 M K L L I T S G G T T E P I D A V R G L T N H S T G Q L G K L V A E
UniRef90_K2BJ29
UniRef90_UPI0003772620 M N G K K V L I T S G G C L E K W D E V R G H T N L S T G R M G K L L A E
UniRef90_U5P7L9 M N I L I T S G G T S E K I D Q V R S I T N H S T G Q L G K I I S E
UniRef90_B7KD59 L K G V S I L V T G G P T P V P I D N V R R L T N R F T G K L G A I I T E
UniRef90_UPI00046EB871
UniRef90_Q3Y1X9 M K I L I T A G G T T E K I D Q V R A I T N H S T G R L G Q A L A D
UniRef90_D2VZL8 L K V V I T S G G T A V P I D S V R Y I T N S S T G T G A L I A E
UniRef90_T0RJU0 V L I N T G A T I A P I D P V R Y V T N S S T G I T G F Q L A K
UniRef90_M4VTH2 R K V L I T A G G T S E A I D D V R V I T N R S T G R T A A H L A D
UniRef90_UPI0002627B86 G T L K G H Q L L I T G G P T P V W I D H V R L F T N R F T G A L S I E I A K
UniRef90_Q4A742 K L M L S F G Y T K S P I D S V R S L M V P S S G K M G L A I S E

UniRef90_UPI0003B69117 D A A R R G A E V T L V S A N V S L T A G L D V R V V A V G S A L E L A D A V H
UniRef90_B6BJW8 A L Y C K G A D V N L I A T R F E D N I P Q D M H T I D V V E S S D E M L I E A Q I
UniRef90_UPI0004703A93 G A Q V D L V A A R P V H L S A P P E G V N L V R T V V E S A Q E M L D A V S
UniRef90_UPI00047055C4 V V A A R T D E R P P L D V N V V R T V V Q S A E E M Y S A V S
UniRef90_UPI0003B79D7E D A A R R G A R V T L V S A N V A L A V P D G C E V V A K V G T A L E Q A V T A A
UniRef90_Q9YA10 E L Y A R G A E V D V L V A G Y T S Q V E L P H L F N T V K T T E T A E D M A A V E
UniRef90_A5GW41 A A R W R G A Q V R L L H G P T S L Q L E S L E G L N S E G F G T A A E L E Q L L E
UniRef90_F3A0E4 E F K K R G A E V T L V T S V K N D T L N G I K R V L D V V S T K D M F E A V K
UniRef90_A0A022LFT7 E A A A R G A E V T L V S A H L S E A R H P S I K R L V P V I G A A Q D L A E A M T
UniRef90_T3QS36 E A L A R G A D V T L I S S G P T N L S I P Q N L K F V Q I V E S A A Q D L Y E A V V
UniRef90_W6EGV3 A F Y L R G A N V T L I S S G G E T P Q I N A I N T L H I V K S T A E L Q A A L L
UniRef90_B1H0K2 A A L K R E G V T F I S S G P S S I F P T N V K L I K V R T A L E M F K E A K
UniRef90_X1LB59 A V I C R D G Q A K G I F G E T T V C L P E G M D L L R V R R S E E M L Q N L K
UniRef90_D5VS03 A F L R E G Y E V Y I I M G L G E E V P Y Y T K S F K V L T S E E M L K K A L
UniRef90_B9LAA2 A F Y L K G A D V T L I S S S K K H N L S K E I K Q I H V Q S S A D E Y Y D A L
UniRef90_A8EWU4 A L Y Y K G A D V C L V I S S S R G Y E N L S P N D I K L I K V Q S S F E M Y E S A K
UniRef90_L9XDW6 A C Y A R G A D V T L V H G V V P P P A I P Y A T V R N V E S A A E M L E A T R
UniRef90_B9LUV9 A L Y V R G A T V T L V Q D G S E V S Y A D V V A V E T A A E M M E A C R
UniRef90_R5LDD4 Q I N S K N G N I Y I E G S V L I T N S K N K I K V E T T E K L K E T V L
UniRef90_A9BDJ6 A A K F R G A N V D L I H G Q L S D S F L E G L E T Y Q I R S A V D M Q K M L N
UniRef90_X5FQT3 A F Y F L G A R V K L L S S V I E F D A P Y E L C K F E S S K D L K E L L D
UniRef90_Q3ORV5 A L Y C R G A D V N L I S T K F E P E L P L D L Y T I K V E S S A E M R D E Q I
UniRef90_G4RNJ5 E A A A R G A E V T L V A G P G V R A P P G V R A V P A V I S V L D M H K A V L
UniRef90_X1K1L2 A A A R D R G A K V T L I T A P T S L P E P V G M E V V H V E S A A Q M K E A V A
UniRef90_L9W124 A C Y A R G A D V T L V H G F D D D G N V P Y A T V E H V E S A S E M L E A T R
UniRef90_T2LKR5 A F Y F L G A K V T L L S S V Y F D T P Y S L K S F E S S R E L K E L L
UniRef90_V5RJV6 A L L N Y S Q S V I S V G D T D F N L Q Q N E K T I Y C N T N E E M L E V M K
UniRef90_X0T880 D A R I R G A R V I L I T F G P T S L P A P K G I T T I S I E S A E E M K K E V F
UniRef90_T0DIY3 E S L R L G Y K T T I L L G Q N S C P E F P G T K I I S V R T T D E M Y E A V L
UniRef90_UPI0004718AB4 T F Y Y L G A N V V F I T S V I E F D A P Y K V I K F D S S F G L Q S A L T
UniRef90_Q12WR6 E F Y R R G A D V T V V H K G K L D L D G I R E I L V E S A G Q M V D A T L
UniRef90_X3UN57 A A A R R G A N V T L V S G P V S L P T P P F V K R V D V I T A L D M E A A V Q
UniRef90_W6A9S5 A L E N N D C W Y T A V H G D C D F L V P K A N N L F Y A S T N I K M L E L M E
UniRef90_U3U3E4 A A A K R G A T V T L V S G P V D L A T P A G V T R I D V N S A L E M E A V M
UniRef90_G2MGW1 A C H I R G A D V H L I H G D M L G D R P H Y A E T T W V G S V A E L Q E A T F
UniRef90_F0QYA5 E A M A R G A R V T L I S G P V S I G D P P G A E V Y R V E S L L E M Y E T A I
UniRef90_UPI00029A1B03 T L I S G P V S A L S A P A G C R F I Q V K T A E M F T A A E
UniRef90_UPI0002F629C0 A A A A R G A D V A L I A A N I S P E V L A P V R I V E A P T A L D M E T A V R
UniRef90_Q7VG16 A L Y M L G A E V T F I S S S F P L V L P L D I K C V S V E S V V T F E K A I H
UniRef90_I7J863 E A F R L G A D V T V V H S S G S F P C V R N I H A T S A A E M R S A V L
UniRef90_Q2FUB0 E A F R L G G D V T L I H R D E I H I G R N I P V T T A S S M G D A I R
UniRef90_E1NQ21 T T I H V A S A Q E M L T V A E
UniRef90_T0T4T0 K A L M N G F E V I V L A G V H A L K C H S R Y K L I R L T T T K E M L T H A E
UniRef90_UPI00037555E6 E L M S Q G Y D V V Y I H S K A I S P V A G A K N I S F D T S K E L Q E S M N
UniRef90_B8GKP3 E A F R R G A E V T V V H L D R F P C V R N L Y S D T A A S M R E Q V M
UniRef90_M0LS76 A C Y V R G A D V T L V H G V V G L Q R S V P Y A D V R E V E S A T E M L J A T R
UniRef90_L0HMN0 Y A Y Y G A D V T L L L G L H S A Q V P S Y L K F R R F G T V S D L M N R I E
UniRef90_UPI0004770FF3 T F L K A G Y Q V S L V T T K S A P N I H P N L T M E V D S N V D S L Q Q T L E
UniRef90_L0AC83 E S Y S R G A T V D L V Y G H T E V Q V I H T V N S Y H V D T V N M A N K I S
UniRef90_E1X539 E L L K S G H Y V K V I A G K N A L S A H P R F S L E R V V S T R D M L K S A L
UniRef90_E1RK29 A A F R L G A D V T V V H G G E E L P L V R N I G L R S A S E M R E A V L
UniRef90_T0M0H9 N A F R L G A S I T Y V H G N S E Y D I P G Y V T Y M E K Y N L R E I I E I N
UniRef90_M0FKS2 A L A V R G A D V T L V H D G D D A H Y A D V L A V E S A A E M L E A V E
UniRef90_E8QS43 A L Y F K G A K V T F I A S N F P T P L P K E I T N I L V S D T Q S Y E N A L N
UniRef90_G8P716 K F L Q A G H E V F L A G L Q A P E N A A L L H I P L E G T K D L Y Q Q M E
UniRef90_F9F009 V C R M A G A Q V T L I Y G Q L Q T P L P T G Y H M E R A I S A Q E M Y D A V H
UniRef90_U1QNC5 A C Y A R G A E V V V H D G P D L L P W A T V I E R V E S A A E M L D A V L
UniRef90_U1PVH8 Q A S R R G A R A I L V A A N V S L L A G T P A E V R T V E S A A D M H A M D
UniRef90_D1YH15 A A L V A G A E V L I S G P H I A V S L P P S L K N I K V E T T E Q M L S A V K
UniRef90_UPI0003EB58C4 A A A R R G A N V T L V S G P V S L P M P P F V K R V D V I T A L D M E A A V Q
UniRef90_U1NWJ7 A C H I R G A D V T L V H D G V D A H P Y A E V I K T E S A A E M L J A V D
UniRef90_G4R4R0 R F L Q Y H H D V T L V T T K T A T K P L P N L R I I E V E T V N D L M A A L K
UniRef90_F8DGU5 M A L A K G H Q V T L I T T P T A L D P H P H L H L L V Q N V E E L L T Q M K
UniRef90_X1CP11 E G A S R G A R I V L I S G P T S L D P P S G V E F H W V E S A R E M Q K I R
UniRef90_R5QWE7
UniRef90_J9YZZ1 S L I K N N F K V I C L H G Y L Q P I V S K K I S Y I F T P N A E S M L K A A K
UniRef90_A8MAE7 E A A A R G A E V Y V V S G P V N V I K V P N G V N V I N V N G V D M R N A V V
UniRef90_UPI000462CA17 Q A L K G G H E V T L V T T K Q A V K P D S Q L T I I E I T N V D S L K E T L E
UniRef90_G019Q1 T L L A S G H E V C L M T K R A L K P H P N L S L Q E I N N T N D L L L E M Q
UniRef90_K9XNQ0 E L Y L R G A N V K L I H G K S S F L P P A F L P Q Q I N T Y A E Y R E Q V L
UniRef90_R7MSJ5 L F L A K G H Q V T L V T T K T A V K P E P N L K I T E I T N V E S L L K K M E
UniRef90_Q97A07 V A Y R M G F S H I T Y I G N S I V D L P T Y V N Y R A A Y T V D E F E R L S E
UniRef90_T1Z2P9 S F L A Q G D Q V T L V T T Q N A V K P P N L T I Q I I E N V Q D L L E T M Q
UniRef90_W4VEQ9 M Y E Q V M
UniRef90_UPI000288F3D4 E A W M R G A A V E L I L G K G S R S A P E Y I K A K T A A T F E D Y R R T L N
UniRef90_H1KUG3
UniRef90_C7P0G9 A C Y V A G A D V T L V H D G P D V P V A E V R R V E S A A E M T A A T T
UniRef90_F5Z196 L F L D H G D Q V T L V T T N A T I K P D P H T N T Y I S N V D S L L M T L E
UniRef90_S5QX83 A F L E K G N H V T L V T T K E A V K P H P L T V H T I T N V D S L L K T L E
UniRef90_B5IBQ6 F A Y Y Y G A S V N L L I G L H S V D I P E Y I E Y E E F G G I D T L M Q K I
UniRef90_I7MY52 E F L K H Q H E V T L V T T K S A I A K P V D R L T I E I T T V K D L M A V L Q
UniRef90_K2BJ29 A V K I G A R V T L I S G P V A I A P P E G V Y K I D V V T K E M L D A V I
UniRef90_UPI0003772620 E A L K S G A S V I Y L H G Y F A E K P E G T H K L H S F E G I D L Q D K M K
UniRef90_U5P7L9 Q F L D A G F S V T L V T T P T A L Q P H P R L T K V I I N D V A E L Q T V L E
UniRef90_B7KD59 E L Y L R G A D V H L I H G E G S Y H P P A Y L P Y Q L A K T Y D E Y L A L V L
UniRef90_UPI00046EB871 L D A C T
UniRef90_Q3Y1X9 Y L A A N P I D Y V T T K G A L K P K R H S N I T L Y T I E S A L D L F L Q L E
UniRef90_D2VZL8 E F V K R G H L V Y Y I H G K V P S K K Y P N I L L P Y F T F D E Y L E V L K
UniRef90_T0RJU0 E A L K R G Y R V Y L I A G K N D L A F L P G F E S Y R I T T T R D M R E K V L
UniRef90_M4VTH2 I L I E S G F K V T Y L H S T Q S L L P Q N T C N K I S Y D S F T D L Q T A L K
UniRef90_UPI0002627B86 Q A W F E Q A T I Q L I L G Q G S M T P S Y L P H Q R V V D F S S Y R E K V L
UniRef90_Q4A742 L A F D F D L T V I N A S Q H L N S K I P A N V K V I N V N Y I N E Y K E A V F

UniRef90_UPI0003B69117 A A A A E A D V V V 90 M T A A A V A D Y R P R E V R A E K L K K E A Q G E T M N P D
UniRef90_B6BJW8 H L I Q K K P Y L F V M A A A V S D Y R V P K F V Q N G K L K K K E M L G N S F E L S
UniRef90_UPI0004703A93 A R V A D A D V L F V G T A A A V S D Y R P V A P A E Q K K K K K F D E M Q K N P D
UniRef90_UPI00047055C4 A V W E D C D L F V I K A A A V S D Y R P K E R A E D T K I I K K K T G D T M T K T V D
UniRef90_UPI0003B79D7E V A A G D V D A V V M A A A V A D F R P A R Y A E A K I I K K K S H I E L V R N P D
UniRef90_Q9YA10 E L T S E S A D A V V A A A A V P V D F R P A G A F E S G K L R S G Q R L V L V R N P D
UniRef90_A5GW41 R H Q A S A A A V V M A A A V A D Q R R L Q Q P L S G K L R S S K Q E L Q W E M V P D
UniRef90_F3A0E4 N N F K D C D Y I V K A A A V S D Y T P V L V F D K K V K K Q D M E F E R T Q D
UniRef90_A0A022LFT7 R E S E V A D V V V M A A A V A D Y R P V Q V S E R K L T K P A I D L T E N E D
UniRef90_T3QS36 S N L S E N K L V I Q S A A V A D Y K P K T Y S D K K I K K K N D D L S I R N Y
UniRef90_W6EGV3 S Q M E K T P Y L L M A A A V S D Y V P I K T H E G K L K K E E L G E T Y T K R
UniRef90_B1H0K2 S N F K K A N L I I S V A A I A D Y C P V K T C K C K K K D S L G M L I K L K
UniRef90_X1LB59 D N I A W C D G L I M A A A V S D Y K P Y S K S S E K I H K L N L K L K K N R D
UniRef90_D5VS03 E L G E E V D I I S C A A I S D F V P E K K S E G K I S S D V E E I T I K L R
UniRef90_B9LAA2 N E S P D Y L L M A A A I A D F K P T K Y T P G K L K K D S I G E Q M L L E
UniRef90_A8EWU4 K E S K K Q S F L F M V A A V S D Y L P T F A Q E G K L K K D L I G I N W L E
UniRef90_L9XDW6 D V C T D A D T L V S A A A I G D Y T V E G S D E K L R S G R E R S L E L E P
UniRef90_B9LUV9 R T A A T A D A L I S A A A I S D F T A D A V D E K L R S G S P L S V D L E P
UniRef90_R5LDD4 S E L K N T D L F M A A A P L D F K P A K T F D K K V K K Q N I N N L E N D D
UniRef90_A9BDJ6 E L Q S D S N A I A M T A A I S D I R S K G G S E S L I D S I K D S F E L V P D
UniRef90_X5FQT3 K N L N H D F L I M T A A V S D F I P Q S V K G K I K K N E H L Q G L N K H
UniRef90_Q30RV5 H L I Q K K P Y L F M V A A I S D Y V V S Y A Q S G K L K K E S L G E S W N K E
UniRef90_G4RNJ5 E L A P H Q D L M V F A A A P L D F Y V E G R T S G K I D S F Y T V R L I R A P
UniRef90_X1K1L2 R A V A Q A D A L I M A A A V A D Y Q P K D V A K A K I K K
UniRef90_L9W124 E A C E T A D T L V S A A A I G D Y T V E P S A E K I R S G Q E L T L S L E P
UniRef90_T2LKR5 E Q N S N K D Y L I M A A A V S D F I P E F K K G K I K K N E H L L E G L N L R
UniRef90_V5RJV6 K N F F E D S D V L I C A A A L A N D F E V L E Y V D K K I K K R N L K N N Y S I
UniRef90_X0T880 K Y F P E A D V L I S A A A V A D F R P K K V F A G K I K K T K N E N P F I P D
UniRef90_T0DIY3 G L E N Q F D T Y I S T A A I S D L K F K T A E S K L K K E S L E F E K A Q D
UniRef90_UPI0004718AB4 Q K F N K G D L L V M A A A V S D F I P N K V K G S K D D T A G V L T L N F R K
UniRef90_Q12WR6 K E L E H D Y D M L I S A A A I S D Y T I D A M D D K I K S G G D I S L K F R S
UniRef90_X3UN57 A A V Q Q Q H T F I S C A A V A D Y R A E T I A S E K I K K Q I K M V K N P D
UniRef90_W6A9S5 L Q F E Q Q A N I V I C L A A L A N D F Q T N P V N E K I E K R F V N F E P A I D
UniRef90_U3U3E4 A Q I S Q Q D I V I F I S A A A V A D Y R A A N I A A E K I K K Q G W R
UniRef90_G2MGW1 D A V A D A D A F V S A A A V S D Y T L E A S S E K I R S G E E E T L R P T P
UniRef90_F0QYA5 K L V S H Y D L A I L T A A P L D F Y R I V K D R V S G K L S S D L N R V V I Q A P
UniRef90_UPI00029A1B03 V E F K H Q D L I F I S A A A V A D Y R I T Q P F T Q M K K S G E P L T P L D
UniRef90_UPI0002F629C0 S E A S T A D A V V M A A A V A D F R P A R P G S A K T K K H P I E L V T N P D
UniRef90_Q7VG16 K T F N S L D I L F M A A A I L A D Y A P K P Q S G K L K K E Q I G E N L S L L
UniRef90_I7J863 R V C R D E D I Y V S A A A I S D F A P E R R E G K I P S G S P L T V R L K P
UniRef90_Q2FUB0 S V M E E E D I Y I S A A A I S D F A P E C I S G K I P S G K P A T I H L R P
UniRef90_E1N1Q21 H E F S D A D V L I M T A A V A D F R P K N Y C P D S K I K K Y Q L E V K N P D
UniRef90_T0T4T0 R E T E G A V A Y I S S A A A L C D F E F D Y Q D S K I K K E N S T Y S K A P D
UniRef90_UPI00037555E6 T E S N N A E H L Y M V A A V S D F I P E K I E G K M K R S E G N M T L N L S
UniRef90_B8GKP3 Q V L D E A D Y L V S A A A V S D F Q P V R Q S G K I P S S G T C R I E L A P
UniRef90_M0LS76 E A C T G A D A L V S A A A I G D Y T V E T S D E K I R S G R D L E L E F E P
UniRef90_L0HMN0 E M M N Y D A I V V P A A L P D F K P E R R E G K I K S S R V Y F E E N P K
UniRef90_UPI0004770FF3 P L V K N H D V L I H S M A V S D Y T P V Y M A E N K L S S A D D Y Q K K T P K
UniRef90_L0AC83 E L T S D Y D L I I G A A P V D F N V E K Y E G K M K S E L N Y Q I N L V P
UniRef90_E1X539 E S T I D A D A Y L S A A A I S D I E F I Q G E S K L K K N Q L E I N T A P D
UniRef90_E1R1K29 D I L E N N P G Y Y V S A A A I S D F A P E K F E G K L P S G T P T A I R L K T
UniRef90_T0M0H9 T Y I E N K Y D Y L I M P M A L M D F L K E S K K L D S N S E H D L T L T P
UniRef90_M0FKS2 A A V D A D A D A L V S A A A I S D F T V E A A D R K I R S G E A R T L D L E P
UniRef90_E8QS43 K T A K N K P L L F N H S A A I S D Y A P K T S F N H K L K K S E L G G T L N I E
UniRef90_G8P716 K L V P K M D V V I H S M A V S D Y R P V Y M T G K I S S K S D H Q I M K T P
UniRef90_F9F009 K Y I E D Q D V F I S V A A V A D Y K V K N S S P H K L K K K I Q K I P R P L N
UniRef90_U1QNC5 A H T G R D A L L S A A A I S D Y T V E T A S A K L R S G Q T N D L R P T P
UniRef90_U1PVH8 A A R E A D V V V M A A A V A D Y R P A A Y E R T K Q K K G V L E L V E N P D
UniRef90_D1YH15 T A F L I G A D A L I M A A A V A D Y E P V N Y I A H K I K K Q D Q G
UniRef90_UPI0003EB58C4 A A V Q Q Q H L F I S C A A V A D Y R A E T I A S E K I K K
UniRef90_U1NWJ7 T A S N D A D A L V S A A A I A D Y T V Q E A S A K L R S G E A R T L E L E P
UniRef90_G4R4R0 D Q V P H H D L I H S M A V S D Y T P V Y M S E P K I S S Y Q V L F L K K T P
UniRef90_F8DGU5 T E V P Q H Q V L I H A M A V S D Y T P V Y M Q E A K I E E Y Q V L F L K K N P
UniRef90_X1CP11 E K M G E A D G L V M S A A V S D Y A P A K K E N G K I K K T T Q V L K F Q N P D
UniRef90_R5QWE7 K N K N V D L A I F N A A V A D Y R P R E V S A E K V K K S D G E M A I R L D
UniRef90_J9YZZ1 E V L K S R R I H I A V A A P L D F Y V G N R V S G K L K R N D V D K V E I K A P
UniRef90_UPI000462CA17 P L V K N R R Q A L I H S M A V S D Y T P V Y M A E S K I S S S K D D Y Q K K T P K
UniRef90_G019Q1 E R I Q D Y Q V L I H S M A V S D Y T P V Y M H Q A K I D E V Q V L F L K K T P
UniRef90_K9XNQ0 A E L A S K Y L R I F S A A V A D Y Q P E T V F P G K I P S G V L K T I N L V P
UniRef90_R7MSJ5 P L V K E H D V L I H S M A V S D Y T P I Y M T D S K L S S Y Q V L F L K K T P
UniRef90_Q97A07 E E A N N Y D Y I V H S M A L P D F K V I E K S E K K Y S S N E S H K L T L E P
UniRef90_T1Z2P9 P L V K T H G V L I H S M A V S D Y T P I Y M T Q G K I D E Y Q V L F L K Q T P
UniRef90_W4VEQ9 Q L F H Q V D I V I K T A A V A D Y R P V K I M D Q K I K K K T G P F S V D M E
UniRef90_UPI000288F3D4 E S L G N Y D W G I F T A A V A D F Q P E S I F E G K L P S N D G S T Q L V P T V K
UniRef90_H1KUG3 P A D L A I F A A A V G D W R P A E M R A E G K L K K D G S T P A N P D
UniRef90_C7P0G9 E A C A D A D A L L S A A A I S D Y T V E Q R D R K I K S G E P S L T S P T P
UniRef90_F5Z196 P L V K E N D C L I H A M A V S D Y T P V Y M T D S K I S S S K S D Y Q V L F L K
UniRef90_S5QX83 P L V K T H D V F I H S M A V S D Y T P V Y M T D S K I E E Y Q M L F M K T P
UniRef90_B5IBQ6 E N M R G Y D A I I V P A A L P D F K P E K R E G K V K S N A I E F E E N P K
UniRef90_I7MY52 E Q V P H H E L L I H S M A V S D Y T P V Y M T D Q K L S S Q S D Y Q K T P K
UniRef90_K2BJ29 E N F A D A D V L I S A A A P C D F R F I E K K L G A A K K D I D N A G L R
UniRef90_UPI0003772620 Q I I E K I D I V I M A A A G S D W I V D K I V D Q K L S S D I P P V I H F K K
UniRef90_U5P7L9 K E T P T H Q L I H A M A V S D Y S P V Y M S E S K L S E E D Y Q V L F L K K
UniRef90_B7KD59 E Q L S Q K S Y G I F S A A V A D Y Q P E T V L P G K T P S G G V K T L Q L V P
UniRef90_UPI00046EB871 A A L P C D I A V C A A A V A D W H V V P A P Q K I K K T T P Q L V P N P D
UniRef90_Q3Y1X9 E L T E H Y D A I I H S M A V S D F T P A F S F S E K I S S N T E H V L K K T P
UniRef90_D2VZL8 Q T T I E C D V V L S A A A V S D Y G V Q Q A H E G K I S S D L D T Q T V K L P
UniRef90_T0RJU0 E Y F D K A D F Y I S S A A I S D I E F S P S E G K L K K D K L E F N Q A P D
UniRef90_M4VTH2 A T L Q Q E H V V I H A A A V S D Y S V Q R Q G G K I S S Q A D E L I K N P K
UniRef90_UPI0002627B86 S G L V D G I Q G D T A I F S A A V A D Y Q P T H V Y P G K L P S G H Q L T L S F E Q
UniRef90_Q4A742 S E I K N S D G F I S V A A V S D F I F E K I D N K I S K N N S K Y H I G S D

UniRef90_UPI0003B69117 V L A D L V A A R R T G Q I L V G F A A E T E P D R D A G R A K I A R K P A D L 160
UniRef90_B6BJW8 L T K N V D S I D K D G L V T I G F K A E M D S A M K S A S K M I D T K K G I D A
UniRef90_UPI0004703A93 I I A T V A Q Q R Y P E V F T L I G F A A E T Q D V E M Y A K G K L A N K K L N D M
UniRef90_UPI00047055C4 I L E T L A G Q R Q H Q E Q L L I G F A A E T G N A E M Y A K G K L V R K N L N D L
UniRef90_UPI0003B79D7E V L A G L V R D Q H D R P Y I V G F A A E T G D G T D L A R A K L A R K G C D L
UniRef90_Q9YA10 T P K V L E G I A R R D P K V L V G F A A E Y V D N R D P A E K M E K Y D A D L
UniRef90_A5GW41 L L H Q M V I Q R R S A D Q V L M G F A A A H S G D V L P Q A E K F E Q R K G C D L
UniRef90_F3A0E4 L I K Y V G E N K T E E Q I V V G F A A E T N D L L A Y A R E K I V K K N L D Y
UniRef90_A0A022LFT7 I V A S L A A A R R P E G Q L V V G F A A E T A E M L I A R A R G K Q Q R K G V D V
UniRef90_T3QS36 D I A Y E I G K I K E D K L L I G F A A E T N D L I E H A K G K I K R K
UniRef90_W6EGV3 N V D V L T S L P K R G F K M V G F K A E I D E S K A N A G K M L E K K G L D A
UniRef90_B1H0K2 R I I G Y C G K N K K N Q I V A G F A A L E T E N L I G N A R K L K L K N K K L D L
UniRef90_X1LB59 L L K E L S K Y K G R R L M V G F S L E T D K D H L K R G R E K L D S K K L D L
UniRef90_D5VS03 R L K K L R E R F K D K I V G F K A E Y N E L I E R A K R R L E E Y G L D L
UniRef90_B9LAA2 M E K N I D S L D E K S E F K K V G F K A E R D E K N A Y A K K A L K K N L D A
UniRef90_A8EWU4 L K Q N I D S L K E K S E I S I G F F K A E M D E I A Y A Q A S M L E K K N L D G
UniRef90_L9XDW6 T P K L I D S I R D E R P E I V G F K A E S G D E S A Q A R D T L E R A G L A F
UniRef90_B9LUV9 T P K L I V R E A Y P D L P I V G F K A E T S G M V I A E A E R I R D R V G L V F
UniRef90_R5LDD4 I L A L T K R K S E K T L I V S F A A E T A E T E K Y A I D K M N K N A D M
UniRef90_A9BDJ6 L I S D L T K K R P K N Q V I L G F T A L T G S D Q K V K K G K K S K K G C D L
UniRef90_X5FQT3 L S L N L L K T C K F Q G K K I G F K M E F D E N A L E N A K K S L K D K Q L D M
UniRef90_Q30RV5 N L D I L S S I D K K G I T T I G F F K A E M D E Q N Q N A Q K M L E K K S L D A
UniRef90_G4RNJ5 K M A S E A R R L N P R A V I V G F K A E H G A S E E E A E A R M K E G G W D L
UniRef90_X1K1L2 T P K L I D E V R G E R P E I V G F K T E T S G M I E Q A R R T L E R A G L A F
UniRef90_L9W124 L N E D L L K N L N F K G K K I G F K M E F D N A L E N A K K S L N D K K L D M
UniRef90_T2LKR5 V L K E L G S I K R N Q F L V G F S L S N E F D F Q K A K E K L V E K N L D M
UniRef90_V5RJV6 I L Y E L G K
UniRef90_X0T880 I L A H V V A N K S A H Q T I I G F A A E T D L S K D I L E S K Y N R K P T K L
UniRef90_T0DIY3 N L D I L T S V D V D G I K K I G F K L E V D E K T E N A K N M L K I K K L D A
UniRef90_UPI0004718AB4 T R K L I R E V R D A Y P Y I I G F F K A E A D E L I A R A K D S M K D A D L D M
UniRef90_Q12WR6 I V A G V A A L S D N R P Y V V G F A A E T
UniRef90_X3UNS7 V L K T L G T H K T N Q F L V G F S L A N S F D L Q K A W H K V K E K N L D L
UniRef90_W6A9S5
UniRef90_U3U3E4 K L V D A V R E R Y P D L T L V G F K A E T G G D D E Q A R S L R E R I N A A F
UniRef90_G2MGW1 K I A R D L K R F S T G T F L I A Y F A A E V G I T E E I A R T M R R A S E G D W
UniRef90_F0QYA5 I L G T L S Q R A A T S Q L I V G F A A E T H N I I R F A E E K R R K G V D L
UniRef90_UPI00029A1B03 I L A G L V A E P Q G Q L I V G F A A E T G D E E A H G A A K A R R K G A H L
UniRef90_UPI0002F629C0 C S K T L S S I S Q K A Y K V V G F K A E I D D V N A Y A Q N M L K A K E C E M
UniRef90_Q7VG16 L P K V I D E S V M A C R P V T V A F K L G W H E E E R A R A M L K A G V R M
UniRef90_I7J863 L P K L L D L T L G T I P V T V A F K L G Q S A H E E A E Q L L L K G V T M
UniRef90_Q2FUB0 I L Y T L A Q S K N E K Q L V V G F A A E T N N L L E A N A H T K L S N K G A D M
UniRef90_E1N1Q21 V L K E I G E Y R D S G M K I I G F A A E T N L T E E I L Q E K W R R K P V D L
UniRef90_T0T4T0 P N V D I V K E Y K E K Y K M I S F S A Q T N D D L N F E K I N E K N S D F
UniRef90_UPI00037555E6 L G K V I D A A H P A R P S V V A F K L G W E T G A A S A L L E A G A S L
UniRef90_B8GKP3 T P K L I D E I R A D R P E I V G F K A E T S T M I D R A R E T L E R T D L A F
UniRef90_M0LS76 F L R E L R K R F E G F L V G F K A E S G I S R E R A R R R M K E Y S L D M
UniRef90_L0HMN0 L I S S I K K W N P N Q L I G F K V S K E E L W A V A R D S L K K N Q A D Y
UniRef90_UPI0004770FF3 A K K A L K S I S K R P K V L I S F A A E S Q E L L E K A R E K I A K Y N S D I
UniRef90_L0AC83 V L K N I L I E S R N P K L K V I G F A A E T N L S E E I L L I E K W N R K K V D L
UniRef90_E1X539 L P K L V D E L Q M P G T K V I A F K L G W N E M E K A K E L T I G S G V S M
UniRef90_E1R1K29 R P K D R I R Q M A P G A V L V L F N L E S G K T Y N S K K F E K S D P D M
UniRef90_T0M0H9 A P K L I D A V R E S H P D I V G F K A E T T G D D E E A R R I M D R V I G L A F
UniRef90_M0FKS2 C V K D L L A S V D P N Q F I I G F K A E D D N A M Q N A Q N L L K P K D C S V
UniRef90_E8QS43 K I I S Y I K K W N P K V L L F G F K V E N S E L L H V A R E K L L T T E A D F
UniRef90_G8P716
UniRef90_F9F009 K L L D A V R T E H P D L P I V G F K A E T E G D H E Q A R R I Q R R V D L A F
UniRef90_U1QNC5 I L A D L S R R R R R G Q T V V G F A A E T G D D W E H G R A K A I R K G S D L
UniRef90_U1PVH8
UniRef90_D1YH15
UniRef90_UPI0003EB58C4 T P K L L D S V R Q A H P E L V G F K A E T T S D F E A A T A L R D R V D L S F
UniRef90_U1NWJ7 K V I S Y V K Q W N P N I K L V G F K L L V N V P Q E E A R A S L A K N H A D Y
UniRef90_G4R4R0 K I I S L V K E W S P A I Q L I G F K L L V D V S S E E A R E S L V K N H A S M
UniRef90_F8DGU5 I L K E L G Q R
UniRef90_X1CP11 I L Q Y L G L H K R E D Q F L C G F S M E T E N M L G N S R A K L V K K N L D M
UniRef90_R5QWE7 L L K T I S N I S S G P Q I T V G F F A Y E T N D V K T N A L K K L K K N C D Y
UniRef90_J9YZZ1 K I I N E A K A A S P S T I I V G Y K A E V N D E R N A L K R R M S E G S W D I
UniRef90_A8MAE7 V I S Y V K K W N P S T I Q L I G F K L L V D V P K E E A R Q S I D R N G A D Y
UniRef90_UPI000462CA17 K L I S L V K E W N P T I H L I G F K L L V D V T E D H A R K S L I K N Q A D L
UniRef90_G019Q1 T A K V I V R A K P P H L E M V T F K Y Q H E Q L M E I A R A R L N Q G Y Q V
UniRef90_X9XNQ0 K V I S L V K Q W N P D I Q L I G F K V S K E E L F E V A R A S L K H N K A D I
UniRef90_R7MSJ5 R E K L V D K L N I S K G K I V A F R L T E N I G E D P F K H F S K R I D M
UniRef90_Q97A07 K I I S Q V K K W N P N I R L I G F K L L V E V S K E K A R A S L V K N Q A E I
UniRef90_T1Z2P9 R T V D I L G Q N K N R Q F L V G F A A E T E N I K Q Y G K K L L D S K N L D A
UniRef90_W4VEQ9 V I E E V R Q H F P E L K M V T F K Y E H E E L M E I A K N R L S E K G S Q L
UniRef90_UPI000288F3D4 I L A T I G R S E G R P P L V I G F A A E T D D V I V N A Q K I A R K G C D W
UniRef90_H1KUG3 K L V D A V R S E R P D L P I V G F K A E T D V D D E R A R E I R D R V D M A F
UniRef90_C7P0G9 K V I S M V K D W N P T I Q L I G F K L L V N V S E E E A R D S L R N N K A A A
UniRef90_F5Z196 K V I S L V K S W N P D I C L I G F K L L V N V S E E A R E S L Q K N K A R Y
UniRef90_S5QX83 F L K R L R R E Y K G F L I G F K A E S E E L I R R A K E R M E E Y E L D M
UniRef90_B5IBQ6 V I S Y I L K E W N P R I K L I G F K L L V N V S K E E A R A S L Y Q N K A D Y
UniRef90_I7MY52 D I L E A A S V L K K G Q L V V G F A A E D N N H L A N A V R K M K V K S M D M
UniRef90_K2BJ29 A P K V L S Q Q W D S G V M L V G F K L E S G E L I A R A Q I R M D G A Q A D F
UniRef90_UPI0003772620 N P K L I V K T W N P E I R L V G F K L L V D V S Q N Q A R A S L E K N Q A E M
UniRef90_U5P7L9 T L K V I V K Q R F P D L S M V T F K Y Q E N V S H E E A Q E R L K R G Y S A
UniRef90_B7KD59 I L A T L S Q P S P M R P L V V G F A A E T E Q V D A H A S A K R L R K G C D W
UniRef90_UPI00046EB871 K I I S Y L R E W Q P K A K I I G F K L L V D V P K E V A K N S L I N N K T D F
UniRef90_Q3Y1X9 K I I S L V K H W N P K V F L V G F K A T T E T L I D T A Y K S G I R N H C N I
UniRef90_D2VZL8 I L K E M V E R K T A N I R I V G F A A E T D L S F E V L N K K W T R K P V D L
UniRef90_T0RJU0 I L D E I K K L S P Q T L L V G F K I T G D V K Q K V J A S L L K S A D C D F
UniRef90_M4VTH2 T P K V I V R A A Y P K L K M V A F K Y E E N R T H E E M I Q R A R A K E Y Q L
UniRef90_UPI0002627B86 V L K E V S N K Y P N K I M V G F S L D S N N Y K E K A K E K I T I N K K E S L
UniRef90_Q4A742

UniRef90_UPI0003B69117 L V V N H V G W S S G F E R E E N A I E V L V P G G D V V R E A G S K A E V A 170 180 190 200

UniRef90_B6BJW8 V C L N I L K D S S S F G S D R N M V E F I T P D K T E S L P D A D K L S L A

UniRef90_UPI0004703A93 I A C N D V S D Q S I G F N S D Q N A L V S I V I T Q R S A V V S L E K N D K Y K L A

UniRef90_UPI00047055C4 I V A N D V G V P G A G F S V D T N L V S I Y D Q R G V E L P L L S K D E V A

UniRef90_UPI0003B79D7E L V A N E V G T D K T F G E D T S T V H L L R P G T E E T V T V G T K T A V A

UniRef90_Q9YA10 V V A N R V G V E G V G F A S P L L D V L M L D K S G E A V L K G S K E L V A

UniRef90_A5GW41 L F A N P I D Q P G V G F A S A N Q G W L L S R G A S E A M G P C S K L A L A

UniRef90_F3A0E4 I V A N D I S Q K D I G F G S D N N E V I I D K N N T I K I D K S S K T N I A

UniRef90_A0A022LFT7 L V V N E V G W E R G F E S V E N A V H I L G P G G V E A G A A G S K R A V A

UniRef90_T3QS36 V C L N V L K E Q N S F G S T K N E V H F I T A S H V Q K F A L A G K F E I A

UniRef90_W6EGV3 I T A N G K E S F G S D S A T M Y T I D A D G V L E M K N K N K K L I A

UniRef90_B1H0K2 I V L N S T D A I G C D E N A R L L K R G K I I K I G Q V G K Q L A

UniRef90_X1LB59 I I A N D L S K N Y F G S D N I E A Y I I K K Y G E V K K C H G S K K E V A

UniRef90_D5VS03 I C L N L L T K N D F G S D E N E I E I I T E N D S T L F A Q N S K E N I A

UniRef90_B9LAA2 V C L N I L N E E N S F G S E N N S I E L I L K N K N K S T F A Q S K K E L I S

UniRef90_A8EWU4 V V A N D A S V M G A D R T A A L L V H E D D A A R Y E G T K S G L G

UniRef90_L9XDW6 V V A N D A S V M G D D E T R V L L V G D E G T E P T E A G S K D T V A

UniRef90_B9LUV9 I V A N N I K D A I G K D T N K I T I F F K D G V K D F P I L S K K E C

UniRef90_R5LDD4 L F A N P I D K P N Q G F D S E F N G G W L L G P N D R A S I P V A S K L S I A

UniRef90_A9BDJ6 V C L N I L D Q K N Y F G S D Q N E L Y F I T L N N E N K S T L Q S K E L I A

UniRef90_X5FQT3 V C L N I L K D S S F A T D T N S V D F L S K N K H Q K I A L C D K K E L I A

UniRef90_Q30RV5 A L J A H D V S R M G F G T L K D K Y I V L Y R D G R R E L G P A H K R E L A

UniRef90_G4RNJ5 V V A N D A S V M G A E R T T A L L V H D E D A A R Y E G T K A G L A

UniRef90_X1K1L2 V C L N I L E E E N Y F G S S K N E I H F I T A S K I E K S G L K S K Q E L A

UniRef90_L9W124 L V V N L L D S V G N D K T S L K I M F N D N T I H L D N L P K H S V A

UniRef90_T2LKR5 L V G T H V N S E R K G F G N N E A N Y T I L N D G E I A F T G E L S K I E L A

UniRef90_UPI0004718AB4 V C L N V L L G N V K F G S D V T K I S F I T D K K V V E I A E N S K E K V A

UniRef90_Q12WR6 V V A N E V G T S G M G T I D N D V Y I I P A N G E I T H V S G N K R L I A

UniRef90_X3UNS7 L I L N L T S A M S E N N Q I K I L V A G Q V I E F D E M A K T K V A

UniRef90_W6A9S5 V V A N D A S V M G K T K T R A L V V D A E A S S T F E G E K G G L G

UniRef90_U3U3E4 L A L A H L V G K G R G F G T E K D E V I V L D R A G V R R I G P V N K R E L A

UniRef90_G2MGW1 M I V N D V S Q N D I G F E S E Q N A V T V L S A N Q A R L I P K T S K D E L A

UniRef90_F0QYA5 L A V N A V G D G K G F G D V P N A V V L D A Q G A E V A G E G T K A E V A

UniRef90_UPI00029A1B03 V C L N V V G S Q N P F G G E T N R L K I L T H K D I Q E V S G S K E E V A

UniRef90_UPI0002F629C0 V V V N A P P V M G A E G S F S L M T A G G V T E V S G S K E E V A

UniRef90_Q2FUB0 V C A N K P E N L G S D D A Q Y T I L D S F G Q K S I A G S K Q E I A

UniRef90_E1N1Q21 I T A N D V S Q D V F G S D L G A T I L T K D D D V K L P R M N K Q E I A

UniRef90_U1T0T0 L I G T H V H Q T Q K G F A T D G A T Y S F Y N E H G I S F Q E S K D Q L A

UniRef90_UPI00037555E6 L V I N N I N D I S F G S D T N K V I T I N K D K V F E S E E K N K H I I A

UniRef90_B8GKP3 V V T N T P D E M G T G S G T F G L V S L D Q T R T V S G S K E E V A

UniRef90_M0LS76 V V A N D A S V M G A D R T K A L F V H E K D A A R Y E G T K A G L A

UniRef90_L0HMN0 I I A N L L E D V K E D R T K A L V I F S D E E M E E F E G P K E R L A

UniRef90_UPI0004770FF3 I L A N D L M D I K D G Q H R A Y L I G K D T E I Q L E T K S Q I A

UniRef90_L0AC83 V V A N P A N L S G I G F S S L Y D R A I L L F N N G K I D V E K T L K E N L A

UniRef90_E1X539 L V G T H V S N T P L G F G V D Q A K Y S L M K D G Q I F F G E L T K K E L S

UniRef90_E1RK29 V A V N T P E S M G G E T G S Y T L V T S G G E S V E G K K E E I A

UniRef90_T0M0H9 V L L N S F D K T P F G D T K N D Y T I I S R N K T D E I K K I D K A G I S

UniRef90_M0FKS2 V V A N D A S V M G E S E T R A L V V R A D E T S E Y V G S K D G L G

UniRef90_E8QS43 V A L N L T K D S R P F G S L D N E L W L F S H K K T Q K I P S M N K L E A S

UniRef90_G8P716 I L A N D L K N I E G Q K H K A L L V S K N E V T A L D T K S E I A

UniRef90_F9F009 V V G N P A S V M G E T D T R A L L V D G D D R E A V E G S K L D L G

UniRef90_U1QNC5 T V V N R V G D A A G F G D V D T A I A I V D G T G A T V A E R G S K A E L A

UniRef90_U1PVH8 V V A N D A T V M G E A E T R A I L V D R E N D C E V V E G S K V Y L G

UniRef90_D1YH15 I L A N D L V D I Q T G M H K A L L I S N N E V A S A D T K E A I A

UniRef90_UPI0003EB58C4 I V A N D L T K I Q N G Q H Q A Y L V T D D Q V L E A S T K T E I A

UniRef90_U11NWJ7 I V A N N L K V P G A G F A G D T N V V T L I T Q D G E E E L P L L S K E E T A

UniRef90_R5QWE7 L V L N Y P I S K N N I F N N N Y N N G G I F N K K G S H H Q I G N V T K T S F A

UniRef90_J9YZZ1 V V A H D V S K L G F G T M N D V Y Y V N R D G S V K I G P A H K R E L A

UniRef90_A8MAE7 I L A N D L T D I K G N Q H I A Y L V D K T S E V Q A Q T K E E I A

UniRef90_UPI000462CA17 I I A N D L T Q L S A D Q H R A I F V E K D Q L Q T A Q T K E E I A

UniRef90_G019Q1 V I A N R G D E K G V N G E Q I A Y L V I T N Q T P P L K M I S K P E I A

UniRef90_K9XNQ0 I V A N D L S D I T P N Q H I A Y L V D E K N E K V T T K S A I A

UniRef90_R7MSJ5 A V V N S Y K T G P F G K T E N E Y R F V S K K F D V D L G R M P K P L L S

UniRef90_Q97A07 I V A N D L H I S N H Q H H A Y L V K Q D S V I E A N T K E E I A

UniRef90_T1Z2P9 I V L N D V S R N D I G F D A D H N E V I F M T K S G S E H I P Q A S K K D I A

UniRef90_W4VEQ9 V V A N R V E E F K Q D G T Q V A W L L E S K Q E P Q K H I G K K D I A

UniRef90_UPI000288F3D4 I V A N D V S A E G G V M G G T E N T V H L V A R D G V E T W P K L G K E E V A

UniRef90_H1KUG3 V V A N D A D V M G A E R T R A L L V G D D V S T Y E G D K Q G L G

UniRef90_C7P0G9 I I A N D L S G I N K D E H P A L L V S A E N S V Q K L E S N Q E I A

UniRef90_F5Z196 I L A N D L T E I K E D E Q H H A Y L L D E N S H V Y E A N T K K A I A

UniRef90_S5QX83 I V A N L I E D V D R D S T K A I I I F S D G E F E E F A G K K E D L A

UniRef90_B5IBQ6 I L A N D L A N I G P N Q H K A F L V S D K E V Q P V D T K E A I A

UniRef90_I7MY52 I V L N D V S T K D T G F A S D Y N K I T V I E K G S E D D F E K A S K A E C

UniRef90_K2BJ29 I V A N A S N A L Y T S E T N H Y I I S N D G E V Q V C L D K E N T A

UniRef90_UPI0003772620 I V A N R G E S E I Q D G K H R A Y L V T K D A V Q I A E T K L E I A

UniRef90_U5P7L9 V I A N R G E S E I S G E Q I A Y L V T Q N H P P L Q L I G K K V I A

UniRef90_B7KD59 I V A N D V S P T T G I M G G T E N E I M L I D A T G C E H W P R M D K A R V A

UniRef90_UPI00046EB871 L F A N D L T E I H G E T H H G Y L L S K D G T V E E A Q S K S E I A

UniRef90_Q3Y1X9 T V A N T T K D D M S N F G K R I T I T I T P E K S V I S T S V R E L P

UniRef90_D2VZL8 L V G T L V H H D K K V S G F A N N E A Y K F F Q N G E I I L E I I Q K A D L P

UniRef90_T0RJU0 I V Q N D W D E V S Q K K E H Y H V Y N R D L Q S T E V T G L T E L G

UniRef90_M4VTH2 V V A N R G E E F I E Y G D Q V A W L V E E D K S E E Q M I T S P A I A

UniRef90_UPI0002627B86 I V A N S T I S S L N N K N I N A S L L D K N N E I Y F E N V S K Y D F A

UniRef90_Q4A742

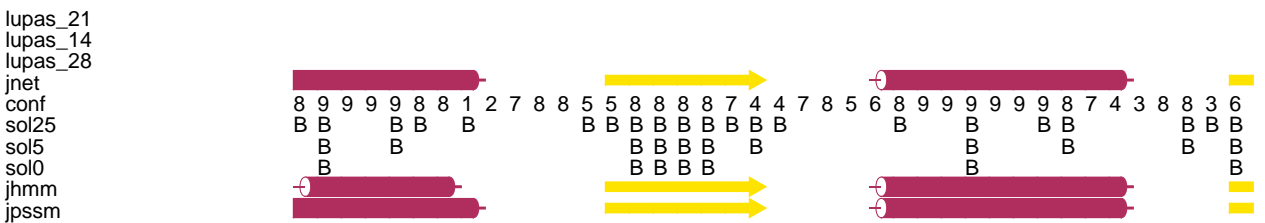
UniRef90_UPI0003B69117 A[V V L]D[L V A T A L]
UniRef90_B6BJW8 F D I L E H
UniRef90_UPI0004703A93 Q Q L V A L L V E A V S K
UniRef90_UPI00047055C4 R R L L A I A A D R L P E
UniRef90_UPI0003B79D7E E A I W D T V V P Q L
UniRef90_Q9YAI0 A V I A D E I A K L L S
UniRef90_A5GW41 H G L L D H L R L R L P Q A A R
UniRef90_F3A0E4 K E I V D T V T K
UniRef90_A0A022LFT7 A A I W G V I A E Q
UniRef90_T3QS36
UniRef90_W6EGV3 E H I V E Q
UniRef90_B1H0K2 E K I I D E T I R M F K
UniRef90_X1LB59 N K I L D E C I T E M T A K
UniRef90_D5VS03 K L I V S E V K Q L
UniRef90_B9LAA2 L K L V D A V
UniRef90_A8EWU4 L E I L E K L Q D E F K
UniRef90_L9XDW6 G E I A D S I A A I V G E R
UniRef90_B9LUV9 G Q I A D R L A V E L
UniRef90_R5LDD4 K E I V D I A V E E W R N K N
UniRef90_A9BDJ6 H
UniRef90_X5FQT3 F E L V K W C E K L
UniRef90_Q30RV5 F E I L E H
UniRef90_G4RNJ5 R E V L T R A L S L
UniRef90_X1K1L2
UniRef90_L9W124 G E I A D S V A A
UniRef90_T2LKR5 F D L V
UniRef90_V5RJV6 F E I I K A I N E K L A V H N
UniRef90_X0T880
UniRef90_T0DIY3 K E I F K R I
UniRef90_UPI0004718AB4 F E I A N L I
UniRef90_Q12WR6 E A L A D N I E D M L T K R
UniRef90_X3UNS7
UniRef90_W6A9S5 K I I L K T I N E L I
UniRef90_U3U3E4
UniRef90_G2MGW1 L V V A D R L A A V L
UniRef90_F0QYA5 R E V L
UniRef90_UPI00029A1B03 Q Q L I E L I A E H L E R K Q
UniRef90_UPI0002F629C0 E L L L D L I A E R L
UniRef90_Q7VGI6 F G I A S A F S Q L
UniRef90_I7J863 A A V W S E L L
UniRef90_Q2FUB0 T Q I Y D R I I E K H
UniRef90_E1NQ21 E S I V N H I I K L
UniRef90_T0T4T0 D Y L I E S L K K
UniRef90_UPI00037555E6 Q E I I K
UniRef90_B8GKP3 A A I W S T V
UniRef90_M0LS76 G E I A D S L V A I L
UniRef90_L0HMN0 N R I V E L M A E
UniRef90_UPI0004770FF3 Q M I L E L V S Q R
UniRef90_L0AC83 R I I L D S A L S L I K
UniRef90_E1X539 T M I A Q E I L
UniRef90_E1RK29 A A I W K E I G K L
UniRef90_T0M0H9 L E I Y R R I
UniRef90_M0FKS2 A R V A A E L A T E L E K
UniRef90_E8QS43 F K I L D F I
UniRef90_G8P716 D S L L K I S E E L K
UniRef90_F9F009
UniRef90_U1QNC5 V R V A D R L A S V L
UniRef90_U1PVH8 G I I L D A I S A
UniRef90_D1YHI5
UniRef90_UPI0003EB58C4
UniRef90_U1NWJ7 D R I A D R L V T E L D
UniRef90_G4R4R0 D L L Y E R M A K H
UniRef90_F8DGU5 E A I L R Y I
UniRef90_X1CP11
UniRef90_R5QWE7 V R I L N K I L G E I A R R
UniRef90_J9YZZ1 N Q V L R H I L L K A E N E
UniRef90_A8MAE7 R I I L D K A L S M L K
UniRef90_UPI000462CA17 Q L I L E T L E K
UniRef90_G0I9Q1 E L L L E K I Q A Y H S
UniRef90_K9XNQ0 K A I A D Y L E I Q L N S
UniRef90_R7MSJ5 R A L F E R I
UniRef90_Q97A07 K N L V E R L
UniRef90_T1Z2P9 Q Q L V T H I H T K
UniRef90_W4VEQ9 D Q L I K L I D E E I G K
UniRef90_UPI000288F3D4 N A I L D R I
UniRef90_H1KUG3 R R L V A R F A E L L A A K S
UniRef90_C7P0G9 R R V A A E L T G H L
UniRef90_F5ZI96 Q A I F E R V S A
UniRef90_S5QX83 N L I F E R V T N H
UniRef90_B5IBQ6 K R I V E I M A E S L
UniRef90_I7MY52 N L L Y E R L T K H
UniRef90_K2BJ29 R I I L D R A G A L M A K K
UniRef90_UPI0003772620 R S L I S K L A M I D S E K E Q
UniRef90_U5P7L9 Q E I Y R H I T N K
UniRef90_B7KD59 Q A I A D Y L E R L
UniRef90_UPI00046EB871 R R L V A R I A I F L H
UniRef90_Q3Y1X9 A L I T E K I R L E E
UniRef90_D2VZL8 N A L T T H V E K R V S H K H
UniRef90_T0RJU0 S A I F R E L E K
UniRef90_M4VTH2 Q F I F Q K T I A L L P E
UniRef90_UPI0002627B86 K A V L D R V A S
UniRef90_Q4A742 K E I K N Q L W K I I K A K

UniRef90_G1V401
UniRef90_UPI00037A5C5C
UniRef90_UPI0003B3F683
UniRef90_F9PC19
UniRef90_J3A1E6
UniRef90_A6DPR4
UniRef90_UPI00036EFE63
UniRef90_R3WBPB2
UniRef90_U4T509
UniRef90_UPI000375B73B
UniRef90_F3YBZ9
UniRef90_COASH9
UniRef90_R2NU72
UniRef90_U3STH3
UniRef90_S1QVC6
UniRef90_R2QB31
UniRef90_X0ZYZ8
UniRef90_R7MNT3
UniRef90_S6RWL3
UniRef90_V8CHA0
UniRef90_K8ZMD4
UniRef90_W0IYE7
UniRef90_W5XA16
UniRef90_R6VCZ4
UniRef90_UPI00035A0688
UniRef90_UPI0002555733
UniRef90_H2J9D7
UniRef90_UPI00037BE232
UniRef90_UPI0002656E54
UniRef90_X1TZQ8
UniRef90_UPI0003331C1C
UniRef90_B3T696
UniRef90_Q9BL36
UniRef90_U1YZ03
UniRef90_Q7QAC3
UniRef90_UPI000466C844
UniRef90_F1L940
UniRef90_B9XQB0
UniRef90_A8Q790
UniRef90_Q7KN99
UniRef90_Q9USK7
UniRef90_S9PNU3
UniRef90_A8HN61
UniRef90_S8DRD6
UniRef90_F4WMZ3
UniRef90_A0A022RU22
UniRef90_V4CKW2
UniRef90_Q69S81
UniRef90_UPI00023B2N1
UniRef90_M1BF12
UniRef90_M5Y8J3
UniRef90_K7IYV5
UniRef90_I3J7V0
UniRef90_K5V5R6
UniRef90_J3MQU0
UniRef90_Q6BYF6
UniRef90_W9YSC5
UniRef90_D8S1S8
UniRef90_UPI0002C3594B
UniRef90_B7FSH7
UniRef90_UPI000442020D
UniRef90_M3K5A1
UniRef90_UPI0003698FBA
UniRef90_Q8VDG5
UniRef90_A0A024JAX9
UniRef90_B9WEF7
UniRef90_I0YSG2
UniRef90_UPI0004432EEC
UniRef90_Q229Y7
UniRef90_U1R4A3
UniRef90_F0XJY3
UniRef90_A4RQF8
UniRef90_G7E0Y2
UniRef90_G8JRR3
UniRef90_UPI0004621E4D
UniRef90_X1DPE2
UniRef90_A4HE92
UniRef90_W1NFP7
UniRef90_R7U057

```

130      140      150      160
I L K T L A A D R R P D Q K V V G F A A E S Q N L E D S V R G K L V S K K A D M
UniRef90_UPI00037A5C5C K L I S L V K D W N P L I Q L I G F K L L V G V T K E E A R R E S L Q K N N K A S Y
UniRef90_UPI0003B3F683 V I A I R N L M P D A C C V G G F K L L E A G V T E D Q L R E S L Q S N N L D L
UniRef90_F9PC19 K I I S L V K E W N P K I H C L G G F K L L L V D V S Q E H A Q E S L E K S Q A D L
UniRef90_J3A1E6 K V I S L V K Q W N P A I K L I G F K L L V V N E L F Q Q V A R N S L N T N S Q M D Y
UniRef90_A6DPR4 K L V D K I R L A T P N E S F L V K F F K L Q V G D E L H D I A L N S L K A S A E L
UniRef90_UPI00036EFE63 F L K S L V K N W N P N I Q L I G F K V V S K D E L F A V A R E S L V A N S Q A R Y
UniRef90_R3WBPB2 I I A M L R E K Q P Q A V L V G F K L L V G V S T F A E E G H A T L A K N K C D F
UniRef90_U4T509
UniRef90_UPI000375B73B K I I S L V K E W N P T I Q L I G F K L L K E E L F A V A R D S L I K N H A K F
UniRef90_F3YBZ9 K L I A M I R Q L Q P C A V F V G F K L L V D V S K E E G L T T L E K N Q C D F
UniRef90_COASH9 I V A S V G K M V E H R P F V V G F A A E T Q N V E E Y A R K K N E N K
UniRef90_R2NU72 K I I S L I K K L Q P Q T I L V G F F K L L V D V V P M N V A K E S L K K N Q A D F
UniRef90_U3STH3 F L K S L V K Q W N P S I Q L I A F K L L V N V V S K E E A R S S L K K N Q A D Y
UniRef90_S1QVC6 I I Q S I R E H W Q H T T L V F G F K L L A N V V S T E E A R T S L E K N Q A D F
UniRef90_R2QB31 I I A M L R E K Q P Q A V L V G F F K L L V G V S T E E A Q T I L A K N N C D F
UniRef90_X0ZYZ8 V I K M I K E I A P D I F L V G F K L L E F N K T K E E T H E V L I K S N S D L
UniRef90_R7MNT3 K I L P M F K K L S P E T I L V G F F K L L N N V D F N V A E A L M N N N C D F
UniRef90_S6RWL3 I L A T I A T R P D R P F S V G F A A E T E H L L D Y A R A K L K D K N L D L
UniRef90_V8CHA0 T Q D I L A S S L D S S D F V K V G F K A E D E V G L S N A R A M L L P K D C E I
UniRef90_K8ZMD4 V I Q E I K Q W Q K D V F L V G F K A T K D E L Q Q A K A Q E V F A A K S D L
UniRef90_W0IYE7 L L P E L R S Y A P G L F V I G F F K L T A G A D Q A Q A K A R L F A A G V D A
UniRef90_W5XA16 N F K I V N R L K D Y S Q N V V A F K L T S H A S T E E A V Q K L F F E S S V D A
UniRef90_R6VCZ4 K I I S I T K N L S P S T Y I V G F F K L L D G V S K L N T A K K L R R D K N C D L
UniRef90_UPI00035A0688 M L K P L V K E W V P Q A F I V S F K L L E T N P S M E K A R G A L R R Y Q H Q M
UniRef90_UPI0002555733 P T V K L I S L F Q P H T M I V G F K L L D H V P H E T A Y R L L E K N H C A Y
UniRef90_H2J9D7 K I I G M I K K I L P E T T L V G F F K L L S N A A K E E G Y G L E R N N C E M
UniRef90_UPI00037BE232 A P K L L L D L R F A H A F L V G F K L L E V E G D R A A A I A S G K R Q R T D L
UniRef90_UPI0002656E54 I L K P L V L S W V P D A F V I S F K L I E T N E S I D K A H A A L E N Y K H R L
UniRef90_X1TZQ8 N I D L L D L K N R N Q A F I V S F S L D T D N Q I S E A K I K L N E K G Q D L
UniRef90_UPI0003331C1C M L S P L V K N W A P K A F I I V G F S L E D T I I N R A R N A L E V I Q H V
UniRef90_B3T696 G P K H I S E L K P D G A I R I G F K L E S G V T E D R A K D Q I E T Y E V D A
UniRef90_Q9BL36 V I Q K V A R C F I P N A F I V S F K L E T D E T P K A K A A L S K Y G H Q L
UniRef90_U1YZ03 V I A E L A R L R P Q Q V V V G F A A E T G D A H D H G R A K A R R K G A D L
UniRef90_Q7QAC3 M L A P L V S L W V P H A Y V V S F K L E T D E A L L I A R E S L N K Y K H K L
UniRef90_UPI000466C844 A P K L L F R A L F P R T F L I A S F K F E V D G S D R A A A E Q I L A A Q S D L
UniRef90_F1L940 F L E K L V N E L L P E A F I V S F K L E T D E S V D V A R K A L K R Y G H K L
UniRef90_B9XQB0 I I A E L R N W Y P E A R L V S G W K Y E V E G G R E Q G E R Q L R D C R T N A
UniRef90_A8Q790 I L R K L V R D I V P E A F V V S F K L E T D E T I S K A R Q A L R N Y G H K L
UniRef90_Q7KN99 M L A P L A S L W V P H A F V V S F K L E T D E S I V K A R D S L N K Y K H K L
UniRef90_Q9USK7 F L R F L V D T W A P E A S I I S F K L E T D E P S I D K A R V A L Q R Y N H Q L
UniRef90_S9PNU3 F L R Y L V D S W A P E A L I I S F K L E T D E N I D Q K A R A A L H R Y N H Q L
UniRef90_A8HN61 M L G E L V N K W A P R A F T V S F K L E T D Q R I H K A S T A L H R Y G V H L
UniRef90_S8DRD6 I L K P L V S E W T H G Q Y I V S F K L E T D P S I P K A R Q A L A R Y G H Q V
UniRef90_F4WMZ3 I L A P L V S L W V P K A F V V S F K L E T D E S I S K A R T A L N K Y H H L
UniRef90_A0A022RU22 M L S V L R K D W A P L A F C I S F K L E T D T K I D K A N M A L K K Y N M D M
UniRef90_V4CKW2 M L E P L V K D W V P S A F I I S F K L E T D K D I S K S R Q A L D K Y K H Q L
UniRef90_Q69S81 M L S V L R N Q W A P L A F C I S F K L E T D S D I Q K A D M A L N K Y K M N L
UniRef90_UPI00023B2N1 A L P I R K L A S G Q Y L V T F K L E T D G I L K T K E Q H A T A D S D M
UniRef90_M1BF12 M L Y V L R N E W A P V A F C I S F K L E T D T D I L L G K A A L K K Y K M H M
UniRef90_M5Y8J3 M L L V L R Q D W A P K A F C I S F K L E T D S S I E K A D M A L K K Y K M H M
UniRef90_K7IYV5 V L E P L V K L W V P K A F V I S F K L E T D E S I S K A R G A L R K Y S H S L
UniRef90_I3J7V0 I L S P L V K D W A P Q A F V I S F K L E T D A S I D K A R R A L D T Y R H Q A
UniRef90_K5V5R6 I L K P L V T E W T R G G Y I V S F K L E T D E A I P K A R A A L A R Y G H Q V
UniRef90_J3MQU0 M L F I L R K Q W A P S A F C V S F K L E T D D I E K A E A A L R K Y G M N V
UniRef90_Q6BYF6 F L R R L V D N W A P S A M I V S F K L E T D H S I E K S K G A L L E R Y Q H Q L
UniRef90_W9YSC5 V L S T L V Q S W A P R S M I V S F K L E T D P S V S K A E S Q A L K R Y H H D L
UniRef90_D8S1S8 M L G L L R K H W A P E A F C V S F K L E T D V D I S K A R S L C K R Y G M H A
UniRef90_UPI0002C3594B M L L V L R K D W A P M A F C I S F K L E T D S K I E K A D M A F R K Y K M H M
UniRef90_B7FSH7 V I E E L R K K W C P D A F V V T F K L E T D T K I E K A A R A V E R Y G C H M
UniRef90_UPI000442020D M L A P L V K E W A P E A F V V S F K L E T D A S I E K A R Q A L E K Y H H Q V
UniRef90_M3K5A1 F L S R L V E N W A Q G A M I I S F K L E T D N N I K K A T S A L D R Y H H Q L
UniRef90_UPI0003698FBA P N I D I V K L K N R D V N V V S F S A Q T N N D L N F E K I K N K D S D Y
UniRef90_Q8VDG5 M L S P L V K D W A P K A F V V S F K L E T D I I S R A R N A L E V Y Q H Q V
UniRef90_A0A024JAX9 F L S R L V E E W A P N A M I V S F K L E T D E K L F K A R Q A L T R Y S H Q L
UniRef90_B9WEF7 F L S R L V E N W A Q G A M I I S F K L E T D N N I Q K A E S A L E R Y H H Q L
UniRef90_I0YSG2 M L G A L R S D W A P E A F I V S F K L E T D D T I S K A S S I A R Y G V H A
UniRef90_UPI0004432EEC M L S P L V K D W A P K A F V I S F K L E T D V V I D H A R K A L E T Y R H Q V
UniRef90_Q229Y7 C L K K I K E L A N E A K V I S F F K L E T D N T I D K V L S T F K K Y G V D L
UniRef90_U1R4A3 L L D E V G A E H P Q L T L V G F K A E T D A M V A R A R E T M R R A G L A F
UniRef90_F0XJY3 F L K N L V D N W S P Q C M V I S F K L E T D P Q L L I V K A K L D R Y Q H N L
UniRef90_A4RQF8 M L G M I K H E W C P E A F A V G F F K L E T D V D A D K A R K A L E R Y R L D A
UniRef90_G7E0Y2 V L K P L V E Q W S N E G F T V S F K L E T D P Q I P K A R A A L Q R Y G H Q L
UniRef90_G8JRR3 F L R R L V D S W A P A M I V S F K L E T D S G I K K A T Q A L E R Y S H Q L
UniRef90_UPI0004621E4D I L K P L V A E W T R E G Y I V S F K L E T D E A V P K A R Q A L A R Y G H Q V
UniRef90_X1DPE2 K I L N V A R R K D Y K F I I A F K A E I N E L I D R A Y S R L L K S E A D L
UniRef90_A4HE92 V L L V Q Q E W L H R P F I V T F K L E T S E M K R K A I S N L H A Y R C D A
UniRef90_W1NFP7 M L S M L R K E W A P M A F C I S F K L E T D A K I E K A N I A L R K Y K V H M
UniRef90_R7U057 M L R P L V A E W A P R S F T V S F K L E T D E K I P K A K Q A L K N Y N H Q V

```



UniRef90_G1V401 V V G N L Q D 170 G F G T P D N T V F V A D A S G R E E W A H L S K T D V A 180 190 200

UniRef90_UPI00037A5C5C I L A N D L T E I T P N Q H H A F L L S E E S V E E V W T K E A I A

UniRef90_UPI0003B3F683 V V A N D I D R V S E T G H E A I C V G K G N R I L K R L H T K T E I A

UniRef90_F9PC19 I V A N D L T Q I S S D Q H K A Y L V E K

UniRef90_J3A1E6 V L A N D L A H I S A E Q H L A Y L L D K T K A Y K A Q T K A E I A

UniRef90_A6DPR4 I V A N N L S E M D G E A H Q T Y L I D P A G E S I P A S T K T D L C

UniRef90_UPI00036EFE63 I L A N D L S E I T P N Q H H A Y L L D S E N A Y E A W T K A D I A

UniRef90_R3WPB2 V L A N D L E A I H G D H H H G I L I D A S G Q T E T A D T K N E I A

UniRef90_U4T509

UniRef90_UPI000375B73B I L A N D L T E I T P T Q H H A Y L L T E T K S Y E A W T K A D I A

UniRef90_F3YBZ9 V L A N D L T M I Q G E Q H Q G F L I D K N K H V Q I A Q T K Q E I A

UniRef90_COASH9

UniRef90_R2NU72 I L A N D L A E I R G E K H H G Y L I N K Q H K V K E A H T K T E I A

UniRef90_U3STH3 I L A N D L T M I S A D K H L A Y L L D D T N A Y M A E T K A E I A

UniRef90_S1QVC6 V I A N D L S E I D T Q Q H H A Y L L D S T G K V I A Q G Y Q K S E I A

UniRef90_R2QB31 V L A N D L E K I K G D Q H Q G I L I D T Q G Q T E T A Q T K N E I A

UniRef90_X0ZY8 M V A N D L K D L E K E R H V A Y F V D K N G K V I

UniRef90_R7MNT3 V L A N D A V A N I K S D I H K G F L L R K D G R K S E F S T K H E I A

UniRef90_S6RWL3 I V A N D V A N P S I G F N S E E N A C S V I D R A H A T L F A Q T S K A K I A

UniRef90_V8CHA0 V C L N T L D S S P F G A S H N A F T L L N R Q S A R T L P H S T K L A L S

UniRef90_K8ZMD4 V V I N N L S E I S E T K H Q A D I V H E G K I L A T A Q T K Q E L V

UniRef90_W0IYE7 V I H N D T A T L G Q G F H A W R N A R T P P E T L A G Q A A L A

UniRef90_W5XA16 V V H N D L T D I D I K K G L H R F T L H S Q G V E R S L E G P D R L A L A

UniRef90_R6VCZ4 V V A N D L S S I R N G E H I A Y I I D N D N N V E E A H G K I L K I A

UniRef90_UPI00035A0688 V I A N I L E T R K R E I F V T L N S E E I R L Q S G R E I E

UniRef90_UPI0002555733 V L A N D A G D I H G D A H I G Y L V D A E R R V Q C F E D K S G I A

UniRef90_H2J9D7 V L A N D M S R I T N D S H T G H L I F R D K S Y L T Y Q T K A Q I A

UniRef90_UPI00037BE232 C V V N G P A Y G A G F G L L T H K G A L F A A E D Q E S

UniRef90_UPI0002656E54 V I A N D L E S R R E R V V L V S R T D R E E I R M S L E E L S

UniRef90_X1TZQ8 M I A N D L S A I G S N S T S G F L L S K E G E E Q F E C S K D E L S

UniRef90_UPI0003331C1C V V A N V L E S R Q S F V V I V T K D S E T K L L L S E D E V A

UniRef90_B3T696 V V A N L K E E V H

UniRef90_Q9BL36 V I A N M L S T R K Q R V T L V R K N G E E I A P G A P E L E I E

UniRef90_U1YZ03 L V V N A V G E G R G F A V D A N D V T V D G A G D V V T A S G S K S E V A

UniRef90_Q7QAC3 V I A N I L L Q T R K N R V V F V T P S S N Y E I V L L S G L E I E

UniRef90_UPI000466C844 C V V N

UniRef90_F1L940 V I G N L L H T R K E R V V F V E S D K T E E V R L N D E Q E I E

UniRef90_B9XQB0 C V V N G K A Y G E G F G G E D N C R H V E D K

UniRef90_A8Q790 V I G N T L D T R K E R V I F V N N G N K E E T I S L S E E E I E

UniRef90_Q7KN99 V I A N V L Q T R K H R V V F V T P T D S Y E L H L T R E Q E I E

UniRef90_Q9USK7 V I A N S T R K R S V A F V T S K T V E W L H L S D D D I V K K V E I E

UniRef90_S9PNU3 V I A N T I R K K S V A F V I P D S V M W L H L S E D D L K N G I E I E

UniRef90_A8HN61 V V A N L L H N R K D V

UniRef90_S8DRD6 V I G N D L H T R K H Q V V F V S P T K A E T W V R A T K E I E

UniRef90_F4WMZ3 V I A N M L Q T R K Q Q V I V S K E T N Y V L S L T N E E E I E

UniRef90_A0A022RU22 V V A N E L L T R K E E V I V V T K G G N V I V Q R E S G A D V E I E

UniRef90_V4CKW2 V I A N E L I E K R K R E V T I V S T D T V T P I L T E E E E I E

UniRef90_Q69S81 V V A N L L A T Y K E E V I V T D K E R S T I R K M N K D E L E

UniRef90_A0A023B2N1 I V G N L L A T R Y Q E V S L L Y K D G S T H L D D R P Q A L R S

UniRef90_M1BF12 V V A N E L Q T R K E E V I V V T E Q E K I T V R R Q P G A D V E

UniRef90_M5Y8J3 V V A N

UniRef90_K7IYV5 V I A N M L Q N R R E Q V V I V S K D N Q E T L S L T S K E E I E

UniRef90_I3J7V0 V V A N V L D S R R G Y V V V V T P E T Q A E L I L T E K N E V

UniRef90_K5V5R6 V I G N H T R K Y Q V V F G G D S D S S K F S E S W L R I D L A A D P T K E I E

UniRef90_J3MQU0 V V A N E L A N Y K D V V V M V T S N G R T T V R R P S K E D V E

UniRef90_Q6BYF6 V I G N L L Q T R K K E V V F V H S D G S E L W K L T D K Q D I E

UniRef90_W9YSC5 V I G N L L M T R K W E V V E V T P D G G E R W I R V P K S R R S

UniRef90_D8S1S8 V V A N E L E T R K N K V V V V T R K V E M V L E K G D C P D I E

UniRef90_UPI0002C3594B V V A N

UniRef90_B7FSH7 V I G N L L K S R H N K V W I L S

UniRef90_UPI000442020D V I A N T L D S R R T S V I V V T K D L E T P L L L S E D E I A

UniRef90_M3K5A1 V I G N L L Q T R K K E V V F V K P N G D N D W I K L N E D E I A

UniRef90_UPI0003698FBA I V I N N L S D N Y F G S D M N K V T I I N K S E M I E S G N E N K H L I A

UniRef90_Q8VDG5 V V A N I L E S I K S F V I I V T K D S E T E L L L S E E E V A

UniRef90_A0A024JAX9 V I G N L L Q

UniRef90_B9WEF7 V I G N L L Q T R K K G S G H H E N W I R L T D Q E I N D N V E I E S K

UniRef90_I0YSG2 V V A N I

UniRef90_UPI0004432EEC V V A N I L E S R R S Y V V I V T K D S E T Q L S L S D E E M G

UniRef90_Q229Y7 I I G N L L S N T R F E V Y S E T N N I D K D E H I K Q E K D S D Q L I E

UniRef90_U1R4A3 V V A N D A S V M G E E D T R A L I V D A D E P T V F A G T K T G L G

UniRef90_F0XJY3 V I G N L L S T R K H E V V F V T P D A V D W L R L N E K D E I E

UniRef90_A4RQF8 V V A N E L T T R Y D Y V T V F A A D G S

UniRef90_G7E0Y2 V I G N D L N R R K F E V V F V D Q D S E Q Q Q T E A G E R E I E

UniRef90_G8JRR3 V I G N Q T R N K E V V F I S E E N R E G D W I R L N S S V S C I E

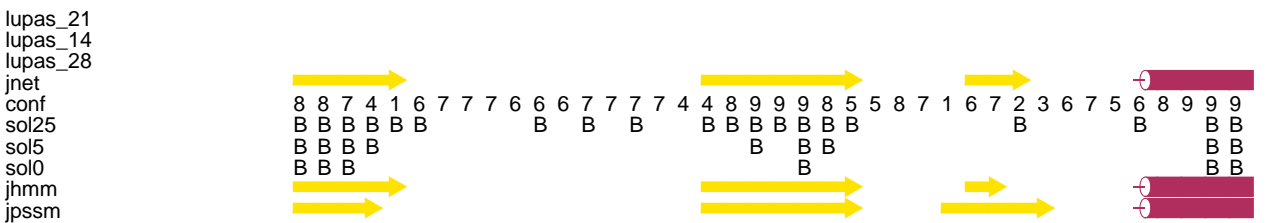
UniRef90_UPI0004621E4D V I G N D L H R R K F V F V S P R A S A T R P E E G E I D L E Q H P Q K E I E

UniRef90_X1DPE2 L V C

UniRef90_A4HE92 V V A N I L P S Y K E W V L I Y T K D S D D S A P L L V R C E A A

UniRef90_W1NFP7 V V A N E L S T R K E Q V I V I T G N D V I T V Q R N P H S D V E

UniRef90_R7U057 V V G N I L E T R K K Q I V I V T Q S E D K C V R L S E E E I S



UniRef90_G1V401 WR L L S W L L S R
UniRef90_UPI00037A5C5C K L L Y K K V L
UniRef90_UPI0003B3F683 E Y I A E L I V G R M
UniRef90_F9PC19
UniRef90_J3A1E6 D L I F E K V T D H
UniRef90_A6DPR4 S E L I S Q V N S G L K S K
UniRef90_UPI00036EFE63 Q L I F E K V
UniRef90_R3WPB2 Q L I V S K V E E K W
UniRef90_U4T509
UniRef90_UPI000375B73B Q L I Y E K V
UniRef90_F3YBZ9 K L I V K N V E E K W R E N E K
UniRef90_COASH9
UniRef90_R2NU72 E L I K H E V M E L E E A K
UniRef90_U3STH3 D L I F E K V
UniRef90_S1QVC6 Q M I F K Q W Q Q I Y Q Q K
UniRef90_R2QB31 Q L I V S K V E E K W
UniRef90_XOZY8
UniRef90_R7MNT3 K G I V S A V M E R I D
UniRef90_S6RWL3 R Q L I T F I A D R M N Q
UniRef90_V8CHA0 Y E I A S F I K A S L E H
UniRef90_K8ZMD4 E Q L F S T I A K Q
UniRef90_W0IYE7 G W I D R E L E R H A G R K S R
UniRef90_W5XA16 E Y I V R R L
UniRef90_R6VCZ4 E P L I Q K L S E F H S
UniRef90_UPI00035A0688 R G I T E N V T I E K F K G R N K
UniRef90_UPI0002555733 D A I V A H S I E I T L S K G R
UniRef90_UPI00037BE232
UniRef90_UPI0002656E54 A E I E R K I V A R L T E L H
UniRef90_X1TZQ8 W K I T E K I S S K
UniRef90_UPI0003331C1C K G I V E K I V E N L Q S R H
UniRef90_B3T696
UniRef90_Q9BL36 S F I I D R V S A L H R Q
UniRef90_U1YZ03 G A V W D V V V P R
UniRef90_Q7QAC3 E P I V A D V V R R H Q D
UniRef90_UPI000466C844
UniRef90_F1L940 E L I V D R L V R T H E H
UniRef90_B9XQB0
UniRef90_A8Q790 Q P I V D K L V E M H D K
UniRef90_Q7KN99 E P I V A D V V Q K H G E
UniRef90_Q9USK7 Q Y I V S R A I S L H K E R
UniRef90_S9PNU3 D Y I V S Q C I K L H K E K N
UniRef90_A8HN61
UniRef90_S8DRD6 E D I V A E L A Q R H Q A
UniRef90_F4WMZ3 Q L I V D L I E K H I K
UniRef90_A0A022RU22 D P L I K L I V D T H S S
UniRef90_V4CKW2 S I I V K E I L K L H D
UniRef90_Q69S81 M Q I I K I L S Q N H S K
UniRef90_A0A023B2N1 A D I A R L V M E H
UniRef90_M1BF12 D P L I K L V V D R H S A
UniRef90_M5Y8J3
UniRef90_K7IYV5 K Y I V D Y L V E K H K D
UniRef90_I3J7V0 E I E E R I V S N L T S A H
UniRef90_K5V5R6 E D I V A E L V R R H
UniRef90_J3MQU0 E Q L I D L L V K M H S E H
UniRef90_Q6BYF6 G L I I P A V I K E H S E
UniRef90_W9YSC5 K S I V E E L V G K A E R K H
UniRef90_D8S1S8 L P L V N C L V A R
UniRef90_UPI0002C3594B
UniRef90_B7FSH7
UniRef90_UPI000442020D Q E I E E K I V S H L E S Q H R
UniRef90_M3K5A1
UniRef90_UPI0003698FBA Q K I T I Q
UniRef90_Q8VDG5 K G L V E K I V D D L R S R H
UniRef90_A0A024JAX9
UniRef90_B9WEF7
UniRef90_I0YSG2
UniRef90_UPI0004432EEC K E I E E K I V S N L Q S R H
UniRef90_Q229Y7 S K L I E S L V K R L E A
UniRef90_U1R4A3 T R V T A E L A T R L
UniRef90_F0XJY3 G R I V P Q V V S L H D K H
UniRef90_A4RQF8
UniRef90_G7E0Y2 E D I V D K L I A R H T E
UniRef90_G8JRR3 Q L I I L E V I N R H D Q
UniRef90_UPI0004621E4D E D I V S E L V K R H Q A
UniRef90_X1DPE2
UniRef90_A4HE92 K T I E A A L C D M F I P L S R
UniRef90_W1NFP7 K P L V D L I V E R H
UniRef90_R7U057 K E I E D Y I I Q E I T H R H Q

lupas_21
lupas_14
lupas_28
jnet
conf 9 9 9 9 9 9 9 9 8 7 3 3 9 9
sol25 B B B B
sol5 B B B
sol0 B B
jhmm
jpssm

