

1 10 20 30 40
QUERY A S K R A L V I L L A K G A E E E M E T V I P V D V M R R A G I K V V T V A G L L A G K S
UniRef90_F7A9B9 A S K K A L V I L L A K G A E E E M E T V I P V D V M R R A G I K V V T V A G L L A G K S
UniRef90_B4GNB4 S K T A L I V I L A P E G A E E E M E T F V I A A D V L R R R A G I K V V T V A G L L A G K S
UniRef90_A0A044RAP4 A S K T A L V I L L A E G G A E E E M E T V I P V D V L R R R A G I K V V T V A G L L A G K S
UniRef90_D2A3Q0 K A L V F L A G G A E E E M E A V I A I D V L R R R A G I K V V T V A G L L A G K S
UniRef90_G7E7C6 S E K R L L L V A H G A E E E M E V S T P Y D V V L V R R A G I K V V T V A G L L A G K S
UniRef90_C3XYI0 T A L V I L L A E G A E E E M E T V I S V D V M R R A G I K V V T V A G L L A G K S
UniRef90_D3SLI6 K K V A I L L A D G G F E E E V I E A V I A V I D V L R R R A G I K V V T V A G L L A G K S
UniRef90_W9S9W0 S R K V L L P I A N G G T E E P L E A V T T I D V L R R R A G I K V V T V A G L L A G K S
UniRef90_X2GUN3 K K A L V F L S E G C E E T E A V T T I D V L R R R A G I K V V T V A G L L A G K S
UniRef90_F3NGE7 R N V L V V L F D G V Q S L D V T G P V E V F A G A E Y R V V T T V A S I L T D G A N K
UniRef90_K5Y1Y6 K K A I V F L A N G G F E E E M E A L G T V D I L R R R A G I K V V T T V S I V M T A N K
UniRef90_D4LZ24 K K V V V F L A D G F E E E V E G L T V V D L L R R R A G I K V V E T V S I V M T A N K
UniRef90_UPI000479B39E K T A I F L A D G F E E E I E A L T V V D L L R R R A G I K V V T M A S I L M G R D
UniRef90_U2RAI1 N K K V A V F L V D G F E E E I E A V T P I D V L Q R R A G I T V D T I S A L T T E E R
UniRef90_K5XBV8 S K R V L I P I A D G G S E D L E A V T T I D V L R R R A D L D V V T V A S I S A E E R
UniRef90_I0X9J7 K K A A V F L A D G G F E E E V I E A L T P V D Y L R R A G I K V V T T I A I P S S S
UniRef90_F2RF31 R P V L V V L F D G G V Q S L D V T G P F E V F A G A G Y P L R T A S L D D G G S
UniRef90_S4PYG8 S S K A L V I L A Q G A E E E M E T V I T V D M L R R R A G I K V V T V A S I L D E G S S
UniRef90_S8CKY5 S S P Q I L V P I A N G G T E E M E A V I I V D V L R R R A K A N V V V A S I V E G S S
UniRef90_UPI0003317B22 S T K T A L L V L A D G G S E E M E A V I I A D V L R R R A G I K V V T V A S I L Q Q E E
UniRef90_F4P7U3 T V V V L L A N G T E E M E A V I T I D I L R R R A Q A K V I V C S I L Q Q E E
UniRef90_H3FSP8 R R A L I L L A D G A E E E M E V I I T S D V L R R R A G I K V V T L G G L F G M
UniRef90_R7JUH8 K I Y V F L A D G C E E E A L T P V D I L R R R A G E D V C T V S I L M G R N
UniRef90_H9KDP7 T K T A I L L A D G S E E E M E A V T T I D L L R R R A G V D V V T V A G L L E T E N Q
UniRef90_D3SC10 T P R V L V P L A A G A E E E L E A V T I I D L L R R R A R F E V V T V A G L L E Q
UniRef90_A2EJC2 K V L V L L A A T G F E P M E L V N P T D I L R R R A G A D V K V A A S L V S G T E D
UniRef90_L1K0T4 S K R A L C I L L A E G F E E L E A V A P I D I L R R R A N I E V V A S I L V S Q D S
UniRef90_Q9FPF0 R S V L V V L F D G V Q S L D V T G P M E V F A G A S Y E L R T A S I L V S G N S
UniRef90_UPI000382A534 R S L L V L L A D G V F E E T E F V V P V D V L W R R A G I K V V T V A S I V S G A
UniRef90_C9RKY9 A S K R A L V I L L A K G T E E E M E M I I P V D V I R R R A G I K V V T V A S I L A G K E
UniRef90_F7GQC4 K V Y E F L S N G F E E D E A L A V I D V L R R R A G I K V V T V A S I L T G E
UniRef90_R6VXB9 S G K T A L L V L L A E G A E E E M E S V I T I D V L R R R A K L E V T V A S I L D H
UniRef90_T2M6B2 K K V L V P I A N G G T E E P M E A V I T I D V L R R R A G I K V V T V A S I L P G S
UniRef90_I1GY83 K T A I F L A N G G F E E E T E G L T V V D I L R R R A G I K V V T V A S I L T M V
UniRef90_UPI00047B555D R R V G F V I F E G F Q S L D L V G P Y E V F Q A K G Y D V V V L A T T R A
UniRef90_K0JTB8 S D K K L A I F F A D G F E D V E A I A V Y D I L Y R A G I D T L K V S I M P D
UniRef90_UPI000405C27B K K V L V F L V D G F E E E I E A M A P I D L R R R A G I K V V D T V S I I N E S N
UniRef90_U2SKR0 K V L V F I A E G F E E E I E A L T V V D V L R R R A N I R C D M C S I L T S N
UniRef90_A5I5K3 K R V L V A V A A G T E P L E A A A T A D I L N R A G A R V A V A T A S E G E
UniRef90_F2EGX7 A R R R I G I L V F D G V K M L D Y T G P A E V F V E A G Y D V V V T V S I P D
UniRef90_H6RBC0 S K S V V V F L A D G G C E E L E A V T I I D V L R R R A G V E V I V A S I L K D D
UniRef90_R9X36 K V L V P L A D G G C E E L E A V T I I D V L R R R A G V E V I V A S I L K P P L
UniRef90_Q3SHT5 K R V A M L L F P G V Q A L D V S G P L D V F A E A G Y Q V I T L A A P P L
UniRef90_M4WXD4 R A L I A V A D G V E D L E T V T L I D V L R R R A E V E V V V A S I E A R
UniRef90_UPI000364DE93 K T I A F Y L Q D G V E V L D F A G P L E V F S Y A G Y E V Y T V S K N R
UniRef90_UPI00037D6BBB K Q V S V L L A D G G F E T V E A L T P V D I L R R R A G V S V E L V S V M D R
UniRef90_UPI000471C873 I L V P I A N G G T E E M E A I M I D I L R R R A K A N V V V A S I V E S T
UniRef90_W5H8W7 K V Y E F L A N G G F E E E T E G L A P V D I L R R R G G V E I K T V S I E T G S
UniRef90_D3HWJ8 R T V L V V L F D G V Q S L D V T G P M E V F T G A P Y R V R T A S I L D G A
UniRef90_S4AWG4 T P R V L V P V A N G S E E M E A L N L I D V L R R R A G A R V T V A S V E D T
UniRef90_W5AMX9 T R T I A I L A L I Q G V Q L L D V S G P L D V F A Q A N A E L L G R P F Y A
UniRef90_UPI00035D786D A Q R T V L V V L F D G V Q S L D V T G P P L E V F A G A D Y R L R T A S I L D G R
UniRef90_UPI000471C873 T R H V V F V I Y E G F Q S L D L A G P L E V F G H A G H S C R I V A P R P G
UniRef90_C6CBD7 V L V C L A P G S E E I E A V T A I D L L V R A G I K V V T T A S V D G A
UniRef90_UPI0003B74CEC T V G F L L F D D L T Q L E D F T G P L Q V L N R L P D A E I A L T A K S E
UniRef90_E0E1N5 K K V A V L L A N G F E E I E A L A S V D I L R R R A E F E V D T V S V M D D
UniRef90_B1G9P6 K V A I V I F E G A Q A L D V A G P L D V F A E A N Y E V S L V G S K A G
UniRef90_E1TH76 T V A I A I F P G V Q A L D V A G P V D V F E S E A N Y T V T L L S A T Q
UniRef90_F8F3W0 A K R V L E F I A E G F Q A L D E A V T P A D Y L R R A G I E V T L V A V G A N
UniRef90_X5M4T4 S R E V V I V V F D G M K L L D A A G P A E V F A E A N Y R L R I A S V D G A
UniRef90_E3HQC9 T K T I A I L A L P G V Q M L D V S G P L D V F A Q A N A E L R V V G Y E A G
UniRef90_R6RJU6 K V C V F T A D G F E E E I E G L T V V D L L R R R A G A E V L M V S I S D G
UniRef90_A6SUG5 R T V D I I Y P G F K A L E A I G P L S V F E Y A G Y D V R F V S T G V
UniRef90_R1E2I3 R V L V P I A D A S E E E L E S C T T D T L V R G G V E V T A S P E G R
UniRef90_I2BBR5 V L I C L A P G C E E T E A V T T I D L L V R A G I Q V T T A S V D G S
UniRef90_R5P517 K K S F L F L A D G F E E E V I E A L G T L D V L R R R G G V E V Y T V S V Y D R
UniRef90_UPI0002625618 R R L A L L V F D E F K L D V A G P S E V F A E A N Y R L V L C S V G G R
UniRef90_D8IEU4 S K K V L V P L A E G F E E V I E A V T I I D I L R R R A N I E V T T A S I L T D N
UniRef90_UPI0003FB0AA7 K K I G I Y L F D E V E V L D F A G P Y E V F S V A Y F D V T T I S E T G D
UniRef90_S6EY58 K K V A I L L A D G F E T I E A L T V V D V L R R A D V T C N T F A L K D
UniRef90_UPI00047D57C2 G F L I F D G V S L L D F A G P A E V F T R A H Y E T V L I S P H G G
UniRef90_UPI00037C25C1 R I V F V V F D G F Q A L D L V G P R E V F Q Y A G Y D C Q I L A P T A G
UniRef90_F0WIG1 T A L I P V A D G T E E I E A I T L A D V L R R A G N K V T M A S V K P E
UniRef90_R5JCL0 T V Y A F F A D G F E E I E A I T A I D T L R R A G N V E I V S V T P D
UniRef90_A0A031FQV1 K T V A M V L F P D F L L L D M A G P L E V F S V A N Y Q L T T L G T E R G
UniRef90_UPI00039DFC34 G P R V G I L L Y F D G F S L L D P T G P A E V L S R L D A T V T M I A E Q R G
UniRef90_A8I942 R F G I L A F P D V Q Q L D L T G P Y E V F A S A P E T E V L L I G R E
UniRef90_R7Z3U3 G I L I A D G T E E I E F V T P Y D V L T R A G I T V R S A G V K N E
UniRef90_D0BJF4 K R A A I V L T T G F E E I E A I A P M D I L R R R A G V E V D L V G V D A K
UniRef90_UPI0003830757 T R K I G I L L F P D V E E E L D A I G P W E I F A E D G W Q V F C F S V D G N
UniRef90_UPI0003808C30 R I G L V L F P E L T Q L D L T G P A E V F G R M G A E I H L L W K T L
UniRef90_UPI00038308BC T V T V F V F D G V R L L D V T G P I E V F A S A N Y R T A S I S G D G A
UniRef90_D9V7F1 V V F V V F D G V K M L D V T G P A E V F A E A N Y S G A G Y S I S Y R
UniRef90_UPI0003816001 N K K I A I L L E N G F E Q V E M T Q P R Q A L D E A G A Q T H L V S P Q A G
UniRef90_E6QUV0 R T V D I I V Y P G F K A L E A I G P L K V F E D A G G E V V I A S T I A
UniRef90_C0W6P5 K K V A V L V A D G L E E V I E A L A P L D I L F R A G G I P A H L I S I T H S
UniRef90_B2T4L1 K V A I V V L D V Q A L D V A G P L D V F A E A N Y E V F L V G N E A G
UniRef90_R8W437 V Y V F L A D G F E E V I E A L T P L D V L R R A G V D A V R T V G V T G K
UniRef90_UPI00016A6AB5 H I G F L V F P G V Q Q L D L T G P H D V L A S L P D A A H L V W K T R
UniRef90_A0A023NRN6 A K T I A V V A L P G V Q L L D V S G P L D V F A Q A N V I E A K V V G S Q H G

QUERY UniRef90_F7A9B9 UniRef90_B4GNB4 UniRef90_A0A044RAP4 UniRef90_D2A3Q0 UniRef90_G7E7C6 UniRef90_C3XYI0 UniRef90_D3SLI6 UniRef90_W9S9W0 UniRef90_X2GUN3 UniRef90_F3NGE7 UniRef90_K5Y1Y6 UniRef90_D4LZ24 UniRef90_UPI000479B39E UniRef90_U2RAI1 UniRef90_K5XBV8 UniRef90_I0X9J7 UniRef90_F2RF31 UniRef90_S4PYG8 UniRef90_S8CKY5 UniRef90_UPI0003317B22 UniRef90_F4P7U3 UniRef90_H3FSP8 UniRef90_R7JUH8 UniRef90_H9KDP7 UniRef90_D3SC10 UniRef90_A2EJC2 UniRef90_L1K0T4 UniRef90_Q9FPF0 UniRef90_UPI000382A534 UniRef90_C9RKY9 UniRef90_F7GQC4 UniRef90_R6VXB9 UniRef90_T2M6B2 UniRef90_I1GY83 UniRef90_UPI00047B555D UniRef90_K0JTB8 UniRef90_UPI000405C27B UniRef90_U2SKR0 UniRef90_A5I5K3 UniRef90_F2EGX7 UniRef90_H6RBC0 UniRef90_R9KX36 UniRef90_Q3SHT5 UniRef90_M4WXD4 UniRef90_UPI000364DE93 UniRef90_UPI00037D6BBB UniRef90_UPI000471C873 UniRef90_W5H8W7 UniRef90_D3HWJ8 UniRef90_S4AWG4 UniRef90_UPI000374CEC UniRef90_E0E1N5 UniRef90_B1G9P6 UniRef90_E1TH76 UniRef90_F8F3W0 UniRef90_X5M4T4 UniRef90_E3HQ9C UniRef90_R6RJU6 UniRef90_A6SUG5 UniRef90_R1E2I3 UniRef90_I2BBR5 UniRef90_R5P517 UniRef90_UPI0002625618 UniRef90_D8IEU4 UniRef90_UPI0003FB0AA7 UniRef90_S6EY58 UniRef90_UPI00047D57C2 UniRef90_UPI00037C25C1 UniRef90_F0WIG1 UniRef90_R5JCL0 UniRef90_A0A031FQV1 UniRef90_UPI00039DFC34 UniRef90_A8I942 UniRef90_R7Z3U3 UniRef90_D0BJF4 UniRef90_UPI0003830757 UniRef90_UPI0003808C30 UniRef90_UPI00038308BC UniRef90_D9V7F1 UniRef90_UPI0003816001 UniRef90_E6QUV0 UniRef90_C0W6P5 UniRef90_B2T4L1 UniRef90_R8V437 UniRef90_UPI00016A6AB5 UniRef90_A0A023NRN6

QUERY UniRef90_F7A9B9 UniRef90_B4GNB4 UniRef90_A0A044RAP4 UniRef90_D2A3Q0 UniRef90_G7E7C6 UniRef90_C3XYI0 UniRef90_D3SLI6 UniRef90_W9S9W0 UniRef90_X2GUN3 UniRef90_F3NGE7 UniRef90_K5Y1Y6 UniRef90_D4LZ24 UniRef90_UPI000479B39E UniRef90_U2RAI1 UniRef90_K5XBV8 UniRef90_I0X9J7 UniRef90_F2RF31 UniRef90_S4PYG8 UniRef90_S8CKY5 UniRef90_UPI0003317B22 UniRef90_F4P7U3 UniRef90_H3FSP8 UniRef90_R7JUH8 UniRef90_H9KDP7 UniRef90_D3SC10 UniRef90_A2EJC2 UniRef90_L1K0T4 UniRef90_Q9FPF0 UniRef90_UPI000382A534 UniRef90_C9RKY9 UniRef90_F7GQC4 UniRef90_R6VXB9 UniRef90_T2M6B2 UniRef90_I1GY83 UniRef90_UPI00047B555D UniRef90_K0JTB8 UniRef90_UPI000405C27B UniRef90_U2SKR0 UniRef90_A5I5K3 UniRef90_F2EGX7 UniRef90_H6RBC0 UniRef90_R9KX36 UniRef90_Q3SHT5 UniRef90_M4VXD4 UniRef90_UPI000364DE93 UniRef90_UPI00037D6BBB UniRef90_UPI000471C873 UniRef90_W5H8W7 UniRef90_D3HWJ8 UniRef90_S4AWG4 UniRef90_W5AMX9 UniRef90_A9BYH7 UniRef90_UPI00035D786D UniRef90_D7BYR1 UniRef90_C6CBD7 UniRef90_UPI0003B74CEC UniRef90_E0E1N5 UniRef90_B1G9P6 UniRef90_E1TH76 UniRef90_F8F3W0 UniRef90_X5M4T4 UniRef90_E3HQ9C UniRef90_R6RJU6 UniRef90_A6SUG5 UniRef90_R1E2I3 UniRef90_I2BBR5 UniRef90_R5P517 UniRef90_UPI0002625618 UniRef90_D8IEU4 UniRef90_UPI0003FB0AA7 UniRef90_S6EY58 UniRef90_UPI00047D57C2 UniRef90_UPI00037C25C1 UniRef90_F0WIG1 UniRef90_R5JCL0 UniRef90_A0A031FQV1 UniRef90_UPI00039DFC34 UniRef90_A8I942 UniRef90_R7Z3U3 UniRef90_D0BJF4 UniRef90_UPI0003830757 UniRef90_UPI0003808C30 UniRef90_UPI00038308BC UniRef90_D9V7F1 UniRef90_UPI0003816001 UniRef90_E6QUV0 UniRef90_C0V6P5 UniRef90_B2T4L1 UniRef90_R8V437 UniRef90_UPI00016A6AB5 UniRef90_A0A023NRN6

90 100 110 120

L S E S S A A V V K E T L L K E Q E E N R K G G L I A A V C A G P T A L L A H E H I G F G S S
L C E S S A A V V K E T L L K E Q E E N R K G G L I A A V C A G P T A L L A H E H I G F G S S
M G D S S A A V V G D T L L R A Q Q E H E T A G G G L I A A A I C C C C A A A P T V L A K S H G H G I G A A G G K
L A A S S D E V G E L L R E S Q E A A G R L T G A I I C C C C A A A P T A L K A S H G V I Y A V G K
L A A S S D Q H V K E V L K S H Y E G K G L V G A I I C C C C A A A P T A L V K T S N G I A R G K K
L A A S S P K V K E V L Q E E G K G L V V A A V C C C C A A A P T A L V L V S H G I A R G K K
L K A D N P R V E K L I Q Q A M Y Q K R K L V G A I I C C C C A A A P T A L A K A F G V L E G K K
L K N N G V L L E S L V R K Q A A A D G G V I A I C C A S P A V L A L G A W G L L K N G A
F R D C S V L L J E L L R R R H G P R A G R L V S V C C C T G A L L L A E A G L L F P N K A
UniRef90_F3NGE7 A L L D W L R R H G P R A G R L V S V C C C T G A L L L A E A G L L F P N K A
UniRef90_K5Y1Y6 L N D S E A V K E A L L Q Q Y N E K D S K L V A A I C C C C A A A P T M V L G G A L G L L K E K
UniRef90_D4LZ24 L L K E H K G L A D L L C Q F Y N E K D S K L V A A I C C C C A A A P T V F G A L G L L K E K
UniRef90_UPI000479B39E L L G A C D K L K D Q I S S F N Q D K G K M L A A I C C C C A A A P T V Y G K M G I L D G K
UniRef90_U2RAI1 F N S Q I L L D N L L K F Q S K A D D E N K K L A A I C C A A P T V L L A S L K I L E G K
UniRef90_K5XBV8 L G E L E P L A E R V R Q Q A A G R E F A A I C C A A P A V A L H A Y G V L K G
UniRef90_I0X9J7 L S E C A D L L E H L K C Y D Q G R Y V S A I C C A S P A V V L G K T K V L E G K
UniRef90_F2RF31 A P D D P A L L D W L R T H A P A A A R L V S V C C C T G A L L L A E A G L L D G K H
UniRef90_S4PYG8 L S K S S V V G T L L Q E H E N T A G K L V A A I C C C A A P T A F V A H G V A K G K
UniRef90_S8CKY5 F A N S D E L V D S L K K Q R E S G R F Y G A I C C C C A S P A L V L E H H G L L K G
UniRef90_UPI0003317B22 L A T N Q K D V G A L L K A Q E E Q G R L I A A I C C C C A A A P I A L M S A H G V L A V N R
UniRef90_F4P7U3 F S E S S K D V H G Q L L K A N T N G K L I G V I C C C C A A A P I A L K A A G I L L F G K
UniRef90_H3FSP8 L A K T A K V G D I L R S Q L S C G G F I A A I C C C C A A A P I A F A S H S I Q K G A
UniRef90_R7JUH8 L A G S N E T L A A A L L R S Y D D E E N K K L A A A I C C C C A A A P S L L G V M G I L K K G
UniRef90_H9KDP7 F A S S A E V G K L L R Q R Q D D E E N R F I A A I C C C C A A A P T A L K A H G I A K K G
UniRef90_D3SC10 L R D N P H V Q A M L R A Q A E R D G W L G A I C C C C A A G P K A L A Q A G V L E G H
UniRef90_A2EJC2 L A A N Q D V L E F L R Q H E K A G K L V A A I C C A A P G S V L A Q A G C G I M K G
UniRef90_L1K0T4 L K A K D K R V L E L L R Q Q M S A G R V V S A I C C C C A A P G S V L H E A P V L E G K
UniRef90_Q9FPF0 F A S C E K L V N M L R K Q A E A N K P Y G G I C C C C A S P A Y V F E A P V L L K G
UniRef90_UPI000382A534 L L K A S A A V E N T V C S H G P L D N D D K W V L A I C C C C A A A P T V L S K A R I L V D G H
UniRef90_C9RKY9 L S E S A V V K E T L L N K Q E N W K G L R A A I C C C C A A A P T A L L A E E I G F G S
UniRef90_F7GQC4 L N K R M L R E I L L E J E Y N K G R I V A A I C C C C A A A P L V L G S D H G I L E G K
UniRef90_R6VXB9 L S E S T V V K L L E K H F H E K L I A A I C C C C A G P T V L D A H N V G K G K
UniRef90_T2M6B2 F R D C K L E N M V K K H A E K G K Y A A I C C A P A V A L G S W G L L D G G L
UniRef90_I1GY83 L D A C A P L K A K I L E A F N N E R G K M L A A I C C C C A A A P T V Y G K M G L L K G K
UniRef90_UPI00047B555D I G D T A L T G W L T E A A A H A R R V A S V C C C C A A P L L A E I G L L D G R R
UniRef90_K0JTB8 L R A C D K L C D E L V R F A G S G K T V G A T C A A P Y V F A E L G L L K G K
UniRef90_UPI000405C27B Y M K S E K L Q E K L K E F S L N R K L G A I C C A P T I L S A L G L L K G K
UniRef90_U2SKR0 L R D N N K V J N L K E F N R D E K L I A A I C C C C A G P I V L S K A N I I K G K
UniRef90_A5I5K3 L R D C K Q L E K M V R K H A E S G R C G A I G A S P A V A L A H W G V L Q G F
UniRef90_F2EGX7 F V T P E V L A A T A H L A R R T R R L A S I C C S G A F V L A E L G V L N G R R
UniRef90_H6RBC0 L G K S A R V M A T E L T R R M E A G E S V A A I C C C C A A P M L L A R A G L L N G R
UniRef90_R9KX36 L K D D V R V V D L L K K M A S A G K Y T A A I C C C C A A P M V L A E A G L L R G K
UniRef90_Q3SHT5 T P G A E L L D G W L R A A C A Q A G V P R Y G S I C C C T G A F L L G H A G L L D G K R
UniRef90_M4VXD4 L A G H G P L G E L R V R Q A K A G K L F A A I C C C C A A P A L L G Q Q Y G V L R Q R
UniRef90_UPI000364DE93 L A G H G P L G E L R V R Q A K A G K L F A A I C C C C A A P A L L G Q Q Y G V L R Q R
UniRef90_UPI00037D6BBB L R D D V R V I E W L Q S V N L D H T M V A A I C C C A G S P A I A L E P H G L L A N H
UniRef90_UPI000471C873 Y A K S D K L I G L I K S Q Q A E A N K L Y G A I C C C C A S P A I A L E P H G L L A N H
UniRef90_W5H8W7 L K A H E G V C Q A L L K Q H A A G K R I G A I C C C C A A P L V L G S L G L L K G R
UniRef90_D3HWJ8 R A E D A E L V A M L R A H A P R A R R L V S V I C C C C T G A F V L L A R A G L L D G R
UniRef90_S4AWG4 F T S S E K L V G M L K K Q A E S G R P Y G A I C C C C A S P A Y V L E P H G L L K G
UniRef90_W5AMX9 M L L G E P T L Q W L R T M A R Q S R R F G S V C C C C S G A L F L A A A G L L D G R
UniRef90_A9BYH7 L L L G E P T L Q W L R T M A R Q S R R F G S V C C C C S G A L F L A A A G L L D G R
UniRef90_UPI00035D786D L A R H D P E L I G W V R A A A A A G A R R I T S V C C C C S G V F L L A A A G L V D G L
UniRef90_D7BYR1 F R D S P L L V E R L R Q T H Q E G K L V A A I C C C C A S P A V V L E Y H K L F P V
UniRef90_C6CBD7 V M Q D A A M L D F V R R Q A A Q A Q Y I T S V I C C C C T G A F L L A E A G L L D G R
UniRef90_UPI0003B74CEC Q R V I D L V G Y N Q E N K Y I G A S I C C C C A A P M A M G R A G I I G G K
UniRef90_E0E1N5 N P P N E L L T W L Q N Q A R G A A R F G S V C C C C N G A F V L G H A G L I D G K
UniRef90_B1G9P6 E P P A P L L D W T N V A P C C S R Y G S I C C C C T G A F A L G H A G L L D R
UniRef90_E1TH76 I A G S V T A V T F L K D M H H A G K V V A A I C C C C A S P A V V L A P L G I L A G
UniRef90_F8F3W0 P I D P A L V A A L R D L P T R P R L V A A I C C C C T G S F L L A A A G L L D G R
UniRef90_X5M4T4 A M L S S S A L Q W L R A T A R G A R R Y G S V I C C C C T G A F M L A A A G L L D G R
UniRef90_E3HQ9C L G E H E L L C H L L Q E F A D Q G K M V A A I C C C C A A P S V L G K L G I L E G K
UniRef90_R6RJU6 L E N A G P I V D W I V A V H P Q I N R L A A L C C C C S G A F F L A S A G V L E G K
UniRef90_A6SUG5 L S E N A K L T E T L K A Q V A A G K C T A A I C C C C A A P A L V L K A H G L L P A
UniRef90_R1E2I3 L H D S L L V E T V R Q F H L S G R L V A A I C C C C A A P G M V L P H D I F T P
UniRef90_I2BBR5 L S E S S V L M E M L N R H F E K K K P I A A I C C C C A A P A L V L G K L P L D K S
UniRef90_R5P517 A V P K R I E A A A R T I A G R A K R I A S I C C C C T G S F V L A A A G L L D G R
UniRef90_UPI0002625618 L K N D K R I I S K L Q M Y A E A K K L V S A I C C C C A S P I V L G E A S V I K G
UniRef90_D8IEU4 E A Y N E K L I K W L R A C Q D S A E V I A S V C C C C T G A L V L A N A G L L D G K
UniRef90_UPI0003FB0AA7 L R D N K K V L S A L K E F Y K K G F V C A I C C C C A A P I A L G K A G I T T G K
UniRef90_S6EY58 E F D P V L L D A A A L L T T R H R V A S V C C C C T G S F I L A E L G L D D H
UniRef90_UPI00047D57C2 A A E V G T L T G W I A A A G K S A R V T S V C C C C S G V F L L A A A G L V D G R
UniRef90_UPI00037C25C1 L R D K C E F L L K L K Q Q K H E G K W Y G A I C C C C A S P A V I L S A H D L L P
UniRef90_F0WIG1 L D K H E G L R K L I L D F A E K N K P I A A I C C C C A A P M V L G K L G L L K G R
UniRef90_R5JCL0 K H P A L L A W L K A A V P C A E R Y G S I C C C C T G A F V L G H A G L L D G Y
UniRef90_A0A031FQV1 A M G N R V L D W I R E I H R G T R W T S V C C C C T G S L V L A A A G L L D G R
UniRef90_UPI00039DFC34 L M E D A D A L D F I R S R A G E V R Y L T S V C C C C T G S L V L A A A G L L K G K
UniRef90_A8I942 F C D S K T V L Q L L R D F R E K G K L V G C L C C C C A G T T E T E G G E R N K R V
UniRef90_R7Z3U3 L K N H G A V Q D F V K R H Y D V G K L V A A N C C C C A A P I A I E N S G A L T K N C
UniRef90_D0BJF4 Q L G D E R H L D W L R A Q R S S V P L M T S V C C C C T G S L V Y A A A G L L T G Y
UniRef90_UPI0003830757 L M E D E I T L Q F L R T A A A H C K L V T S V C C C C T G S L I L A A A G L L S G Y
UniRef90_UPI0003808C30 L T K D E A L L D V I R R L H E K A R C T A S V C C C C T G S F L L A A A G L L D G R
UniRef90_UPI00038308BC R G V P V E L V D A I R G I A P R A G R L V S I C C C C T G S F L L A K A G V L S G R
UniRef90_D9V7F1 L R M N K D A V Q F V R S F F D A R K P V A A I C C C C H G P W T L A E A D V V Q G R
UniRef90_UPI0003816001 L Q D A P E I V E W A R N A A P K M N R L A A I C C C C T G S F L L A E G G V L E G L
UniRef90_E6QUV0 L K A D A R V R E L V T Q R A R R A D R P V A A I C C C C A A P S I L A E L G L L N G R
UniRef90_C0V6P5 Q P Q P E F L K W L Q D Q A G G A S R F G S V C C C C N G A F V L A H A G L L D G K
UniRef90_B2T4L1 Y A S D F E T R N A V E K V L A D G H Y V S A I C C C C A P S I L L G G M G L N G K
UniRef90_R8V437 L S D R E T I D F V R E R S A A R Y V T S V C C C C T G A L V L G A A G L L R G R
UniRef90_UPI00016A6AB5 I A L S S H V L Q W L R A T A A R S R Y G S I C C C C T G A F M L A A T G L L D G R
UniRef90_A0A023NRN6

QUERY UniRef90_F7A9B9 UniRef90_B4GNB4 UniRef90_A0A044RAP4 UniRef90_D2A3Q0 UniRef90_G7E7C6 UniRef90_C3XYI0 UniRef90_D3SLI6 UniRef90_W9S9W0 UniRef90_X2GUN3 UniRef90_F3NGE7 UniRef90_K5Y1Y6 UniRef90_D4LZ24 UniRef90_UPI000479B39E UniRef90_U2RAI1 UniRef90_K5XBV8 UniRef90_I0X9J7 UniRef90_F2RF31 UniRef90_S4PYG8 UniRef90_S8CKY5 UniRef90_UPI0003317B22 UniRef90_F4P7U3 UniRef90_H3FSP8 UniRef90_R7JUH8 UniRef90_H9KDP7 UniRef90_D3SC10 UniRef90_A2EJC2 UniRef90_L1K0T4 UniRef90_Q9FPF0 UniRef90_UPI000382A534 UniRef90_C9RKY9 UniRef90_F7GQC4 UniRef90_R6VXB9 UniRef90_T2M6B2 UniRef90_I1GY83 UniRef90_UPI00047B555D UniRef90_K0JTB8 UniRef90_UPI000405C27B UniRef90_U2SKR0 UniRef90_A5I5K3 UniRef90_F2EGX7 UniRef90_H6RBC0 UniRef90_R9KX36 UniRef90_Q3SHT5 UniRef90_M4WXD4 UniRef90_UPI000364DE93 UniRef90_UPI00037D6BBB UniRef90_UPI000471C873 UniRef90_W5H8W7 UniRef90_D3HWJ8 UniRef90_S4AWG4 UniRef90_W5AMX9 UniRef90_A9BYH7 UniRef90_UPI00035D786D UniRef90_D7BYR1 UniRef90_C6CBD7 UniRef90_UPI0003B74CEC UniRef90_E0E1N5 UniRef90_B1G9P6 UniRef90_E1TH76 UniRef90_F8F3W0 UniRef90_X5M4T4 UniRef90_E3HQ9 UniRef90_R6RJU6 UniRef90_A6SUG5 UniRef90_R1E2I3 UniRef90_I2BBR5 UniRef90_R5P517 UniRef90_UPI0002625618 UniRef90_D8IEU4 UniRef90_UPI0003FB0AA7 UniRef90_S6EY58 UniRef90_UPI00047D57C2 UniRef90_UPI00037C25C1 UniRef90_F0WIG1 UniRef90_R5JCL0 UniRef90_A0A031FQV1 UniRef90_UPI00039DFC34 UniRef90_A8I942 UniRef90_R7Z3U3 UniRef90_D0BJF4 UniRef90_UPI0003830757 UniRef90_UPI0003808C30 UniRef90_UPI00038308BC UniRef90_D9V7F1 UniRef90_UPI0003816001 UniRef90_E6QUV0 UniRef90_C0W6P5 UniRef90_B2T4L1 UniRef90_R8V437 UniRef90_UPI00016A6AB5 UniRef90_A0A023NRN6

130 140 150 160

K V T T H P L A K D K M M N G G H Y T Y S E N R V E K D D G N L I L T S R R G P G T S
UniRef90_F7A9B9 K V T T H P L A K D K M M N G S H Y T Y T E S R V E K D D G N L I L T S R R G P G T S
UniRef90_B4GNB4 S L T T S H P S M K E Q L V E D K Y C Y K Y D D K D R V V V K D D G N L I L T S R R G P G T A
UniRef90_A0A044RAP4 L V T S Y P S V K E Q L V E D G G Q Y K Y K K E P V V V V D D G N L I L T S R R G P G T A
UniRef90_D2A3Q0 T I T S H P S V Q K Q L M E R E G D Y R Y S T E A R V V V V D D G N L I L T S R R G P G T A
UniRef90_G7E7C6 T V T S H P S V R Q K Q M E E A G H P Y T E A R V S R D G H I I L T S R R G P G T C
UniRef90_C3XYI0 K A T V Y P S L V E Q I K P A T F V N E S K V V E D D N V V T S R R G P G T A
UniRef90_D3SLI6 L K A T G Y P S F M E Q L A S S G A N A V E S R V Q V D D G K V I T S R R G P G T T
UniRef90_W9S9W0 Y M T G Y P S T K D S F K L W K T D R V Y F D E Q N K V I T S R R G P A T S
UniRef90_X2GUN3 R V T T H W A Y C E R L A D R H P D V D P D P I Y V R D G H I A T S A G V T S G
UniRef90_F3NGE7 N A T C Y P G F E P K L I G A N V T G E A V E V S D N V I T S R R G P G L V
UniRef90_K5Y1Y6 A A C C Y P G M E E Q L N C K E A K F C S F V T D G N I L T S R R G V G T A
UniRef90_D4LZ24 K A C C Y P G C E V D L G S A D V Q T T E V T K D G N F I T S R R G M G T A
UniRef90_UPI000479B39E K K A V C Y P A C E E D L L K G S V A L V K Q S E R T V T D G N I T S R R G S A G T A
UniRef90_U2RAI1 R R V T C Y P G M S D R L L S G S V F V D Q S V V V D G N C I T S R R G P A T A
UniRef90_K5XBV8 R W T C Y P G M Q K E S H P D Y Q L K Y E D K V F V T D G K L I T A R G A G A A
UniRef90_I0X9J7 R A T T H W A C D H R C Y S P E V E V D P D P I F V R D G R I S T S A G V T A G
UniRef90_F2RF31 R V T S Y P T K D S F K L W K T D R V Y F D E Q N K V I T S R R G P A T S
UniRef90_S4PYG8 K K A T A F P A M C S K L S D T S E V E N R V V D D G N L V T S R R G P G T T
UniRef90_S8CKY5 S I T H H P A V K E Q M D K M R P L C I A H K R V E H D G N V I T S R R G P G T A
UniRef90_UPI0003317B22 R L T S H P S V K D Q L E S N Y Q Y S D D R V V V D D G N I L T S R R G V G T A
UniRef90_F4P7U3 T L T S F P G V R G K L E E A G Y N Y S E D R V V V D D G K M I T S R R G P G T A
UniRef90_H3FSP8 N A V C F P G F E E K L A G A N V L D V P A V T D K N V I T S R R G M G V A
UniRef90_R7JUH8 Q I T S Y P A M K D Q L V D Y Y K Y L E N K V V I D D N L I T S R R G P A T A
UniRef90_H9KDP7 R V T S F T G A L D E S G I P S T G G L V E V D G R I I T S R R G P G A A
UniRef90_D3SC10 K K G C G Y P G C D G P I A E T G G E I T T D A V T R D G N I T S R R G P G T S
UniRef90_A2EJC2 K Y T A H G Y S V E S V V P K L D K S S A V V V D D G N I L T S R R G A G T G
UniRef90_L1K0T4 K K A T T H P V V S D K L S D K S H I E H R V V V D D G N V I T S R A P G T A
UniRef90_Q9FPF0 R A T T H W N V C E K L A R E H P E V D P E P I F V R D G R I A T S A G V T A G
UniRef90_UPI000382A534 K A T C Y P G C E T D L V C R E F S E E R V V V D G N I V T S R R G P G T A
UniRef90_C9RKY9 K V T T Y L L A K D K M M N W G H Y T Y S E N R V E K D D G N L I L T S R R G P G T S
UniRef90_F7GQC4 R A T C Y P G F E K R M T G A T Y T Q E Q V V T D D G N I L T S R R G P G T S
UniRef90_R6VXB9 K V T S Y P S L K D K M K D Y T Y V A E K V V T D D G N I L T S R R G P G T S
UniRef90_T2M6B2 K A T C Y P S F M D K L P S E V K A V E S R V Q I D D G N C V T S R R G P G T A
UniRef90_I1GY83 K V C C Y P G C E G D L I G A N V S T D E V S K D G N F I T S R R G M G T A
UniRef90_UPI00047B555D A T T H W G R A R E L A Q R Y P A V R V D A D P I F R D G R V W T S A G V T A G
UniRef90_K0JTB8 K A T C Y P A R E V D L L A G G A D L V H D K A V I C D N I I T S R R G M G T A
UniRef90_UPI000405C27B A I C F P E C E P D I E K D G A L L V N Q D V V K D D N I I T S R R G A G T A
UniRef90_U2SKR0 E V T S Y P G F E D L K E G I Y K E D L V V Q D D G N I I T S R R G P S A A
UniRef90_A5I5K3 R A T C H P A L L R Q L G D D G G V I A V D D R V V K D R N V V T S Q G V G T A
UniRef90_F2EGX7 A T T H W K F T R D L A A R F P V D V L V D P D A I Y V D D G S L Y S A G V A A G
UniRef90_H6RBC0 K A T C Y P S C E E G W P A G V Y Q A A A D V F V D E N L I T A T G P G T A
UniRef90_R9KX36 Q A T S Y P G F L D G V P D V T L R A E A V V Q D G T V L T S R R G P G T A
UniRef90_Q3SHT5 V T T H W N D A R R L A E L F P Q A R V E P D R I H V D G A L V T S A G V T A G
UniRef90_M4WXD4 R M T C Y P A F S D R L S G C S F V D E P V V V D D G N C I T S Q G P G T A
UniRef90_UPI000364DE93 A T T F H D A L P D L E A A Y P A I D V R K N V R F V D G N I I T T A G I S A G
UniRef90_UPI00037D6BBB Q F T T F P G V E Q E L A T N L E N Y Q D Q V V V K D D G S L I T S R R G P A P A
UniRef90_UPI000471C873 K K A T S Y P A M W S K L N V D Q S E C K N R V V V D D G N I L T S R R G P G T S
UniRef90_W5H8W7 K A T C Y P G F E K Y L D G A E Y T A E L V E E D G N I T T G K G P A S
UniRef90_D3HWJ8 R A T T H W A Y C D T L A R D H P E I D C P D P I Y V R D G H V A T S A G V T A G
UniRef90_S4AWG4 K K A T S F P M A H L R T D Q S A C E Y R V V V D D G N L I T S R A P G T A
UniRef90_W5AMX9 R V T T H W A V A D T L R H A H P R T V L D D H V R D G K L R T S A G V T A G
UniRef90_A9BYH7 R A T T H W A Y C D T F A R R H P R V E A D P I Y V R D G H V A T S A G V T C
UniRef90_UPI00035D786D R V T T H W G R A E Q L V R E H P R V E D C D P I F V R D G R V W T S A G V T A G
UniRef90_D7BYR1 G N M T G Y P T L K E R I S A D K W Q E K R V V Y D P R V N L I T S Q G P G T S
UniRef90_C6CBD7 R A T T H W R Y H D H L K A F G A P V K D R V V H D G R I I T G G G V T A G
UniRef90_UPI0003B74CEC K V T S Y P D D E V R S Y L N Q A Y L D Q A V V V D D G N I I T S Q G P A T S
UniRef90_E0E1N5 Q V T T H W A A R R L A D N F P L A R V Q P D R I F R D G R L F T S A G V T A G
UniRef90_B1G9P6 N V T T H W G H A A Q L A R F P R V D Y D R I Y L R D G Q L V T S A G V T A G
UniRef90_E1TH76 K R F T C F P G M E Q V S G A R I W K E E R V V V D D G N L I T S R S A G T A
UniRef90_F8F3W0 R A T T H W R H A R L L A R A Y P M I E P D A I F V R D G N V Y T S A G V S A G
UniRef90_X5M4T4 R V T T H W N A A Q L R L A Y P K V T V E E D H V R D G K V R T S A G V T A G
UniRef90_E3HQ9 Q T V C Y P G F E A Q L T G A E V L K Q E V A R Q D N V T T S R G L G T A
UniRef90_R6RJU6 R A T T H W S V A Q M L Q E Q F P A I E V D A N F V R S G N L W T S A G V T A G
UniRef90_A6SUG5 S F T H F P A P P L K E K T G A G Y S E S L V V V D G C V V T S Q G P G T A
UniRef90_R1E2I3 G N M T G F P G L K E T I P A D R W M D K R C Y Y D E R V K L I T S Q G P G T S
UniRef90_I2BBR5 I R M T C Y P G F E K F L P G I N V R Q E G V V T D G N I I T S R R G P A Y A
UniRef90_UPI0002625618 R A T T H W G H A A T L A R A H P Q V E P D A I E V E D G P V F T S A G V T A G
UniRef90_D8IEU4 K Y T C Y P S C E S M V K G G E Y V E K D L V V I N D N V I T S K G P A T T
UniRef90_UPI0003FB0AA7 R A T T H W G S Y D R L A A F S S V D V Q H N V K F V D G S I V T S G G I S A G
UniRef90_S6EY58 N I T C Y P G F E E L G G E C N Y K N E L V V V D D N I I T S R R G P A A A
UniRef90_UPI00047D57C2 A T T H W R N A Q D L A R R Y P Q V R V Q P D L H I H D G R F F T S A G I S A G
UniRef90_UPI00037C25C1 R V T T H W S R A G Q L V R Q H P R V D C D P I F I R D G R V W T S A G V T A G
UniRef90_F0WIG1 K V T G Y P G F E K E F G K C E L T N E R V V V S E N C I T S Q G P A T A
UniRef90_R5JCL0 K A T C Y P S F E Q Y L E G A E C L D E P A V V S D G N I I T S R R G P G T A
UniRef90_A0A031FQV1 R V T T H W N Y T E R L I K A F P K V A T D Q I F I E D R N I I T S R R G V T A G
UniRef90_UPI00039DFC34 R A T T H W A S A E Y L E Q T F N V I T Y E A Q R Y V S R G R I I T A A G V S A G
UniRef90_A8I942 R A T S H W N A V E L L T A F G A I P T E A G R V V R D G N I I T A G V T S G
UniRef90_R7Z3U3 K V T S H P S V K E G I V G K G W D Y S E E R V V V D D G G V V T S R R G P G T A
UniRef90_D0BJF4 H Y T C Y P G F E K Q I V D G T Y T G D F V H Q D G R V I T S R R G P A A A
UniRef90_UPI0003830757 P A T T H W A S L D R L A E P T I D V R P D E R F V D D D G L I T S A G V S A G
UniRef90_UPI0003808C30 R A T C H W S S I D Q L G L L G V E P V N E R V V R D R N R I T G A G V T S G
UniRef90_UPI00038308BC R A T T H W R H S R Q L A S R F P S V W V K P D F V R D G R M M T S A A V S A G
UniRef90_D9V7F1 R A T T H W R H A R L A R A Y P D I E P D A I F V R D G D I F T S A G V S A G
UniRef90_UPI0003816001 K M T S W P S L R T D L R N A G A S W V D R S V V V D R G L I T S R N P G D I
UniRef90_E6QUV0 R A T T H W R F A E R L R K K Y P N V D A D A L F R E G R I W T S A G V T A G
UniRef90_C0W6P5 R A T A N P S F V Q L A D H G A Q V S E A S V V V D G R L I T S R G M A T A
UniRef90_B2T4L1 E V T T H W A D A S R L A D E F P Q A S V Q P D F I R D G R L F T S A G V T A G
UniRef90_R8V437 R A T C Y P G M E D G M V G A Q A V P C V W D G K I I T G R G A G A A
UniRef90_UPI00016A6AB5 R A T T H W A F H A L L E P L G A V V R E R V V R D G N L I T S R R G V T A G
UniRef90_A0A023NRN6 R V T T H W A A V D D L A R A F P S L R I D E D Y V R D G K L R T A G V T A G

QUERY	F	E	F	A	L	A	I	V	E	A	L	N	G	K	E	V	A	A	Q	V	K	A	P	L	V	L	
UniRef90_F7A9B9	F	E	F	G	L	A	I	I	A	E	L	M	G	K	S	V	V	D	Q	V	K	G	P	L	V	L	
UniRef90_B4GNB4	Y	D	F	A	L	K	I	A	E	E	L	A	G	L	E	K	V	K	E	V	A	K	G	L	L	L	
UniRef90_A0A044RAP4	L	E	F	A	L	K	L	V	E	L	L	L	G	T	E	K	V	K	E	V	A	L	P	M	V	V	
UniRef90_D2A3Q0	F	V	F	A	L	T	L	V	D	K	L	V	G	K	D	K	A	K	A	E	V	A	K	A	M	L	L
UniRef90_G7E7C6	L	L	W	A	L	T	L	V	E	A	M	C	G	K	A	K	R	D	E	V	A	S	P	M	I	V	
UniRef90_C3XYI0	F	E	F	A	L	Q	I	V	E	T	L	R	G	K	E	V	A	D	K	L	V	S	P	M	L	V	
UniRef90_D3SLI6	L	L	F	G	L	K	L	L	E	K	L	E	G	R	E	K	A	V	E	V	A	K	R	M	L	V	
UniRef90_W9S9W0	M	E	F	S	V	A	L	V	E	Q	L	Y	G	R	E	K	A	D	E	V	S	G	P	L	V	M	
UniRef90_X2GUN3	I	D	F	A	L	K	I	I	D	V	L	V	G	R	K	K	A	A	E	V	A	Q	Q	L	V	L	
UniRef90_F3NGE7	I	D	L	A	L	A	L	V	E	E	D	L	G	R	E	V	A	L	T	V	A	R	H	L	V	V	
UniRef90_K5Y1Y6	I	N	F	G	L	A	L	V	E	A	I	K	G	N	E	A	V	A	E	E	V	A	A	G	L	V	V
UniRef90_D4LZ24	I	P	F	A	L	E	L	I	R	Q	L	F	G	N	E	K	A	S	E	L	A	E	S	I	V	V	
UniRef90_UPI000479B39E	I	P	F	G	L	A	I	I	E	H	F	Q	G	K	E	A	A	D	E	M	A	A	K	I	V	V	
UniRef90_U2RAI1	M	D	F	S	L	M	I	S	E	F	L	G	R	E	K	A	E	K	T	A	K	E	L	V	L	V	
UniRef90_K5XBV8	L	E	F	A	L	T	L	V	E	R	L	V	G	K	A	R	R	R	E	V	A	A	D	M	L	V	
UniRef90_I0X9J7	E	E	F	A	M	E	L	I	R	L	L	C	G	D	E	V	A	K	K	I	V	A	A	D	M	L	V
UniRef90_F2RF31	I	D	L	A	L	A	L	V	E	E	D	H	G	R	D	V	A	L	T	V	A	R	H	L	V	V	
UniRef90_S4PYG8	Y	W	F	G	L	K	L	I	E	M	L	T	G	K	E	T	A	D	Q	V	E	K	G	M	I	I	
UniRef90_S8CKY5	M	E	F	A	L	A	I	T	E	K	F	L	G	R	E	K	A	D	E	L	A	E	A	M	L	F	
UniRef90_UPI0003317B22	F	E	F	A	L	Y	L	T	Q	V	M	L	G	K	D	K	A	D	V	A	A	A	A	A	A	A	
UniRef90_F4P7U3	I	D	F	A	L	A	L	V	E	K	L	L	G	A	V	R	S	K	V	E	A	P	M	C	I	I	
UniRef90_H3FSP8	F	E	F	A	L	K	L	V	E	I	L	V	S	A	E	S	K	K	L	H	E	G	M	L	L	L	
UniRef90_R7JUH8	T	D	F	A	L	E	L	I	R	V	L	Q	G	E	D	K	A	K	E	M	A	E	K	L	V	F	
UniRef90_H9KDP7	F	A	F	G	L	A	I	A	E	K	L	I	D	K	T	A	D	N	V	A	Q	A	M	L	L	L	
UniRef90_D3SC10	M	D	F	A	L	T	L	I	E	Q	L	A	G	R	E	A	R	E	A	V	E	G	P	L	L	L	
UniRef90_A2EJC2	Q	Q	F	G	L	A	L	V	E	A	L	I	S	K	E	A	A	E	V	A	K	G	A	L	L	L	
UniRef90_L1K0T4	T	Q	F	G	L	A	L	V	E	K	L	K	E	Q	A	T	A	D	E	I	A	A	S	I	L	L	
UniRef90_Q9FPF0	M	E	F	S	L	A	L	V	E	K	F	Y	G	R	E	K	A	L	Q	L	G	K	A	T	L	V	
UniRef90_UPI000382A534	I	D	L	A	L	A	L	V	E	E	D	H	G	R	D	V	A	L	T	V	A	R	H	L	V	V	
UniRef90_C9RKY9	E	E	F	A	L	K	C	I	A	V	M	G	G	A	E	L	S	Q	K	I	Q	S	Q	I	V	V	
UniRef90_F7GQC4	K	F	F	A	L	A	I	V	E	A	L	S	G	R	E	V	A	A	R	V	K	A	P	L	V	L	
UniRef90_R6VXB9	M	D	F	G	Y	A	I	L	G	K	F	V	A	P	E	A	V	A	E	V	L	K	A	Q	M	M	
UniRef90_T2M6B2	F	N	F	S	L	E	I	V	K	L	V	V	G	S	D	I	A	E	E	V	S	T	G	M	L	L	
UniRef90_I1GY83	M	E	Y	S	V	I	L	V	E	Q	L	Y	G	K	E	K	A	D	E	V	A	G	P	M	V	M	
UniRef90_UPI00047B555D	I	P	F	A	L	A	I	L	V	E	H	F	D	N	G	E	A	A	E	Q	M	A	Q	A	I	V	L
UniRef90_K0JTB8	M	D	L	A	L	A	L	V	E	D	H	G	R	D	V	A	H	E	V	A	R	Q	L	V	L	L	
UniRef90_UPI000405C27B	I	D	F	G	L	K	I	V	E	H	F	L	G	K	D	K	A	D	E	I	A	C	S	I	V	V	
UniRef90_U2SKR0	I	D	F	S	L	A	L	I	E	E	L	L	G	K	N	K	S	E	E	I	R	K	Q	L	L	L	
UniRef90_A5I5K3	M	Y	F	A	F	K	I	L	E	N	L	K	K	D	S	A	K	G	I	K	E	D	M	L	L	L	
UniRef90_F2EGX7	I	E	F	A	L	A	L	V	E	Q	L	Y	G	K	P	K	A	E	E	V	A	G	P	L	Y	V	
UniRef90_H6RBC0	I	D	L	A	L	A	L	V	E	D	D	H	G	S	A	V	A	R	R	V	A	Q	S	L	L	V	
UniRef90_R9KX36	L	P	F	G	I	Q	L	V	R	T	L	E	G	D	E	T	A	D	E	V	A	V	G	M	L	V	
UniRef90_Q3SHT5	M	D	F	A	L	Q	L	V	E	T	L	V	G	R	A	K	R	E	Q	V	E	T	A	L	V	V	
UniRef90_M4VXD4	I	D	L	A	L	A	L	V	E	A	E	D	H	G	A	V	A	L	S	V	A	K	R	L	L	V	
UniRef90_UPI000364DE93	L	A	F	A	L	T	L	V	E	Q	L	A	G	K	G	K	R	N	A	V	A	K	A	M	L	L	
UniRef90_UPI00037D6BBB	I	D	G	A	L	H	L	V	A	K	L	K	G	F	E	A	A	K	R	T	A	Y	Y	M	M	M	
UniRef90_UPI000471C873	F	P	F	G	L	E	L	L	A	S	L	E	G	T	E	R	A	L	E	V	Y	Q	A	M	L	L	
UniRef90_W5H8W7	M	E	F	S	L	A	I	V	E	K	L	V	F	G	R	E	R	A	F	E	L	A	K	A	M	V	F
UniRef90_D3HWJ8	F	P	Y	A	Y	R	I	L	S	Y	F	A	G	E	E	T	A	K	E	V	Q	Q	G	M	M	M	
UniRef90_S4AWG4	I	D	L	A	L	A	L	V	E	E	D	L	G	R	D	T	A	L	T	V	A	R	Y	L	V	V	
UniRef90_W5AMX9	T	E	F	A	L	A	I	V	E	K	L	F	G	E	K	A	V	A	L	A	K	E	L	V	F	V	
UniRef90_A9BYH7	L	D	L	A	L	S	L	V	E	E	D	C	G	R	E	V	A	A	R	V	A	S	Q	L	V	M	
UniRef90_UPI00035D786D	I	D	L	A	L	A	L	V	E	E	D	L	G	R	D	A	A	L	A	V	A	R	H	L	V	V	
UniRef90_D7BYR1	M	D	L	A	L	A	L	V	E	A	D	L	G	R	E	A	A	H	T	V	A	R	E	L	V	L	
UniRef90_C6CBD7	I	D	F	A	L	K	L	I	D	L	L	A	G	K	A	K	A	D	V	A	S	Q	L	V	L	L	
UniRef90_UPI0003B74CEC	I	D	F	A	L	S	L	V	R	E	I	A	G	E	D	H	A	S	A	V	Q	L	S	L	L	L	
UniRef90_E0E1N5	F	E	F	A	Y	T	L	V	E	L	L	G	G	D	H	S	L	R	V	A	A	A	A	A	A	A	
UniRef90_B1G9P6	I	D	L	C	L	S	L	V	A	E	D	W	G	H	E	M	A	V	R	V	A	K	R	L	V	V	
UniRef90_E1TH76	I	D	L	S	L	A	L	V	A	E	D	H	G	A	N	I	A	L	A	V	A	K	R	L	V	L	
UniRef90_F8F3W0	G	E	W	A	Y	E	I	V	K	K	L	M	G	S	D	G	A	E	K	V	A	S	A	V	L	L	
UniRef90_X5M4T4	I	D	L	A	L	A	L	V	E	S	D	Y	G	A	E	L	V	R	E	V	A	R	S	L	V	V	
UniRef90_E3HQC9	L	D	L	A	L	S	L	V	E	E	D	L	G	R	D	V	A	A	S	V	A	A	Q	L	V	M	
UniRef90_R6RJU6	I	P	F	A	L	D	L	I	T	Q	L	Y	G	E	E	K	A	E	E	I	R	K	S	I	F	F	
UniRef90_A6SUG5	I	D	L	A	L	A	F	V	E	E	D	F	G	R	E	L	A	L	D	V	A	T	D	M	V	V	
UniRef90_R1E2I3	L	P	F	G	L	K	L	V	E	L	L	V	S	R	E	K	A	E	V	A	K	G	L	L	L	L	
UniRef90_I2BBR5	I	D	F	A	L	K	I	I	D	L	L	A	G	K	A	A	E	V	A	A	Q	L	V	L	L	L	
UniRef90_R5P517	F	A	F	G	L	A	L	L	E	H	I	T	G	Q	E	T	A	R	E	V	A	E	G	M	L	L	
UniRef90_UPI0002625618	I	D	L	A	L	A	L	V	E	R	D	H	G	P	E	L	A	R	R	V	A	R	S	L	V	V	
UniRef90_D8IEU4	V	F	F	A	L	E	L	V	K	Y	L	L	G	N	N	E	E	V	S	K	G	L	V	V	V	V	
UniRef90_UPI0003FB0AA7	I	N	M	A	F	H	L	M	E	K	F	E	G	K	E	A	V	T	Q	T	A	R	W	M	M	M	
UniRef90_S6EY58	I	P	F	A	F	E	I	L	S	K	V	K	P	E	K	V	D	E	T	K	R	G	M	L	F	F	
UniRef90_UPI00047D57C2	I	D	L	A	L	S	L	V	E	G	D	R	G	A	A	V	A	R	D	V	A	R	D	M	V	M	
UniRef90_UPI00037C25C1	M	D	L	A	L	A	L	V	E	D	D	L	G	Q	D	I	A	R	A	V	A	Q	E	L	V	L	
UniRef90_F0WIG1	M	E	M	G	V	K	L	V	E	L	L	C	G	T	E	K	A	A	E	V	A	K	G	L	L	L	
UniRef90_R5JCL0	M	D	F	V	L	A	I	V	E	K	L	V	G	K	E	K	V	D	E	L	V	E	A	M	C	I	
UniRef90_A0A031FQV1	I	D	L	A	L	A	L	V	A	Q	D	H	G	K	K	L	A	Q	D	V	A	K	V	L	L	V	
UniRef90_UPI00039DFC34	I	D	M	A	L	Y	L	A	A	L	I	A	G	T	A	T	A	R	A	V	Q	L	L	L	L	L	
UniRef90_A8I942	I	D	F	G	L	T	V	I	A	E	L	L	G	A	E	T	A	Q	R	V	Q	L	A	L	L	L	
UniRef90_R7Z3U3	M	L																									

UniRef90_R5BAG9
UniRef90_T1W6C9
UniRef90_H2JPR9
UniRef90_E3DP93
UniRef90_UPI0003653EF5
UniRef90_E3HDH7
UniRef90_I7FEJ3
UniRef90_E3J471
UniRef90_F3P8S3
UniRef90_I2J066
UniRef90_C1N0W5
UniRef90_F7T123
UniRef90_K4E585
UniRef90_H2BYJ3
UniRef90_UPI0003B7067F
UniRef90_A4VRN1
UniRef90_L0IT14
UniRef90_M5NZG5
UniRef90_UPI0003194194
UniRef90_UPI00037223C6
UniRef90_U4VG07
UniRef90_UPI00037D511C
UniRef90_E1KQW3
UniRef90_UPI0004015B1D
UniRef90_G7JL67
UniRef90_D3NWX1
UniRef90_R5Y64
UniRef90_R4XXU8
UniRef90_W5DN13
UniRef90_F9T5Y4
UniRef90_UPI00046668E1
UniRef90_F0SPV8
UniRef90_UPI000418B975
UniRef90_J7QVK3
UniRef90_I117U5
UniRef90_F6CXQ0
UniRef90_UPI0003F848A2
UniRef90_D8TQ46
UniRef90_H0JHA9
UniRef90_G9AHP9
UniRef90_C7RJX2
UniRef90_V8D5U9
UniRef90_W0L8D8
UniRef90_UPI00035ED839
UniRef90_B1QXC7
UniRef90_UPI0003716705
UniRef90_I4VTA0
UniRef90_R7FFS7
UniRef90_J3FZU8
UniRef90_J7LBI6
UniRef90_UPI000288C312
UniRef90_B5GB68
UniRef90_A8INV5
UniRef90_UPI000468A361
UniRef90_Q73ZF1
UniRef90_B9TI86
UniRef90_U4WRM9
UniRef90_E4KZH3
UniRef90_I2QDK8
UniRef90_UPI00037F4315
UniRef90_G2RZ77
UniRef90_J3KXN9
UniRef90_S6KF94
UniRef90_UPI000404CF62
UniRef90_A1UAW9
UniRef90_H1Z9K7
UniRef90_U3H5Y1
UniRef90_B0SX12
UniRef90_UPI00036827ED
UniRef90_W5W911
UniRef90_R6RK95
UniRef90_H0F5D4
UniRef90_C3XF88
UniRef90_G9YXD7
UniRef90_UPI000478A44E
UniRef90_UPI00041D4DE6
UniRef90_F0RWE4
UniRef90_UPI00047BC617
UniRef90_UPI00028978DD
UniRef90_R5CHR0
UniRef90_W6RYM3
UniRef90_K4QTA3
UniRef90_W0UWN6
UniRef90_UPI00034842C1
UniRef90_R6KCP9
UniRef90_C9LJQ9
UniRef90_UPI0003666FE8
UniRef90_D8IPT5
UniRef90_F7YMB9
UniRef90_UPI00047A15F4
UniRef90_F3NHQ0
UniRef90_A5EJE2

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

UniRef90_R5BAG9
UniRef90_T1W6C9
UniRef90_H2JPR9
UniRef90_E3DP93
UniRef90_UPI0003653EF5
UniRef90_E3HDH7
UniRef90_I7FEJ3
UniRef90_E3J471
UniRef90_F3P8S3
UniRef90_I2J066
UniRef90_C1N0W5
UniRef90_F7T123
UniRef90_K4E585
UniRef90_H2BYJ3
UniRef90_UPI0003B7067F
UniRef90_A4VRN1
UniRef90_L0IT14
UniRef90_M5NZG5
UniRef90_UPI0003194194
UniRef90_UPI00037223C6
UniRef90_U4VG07
UniRef90_UPI00037D511C
UniRef90_E1KQW3
UniRef90_UPI0004015B1D
UniRef90_G7JL67
UniRef90_D3NWX1
UniRef90_R5Y64
UniRef90_R4XXU8
UniRef90_W5DN13
UniRef90_F9T5Y4
UniRef90_UPI00046668E1
UniRef90_F0SPV8
UniRef90_UPI000418B975
UniRef90_J7QVK3
UniRef90_I117U5
UniRef90_F6CXQ0
UniRef90_UPI0003F848A2
UniRef90_D8TQ46
UniRef90_H0JHA9
UniRef90_G9AHP9
UniRef90_C7RJX2
UniRef90_V8D5U9
UniRef90_W0L8D8
UniRef90_UPI00035ED839
UniRef90_B1QXC7
UniRef90_UPI0003716705
UniRef90_I4VTA0
UniRef90_R7FFS7
UniRef90_J3FZU8
UniRef90_J7LBI6
UniRef90_UPI000288C312
UniRef90_B5GB68
UniRef90_A8INV5
UniRef90_UPI000468A361
UniRef90_Q73ZF1
UniRef90_B9TI86
UniRef90_U4VWRM9
UniRef90_E4KZH3
UniRef90_I2QDK8
UniRef90_UPI00037F4315
UniRef90_G2RZ77
UniRef90_J3KXN9
UniRef90_S6KF94
UniRef90_UPI000404CF62
UniRef90_A1UAW9
UniRef90_H1Z9K7
UniRef90_U3H5Y1
UniRef90_B0SX12
UniRef90_UPI00036827ED
UniRef90_W5W911
UniRef90_R6RK95
UniRef90_H0F5D4
UniRef90_C3XF88
UniRef90_G9YXD7
UniRef90_UPI000478A44E
UniRef90_UPI00041D4DE6
UniRef90_F0RWE4
UniRef90_UPI00047BC617
UniRef90_UPI00028978DD
UniRef90_R5CHR0
UniRef90_W6RYM3
UniRef90_K4QTA3
UniRef90_W0UWN6
UniRef90_UPI00034842C1
UniRef90_R6KCP9
UniRef90_C9LJQ9
UniRef90_UPI0003666FE8
UniRef90_D8IPT5
UniRef90_F7YMB9
UniRef90_UPI00047A15F4
UniRef90_F3NHQ0
UniRef90_A5EJE2

50 60 70 80
K E V K G A H G V P V T A D L D W D K T E G T D R K D V M V F P G G L P G A R H
E V T S S M G V K V G V H S S V E D A G Q L D T L V I P G S E R Q A P G V F T T
P E I E G D H G I K R L D A A G S W E D L P A R L G T L V V P G R R D W R E A V A
K R W D T D T P L R I T A S H T F D Q V P A P A V L V V P G G G V P T A K
D V T T S S Q N L R F V E A D K L L S S E D Y L D G D M L L L P G G S G G Y E N
P V R S S S G L V L T P H A D L R A L P R L D D V P A L D L L L V S G G S G G
R A V T T S S H N I V V T C D L T L A E A N L A S E Y D M L V L P G G L P G S T P N
UniRef90_I2J066 R N V V C S R G V R I V A D K N L A G R G A P S D W D L I A V P G G M P G A E R
UniRef90_C1N0W5 A V P C S N G M L L T P Q R H Y A E V A D V P D L L L A A G G P G L P A
UniRef90_K4E585 Q N L L L S R G L K L T T D S L D L K D E S A A A Y D G V F L P A G G L P G A D H
UniRef90_H2BYJ3 K W D K T D W S K E Y E V N Y T L L D Q V K P S D Y N A L M L P G G V L N P D K
UniRef90_UPI0003B7067F A V T T S I G I R I G V D G G P D F Q P A P D T F L T A G A D S Y P R
UniRef90_A4VRN1 G E V T G W N H T T P A S K F H V D N T F R M E D Y D A V L L L P G G V V N S D T
UniRef90_L0IT14 P I A A D S G A L L V G A T H S F D E T P S P D T I L V P G G M T T F E H
UniRef90_M5NZG5 A V T A R N G L T V V P D F S I E N A P R F E E Y D C I V V P G G V E G A R C
UniRef90_UPI0003194194 L T V T C S R N G V K I L A D A P L V K V A D P E Y D C I V V P G G V E G A R C
UniRef90_UPI00037223C6 P A R T D N G M L A L S A D A T L A E V T A P D V V V V P G G P G Q T E
UniRef90_U4VG07 N P V K S S S G L T F I P T A T F D D C P Q L D V I C I P G G G G V N P
UniRef90_UPI00037D511C G W D K S D W G R P V P V D K T L D A V R P Q D Y D A L V L P G G Q I N P D L
UniRef90_E1KQW3 L M V E S A N G V T M K A D L L F T A D F M D A D M L L L P G G M P G A N
UniRef90_UPI0004015B1D A L R A S N G V R V N A D L C I D Q A Q S A Y D L L L V P G G P G A Y N R N H
UniRef90_G7JL67 L G V M A S O G T K I V A D K L I S D I Q E S A H D L I L P G G T A G A E R
UniRef90_D3NWX1 R I Q G W N H H D R V D V D V T L D Q T D A D R Y D A L L L P G G V M N P D S
UniRef90_R5Y64 L I E R S S H G I S V Q A D C T V E Q M K L A D T D M V L L P G G L G G V H S
UniRef90_R4XXU8 E V R S S C G I G V Q T R P W R G T P A D T L V V P G G E G A R E T
UniRef90_W5DN13 T N V V I G S Q R M K I V A D K C I L G A S D S K H D L I I I P G G P A G A E R
UniRef90_F9T5Y4 G N L T M K A S R D V T L S A D C K L V D L A D D F D A V I L P G G V G G A E V
UniRef90_UPI00046668E1 A T V K A S N G L P L A P D T T F D C P T L D V I C I P G G A G V G
UniRef90_F0SPV8 K I Q G M N H S E K G D Q F D V D E T V G N V S A Y D G L V L P G G V L N P D T
UniRef90_UPI000418B975 D F V E T S G I T V K A D L K F E D V T N F S D A D M L L L P G G M P G S T N
UniRef90_J7QVK3 S V I E J A Q T A G P V R T M S G L Q I M A S H S Y G E M V E V V V G G T G C E A
UniRef90_I117U5 L E V E A S C G T H L J A D K L I S A C A D Q V F D L V A L P G G M P G S V R
UniRef90_F6CXQ0 T N V T L A N G C Q L T A D T L L S E H T E K M F D A I A L P G G M P G A E H
UniRef90_UPI0003F848A2 E Y V T G A H N I T V K A D L L I D D V N Y V D M V V L P G G M P G A T N
UniRef90_D8TQ46 I D V V C S R G V K L I A D K H I N E C S K C S Y D L I A C P G G M P G A E R
UniRef90_H0JHA9 G E V R G W D G T E P A D S F P V D K A A N A G D Y D A V L L P G G V V N A D T
UniRef90_G9AHP9 L T V V J A E D D E P V T S S G L V L K A T H P L P H D H T L I V A G G R G V N A
UniRef90_C7RJX2 A Q L R T S L G V E L A G L J A A L P A R L P P D S L V I V T G N A C E A E D Y A
UniRef90_V8D5U9 P V V A D S G V L L I G A T H T L D E T P S P D V V L V P G G N A S V M N
UniRef90_W0L8D8 K P V J A D R G M A L P T V T F D T C P A L D V I C I P G G P G Q I N
UniRef90_UPI00035ED839 G P V R T D A D Y A I L V E H G P E A L G T A D T V I V P S S Y T L G P V Y E E
UniRef90_B1QXC7 K K V T S S H G V S I E A D K L F D E S M E Y D L I V L P G G L P D G T N
UniRef90_UPI0003716705 A V R T S A G V R L V P D L T F D E V G Q V D T L L V P G A V D M T D D G P V
UniRef90_I4VTA0 T Q I R G W D K K N W G D P V N V D V A L Q D D N Y D A L M L P G G V M N P D K
UniRef90_R7FFS7 K T V T G S H G I P L T A D L T A E E L N I G A D M E M I V L P G G M P G T L N
UniRef90_J3FZU8 P Q M A S T G I G L M A H T L E H E R R A D A I D T L I V A T G W Q A I D Q
UniRef90_J7LBI6 P I Q A M N G D I E P A D R F A V D R E V S K D D Y D A L V V P G G T I N P D H
UniRef90_UPI000288C312 A I L T S A G L P V V T V A T A S L J A N R P I D T L I A P G G C V G E D
UniRef90_B5GB68 G P V R A E A D F L V A H G P E A L A H A D T V L I P A S Y E L G P V H E E
UniRef90_A8INV5 P S I G G T G Q L R F L A D R S I F D P D E P I D T L L V A G D P S F Q D I D P
UniRef90_UPI000468A361 P V K T S S G L E V M T T A L A D C D H K T I D T L M V G G G P G V H R A
UniRef90_Q73ZF1 P V T T P A G L G F V A T A L P D G R P I D T V V L P G G A G V D A
UniRef90_B9TI86 G E V Q G F N H L T P A N T F D V E L D V R D A D F D A L V L P G G V A N P D N
UniRef90_U4VWRM9 M I T A R N G L K V Q P D Y S F D N A P S F D L L I V P G G P G S R T
UniRef90_E4KZH3 L E V K G A H G V T V L A D K A F D E N I E D Y R A M Y I P G G Q P G A T N
UniRef90_I2QDK8 D P V R G T G G L R F V A D R H I F D P D E P I D T L L V G G D P S F A I V D P
UniRef90_UPI00037F4315 G V R L A K K R I L P A H G A D D V G P L H V L V Y P G G L G T R P
UniRef90_G2RZ77 L E V V G A H K I L T L K A N K L W D D I N N D Y D G M F L P G G S G V V S
UniRef90_J3KXN9 G G L V V E A M Y V A P A A D D V D D S A A A R F D L I V L P G G V P G A N
UniRef90_S6KF94 T A L R A S N G V L V H A D H L L E Q S L D S Y D L L L V P G G P G A Y N Q R H
UniRef90_UPI000404CF62 P V R N D S G S L V A D R T L E E V P A P D L L I V P G G P G Q S A
UniRef90_A1UAW9 P V T T G T G L T L A A E P L P K P D T P L D T L V L P G G Q G T Q T
UniRef90_H1Z9K7 L K I K T S A G I E V Q C D Y T I Y D H N I P L D T L L L T G S K S D L S
UniRef90_U3H5Y1 R T V R A S N G L A M Q A D L L I E D A E P T Y D L L L V P G P G A Y N D
UniRef90_B0SX12 A I V C N S G L G I A G S V A F A D L P T D L D T I L V A G G D E E G L L
UniRef90_UPI00036827ED K E V T S S H G L R L C A D Y S I E E V K D E L V D A V V L P G G M P G A T N
UniRef90_W5W911 L G V R S S T G L R V H A D L L A A S E V D R V D T L V V P G P A D W A G
UniRef90_R6RK95 R Q V T G S H G F T V T A D A L F E E L T D D A D V L F L P G G L P G A D H
UniRef90_H0F5D4 E P V R C D R G L R F V P T Q T L A S A P P C D L L V V P G G P G T D D
UniRef90_C3XF88 G N I K G A N G I E I K A E L A L S S I D I N S L D G I A L A G G F E G M Q N
UniRef90_G9YXD7 P A V T S A H G V T V A D L T L A E L D R E A V D M L V L P G G L G G V E V
UniRef90_UPI000478A44E E I R G W D W G R S V R V D K P L T E A K A S D Y D L V L P G G V M N P D H
UniRef90_UPI00041D4DE6 E P V P S D S V L T L T P T T F A D C P C D L V V P G G A G T D D
UniRef90_F0RWE4 L L V K G S H G L V V G C D R H L S E C M D D S Y D C V V L P G G G K G S L N
UniRef90_UPI00047BC617 L K V M G S H Q I E I N T D Y S C H N F I D N D Y Q G L I P G G P G V N G
UniRef90_UPI00028978DD P V R T H T G H L A I T A D R T L A E V T R P D I V V V P G G P G Q T R
UniRef90_R5CHR0 R T V T S S H N I T I T A D T L A E M D P E E F C M L V L P G G I P G T P N
UniRef90_W6RYM3 E Y V T G S H D I T I K S D L I E N I D I D Q Y Q C I V L P G G L P G A T N
UniRef90_K4QTA3 P V R T D T G N L A L T A D R T F A E V P S P D I V I V P G G P G Q T P
UniRef90_W0UWN6 S S V M C S S G I E F K V H C H Y L D F Q A E S D L L V A G G P A Y P A Y
UniRef90_UPI00034842C1 E V R T S A G S L G L T V D A E L A D V P A P D I I V V P G G P G Q A D
UniRef90_R6KCP9 K L V E S A Q N L K V E A D E L I E N V S C D K E D V L F L P G G P G H K S Y
UniRef90_C9LJQ9 K L V A S S H G F K I M A D A V F T E I D L T Q A A A L I M P G G M P G A Q N
UniRef90_UPI0003666FE8 G W D Q T D W G Q S V P V D K T L S E V T V A D Y D A L V L P G G Q I N P D K
UniRef90_D8IPT5 L L R T R S P L S L A G I V P L S S I E G R L D T V L V A G G H E Q A I H Q A
UniRef90_F7YMB9 L M M K A S R G V T L T A D C K L L D V I D E E F D V I A L P G G V G G A E I
UniRef90_UPI00047A15F4 G P V R C N K G M R V L P D H T I D D H P D L D V L V P G G N G R V I A
UniRef90_F3NHQ0 P P V R S A Q G L P L S G T E W P A L D A E D L V V V P G W R A P T L R G G
UniRef90_A5EJE2 A P V P T D S V L T L L P T T T F A D C P Q S D I I C I P G G F G V D A

UniRef90_R5BAG9
UniRef90_T1W6C9
UniRef90_H2JPR9
UniRef90_E3DP93
UniRef90_UPI0003653EF5
UniRef90_E3HDH7
UniRef90_I7FEJ3
UniRef90_E3J471
UniRef90_F3P8S3
UniRef90_I2J066
UniRef90_C1N0W5
UniRef90_F7T123
UniRef90_K4E585
UniRef90_H2BYJ3
UniRef90_UPI0003B7067F
UniRef90_A4VRN1
UniRef90_L0IT14
UniRef90_M5NZG5
UniRef90_UPI0003194194
UniRef90_UPI00037223C6
UniRef90_U4VG07
UniRef90_UPI00037D511C
UniRef90_E1KQW3
UniRef90_UPI0004015B1D
UniRef90_G7JL67
UniRef90_D3NWX1
UniRef90_R5Y64
UniRef90_R4XXU8
UniRef90_W5DN13
UniRef90_F9T5Y4
UniRef90_UPI00046668E1
UniRef90_F0SPV8
UniRef90_UPI000418B975
UniRef90_J7QVK3
UniRef90_I117U5
UniRef90_F6CXQ0
UniRef90_UPI0003F848A2
UniRef90_D8TQ46
UniRef90_H0JHA9
UniRef90_G9AHP9
UniRef90_C7RJX2
UniRef90_V8D5U9
UniRef90_W0L8D8
UniRef90_UPI00035ED839
UniRef90_B1QXC7
UniRef90_UPI0003716705
UniRef90_I4VTA0
UniRef90_R7FFS7
UniRef90_J3FZU8
UniRef90_J7LBI6
UniRef90_UPI000288C312
UniRef90_B5GB68
UniRef90_A8INV5
UniRef90_UPI000468A361
UniRef90_Q73ZF1
UniRef90_B9TI86
UniRef90_U4WRM9
UniRef90_E4KZH3
UniRef90_I2QDK8
UniRef90_UPI00037F4315
UniRef90_G2RZ77
UniRef90_J3KXN9
UniRef90_S6KF94
UniRef90_UPI000404CF62
UniRef90_A1UAW9
UniRef90_H1Z9K7
UniRef90_U3H5Y1
UniRef90_B0SX12
UniRef90_UPI00036827ED
UniRef90_W5W911
UniRef90_R6RK95
UniRef90_H0F5D4
UniRef90_C3XF88
UniRef90_G9YXD7
UniRef90_UPI000478A44E
UniRef90_UPI00041D4DE6
UniRef90_F0RWE4
UniRef90_UPI00047BC617
UniRef90_UPI00028978DD
UniRef90_R5CHR0
UniRef90_W6RYM3
UniRef90_K4QTA3
UniRef90_W0UWN6
UniRef90_UPI00034842C1
UniRef90_R6KCP9
UniRef90_C9LJQ9
UniRef90_UPI0003666FE8
UniRef90_D8IPT5
UniRef90_F7YMB9
UniRef90_UPI00047A15F4
UniRef90_F3NHQ0
UniRef90_A5EJE2

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

UniRef90_R5BAG9
UniRef90_T1W6C9
UniRef90_H2JPR9
UniRef90_E3DP93
UniRef90_UPI0003653EF5
UniRef90_E3HDH7
UniRef90_I7FEJ3
UniRef90_E3J471
UniRef90_F3P8S3
UniRef90_I2J066
UniRef90_C1N0W5
UniRef90_F7T123
UniRef90_K4E585
UniRef90_H2BYJ3
UniRef90_UPI0003B7067F
UniRef90_A4VRN1
UniRef90_L0IT14
UniRef90_M5NZG5
UniRef90_UPI0003194194
UniRef90_UPI00037223C6
UniRef90_U4VG07
UniRef90_UPI00037D511C
UniRef90_E1KQW3
UniRef90_UPI0004015B1D
UniRef90_G7JL67
UniRef90_D3NWX1
UniRef90_R5Y64
UniRef90_R4XXU8
UniRef90_W5DN13
UniRef90_F9T5Y4
UniRef90_UPI00046668E1
UniRef90_F0SPV8
UniRef90_UPI000418B975
UniRef90_J7QVK3
UniRef90_I117U5
UniRef90_F6CXQ0
UniRef90_UPI0003F848A2
UniRef90_D8TQ46
UniRef90_H0JHA9
UniRef90_G9AHP9
UniRef90_C7RJX2
UniRef90_V8D5U9
UniRef90_W0L8D8
UniRef90_UPI00035ED839
UniRef90_B1QXC7
UniRef90_UPI0003716705
UniRef90_I4VTA0
UniRef90_R7FFS7
UniRef90_J3FZU8
UniRef90_J7LBI6
UniRef90_UPI000288C312
UniRef90_B5GB68
UniRef90_A8INV5
UniRef90_UPI000468A361
UniRef90_Q73ZF1
UniRef90_B9TI86
UniRef90_U4WRM9
UniRef90_E4KZH3
UniRef90_I2QDK8
UniRef90_UPI00037F4315
UniRef90_G2RZ77
UniRef90_J3KXN9
UniRef90_S6KF94
UniRef90_UPI000404CF62
UniRef90_A1UAW9
UniRef90_H1Z9K7
UniRef90_U3H5Y1
UniRef90_B0SX12
UniRef90_UPI00036827ED
UniRef90_W5W911
UniRef90_R6RK95
UniRef90_H0F5D4
UniRef90_C3XF88
UniRef90_G9YXD7
UniRef90_UPI000478A44E
UniRef90_UPI00041D4DE6
UniRef90_F0RWE4
UniRef90_UPI00047BC617
UniRef90_UPI00028978DD
UniRef90_R5CHR0
UniRef90_W6RYM3
UniRef90_K4QTA3
UniRef90_W0UWN6
UniRef90_UPI00034842C1
UniRef90_R6KCP9
UniRef90_C9LJQ9
UniRef90_UPI0003666FE8
UniRef90_D8IPT5
UniRef90_F7YMB9
UniRef90_UPI00047A15F4
UniRef90_F3NHQ0
UniRef90_A5EJE2

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

UniRef90_R5BAG9 I D F A L A I V G H V T S P A L A E G I R A A M M L
UniRef90_T1W6C9 I D L A L A L L E Q D Y G A D V A R N V A Q L L L V
UniRef90_H2JPR9 I D L A L A L V E E D H G P D E E T K R E L V A R E L V V
UniRef90_E3DP93 M E F A M T I V E C L I D E E T K R E L Q K S M I V
UniRef90_UPI0003653EF5 I D M A L H L V E R F A G A E V A K Q I Q
UniRef90_E3HDH7 I D F G L K L A E V L V G P E K V E E V K K K M
UniRef90_I7FEJ3 I D L A L A L V E L D H G S E L V R E V A R S L V V
UniRef90_E3J471 V D L T L A L V A E D L G R E V A L T V A R H L L V
UniRef90_F3P8S3 I D F G L E I V R H Y L G G E A V D D V K A K L V
UniRef90_I2J066 L A F A Y N L V E Q L G G D A N A L R E A M L
UniRef90_C1N0W5 L E W A L C L V E Q L F G G E D K A K E V A G P M V V
UniRef90_F7T123 I D L A L Y L V A Q D H G P E V A L N V A K R L V V
UniRef90_K4E585 L A F G L A I V A A L L T K D C A L R L A K E L L V
UniRef90_H2BYJ3 P A F N A K L I E E I K
UniRef90_UPI0003B7067F I D L A L A L V E E D H G P D L T R E V A R A L V V
UniRef90_A4VRN1 P A F S Q A L I D A L
UniRef90_L0IT14 I D L A M W L F G Q I C G E A K A K A V Q
UniRef90_M5NZG5 I N M S F H I V K R L L G E E T A R Q T A K R M
UniRef90_UPI0003194194 L E F A V E I V L V L A G K E K A K E V T D P M V M
UniRef90_UPI00037223C6 I D M G L T L A A R I A G E D A A R A I Q L G I
UniRef90_U4VG07 I D F G L S I L E E V F G Q T E A E T V Q L T L
UniRef90_UPI00037D511C D A F C G K L A E E I R E G R H E R R A A
UniRef90_E1KQW3 F M Y G F A I L T Q L T S E A K A K E I K D A M L I
UniRef90_UPI0004015B1D I D L A L A V V A E D H G K K V A Q D V A K V L L V
UniRef90_G7JL67 T D F A L A L V S K L F G N G R A R S V A E G L V F
UniRef90_D3NWXQ1 P A F C R K M I E E F A E G R H A
UniRef90_R5IY64 D E F G L A C L R A L K G E D T A R Q V A S D L V
UniRef90_R4XXU8 I D L A L A M V E A D L G V D V A A E T A R E M V V
UniRef90_W5DN13 M D F S L A I V R K F F G H G R A K G V A N G M V F
UniRef90_F9T5Y4 L E F A M E I I I N L S G K A H A W T V A E P M V
UniRef90_UPI00046668E1 I D F A L T L V G E L V G V D E A Q A I Q L Q I
UniRef90_F0SPV8 P A F C D K A I E E F A E G K H A E Q T
UniRef90_UPI000418B975 L P Y A Y Q I L S Y F I G E T A V K E L Q V K M
UniRef90_J7QVK3 I D L A L S L V E E D L G R E T M L G V A R A L L V
UniRef90_I117U5 F Q F A L S F V E Q L F G A H A A E D M N S T L M
UniRef90_F6CXQ0 M V F A L T L A N L K G V E E A K Q V A E G L L
UniRef90_UPI0003F848A2 L E F S Y N I L K E L G S D K E K S L R E E M L
UniRef90_D8TQ46 F E F A L S L V K Q L F G E E K A M Q V A G P M V M
UniRef90_H0JHA9 P A F N R E F I K L L A G
UniRef90_G9AHP9 I D L A L A M V E A D L G R T V A L A V A R H L V V
UniRef90_C7RJX2 I D L A L Y L J E R H A G A E L A A R V A R R L V V
UniRef90_V8D5U9 I D L A L W L A A Q I A D E K R A R A I Q
UniRef90_W0L8D8 I D F A L N V V A E I L Y G D N I A Q N I Q L H M
UniRef90_UPI00035ED839 I D L C L H I V R R D H G T A V A N D V A R R T V V
UniRef90_B1QXC7 M V F S Y K L L E V L G Y S H E V D G I A S G M L
UniRef90_UPI0003716705 L D L A L A L V A E D R G E D V A L A V A R Q L V M
UniRef90_I4VTA0 P A F S G A V I A A L E Q A D A V
UniRef90_R7FFS7 V D F G L A L V G A L A G A E T Q A Q I R A S I L L
UniRef90_J3FZU8 I D L A L A L V S E D L G D D A A L D I A K N L V L
UniRef90_J7LBI6 D A F C E R I V S E F A G
UniRef90_UPI000288C312 I D L A L A L I E Q D Y G P R V A L D A A R Q M V V
UniRef90_B5GB68 I D L C L H V V R R D H G A V A A D V A R H T V V
UniRef90_A8INV5 I D L A L A L V E E D H G R H I A M I T A R Y M V V
UniRef90_UPI000468A361 I D L A L T L L E D D L G H R E A M R I A R R L V V
UniRef90_Q73ZF1 I D L A L A L V E D D H G T E A M R I A R W L V L
UniRef90_B9TI86 P A F N K A L L K E L S G T R H
UniRef90_U4WRM9 I N M S F Y L V K R L L G K E T A E K T A K Q M
UniRef90_E4KZH3 I L L G V K L V E V L V S K E K A E E V A E G L L L
UniRef90_I2QDK8 M D L A L A L V E E D Y G R D L A L I V A R Y M V M
UniRef90_UPI00037F4315 I D M A L H I V E R L E T P A V G R S V R R A I
UniRef90_G2RZ77 I L F A L E I V S R L L G S K V S A E I E K S L V I
UniRef90_J3KXN9 S E F A L A L V E Q L Y G K G K A E Q I A E E M L V
UniRef90_S6KF94 I D L A L S I V A Q D H G K K V A L D V A K V L L V
UniRef90_UPI000404CF62 I D M G L T L L G R I A G D R R A Q A V Q
UniRef90_A1UAW9 I D L A L A L V E D D H G T E A A Q T V A R W L V M
UniRef90_H1Z9K7 I D L A L A L V E E D H G Q L V A A D V S R Y L V V
UniRef90_U3H5Y1 I D L A L G V V A E D H G R K L A L D V A K V L L V
UniRef90_B0SX12 I D L C L S F V E E D C G P E L A L A I A R N L V L
UniRef90_UPI00036827ED F N F G A A L L G E L E G Y E K A Y E V A
UniRef90_W5W91 I D L C L A M V E Q D H G P D L A R T V A R D L V V
UniRef90_R6RK95 I D L G L E L V R L L D G E T A E A L K K K I
UniRef90_H0F5D4 I D M G L K V V A A L C G D D V A K L I Q L Q I
UniRef90_C3XF88 I L F G L A I T K A L M G E D V Y K G L Y E G L Q V
UniRef90_G9YXD7 F P F G L K L V E V L K G A E A R Q V
UniRef90_UPI000478A44E P A F C K A V M E L L T N R A H A A A
UniRef90_UPI00041D4DE6 I D F A L T L V S H L V D R K T A E A I Q L R L
UniRef90_F0RWE4 V Q F S L A I I A A L F D T K T A D S I A E Q I
UniRef90_UPI00047BC617 I K F A L T I V G Y L K D Q T I S E K V A K A L V I
UniRef90_UPI00028978DD I D M G L A L L G R I A G D T V A Q T V Q L V I
UniRef90_R5CHR0 I A F G L A I V E Y L K D H A A K E L A S K I L
UniRef90_W6RYM3 L E F A Y N I L N A M D L K D K A D A L R E G M M V
UniRef90_K4QTA3 I D M G L T L L G R I A G D E H A Q A V Q
UniRef90_W0UWN6 I D L C L A L I A E D W G H E L A M K V A K R L I V
UniRef90_UPI00034842C1 I D M A L A L A G R I V G D K A A Q E I Q
UniRef90_R6KCP9 I D L G L E L V R I I A G E Q M A D R L A
UniRef90_C9LJQ9 A E F G F T I A E R L T S A D C V A Q L R Q G M I
UniRef90_UPI0003666FE8 D A F V A K I T E E
UniRef90_D8IPT5 I D L A L A L V R D D L G Q E I A S A I A R D L V L
UniRef90_F7YMB9 L E F A M E I I I S L S G K A H A W S V A Q P M V
UniRef90_UPI00047A15F4 I D M A L W L V G R L H G V D H A R G V Q K Y
UniRef90_F3NHQ0 I D L A L H L V A L R H G P A L A R V A R T M V V
UniRef90_A5EJE2 I D F A L T V V S Q L L D R P T A E A I Q L R L

UniRef90_C6KTB1
UniRef90_U1HD85
UniRef90_UPI00028883A4
UniRef90_U1R8Y0
UniRef90_F2NTU9
UniRef90_Q6LU01
UniRef90_C7PZY3
UniRef90_N6W4B1
UniRef90_C8RVK2
UniRef90_X7F8A1
UniRef90_J2GXM9
UniRef90_B2UHE7
UniRef90_D9V5Z7
UniRef90_U5V7I8
UniRef90_I4VSW3
UniRef90_UPI00037724B5
UniRef90_Q89CW7
UniRef90_I3BT97
UniRef90_S1T9I8
UniRef90_E3G6Y9
UniRef90_I2GGY4
UniRef90_D9XA93
UniRef90_D9UPI0
UniRef90_U5F7K2
UniRef90_I0QN97
UniRef90_UPI0003810F13
UniRef90_UPI0004768E6B
UniRef90_UPI0003671D58
UniRef90_W4QE59
UniRef90_UPI000400CCC1
UniRef90_W8H9F9
UniRef90_A0A022FPE8
UniRef90_S1S9L5
UniRef90_H3GIJ0
UniRef90_R5YW39
UniRef90_G2P806
UniRef90_UPI00047BEC62
UniRef90_D2RR72
UniRef90_D5WEY0
UniRef90_I4TVQV2
UniRef90_C1ABV7
UniRef90_V6UUV0
UniRef90_S5JIG0
UniRef90_S6CDP7
UniRef90_X8C9C5
UniRef90_F4AQ21
UniRef90_R6ZUB6
UniRef90_W3VRT6
UniRef90_R5I2Y6
UniRef90_A3W9T3
UniRef90_I4JY17
UniRef90_A9GTW9
UniRef90_M4D4T1
UniRef90_UPI0004015C94
UniRef90_UPI00034993ED
UniRef90_UPI00036553F5
UniRef90_E7G8S9
UniRef90_C7PMZ4
UniRef90_R4KB08
UniRef90_G9ZAK2
UniRef90_I4C8Q4
UniRef90_C0ZDV9
UniRef90_S3L6E1
UniRef90_UPI0002631680
UniRef90_UPI000348C69F
UniRef90_T2KIV4
UniRef90_UPI00039C606F
UniRef90_UPI000469202B
UniRef90_D9T7K8
UniRef90_D2B545
UniRef90_Q2NCQ5
UniRef90_C7PMZ5
UniRef90_V5WEY6
UniRef90_UPI00047B3C21
UniRef90_U7DJX7
UniRef90_UPI00035EABE5
UniRef90_G0LB91
UniRef90_F8GX15
UniRef90_E1TJA9
UniRef90_UPI00031C2142
UniRef90_UPI00045E7484
UniRef90_S6AXI3
UniRef90_G2P4T0
UniRef90_I0GDP9
UniRef90_UPI000376ADC9
UniRef90_V2K0J3
UniRef90_A6DBT8
UniRef90_R5G230
UniRef90_UPI0003043B9F
UniRef90_UPI0004073BDF
UniRef90_UPI00031737AB
UniRef90_UPI00047863A8

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

UniRef90_C6KTB1
UniRef90_U1HD85
UniRef90_UPI00028883A4
UniRef90_U1R8Y0
UniRef90_F2NTU9
UniRef90_Q6LU01
UniRef90_C7PZY3
UniRef90_N6W4B1
UniRef90_C8RVK2
UniRef90_X7F8A1
UniRef90_J2GXM9
UniRef90_B2UHE7
UniRef90_D9V5Z7
UniRef90_U5V7I8
UniRef90_I4VSW3
UniRef90_UPI00037724B5
UniRef90_Q89CW7
UniRef90_I3BT97
UniRef90_S1T9I8
UniRef90_E3G6Y9
UniRef90_I2GGY4
UniRef90_D9XA93
UniRef90_D9UPI0
UniRef90_U5F7K2
UniRef90_I0QN97
UniRef90_UPI0003810F13
UniRef90_UPI0004768E6B
UniRef90_UPI0003B71D58
UniRef90_W4QE59
UniRef90_UPI000400CCC1
UniRef90_W8H9F9
UniRef90_A0A022FPE8
UniRef90_S1S9L5
UniRef90_H3GIJ0
UniRef90_R5YW39
UniRef90_G2P806
UniRef90_UPI00047BEC62
UniRef90_D2RR72
UniRef90_D5WEY0
UniRef90_V4TQV2
UniRef90_C1ABV7
UniRef90_V6UU00
UniRef90_S5JG0
UniRef90_S6CDP7
UniRef90_X8C9C5
UniRef90_F4AQ21
UniRef90_R6ZUB6
UniRef90_W3VRT6
UniRef90_R5I2Y6
UniRef90_A3W9T3
UniRef90_I4JY17
UniRef90_A9GTW9
UniRef90_M4D4T1
UniRef90_UPI0004015C94
UniRef90_UPI00034993ED
UniRef90_UPI00036553F5
UniRef90_E7G8S9
UniRef90_C7PMZ4
UniRef90_R4KB08
UniRef90_G9ZAK2
UniRef90_I4C8Q4
UniRef90_C0ZDV9
UniRef90_S3L6E1
UniRef90_UPI0002631680
UniRef90_UPI000348C69F
UniRef90_T2KIV4
UniRef90_UPI00039C606F
UniRef90_UPI000469202B
UniRef90_D9T7K8
UniRef90_D2B545
UniRef90_Q2NCQ5
UniRef90_C7PMZ5
UniRef90_V5WEY6
UniRef90_UPI00047B3C21
UniRef90_U7DJX7
UniRef90_UPI00035EABE5
UniRef90_G0LB91
UniRef90_F8GX15
UniRef90_E1TJA9
UniRef90_UPI00031C2142
UniRef90_UPI00045E7484
UniRef90_S6AXI3
UniRef90_G2P4T0
UniRef90_I0GDP9
UniRef90_UPI000376ADC9
UniRef90_V2K0J3
UniRef90_A6DBT8
UniRef90_R5G230
UniRef90_UPI0003043B9F
UniRef90_UPI0004073BDF
UniRef90_UPI00031737AB
UniRef90_UPI00047863A8

50 60 70 80
E Q V L Q S K N V V L A D T T L S K V R N N L Y D V L V T P G G M K G S N T
Y D V R V V A K D G P T V E A S A G V G I A V H P L P A I G V I P G G D G V N A
P R V I A A Q A G P V I L S A G L A M L A E P T P C D S L I I A G G W M P T Y N A
L E V V I S S H R V R I J A D A L I A D V D L T A D Y D L L I L I A G G M P G T L A H
R N V E G A H K I L V T A D M T L D T Y F S T E K P D A V V I P G G M P G A K N
L T V A G S R G I K L V A D A A L V A V A D E Q F D C V V L P G G V G A A C
E I Q M M Q H D E K G G T I R S D L T E A S A A D P F D G L V I P G G V A N P D R
L R V V I S S H G V S I T C D L L L A Q A D L A S Y E L L F L P G G M P G T M N
P V A S S Q G V K I L P D S T F D S L V C D T V I V P G G Q Q G T R A
Q P V R C S A G T A F Q P D S D L V E T T R D D T I F V C P G G L D V R E
G W Q H T D W G D P V K V D Q T L D E V D A E S F D A L V L P G G Q M N P D V
A A Q A G L V R S S S G A R W D A D A L P P A S Q V D T L L P A G G D G V D A
P V R S D T G V V L S V D C A L S D I D G P V D T V L V P G P P V G Q A
A A I R G S C G L K A L A D A P L E D L P E A V D L L V P G S P G A Y D
M V P S A S K L E V A T V P L Q S L T L D T F I I V G S P E P P R G
A V T G R S G I T M M P D A G I E D V Q N E V W D M V V L P G G L P N A F L
N P L R A S N G I R M V A D L T F D E A A G G F D I V L V A G T P T P E A
P V R H C S R S G T V L L A D R L L D E I A D E D F D M I A L P G G L P G A D H
R P V R T D S D L T V T P A H G P E V L A G A D T V I V P P Y A V T A A S A
L V I T C S R G V K L L A D A P L V Q V A D G D Y D V I V L P G G L K G A E C
N Q V V I S S A G L A M G P V L P F T D V Q P Q P G D L I F V P G G M D M A Y I E
G P V R C N K G L R V L P H S L D D V H Q P P L D V L H V P G G L G A R D T
V M T S T G F S L V P G G M D D V R A A D T V I V P G Y E P G R E S L
E A C R G F H I T M S N L L D L D T D P N A Y D V L F P G G P H Y Q K
L E I L C S D R G V K I L A D V A L D V A D E D F D V I V L P G G L K G A E C
R T V T S D A G F S I A V E H G V E I L R D A D T V V V A P T L A M R D R G R
A P L T S S S G L V L V P D T T F D A C P P L D V I C V P G G A G V G A
R V L R T S R N R F A L T D A L P I H E I T G A I D T L V I A G P P G A E T
L V T A R N G L K V K P D Y S F A N H P P L D I V I P G G Y G A E K V
L N V K G S H D I E I V T D K F I A N E F D Q N S Y E G I I P G G P A V I N D
V D V T A S T G M R I S V D V D A A D T G L L S T A L V M G G D R F P S
P V R S D T L M T L E A T A R L D T V L L P D V A L I V G A R D I E R A
D P V T T A A G V R V L P D A T F E G L S E R R I D T L V V E I D G R R V R
L Q N I V T M S Q G T K V Q G D I A I E T C E R L I S F D L I M C P G G P G A Q Q
R N I I G A H R I E V E A D I M F H E V L E A E G A M Y V L P G G M P G T L H
P V R T D S D L T V T P G H G P E V L A E A D T V V I P P Y A I T R A S
E I Q A R N H D L E D A G T F S V D Q A V S I D D Y E A L L V P G G T V N P D K
D L V T A S H D L R V E P Q G T L G Q P D L L V P G G G W T S A N
A A S A G P V I S S S G L M V L A A S L R S V K T P L D T L I V P G G R G V R E
L E I L J A S R R I K L V A D V L I D E A A K L S Y D L I V L P K Q K E S N R P
L D V R T E S G L L L R A H R R A P E R P A A D L L V L P G G S G V R D P
T V R G W N H D D E F P V D A T F E S A R L D L D A L V L P G G V Q N S D T
L I K G A N S I K A D C S I E D V D I E N L D A I A L A G G F E G M M N
L T V R A A Q A V I T L Q A D A P L S T L D L T Q F D I A I V P G G S V I G V D N
P L T A D S G V L V V G A T H S L D E T P S P E V I L V P G G M T V E
G W D E D N W G E S I E V D L T L Q E A K S E E Y D A L V L P G G L F N P D T
S V T G R S G V T I T N V I P F D G Y D F S K V D C L I I P G G P H Y Q K
A Y V T C S R G V R I V P D I S L P C A E A V R E Y D A L I I P G G A K G A E T
K E V K G A H G I A I V A D M L Y E P Q N I V D I D W L L P G G L P G T H
G W E D G D W G E S V P V D L T I D E V I S V G D Y H A L L L P G G Q M N P D I
G Q V K G W N H D Q P A D D F R I D K A A N V E Q Y D A V V L P G G V Q N S D T
G S L S A D S G L T F T G L A R L S D V T E A D A I V C V P G G Y G L T A A
L R I T A S Q G T K I V T D K L I G E A A E S A Y D L I L L P G G R A G S E R
L E V T S S H R V T F R C D A L L A D A H L A D Y A L V F L P G G L P G T P N
V V R C S S G L G L V P S V A L E Q V G R V D T L V V A G G E G A H D P
E Q V Q G F E H L T A S R Q F A V E R D V N A G D Y D A L V L P G G V A N P D A
K V V E G G H G I C V Q C D K L E N D E V I H Y D M V V L P G G Y E G A A N
P S I G S S A G L G F T K V E L L A E V V V Q P E D I V I V A G I D L S A K W D
D L I K A H N G L K F Q P D Y D F Y D A P Q F D L I I P G G Y G A E E I
P E V V I S Y H N V P V K A D N T L Q A R F D T T Y D A V V L P G G P Q G S L F
G P V I T T G M K V I P D Y T F E S C P K L D I L V V P G G W G T R K
F I T A R N G L K V I P D Y S I H T A P T Y D L L V I P G G A G T R R
L L I P G A H G I K V M A D V S C A E V K N G T L P D A V F C P G G M P G S T N
G M V R F R D A F P F A V D K S F A D V A G Q R Y D A L W V P G G E P A I L R
P V T T A A G T R L L V D T A A T D I D T P H T L I V P G S P T L P R T P T P
A W A D G D W G D A Y K V D K T L D Q V S Q S D Y N A L V L P G G V I N P D L
A V I A S R G T V L V P D S T L E A E Q D K D F A M V V L P G G L P G A R F
A P L L I S Q G L K I T P D Y S I K D A P Q A D I F A V F G G S D E V
G T I Q A F N H L D H G K Q Y Q V D V T T E E A D Y D G L V L P G G V A N P D F
P V R T V S D L T V T P G H G P E V L A E A D T V I I P G Y A I P Q A P A
E I T G W K W G D S V K V D L T V E E V S A D D Y G A L L L P G G Q I N P D A
A P V T V Q G L K V I P D Y S I A D A P A N Y F A L F G G D D G M I A T N D P
E L V S G G H G I D V R P D M Y M E Q L D A D S D Y D A L I C P G G M P G A A N
G R I R G V N L H E P A S R V K V D H T I T E D D Y D A L I I P G G F I N P D L
G P V I S D T E I S F Q A T N T L E S T E A S N S V L L V G A H D I Q R L A N E
D P V I V D R I G L R V L P D N T T F G Q C R S L D I V C V P G G P G Q I A
G W A D G N W S N S Y K V D K T I D Q V A A K D Y N A L M L P G G V I N P D K
E P V R D V I G R L V P D A T L H D A P P L D L H V P G G P G Q Q A
K I Q G F K H V D K I E V D T T F D K A T A A D Y D A V V L P G G V I N G D A
V V T T S A G V R L V T D L J A F A E V D G A L D T L L V P G A V I D L R P D G P V
E A V Q S D T V L S I L P T T A F A D C P Q L D V I C V P G G Y G T D D
Y H V L G P E A G P V K T S A G F A L V A E Q A W R D V T L L V P G G M Q I N D
A V T T S S G L V I S A D S A P G T L P P R L G T L L V P G R R D W R S
D P V R D V K C L K L T P D A T L A E A P Q L D V L H V P G G F G Q E A
P V T T S G M R V L P H T L A D A P P Q E I L V V P G G W G V R A
A V I R T E S G I R L L A D A P F H R I A E T L P G P V T L L L A G G A G H A A
V I Y G A H N V R V I P D T K I E L V N V D E L D L V V L P G G L P G A I N
N M V T G S H G F K L E A D C L F E E I T D D A D V L F L P G G L V G T N N
R W N F T D W G D E F P V D V A L D Q A Q S Q D F D A L L L P G G V I N P D S
Q G Y D G T E K G Q K F D V D L T A E A N A S D F H A L V I P G G V V N A D H
G W K G D D W G Q S V S V D A P L D A G A E D F D A L V I P G G Q I N P D L
G V I E G L R G V K L L A D E S I D N I K S E G F D L M V L H G G Q P G T D N

UniRef90_C6KTB1 L S E C S E F I D M L K E Q K A N N R R L Y A A I C A A P E T V L D R H S L T D D D
UniRef90_U1HD85 A S S D R L V D M V R K Q R A A D A R R T A S V C C C A A G A F L L A A S G G W L D D G R R
UniRef90_UPI00028883A4 A A E D P Q L V E V E V L R R Q R A A G A R V A A I C C C T T A A F S L L A A S G G W L D D G R R
UniRef90_U1R8Y0 L K A C P A V P V E V L R R Q R A A G A R V A A I C C C T T A A F S L L A A S G G W L D D G R R
UniRef90_F2NTU9 L S E C A K A M E F I N Q M F K A K K V A A I C C A S A P A V V L G K T E L L N G K T
UniRef90_Q6LU01 F R D S P L L V E F V E Q A F F K Y E A D G K L I A A I C C A A P A V L V L E H H N M F P T
UniRef90_C7PZY3 L R T D A P S V R F V I E Q A F F K Y E A D G K P V G V I C C C A A P W M L A E A D V M V R G T R
UniRef90_N6W4B1 L A A N E Q V C R E I V D R R F A K A G L D L A A I C C A A P S T L A S A R G H L R R G R Y
UniRef90_C8RVK2 L V K D A D F L A R I H K R M A S C T S L V C S A I C C C C T G A F V L A A A G L L E G Y K
UniRef90_X7F8A1 A T T R R V L S W L R R E F A A R N G T P K M G A L C C C C T T G A F T L A A Q A G L L D G G K
UniRef90_J2GXM9 L R M N E K A V A L V R S F A Q A G K P V A A I C C C C H G P W L L V E A D L L V Q G G R
UniRef90_B2UHE7 A M A D A R T R R F V Q R C A A R G A R R V A S V I C C C S G S L L L A A A T G L L E N G R
UniRef90_D9V5Z7 D E T A P D L L D G I R R L G E T A R R V A S V I C C C C T G A F L L A E A G L L E G R Y
UniRef90_U5V718 V A L P A L E R W L P Q A A R S A R R F G A I C C C C T G V F L L G R A G L L D G G Y
UniRef90_I4VSW3 E W V A P L T V I T E M A A A R S R T A C V C C T G A F L L A A S G L L D G E R A
UniRef90_UPI00037724B5 L R D H A C V K T I T E L R L R K S R K T L A A I C C C C A A F L L A A S G L L D G E H
UniRef90_Q89CW7 E P E P C L L Q W V K E L P W R S S V Y G S I C C C T G A F V L L G Y A G L L D D R R
UniRef90_I3BT97 L N A D P P R L H R L I N R L J A A D K H V A A I C C C C A A F K V L V G N G V A N G H
UniRef90_S1T918 T V P P R A L L A L A R V R P G A R T L V S I C C C C T G A F L L A A A G L L D G R R
UniRef90_E3G6Y9 F R D S P L L V E T V R Q F H S G R I V A A I C C C C A A G T V L V P H A I F P V G
UniRef90_I2GGY4 F R A E T H D F L A W L R E Q H R Q A A W V H G V I C C C C T G A F L L A A Q A G L L D G R
UniRef90_D9XA93 Q V R N T V V T D W L G R T A K R A A W V H G V I C C C C T G T G F L L H A A G P A R R G R
UniRef90_D9UPI0 A R P P E E V L D T L A Q A R E R G R V M S I C C C C T G A F A L A E A G V L D G G L
UniRef90_U5F7K2 L E A N D N V M A L L K A F M D A D K V V A A I C C C C A A P T I L G R G Y L K G G K
UniRef90_I0QN97 F R D S P L L V E K V R H L N V T D G K L V A A I C C C C A A P G L V L E Y H D L F P V
UniRef90_UPI0003810F13 D G V P A D V L R A L T G L R P G T R V V G L C C C C A A F A L L A A A G L L D G R P
UniRef90_UPI0004768E6B L M E D A E V L D F V L R R Q A S A R F V T S V I C C C C T G A F L L G A A G L L R G R
UniRef90_UPI0003B71D58 G S Y D P A F V S W I A D A A K R R L A S V I C C C C T G T G F L L G A A G L L D G G K
UniRef90_W4QE59 E I D N P K V I E W I Q H Q Q P K V E F M T S V I C C C C T G A L L L A K A G I L D G R Y
UniRef90_UPI000400CCC1 L F D N K T L L K I T D F N D E E K M V A A I C C C C A A P Q L L G Q A G I V K G Y
UniRef90_W8H9F9 T P V S P E L A A A A T T L A A K A D R M A S I C C C C T G A F L L A A A G L L D G R Y
UniRef90_A0A022FPE8 M D E A Q G I V P W A R A V A P R I G R L J A L C C C C S G T F F L A A A G L L D G R K
UniRef90_S1S9L5 A V T D P V V V E W R L J A A R T R V T S V I C C C C V G A H V L A A A G L L D G K
UniRef90_H3GIJ0 L H D C A E L I T M L Q K Q A R Q G R Y G G I C C C C A A P A V V L L P H G L L D A
UniRef90_R5YW39 L K D H E G L G K L L Q K A Y K N E K Y L A A I C C C C A A P T V F E K Y G F L E G R
UniRef90_G2P806 A A A P D P Q V L A A L S R V R P G T R L V S I C C C C T G A F L L A A A G L L D G R
UniRef90_UPI00047BEC62 L R M E P D A V V Q F A R F V E S G K P V A S I C C C C H G P W N F V E A D V A R R G R
UniRef90_D2RR72 E G V R A V E D G V L P D K V D A C Y T E G S T V A S V C T G A M V L A E A D
UniRef90_D5WEY0 A S A D R R L T R W T Q R H A P H C C R R V A S V I C C C S G A F L L A E A G L L D G R
UniRef90_V4TQV2 Y S A I S A S P A L V L E P H G L L K G K K A T
UniRef90_C1ABV7 R T L K A L G D W L R R H H A A F V R I A S V I C C C T G A Y A V A E S G L A D G R K
UniRef90_V6UUU0 I R L I P G A Q E L V K S H D S A G K P L A V I C C C H G G W L L V S T G L V K G K
UniRef90_S5JJG0 L K N S N V I L N I K Q L H S S K N K L V A A I C C C A S P L V L N E A G V L E G E
UniRef90_S6CDP7 L G K S T R V V A E L R R R M E A G E Y V A A I C C C A G S P M V L A N A G L L S G R K
UniRef90_X8C9C5 H A R D E K L L Q W L R R A R H T A A W T A S V I C C C S G S I L L A S A G L L H G R
UniRef90_F4AQ21 L R T S D A A I A F J K R D F A D E K Q R P V A A V I C C H G P W I E A G I V K G R
UniRef90_R6ZUB6 L E K N E E V L D L I K T F A N E K I T A A I C C A A P T L L G H L G L L K G K K
UniRef90_W3VRT6 I S S S D V H A L I K H M H D A G K V V G A I C C C A G S L A I Q A A H L L A P G A
UniRef90_R5I2Y6 L G E F K L R Q L L K N H A S V K G N I A A I C C C A A P S V L G D L G L L N G K
UniRef90_A3W9T3 L R M E E S V I N L I K E F D N A G K P I A A I C C C H A P W L L T E A D L V D G K
UniRef90_I4JY17 I R I D V L D A Q K L V K G F E A A G K P I A V I C C C H G G W L L V S S G L V K G K
UniRef90_A9GTW9 L G D R E L V A H V Q R L G R A A G R V T S V I C C C T G S L L L A A A G L L E G K
UniRef90_M4D4T1 L Q K S K F L K K L L K E Q Q E A G R I Y G A T N S A S T V L H K H G L L K E K
UniRef90_UPI0004015C94 L R R T R A A L V T D E V R R L E A A D L P L A A S V I C C C A A P S I P A E L G L L R G R
UniRef90_UPI00034993ED D P A V T A V R E L L A G R A Q R V A S V I C C C S G A F V L A H A G L L E G R
UniRef90_UPI00036553F5 L R L S E P S I A F I R D F G A T G K P I A S I C C C H G P W T L J D A G L V D G R
UniRef90_E7G8S9 M R D S E E V I S L L H S M N E K G K Y I C A M C C A A P I V L E K A N L L V N R
UniRef90_C7PMZ4 H T A D D Q W L H W L Q H A A A L G A T V C S V C C A A F V L A V A N L L N G R
UniRef90_R4KB08 E I H N P K I I N W I K K N M N N V Y I M A S V I C C C T G A F L L A E A G L L D G K
UniRef90_G9ZAK2 L G S D N V V A F V R R H D D A G K W I C P I C C S A A R V L A A N Q L L K G
UniRef90_I4C8Q4 E I G N S V M L D W L R A R A T E V E M L T S V I C C C T G S M L L G F A A G L L E G H
UniRef90_C0ZDV9 E I H N K V L L D W I R K H S E E V Q W M T S V I C C C T G A L L L A E A G L L D G K
UniRef90_S3L6E1 L A Q N A D V A F V L R H K R I A A L C A C P A V V L A P L G L L D G K T F T
UniRef90_UPI0002631680 R D P P R T Y C F L L A A Q A A R C A D W V C S V I C C C E G A L L L A G A G L L D G Y
UniRef90_UPI000348C69F E G L T T A I T T L A D R A T R V A S V I C C C T G A F A L A R T G L L D N R R A T T
UniRef90_T2KIV4 L R R D T K A L S F V K S F F E N H K P V A A I C C C H A P W L L A E A D V L K G R
UniRef90_UPI00039C606F L E E D P R V Q V L L R R Q V A A G R F V A A I C C C A A P K V L L A A A G L L D G K
UniRef90_UPI000469202B A T D D P E V T S W I K S R D S A T K S Y F S V I C C C T G A F L L G K A G L L D Q L
UniRef90_D9T7K8 L R T D P E A V R F V K A F F D A G K P V G V I C C C H G P W T L V E A D V V R G R
UniRef90_D2B545 A A T D S K A L D A L S R V F P G T R L V S I C C S G A F L L A G T G L L D G R
UniRef90_Q2NCQ5 L R M N D T V I G L I R E F N E A N K P I A A T I C C C H A P W L L A E A N I I R D R
UniRef90_C7PMZ5 L A A D Q K L R S M L V K G R N D G K L M C G I C C C C A A P A V V F G N T A A D L L
UniRef90_V5WEY6 L R Q S A A A R K F V R R F D A T G K P I A T L C C C H G P W L L A S A G L L T R G R
UniRef90_UPI00047B3C21 N R E L T H W I T H N A Q K V D R E A A L C C C S G A F F L A A A T G L L N G R
UniRef90_UPI00035EABE5 L M D D E T L N F L R R I J A P G C R L O V T S V I C C C T G S L V L G A A G L L D G Y
UniRef90_GOLB91 L R R E G K V L T F V R D F F K Q E K P V A A I C C C H A S W T L I S A E V V K G R
UniRef90_F8GX15 L M H D Q V V L D W L R A Q A A G A R K V F S V I C C C T G A L L L G A A G L L R D R
UniRef90_E1TJA9 I R L L P Q A Q A F V K A A D S A H K P I A V I C C C H G T W L P V S A G I I K G R
UniRef90_UPI00031C2142 A R I D Q D V V T W V K A T A P Q A R R V A S V I C C C V I G A H V L A A A G L L D G K
UniRef90_UPI00045E7484 L M G D D E V L N F L R A Q A A G A K F V T S V I C C C T G S L V L A A A G L L E G R
UniRef90_S6AXI3 L C K D A A L L E W L R Q A E P R V R R L G S I C C C S G A L V L A A A G L L D G R
UniRef90_G2P4T0 A V A D T D L V G L V T R L S V R A K R V A S V I C C C A G A F V L A E A G I L D G R
UniRef90_I0GDP9 L M D D E E V L G W L Q Q Q A A G A G S V F S V I C C C T G A L L L G A A G L L R G R
UniRef90_UPI000376ADC9 L L E D A Q L L D W L R E Q S T R V K T L A S V I C C C T G S L L L A S A G L L D G R
UniRef90_V2K0J3 A A D N A A L I H W L R E M A P R V R R L G A V I C C C T G A F V L A R T G L L D T Q
UniRef90_A6DBT8 L A K D E Y V Q N L L K E M D K K G K Y L G A I C C C A A P Y A L K E A G V L K D K
UniRef90_R5G230 L K A H K G L A E M L K S H A A A G K R L A A I C C C A A P S I L G E L G L A E G H
UniRef90_UPI0003043B9F L R I Q A K A L A F I K S F F D A S K P V A S I C C C H G P W T I I E T G A A R G R
UniRef90_UPI0004073BDF L R V D K D A Q A F T R A F F E Q H K P V A S I C C C H G P W L L I D A G V I S G R
UniRef90_UPI00031737AB L R V D E T A M A L T S A F F A D A G K P I A A V I C C C H A P W L L I D A G V I S G K
UniRef90_UPI00047863A8 L K K N H R V T A L I K E M I G K N K L I G A I C C C A A P I I L E E N G L L E K R

UniRef90_C6KTB1
UniRef90_U1HD85
UniRef90_UPI00028883A4
UniRef90_U1R8Y0
UniRef90_F2NTU9
UniRef90_Q6LU01
UniRef90_C7PZY3
UniRef90_N6W4B1
UniRef90_C8RVK2
UniRef90_X7F8A1
UniRef90_J2GXM9
UniRef90_B2UHE7
UniRef90_D9V5Z7
UniRef90_U5V7I8
UniRef90_I4VSW3
UniRef90_UPI00037724B5
UniRef90_Q89CW7
UniRef90_I3BT97
UniRef90_S1T9I8
UniRef90_E3G6Y9
UniRef90_I2GGY4
UniRef90_D9XA93
UniRef90_D9UPI0
UniRef90_U5F7K2
UniRef90_I0QN97
UniRef90_UPI0003810F13
UniRef90_UPI0004768E6B
UniRef90_UPI0003671D58
UniRef90_W4QE59
UniRef90_UPI000400CCC1
UniRef90_W8H9F9
UniRef90_A0A022FPE8
UniRef90_S1S9L5
UniRef90_H3GIJ0
UniRef90_R5YW39
UniRef90_G2P806
UniRef90_UPI00047BEC62
UniRef90_D2RR72
UniRef90_D5WEY0
UniRef90_V4TQV2
UniRef90_C1ABV7
UniRef90_V6UUU0
UniRef90_S5JG0
UniRef90_S6CDP7
UniRef90_X8C9C5
UniRef90_F4AQ21
UniRef90_R6ZUB6
UniRef90_W3VRT6
UniRef90_I4JY17
UniRef90_A9GTW9
UniRef90_M4D4T1
UniRef90_UPI0004015C94
UniRef90_UPI00034993ED
UniRef90_UPI00036553F5
UniRef90_E7G8S9
UniRef90_C7PMZ4
UniRef90_R4KB08
UniRef90_G9ZAK2
UniRef90_I4C8Q4
UniRef90_C0ZDV9
UniRef90_S3L6E1
UniRef90_UPI0002631680
UniRef90_UPI000348C69F
UniRef90_T2KIV4
UniRef90_UPI00039C606F
UniRef90_UPI000469202B
UniRef90_D9T7K8
UniRef90_D2B545
UniRef90_Q2NCQ5
UniRef90_C7PMZ5
UniRef90_V5WEY6
UniRef90_UPI00047B3C21
UniRef90_U7DJX7
UniRef90_UPI00035EABE5
UniRef90_G0LB91
UniRef90_F8GX15
UniRef90_E1TJA9
UniRef90_UPI00031C2142
UniRef90_UPI00045E7484
UniRef90_S6AXI3
UniRef90_G2P4T0
UniRef90_I0GDP9
UniRef90_UPI000376ADC9
UniRef90_V2K0J3
UniRef90_A6DBT8
UniRef90_R5G230
UniRef90_UPI0003043B9F
UniRef90_UPI0004073BDF
UniRef90_UPI00031737AB
UniRef90_UPI00047863A8

130 140 150 160
VE AVAYPSFERNFKHILGKGRVCSKNCLITSVGPGSA
RAVTHWGFWEELAEARFDPVVRVDPIFVRDGGTFWT SAGVTSAG
RATANHWRFMEELAEARFDPVVRVDPIFVRDGGTFWT SAGVTSAG
RATANPAFMEALAEARFGATAPEEPPVVVDGGAITTS SRGAGTAA
NWTYPEMEKSLSAEIQKNHKTIQPVVVTDESNLITTSRGGPGTAS
AIMTASPAPFQDYIQPEIQRARRAKRVVYDVNSNLITTSRQNPDDL
TVTISWPSLRDQLQNAAGAVATRAVQVVDGDTLVTTSRQNPDDL
RATANKPLFMEALAEARFGAHAL EERVVIDGGPFLTTSRGGAGTAA
AATSNKLEAFDWAATSFDEKDIIDWKA RWHVH DGRDRWTSAGVTAAG
RATTHWENHDFSEFEFDEVTITLTKS VVVA DGRNRLTASAGVTAAG
RVTISWPSLRDQLRNEAGADTVVDQEVVVD GGNLITTSRKPDDL
RATTHWRSSEQFAARAFPGVVRQLEPDHLYDGGPIVTSAGVTSAG
QATTHWAMCAELAEARFPGVVRPDALYITRDRGRITTSAGVTSAG
RCTTHWNYVERLAEARFPGVRET EQIYVMDRGRNLITTSAGGITAG
ATTHSWFAAGDLQERAYPALRVVDGDRMWTEDDGLITTSAGGMSAG
RVTISWPSGQDLQQAAPAAARVYVDDDAVVE DDFLITTSRGGPGTAA
VTTHWQDAQALAEARFPKAKVEPDLIYVVDGRLITTSAGVTSAG
RLTAFPLGALDALELDT SQVQLTGQPVVEVDNGKFLITTSRGGPGTAA
ATTHWAFLTDHFRLELFPRVLELADAVL FVDGNLITTSAGVTSAG
NMTGYPLKDAIPEDQWVDKRTVWDPRVNLITTSQGGPGTAS
KCTHWRKLDLQLTTPRIVTQPDFVNDGGGLITTSAGVTSAG
RVA THWRSQEDALEAGDVTTVRDRYVVDGGGLITTSQGVTSAG
HATTHWLEHTELERNFPSTVTVCE DVLVVDGDLVLTTSAGVCCG
NYTCFSTSMNED FGGTYVDQYTVTDGNLITTSRGSAAAV
ANMFGSPSLKDKKISVNGKWKERVMFDP RVLNITTSQGGPGTAA
ATTHWR EAEDEFRV SFDPVRLDRDVL FVDGGDLVLTTSAGVTSAG
RATTHWAFHELELPLGALPVR ERVVRDGLITTSAGVTSAG
QVVVTHWKFCDQLAESEFPRAVVRPEPIQDGGPIYTSAGVTSAG
KATTHWMDIDQEQSFPSSVSVQRGVK FVDGSLITTSAGGITAG
RVVNYPGCDMYLAEARFQVSSQIPALTHKNIITTSAGVTSAG
RATTHWQHADTLARGYPRIITVVEPDFVEDGKTI FSSAGVTSAG
RATTHWGVJALRLRQRFPEV DADATFVRQGNLWT SAGVTSAG
GATTHWSTARQLAGDEHPPEVDADDP LFRREGDVTWTSAGVTSAG
GPVTTHPYERSKMTG VDYRSNERVAVNGM CVTTSQGGPGTAA
KATSYPAMEEEELKKSAD YQTDKVVVDGKILITTSRGMGTAA
RATTHWASLTDHFQELNAG P RVEELDALEFVDHGNLITTSAGVTSAG
RLTISWPSLVRTDLRNLAF A QVVDEEVVTDGNITTSRSPDDL
LLEGRPAATHQDLEEAHAANVVDERVVD DGGDLVLTTSAGVTSAG
RVA THWARCDLELKAQAYPQLQVDP LFRIRDGDGLITTSAGVTSAG
T LTT HWAHANDLARRYPRVQSDALCTQDGGPLYSSSGVTSAG
RMTSYKTLCYDDLRNAG GSNWIDEA VVVVDGNLITTSRTPDDL
F ALCYPSCEEVNGLNNGRN VNKAVV VNKNIITTSAGVTSAG
AAV CYPGCEEGWPAGVYQA GKDV FVDGGLITTSAGVTSAG
RATSHWMA LSA LKALGALPVDNE RIVQEGDGLITTSAGVTSAG
NLTSHYPIQTDLRNAGANWQDVQV LIDGGQLITTSRNPDDL
YTCTFTSMNE DFGGE YIDQYAVVVDGNLITTSRKSAAAC
KLTSHYPIKSKLQES DYDYRE ERVVS DNRILITTSRGGPGTIT
NATCYPGFESHLAGGT YTAKEAVVSDNITTSRGGPGMVT
T VIT GWPSLRDLEENAG GEVIDTRVAF DGNLITTSRNPDDL
TMTSYKTLKDDLVAENAGANWVDKEVVK DGTLITTSRNPDDL
RATCYHWAFRPLLELGLIQNT EAA R VVRDGNVITTSGGVTSAG
RTAVYVSDT DGPASDQMIEGAEVVIDGNVITTSGLLATV
RATANPAF TGVLEEDNGAEVSES GVVVDGNLITTSRGMGTAA
RATTHWRHCE RLAREFRVEDADP VVVRSGRNLITTSAGVTSAG
KLTISWPSLKGDLRNLAF A AWE DA EVVVDGNLITTSRKPDDL
HYTAYKGYDQKIKQGH YLEDKVVIDGNLITTSRGGPGTAA
DCTTHWGYTKALAQRF P RTNVITENFVKSDNITTSAGVTSAG
QATTHWMDIDREKEYTKVRVQRNVKFIIDEPIITTSAGVTSAG
RRYVCSG DLWQDQVTDGVSVDADVVE DGNLITTSRGLGKAV
KATTHWKS L DWMRDSFP TVSYDEHVVEDGSLFTSAGVTSAG
RATTHWASLDSMRYPKVTTVVEGVK FVDEDRIVTTSAGVTSAG
CYPTGMENLT KYAPAAK PEGFAAEKVRSRGTTSRGGPGTAA
RATTHWAFRNCLKAY PAVTVVHPRFVQDRNRLTTSGGVTSAG
HWRHTALLARVHPR VHVVEPDALHIRDGHILITTSAGVTSAG
KVTISFHSIKTDLVNA GA E WVDQEVVVDGGLVTSRSPEDL
RATAYPGSVADADFP RMMLTDA P VVVDGGLVTSRGGPGTAA
T VTT FHKSLITNLQKAVPKAKQNVRYVDNGRVITTSAGVTSAG
T LTT SWPSLRTDLTNAGAKVVDQEVVVD DGNLITTSRKPDDL
ATT HWA L S D HFRKLFPRVLELADAGVLFVTDGDLVTSAGVTSAG
T VIT GWPSLRDLSNAG ANVIDSEAAVVDGNLITTSARNPDDL
T VTT F HNSIQNLQ LGA VPKV LNTNVRVYVDNGRVITTSAGVTSAG
GTRKFTCYPGFEERTDATHLTRQRVETDGNLITTSMPGTAG
RMTS WAGVRDDMVNAG ATWLDEEVVRDGNLITTSRGGPGDM
RATTHWRMAGEFQSPNVITMDIDSLFRIRDGNLITTSAGVTSAG
RATSHWTSVEQLALF GAKPVH ERVVVDRNRITTSAGVTSAG
KMTSFHSLKDDL VNA GA H WV DEEVVVDQGFVITSRNPDDL
RATTHWNSQHLPLF LGATPV D ERVVVDGDLVTSAGVTSAG
T VTT SWPSLQDDIRNAGGTWVDQEVVVD DNNLITTSRKPDDL
TATTHWSTAAQLAADHP RVD P D P I F V R C G D V W T S A G I T S A C
K A A T H W S A I D V L P I F G V T A S R E R V C I D G N R V T S G G I T A G
L A T T H W A D V A A L N E H C A V E V Q G D R L H T D A H R F T S A G V T A G
R A A T H W E L A S Q L A A Y P C V D G N P V F V R D G H V A T S A G I T A G
R A T T H W A S E H L P L F G A T A V N E R V V V D G R W V F A A G V T A G
E A T T H W R S L A F M K E R F P D A V R V H E D L H V D G S I J S A G I S A G
R A T T H W R H A E K L A R R H P M V D A D P I W Q A G R L Y T S A G V T A G
Y A T P G W E E N I K K E G Y V A D A K V V E D K N V L T S K G P G T A
R A T C Y P G F E S Q M K G A D C A R G D G V I T D R L L S T G R G L G W A
R I A A W P S L K T D L R N A G A E W V D Q K V V V D G N L V T S R M P D D I
N V T S Y H T L Q T D L K N A G A N W S D Q E V V V D Q G L V T S R N P H D D L
T L T C Y N I R T D L K N A G A N Y V D Q E V A V D G N L I T S R N P D D L
K R T S H P S V K E S L L G D F Y V E D R V A V D H N I T S R S P G T A

UniRef90_C6KTB1 V E F G L K I V E H L L G R Q V A L S L A S G F L L
UniRef90_U1HD85 I D L A L A L V E D D L G R A A A L A V A R Y L V V
UniRef90_UPI00028883A4 I D L S L A L V E A D D L G R A P M A L E V V A R H L V V
UniRef90_U1R8Y0 F D L G L E L V R Q M L G R D E A A D A V R A G L V
UniRef90_F2NTU9 E Q F S M E I V R I L F S E E T K A K I
UniRef90_Q6LU01 Q E F A L E I I V R L A G K E K A A E V A G P M V V
UniRef90_C7PZY3 P A F C A E L V K Q F A G
UniRef90_N6W4B1 F E L G F A L V E R F L G E K A A G A V R E A L V
UniRef90_C8RVK2 I D M A V A F V S H F F G A S D L A E K I A H D L
UniRef90_X7F8A1 I D L M L K I V A D D H G P D L A N A V A D Q L I
UniRef90_J2GXM9 P A F S E A V I K A V K E Q V A A V A A A
UniRef90_B2UHE7 I D L A L A L I A D D L G E R L A R A V A R Q L V V
UniRef90_D9V5Z7 I D L A L A L V E E D L G P D V A R D A A R Q L V V
UniRef90_U5V7I8 I D L A L A V V A E D H G K S L A L E V A K V L L V
UniRef90_I4VSW3 I D M S L A M I E R D L G K E A A L E V A R M L V V
UniRef90_UPI00037724B5 I P F A L R L I A K L C G P E N V A E Q V K K E I V
UniRef90_Q89CW7 I D L G L A L V G Q R H G A E T A L K V A K R L V V
UniRef90_I3BT97 M D F S L Q L I E T L L G K A A R D Q V E A P L
UniRef90_S1T9I8 V D V C L H L V R R D H G S E A V A N Q V A R R C V V
UniRef90_E3G6Y9 I D F A L K I I D L L V G R E K A H E V A S S L V M
UniRef90_I2GGY4 I D L A L A I L E E Q Q G S L F A S K I A R E L V V
UniRef90_D9XA93 I D S A L W L V G R L H G R D H A R A V R R Q I
UniRef90_D9UPI0 I D L C L H L V R R D L G A T V A N R I A R G L V
UniRef90_U5F7K2 I D F A F A L I E K L A G K E K A E A V K N E I
UniRef90_I0QN97 I E F A L K M I D L I G K E K A E V A S Q L V L
UniRef90_UPI0003810F13 I D L C L H L V R R D H G A S V A N D V A R A C V V
UniRef90_UPI0004768E6B I D F A L T L A S E L V D E N T A Q A V Q L Q L
UniRef90_UPI0003B71D58 I D L A L A L V E E D Q G H A T A L N V A R F L V M
UniRef90_W4QE59 I N M S F H L I S R L H G K E V A V A T A N R M
UniRef90_UPI000400CCC1 I P F A L E I V K Y L T N T E E N F K E V K E K L V I
UniRef90_W8H9F9 I D L A L A L V E R D H G T E L A R T V A Q S L V V
UniRef90_A0A022FPE8 I D L A L A V V E E D L G R E L A L D L A R E L V V
UniRef90_S1S9L5 L D L S L A L V A D D L G E A V A L R V A R Q L V M
UniRef90_H3GIJ0 I E M G L K L V E L L C S P E K A K S V A Q A M V V
UniRef90_R5YW39 I D F A A K L V E I I K G T K E K D E L L K S I V
UniRef90_G2P806 V D V C L H L V R Q D H G S E V A N H V A R C V V
UniRef90_UPI00047BEC62 P A F C E R I V Q E F A K A P V P A E
UniRef90_D2RR72 L D L A L W L V E R E F G A D V A S E V S E E M
UniRef90_D5WEY0 I D L A L A M L E D D H G R A L A L D V A R E L V V
UniRef90_V4TQV2 T E F A L A I V E K F F G R N K A L E L A K I M L F
UniRef90_C1ABV7 I D L A L S I I E K D L G V R T A A A T A R E L V V
UniRef90_V6UUUV0 P A F N E Q L I A A L
UniRef90_S5JG0 I L F G L E L A K K L C G D E I Y Q K L Y E G M L L
UniRef90_S6CDP7 L P F G I Q I L R T L E G D K V A D D V A S G M L L
UniRef90_X8C9C5 I D L A L W L A G Q V G G E S R A K V I Q L A M
UniRef90_F4AQ21 P A F S E Q I I K A L
UniRef90_R6ZUB6 V D F G F A L E K L G G K E L A D K V K E
UniRef90_W3VRT6 F E F A L A L V T T L V G A S K A Q E I A P P M L L
UniRef90_R5I2Y6 I A F T L A I I V K S L G K D K A H E V A Q S M L L
UniRef90_A3W9T3 P A F T E A L M D A T T I S S E A D R V
UniRef90_I4JY17 P A F N R E L I S A L
UniRef90_A9GTW9 I D F A L T L V A E I A G A D V A R S I Q
UniRef90_M4D4T1 T N F S L A I V S K L F G H G R A R S V S E G L V
UniRef90_UPI0004015C94 V D L G L E I I R F L L D D A A V E R V E R G I V
UniRef90_UPI00034993ED I D L A L A V V E Q D L G R Q V A L A L A R T L V V
UniRef90_UPI00036553F5 P A F N K A L Q Q Q L L
UniRef90_E7G8S9 Y A F A Y K L V D L L G G D S L A V K K R M V
UniRef90_C7PMZ4 I D L A L Y L V E A D Y G P A F A Y T V A K D M V V
UniRef90_R4KB08 I N M S F Y I I K K L L G E E I A N A T A K R M
UniRef90_G9ZAK2 F D F A L T L A A R L A G D E M P A R
UniRef90_I4C8Q4 I D M A L K L V T R C Y G E A V A R A T A R H M
UniRef90_C0ZDV9 I H M A F H M V S R L L G T K V A A D T A K F M
UniRef90_S3L6E1 S D L G F A L A A M L T D E K T A A E V Q K G M L F
UniRef90_UPI0002631680 L D E A L E L I R L L L G Q A A A E E V Q R
UniRef90_UPI000348C69F I D L S L A L V E D D H G P Q P A R D T A R D L V V
UniRef90_T2KIV4 P A F N A K V I E E I K E G K H D M Q T A
UniRef90_UPI00039C606F M D F A L Q L I A L L M G E A S R Q T V E S Q L V
UniRef90_UPI000469202B I D G A L H L V S K L R G K E A A E A V A K Q I
UniRef90_D9T7K8 P A F C A K I V E E F A E G R H A A R
UniRef90_D2B545 F D V C L H L V R Q D H G T E V A N Q A A R F C V V
UniRef90_Q2NCQ5 P A F S N A L I E Q
UniRef90_C7PMZ5 I D G A L H L V A R L R G E E A A L R I A K H M
UniRef90_V5WEY6 A E F A V A I I R R L L T D N T A D T I
UniRef90_UPI00047B3C21 V P F V R A L L P F F A G H P Q T A Q T A
UniRef90_U7DJX7 I D L A L A F V E E D H G H K L A L E V A Q D L V I
UniRef90_UPI00035EABE5 I D F A L R V V E D M T D R A T A Q Q I Q L Q M
UniRef90_G0LB91 P A F N S K L V E E I K E G K H E E Q
UniRef90_F8GX15 I D G A L R L A A E M F G D A V A Q R I Q L Y M
UniRef90_E1TJA9 P A F N K A L I G Q L S K R K A A
UniRef90_UPI00031C2142 M D L A L A L V A E D L G E E V A L D V A R Q L V M
UniRef90_UPI00045E7484 I D L G L T V I S E L V D R R T A E A I Q L R L
UniRef90_S6AXI3 I D L A L A L V E T D L G R P L A L A V A R H L V L
UniRef90_G2P4T0 I D L S L S L V E E D W G A D V A R N V A R Q L V V
UniRef90_I0GDP9 I D G A L R L A A E L R G D D A A R A L Q L Y M
UniRef90_UPI000376ADC9 I D L A L K L V A R Q H G D E V A L N A A R N M
UniRef90_V2K0J3 M D L S L A L V E D D L G H A V S L A V A R E L V L
UniRef90_A6DBT8 I C F G L E I V K K F S G E E V Y K Q L K E G L L
UniRef90_R5G230 I D L G L E L I R L L V I S E E E A E Q I R A A I
UniRef90_UPI0003043B9F P A F N R E M I G L F S H A G Q A Q P V
UniRef90_UPI0004073BDF P A F N D K L L E E I E E G H A G Q T A
UniRef90_UPI00031737AB P A F G E A I A K M V S E M D A R
UniRef90_UPI00047863A8 M E F V F K L V E I L F G K D

UniRef90_UPI0004679493 1 A G R K V A M L V H P R M V L M D L V V G P Q T I F R I L G C D I Y L V A K T 40
UniRef90_W9B4A3 V I L G F G G V Q S L D V V G P Q D V F T G A G Y D V R L I S V D G R
UniRef90_J2XVF6 K T V G I L V F A G G V Q S L D V L T G P M D V F S E A N Y R L E V I G V D Q Q R
UniRef90_A9G5A8 R V G M V L Y P G L T A L D L D L T G P Q S V L T A H A T T Y L L W K T R
UniRef90_J1EIF2 V V F I A F D G V Q M L D V A G P M E V F G A A P Y R L T L C S P T G Q Q
UniRef90_F5SHC6 K V G I L L F D R R V D V M S F A G S A Y E V F T Y T A Y Q V S T V S E T G Q
UniRef90_A3SPA4 A P R R F V F V L M E G F T L S F A S A V E C L R I T A N S V W Q V S G D T E
UniRef90_G9Z7E2 K I G I V V F D G I I P F H L S V P C A V F E K A G G D A L T V I C A T R P
UniRef90_U1IG16 I G I L I F P D F Q L L D V A A G P I A A F E I A A R F A N N P P A T K T
UniRef90_A8TKA7 R R V A I V A V P D F E L L D V A G P L S L F G S A T H D G T V D G T P A Y
UniRef90_K0ZES7 G K K I A V I A T D G F E D S E L T S P A Q A V K E A G A E V V V L A P E A
UniRef90_U2U390 G K R V A C I V G D G F E D S E L R V P Y D Q L R G A G H E V V L I G K K A G
UniRef90_X8CJ94 V V I V V F D G V T L L D V A G A G E V F V E A N Y R L K I A S V D D G R
UniRef90_A1UWL3 V Y I L V F P D L N L L D L S G P L Q V L S S A N Y D I R V V A R G G
UniRef90_W0HMMV6 A M R E V Y F L L L P H V M S L D I T G P A E V L T L A G G F R L H Y L G E P Q
UniRef90_N6VWV2 G K K V A F L C T D G V E Q I E L T R P W K D L E G A G A T L E L V S L G E S
UniRef90_J2ITU1 K K V A V L L A P G F E E A E A I I T I D T L R R L N I E V L I A C A E S
UniRef90_U1X3H2 S Q R Y L V E V L F E R T K L T D V T G P L Q V F N D A A Y R V V S L V S E A D G R
UniRef90_L2TB59 I V V L A L D G V I P F E L G I P S R V F G R A H Y D V Q T C T A D G R
UniRef90_J3E VW2 I D I L L Y D G F D E L D A I A P Y E V F Q D A D F S V R L V T L D D R
UniRef90_UPI00047B722C G R R I A V L A A D G F E K V E L T V P L R A L R A A G A K V D V V S L R K G
UniRef90_V8RCL5 A P R D V V F I A Y P R L S L L D S G A Q T V F W A A G Y Q L H T A S L N G G
UniRef90_UPI000310E448 K T V A C I V Q D G F A P F E F G V A C E A F G L P N F D F R I V T P D P G
UniRef90_D3F1P7 I V I V L Y D R V T A L D A I G P Y E V L S R M G A E V V F A A V E A G
UniRef90_R7EX69 L F L L A K G F E E V E A L T A V D V L R R A G I P V K T V S I T D V
UniRef90_E3CZC2 T V G F L A F P R M E E L D F V G P Y E V F G M A S F R P R V L G A D L
UniRef90_M4ZYP7 H R V V V V A F P G V Q S L D V A G P A E V F R A A N G Y H V T I G M S L D G G
UniRef90_S6I2W8 S P R A V H I L A F P N V Q L L D V A C G P L Q V F A S A N I Q A H G M S P A Y L
UniRef90_UPI00029AF192 R H I A F V A Y P Q M G L L D L T G A Q T V F W A A G Y Q L H T A S L E G G
UniRef90_UPI000262E9A6 V A L A V T D G M L H F E L S L A Y E V F G S A P A D V D V L P W Y D
UniRef90_R2P3U3 T K K I A A I V T D L V E D V E L S S P K E A L E K D G N E V T I I S F E A D
UniRef90_UPI00037D94A7 R V H T V L F D E V E E Q D F A G P V I E V F G I T G A E Q S F V T A D P
UniRef90_UPI00026273FD G K R V A L L I E D D Q E E M A W Y P T Y R L Q R E E G A T V V V V G S G R K
UniRef90_R6FBJ6 T V Y V F F A D D G F E E M E A F S A V D V M K R A G L Q V E M V S V T P N
UniRef90_D0LYJ4 K I A M I M G P G F E D S E F R V P Y D R L Q D A G H Q V T L M V S T E S G
UniRef90_UPI000465A1CF R V A I V A D G F E E I E A V V P M D L K R G N V D L K V V S L N D N
UniRef90_UPI00026C73DE G K R I A I L A D G V E R T E L E Q P R Q A L Q D A G A T I V L L S L H E G R
UniRef90_V6KUE9 R V A V L A L D G V Y P F E L G I P S R I L G A A D Y E V L T C T V D G R
UniRef90_F4B0K1 N K R I A I L A T D G F E E S E L K S P M E A M K A E G F T V D I I S E K T G
UniRef90_UPI000441369F L I F I A D G T E E M E F T I A Y D T L V R A G G V E C T L V G V T R
UniRef90_A0A031GK74 A P L T V A V I A F D G M T P F H L S V P C L V F G A Q T D E A D L P P F H V R
UniRef90_Q1LHN9 V V I V A P D P A Q E L D V T G P T A V F G A A N Y D L H V V S V S D D
UniRef90_J2EHT3 R T L V F L A Y P Q M G L L D L T G A Q T V F W A A G Y R I H T A S L D G G
UniRef90_U7VB12 N K K I F V M L A N G F E L I E A M S P V D V L R R A G L N V V T V S M E N T
UniRef90_UPI0003B66D89 A G H I V V F L V F P D A K Q L D L A G P A E V F A E A D Y E L E Y C S P A G G
UniRef90_UPI0003812503 H R I G F L L T D G F Q V M T L A T Q S V F E Y A N L V E T A Y C I D N
UniRef90_UPI00037EC212 A P T T I A F Y L Q S G V E V L D F A G P L I E V L T Y A G F K V F T V S K S L
UniRef90_R6NRT7 K K I G I F M A D G F C E E I E G L T V V D V V R R A G I A L D M I S I T G K
UniRef90_L9W5U6 I V L F E G F D E L D A I G P Y E V L E N A D L E T S L V T L E E T
UniRef90_UPI0004633E9A V W F V M L P G M L A L D M T G P A E T F S L A P E H F S L H Y I G P E
UniRef90_D7UZP1 G K R I L A L V S D D F E D L E L W Y P V L R V R E E G A T V D L V G E E A G
UniRef90_C5D1X3 K V A I L V A D G F E Q A E M T E P R K A L D A E A G A T K I V S P K D
UniRef90_UPI000349E498 I G F L V Y P D V I Q L D V M A A Y Q V L A F P P N T T I H I L L G K T L
UniRef90_J4SHA0 A N C K V A I L A V D G F E E A E L V E P Q R A L S A E G A Q V D V I S Q Q P Q
UniRef90_B8HQH4 K I Q I I I F D G F D E L D A I A P F E V L Q T A A A A V E L V T L D G S
UniRef90_F4F712 S G K R V A L L I E D E Y Q I L E G W Y P L R L Q E A G A D V R V I G S G T K
UniRef90_F4CC05 T K H I V I I V P M T S I L D I A G P L E V F T K A G H K P E I K G A Y V T
UniRef90_I4BRC6 G R R I A F I A A D M T S I L E A Q P R E A V E N A G G R A E L S L E E G G
UniRef90_G4HWR3 V A I A L F P R N T A L D A I G P Y E V L Q R V P I D V V F V G H R R G
UniRef90_A3XNX4 K K V A I L A T N S G F E E S E L T S P L E A M K K E G F Q V D I V S E K S K
UniRef90_UPI00036BT9 K V G L Y L Q S G V E L D L A G P M E V F A Y A G Y E V V T L S K T K
UniRef90_E3J472 I A I L L F E G I T P L D A V G P Y E V L R S L G A E V V F A G H R V G
UniRef90_UPI00036F9EF0 I V V Q L L D V A G P A D V F A E A N Y L P R V L A A T P G
UniRef90_K8AH53 G H E I A V L A V P G V Q L L D V S G P L D V F A E A N Y L V K L I A F E S E
UniRef90_UPI000344CFD1 V Q F I V A P G T H L L D L S G P A Q V F S D A G L D Y E L R Y A G D T
UniRef90_UPI0002D7F69F S G K K V A F L L T D G V E Q I E L T S P W D A V K Q A G G K W E V L V A P G S G
UniRef90_UPI00024DQW3 K K I L L L L A D G F E A V E A S V F T D V L G W N K W E V V T V G L R
UniRef90_UPI00045E6D43 I G I L I F P D F Q L L D A S G P A S V F E I A R R L V I P T A I A A Q P
UniRef90_UPI00042317C5 R V V F L L T P Q V H L L D L A G P A Q V F S T A G F G Y E S Y Y V A E H
UniRef90_UPI000262B275 G K R V A V L A T D G F E D S E L T E P I S A V Q E H G A E V T V S T Q T
UniRef90_UPI0003B3D315 K V A V I V T D L V E D A E F S D P V A A L Q E A G H E V V T I S G F E K G
UniRef90_U1YHJ5 R S V A A V V C P D G L A P F E F G V V C E V F G L P S F D F R V C G P V I A G G
UniRef90_K9DL47 R R I G F L F P G F Q A L D L M A T T V F E I A N Y D M T M L S E H G
UniRef90_H7F1V3 S K K I A T V L T N L F E D V E F T S P A E A F R E A N H E V V T I E K K A G
UniRef90_A0QPF1 R T V I F A L Y D K V T L A D V A A P L E I F A R A N Y T V L L A S L T G T
UniRef90_UPI00036F8D82 G R R I A I L A A D G F E E S E L F E P K S A L E D A G A E V H V I S L N T G
UniRef90_E6N966 K A V I L V G P E F E D L E L F Y P L I R L R E E G Y A V E I V G P D R
UniRef90_UPI00037F2871 S R L I V V A L F D R I D L D V T G P P E V F A L L G Y R V V L A A E S L
UniRef90_S3H5E7 V A I L V T D G F E Q V E L T E P R K A L D E A G A T K V I V S P K H Q
UniRef90_UPI000379DF82 H V A I P L Y P R F T A L D A V G P Y T V L A F A G W R V T F V A A E P G
UniRef90_UPI00037F2871 V A I P L Y P R F T A L D A V G P Y E V L Q R V P I E V T F V G H R R G
UniRef90_F0FYE5 S A R D I V V V G F D G V Q S L D I T G P M E V F A V A N Y R L T L A S P H G D
UniRef90_UPI000405FC95 A R R Q L G I L L F D Q V E V L D F C G P F E V F S V S P F Q V S L I S E S G A
UniRef90_Q46NF7 S P K R V C I L F N G F Q I L D V C G P M Q V F R E R A Y D I E L R G A P G G
UniRef90_UPI0002196CCB K V A V L V T N D V E D V E L T S P V D A L K K A G H D I L I D Q K A G
UniRef90_J3DWC4 A T Q S V G F L L L D K F T L M S L A S A V E P L R M A N Y R W H T F S A N G A
UniRef90_U7DKP6 I G L I V Y P G F Q V L G L A M C A F E M A N G A V D T P M Y D
UniRef90_UPI0004059E3Y6 G R K M A I L A A D G F E E L E L T S P K E A I E A A G G E T M I V S T E K H
UniRef90_I2B9I9 K T A A V L L A P G F E E G E A M V V I D L R R L D I R V Q T I L S C A G T
UniRef90_Q5HN59 A K K V A I L A D E F E D I E L T S P K E A L E N A G F E T E V I S G D T A N
UniRef90_UPI00034CDC3D V G P F F V Y P G Y Q I L D L A G P F A A F G R P L G Y R L E V L S G G
UniRef90_NOCS51 H I V F L L V P G V H L L D L A G P A Q V F S T A G H P Y T L S Y V A E Q

UniRef90_UPI0004679493 E P V S T D V G L S V T P D I T F E H C P K D L D V L F V P G G L M G S L V
UniRef90_W9B4A3 P I A T M T G L E S V V A A P A P P R E Y P I D T V V I P G G F G V I E E
UniRef90_J2XVF6 A M P C S N S G L S I L N A H R H F S D S Q A Y D L L L V F A G G P R L P S
UniRef90_A9G5A8 D L I M S T D S G V P L I Q P T A T F S D A S C P D D L D I L F V P A G G M G T P D A
UniRef90_J1EIF2 P L A T H A G L Q L G P V V A L Q D A P P G I D T L V V T G G S E Q A L L A
UniRef90_F5SHC6 P T I R A N C H G L T F Q P D F S F K N A P R F D L L V T P G S P L E P L H H
UniRef90_A3SPA4 E T I S C S A G S R F Q I D I P L S E L N R D D T V M L C G G M D I H
UniRef90_G9Z7E2 G T L N T N A G F A I V E N G L D A S E L G D M D M I V I P S W D T P Q H
UniRef90_U1IG16 I A V K A G P V R S S S G V E M L A R G L K P S A A I T T L I I A G G N G V R T
UniRef90_A8TKA7 Q C I E T A S I G A A L N A D A A I L G V A E P E S Y D T T L V A G G V G A R D
UniRef90_K0ZES7 G Q I E G K K G T K V D V D A T T A D S V I E A S F D G I L L P G G T T N A D H
UniRef90_U2U390 D S V E S G K R G K E K F R L E R G I D E V D V K D F D M L L T P G G H S P D N
UniRef90_X8CJ94 D V T S S I G T R L G V T Q R L S A I D S A D I V L V A G S D H L P G
UniRef90_A1UWL3 R S V R T S T G I L S T Q P L A P T D A P A D T V I V A G A G V D A A
UniRef90_W0HMMV6 P D V V T S T G L T L G H T E P L P A T L P D D S L V F V P G V S D S S R Q L E
UniRef90_N6WVW2 G Q V G G Y N H L D K A D T F R V D R A I L N D D Y D A L V L P G G V A N P D D
UniRef90_J2ITU1 R A V V I S Y H A L P M V A D S T L A E R Q A K L Y D A V V L P G G P Q G S V N
UniRef90_U1X3H2 P V V T D T G F A L E T Q P F E I C R A S A P D T V I V S G G D S A I P A
UniRef90_L2TB59 P V R S D A D F S V S V D H G P E L L A E A D T V V I P A S Y E L G P A Y D D
UniRef90_J3EVW2 T Q V T A S H G L R V E P D G R L D L A D D R P D V L V V P G G G W N S R S
UniRef90_UPI00047B722C R I R G L N L N L P A T R V R V D T T V D Q A D D Y D G L L V P G G F I N P D L
UniRef90_V8RCL5 L I Q T V E G L A I D T Q A L T T L D T A A L D T L V P G A P D I C Q T
UniRef90_UPI000310E448 A V S S K M G F S I N V D A D L S F A Y E A D L V V S P V P H Q Y W A H T D
UniRef90_D3F1P7 T V R T D V I G L G L V A D V A L A A V P S P D V V L V P G G P G Q M E Q M E D
UniRef90_R7EX69 L Q V E G A H N I T V T A D C L F S D T N F E S A P W L I L P G G M P G A T N L
UniRef90_E3CZC2 S P L R A Y H G L R I L P E T S L E E A P K L E D L L V P G G D G R K E A
UniRef90_M4ZYP7 V I V T T E S A V R L D T E S F A S L L E P I D T L V V A G G F A V W R H
UniRef90_S6I2W8 L K V I A E A H G V E S S A G L W P L P D V D E P T H T L I V A G G R G V H V
UniRef90_UPI00029AF192 L V P S A E G L A V D T S R L E Q L A A V A I D T F L V P G A P A I C Q T
UniRef90_UPI000262E9A6 V R I V C G V D A V R V G R F R L E P D Q G L D G L R D A D T V I V P G W A D T D
UniRef90_R2P3U3 Q E I T G K K G T K F K S D K G I D E V K P E D F D A L L I P G G F S P D Q
UniRef90_UPI00037D94A7 R T V T T A S G I E L V V R T P W S P R S A D I T V V P G A G Y G P G S G I D
UniRef90_UPI00026273FD S T Y H S K L G Y S M D A D K A A D E V K V D D F D A V I V P G G F A P D H
UniRef90_R6FBJ6 E I V T G S H G I P V L C D K N I V N C D F F D A E L I L M P G G L P G A T T
UniRef90_D0LYJ4 Q T L E G K Q G N E S A R V I E A T P K Q R K P D E F D A V V I P G G H A P D S
UniRef90_UPI000465A1CF K L V S S R N D G F I F G A D E K I I S N C T S D H F D L I L P G G M P G A T N
UniRef90_UPI00026C73DE E I K A R E N D L D E A G T F V D A L V K S D E Y D A L L L P G G T V N P D Q
UniRef90_V6KUE9 P V R T N A D F T I G V A H G P E I L D T A D T V V V T S M P P A Y I P T E L
UniRef90_F4B0K1 T L K G W A D G N W K S I S Y D V T D T L D N V S A K D A L M L P G G V I N P D K
UniRef90_UPI000441369F D S V A C S R G V K N I J A D T L E S R D V A D K F D L I V V P G G A E G A K T
UniRef90_A0A031GK74 V C A A D P T P L R T A A G F G I T P E F G L E G L D G A D I V I M P A W H D D
UniRef90_Q1LHN9 A I V R T E S G L R I L V A D A P Y H R V I E Q V G R P I D T L L I P G G S G H A R
UniRef90_J2EHT3 L M Q T A E G L V D A D G S L R Q F D G A A I D T L I V P G A P D I R Q A
UniRef90_U7VB12 L E V E S A Q K V K V V A D I N I S D I N V G E G V M V V I P G G F P G Y V N
UniRef90_UPI0003B66D89 S I I R T S I G I S I D T V A A N T V T R A D T V V I V G G D A L P V
UniRef90_UPI0003812503 Y S I G G P V V S S M G M T V D T R A A T T R V T V D T W V V A G V G D P L E
UniRef90_UPI00037EC212 D P I I S Q G V L K V L P D Y S L E D A P E A D T I A V F G N G F N
UniRef90_R6NRT7 K E V A G A H G I T F A A D V L A E E A D F D S Y D G I V L P G G M P G T L N
UniRef90_L9W5U6 D M V T A S H D L R V E S Q G T L G Q P D I L I V P G G G W T T R A
UniRef90_UPI0004633E9A R E V A T S L G L T M G G I A P L P D A L P P G S L L V I P G V S D S R Y Q F D
UniRef90_D7UZP1 H V I H G K Y G V P A T S D Y S F D E I K P E D Y D G I L V P G G W S P D K
UniRef90_C5D1X3 N T V R G W K H H K P A D E F N V D I L P P Q A E F D A L V L P G G V M N P D A
UniRef90_UPI000349E498 T P I T S N E G L I T P T T L D N C P T L D I C V P G G G I G Q I E
UniRef90_J4SHA0 G F R H V D K G A R V K V N H T F D D A K Q G D Y D A I V L P G G V V N G D A
UniRef90_B8HQH4 T D V V J A A H G L R I Q P S G K L E R D Q P L D I L I V P G G G W A M R A
UniRef90_F4F712 E S Y D S K E H Y P M R A D A G A P D V S A A D F D A V I I P G G F A P D N
UniRef90_F4CC05 H V L S A D S S F V N T S A G L I V C E G G D Y E I D T I L F A G K G N A G
UniRef90_I4BRC6 E I D A R N H D L E P A G T I P V D R V R V D E Y D G L V V P G G T V N A D K
UniRef90_G4HWR3 E V R S D N G M L G L T C D A T F D E V T T P D V L V F P G G I G T R T
UniRef90_A3XNX4 A W A E T D W G K D Y N V D K T L D E V S A K D Y N A L V L P G G V M N P D Q
UniRef90_UPI00023BTT9 E P I Y A Q G I L T V I P D Y D L S D A P E V D I L V F F G G N A M L P
UniRef90_E3J472 P V R S E G G R L G L I V D A E L A D V P A P D V V L V P G G P G Q V A
UniRef90_UPI00036F9EFO T I R A S S G M R L T P D D V L G Q G H P P F D T L L V A G A P H L D R
UniRef90_K8AH53 T I A S S G M R V T A D M T L G A T S F Y T P D T F L V A G A P G L E Q
UniRef90_UPI000344CFD1 E R V P T A Q G V D V H T G T E P A D L G P D D I V L V P G W A G R F P G A
UniRef90_UPI0002D7F69F T V Q G T D K G D T F T I D L T V A D A N A D D F H A L V L P G G V V A D A H
UniRef90_UPI00024DQW3 N K L T C T W N F T V I P E K T V D I Q L D E F D A L A I P G G F E E F Y R
UniRef90_UPI00045E6D43 G P V R S S C G V E V V A S S L K S A K S I T T L V V A G G L G V I E A
UniRef90_UPI00042317C5 E D V P T A Q G L S V R A S T D W P E L D V G D L L F V P G W R S P G R V R H P
UniRef90_UPI000262B275 G S I T G K N G H E Q E V S L T S A D A K A D D F D A L V L P G G V V N G D Q
UniRef90_UPI0003B3D315 T T V K G K H G L A I P I D E G I A D V K P T D F D A L F I P G G F S P D Q
UniRef90_U1YHJ5 R P V R T S V G A H V V P D H D L S A T D D A D L V V V P A I R I G T D Y P
UniRef90_K9DL47 V L S S S G V G V F T E A F D R R D Y D T L I V A G I M T P V G
UniRef90_H7F1V3 N E V T G K Q G K T T V K I D K G I D D V T P D E F D A L F I P G G F S P D Q
UniRef90_A0QPF1 A V G T T A F A K L D A N V A L D E V P A A V D T L V V P G G H D I P E E P T
UniRef90_UPI00036F8D82 E I E A N R H R E T G K T I P V N D V L G N A E R F D A L V I P G G L F S P D A
UniRef90_E6N966 K A Y R G K H G I E I T A D K S V E E A K P E E Y S C L I I P G G W A P D R
UniRef90_UPI00037F2871 A P V T T S A G V R I L P D V T F D D V S R A P V D T L I V V T P G G D R T V T
UniRef90_S3H5E7 R W N M T D W G I D L P V D V E L D Q A K P E D F D A L L V L P G G V I N P D S
UniRef90_UPI000379DF82 P V T D D R G T L S L T A T A C Y A D V P D P D V I V V P G G I G T F D V
UniRef90_UPI000424JSD0 E V R T E N G M L G V T C D A S F D E L S A P D V V V V P G G I G T R K
UniRef90_F0FYE5 D I V T H A G L R L A G P T A S L A A L P E R I D T I V I A G G S E A L R R Q
UniRef90_UPI000405FC95 P V L I T T G G M K V L A D F S F E N C P E L D I L L V P G G W G T R Q
UniRef90_Q46NF7 L I A S S C G A R M E A R D L A R A R R P L H T I L I P G G P G V W E G
UniRef90_UPI0002196CCB E E I T G K H H K T K V D A G I A D V M P E N F D A L L V P G G F S P D Q
UniRef90_J3DWC4 A V W A S D G V P I T P D G S W S N P S V A D T V I V C G G V G I Q S
UniRef90_U7DKP6 I T L S E H G G T V R T S A G F T A F H H G P F D T L L V M G D N L I R
UniRef90_UPI0004059E3Y6 A N Q H R E H G D K Y Q V D L S L D E A K A E D F D A L L I P G G L F S P D A
UniRef90_I2B9I9 R E V T S Y H G I P V L A D A T L A E S L D L T F D A L I L P G G P E G S M N
UniRef90_Q5HN59 H E V I G K H G E K V T V D V S L A D A K P E N Y D A L L I P G G F S P D H L R
UniRef90_UPI00034CDC3D G A V P S S G G V P V T T M T A G D A S V D T L V I S G G D I A
UniRef90_NOCS51 P Q V T T A Q G L P L V A G L D W P E L G P G D L I V V P G W R A V T L A D A

UniRef90_UPI0004679493 A M E D Q Q T L N F L A D R G A A A R Y V T S V C T G L V L A A A G L L L N G Y
UniRef90_W9B4A3 A R S N P A I I E W I R T D A A G S A R Q R V V T V C C C G A F L L A A E A G L L L D D G C
UniRef90_J2XVF6 M D V F G D P A F D A W L R D R A G G R A Q R Y F G S V I C C C N G S A F M L A A A R A R L L M D G G R Y
UniRef90_A9G5A8 M I V D Q E I L R F W L R D D R A G R A S R Y V T S V C C C T G A L L L A A A G L L M Q D G G R Y
UniRef90_J1EIF2 A A S H P A L R D W M Q A R A P A A R R V V T V G V V C C C T G A L L L A A A G L L L D G G R K
UniRef90_F5SHC6 A L Q N R N R L L S W L S K R H A E E R R G I E L M T M S V C C C T G A F F L A A K A G L L L S G K K
UniRef90_A3SPA4 L A T T K R N L L S W L R R E A E E R R G L P V A G L C C C T A S Y T M A R A G L L L S D G K
UniRef90_G9Z7E2 L I P E P E L V A A L Q R A H T A G A L V V G L C C M G A F V V A A A G L L L A G R Q
UniRef90_U1IG16 P A S C P S T T L S F V R R R A A S G V R V A S V V C C C S G A F V L A E A G L L L D D G R
UniRef90_A8TKA7 V R P D P S L L L A W L R R A A A G S V R V V G S V V C C C T G A F V L A E A G V L L D D G R
UniRef90_K0ZES7 I R M D E A A V T V L K K H V E A G M P L G A I C C C H G A W I L T D A E V L L E E R R
UniRef90_U2U390 L R A D E A R F I R F V K E F D D R A G K L I A A V C C C H G P Q L F L A Q A G L L V D D G R
UniRef90_X8CJ94 R P I D D P A L V E A V R S V A A R T G R M A S I C C C T G S Y L L A A A G L L L D D G R
UniRef90_A1UWL3 A R C A D T L A W L R A H A R T Q F A R R V V S L C C C N G A F L L A A C G L L L D D G R
UniRef90_W0HMMV6 T P Q A Q S A Q R W L Q Q H R T E S G K P V V T L C C C H G P W V L A S A G V L L Q D G R
UniRef90_N6WVV22 L R T N E R A V A F V R R D F M E K G K T V A A I C C H A P W T L V E A G V L L K D R
UniRef90_J2ITU1 L A S K A V V Q F I E Q H D T A G K L I C P I C C S A A A R V L L G G N G L L K G R
UniRef90_U1X3H2 A R S T A L L S F A L E E M A G P G C R R L G S V I C C L G A F I L A Y A G G H L L N G R R
UniRef90_L2TB59 G H L P N L E A A L S F V R Q G T R Y V S I C T G S Y L L A A A G L L L D G L R
UniRef90_J3EVW2 E A G A W A E A R G V V P D A V A T L H D S G V T V A S V C T G G M L L A R A
UniRef90_UPI00047B722C L R Q S A P A R A L V A E F V E S G K P V V T L C C C H G P W V L A S A G V L L Q D G R
UniRef90_V8RCL5 L E K H R E L S D W L Q D H A H L A R R V V S V C C C S G A F L L A Q A G L L L D D G R
UniRef90_UPI000310E448 E R V L L D V I R A A V A T A W V L S V C C C S G S F V V A A S G V L L D D G R
UniRef90_D3F1P7 G P L H A W L R A A D A T S T W T T S V C C C T G S L I L A A A G L L L R G R
UniRef90_R7EX69 H E Y A P L N E L L K Q A S S H R G T I A I C C A S P A I I L S P I G L L L R G R
UniRef90_E3CZC2 S R D P V V L D F L R R T A R S G A L V A S V C C C T G A F V L A A A G L L L E G K E
UniRef90_M4ZYP7 R S D P R F V A A L D D L A R S A T R L V A S V C C C T G A T L A A V T G A L L D G H R
UniRef90_S6I2W8 A A D D P Q L V Q W L R V R A Q R S A Q R V A S V C C C T G A F L L A A T G L L L E E G R
UniRef90_UPI00029AF192 L D D Y S T L T D W L H A N A A A R G R I A S V C C C T G A F L L A K A G L L L D D G R
UniRef90_UPI000262E9A6 L E P D P A E L V G A V R A A H A E A G A R V A S L C C C T G S G A F L L A S A G L L L D D G R
UniRef90_R2P3U3 L R S D S R E F V A F V T Y F L D K N E P L F A I C C H G P Q F V L I Q T G L L T K G R
UniRef90_UPI00037D94A7 E Q I R R G V L P K A L J A A A R R P G L V L S S V C C T G T M L L S A A G L L T A G
UniRef90_UPI00026273FD M R L C C P M V D L V R E A Y E S G K L I A A I C C H G G W M L A S A G V L H G R
UniRef90_R6FBJ6 L D A C E D L H R L I Q R F A D E N K P I A A I C C A P M I L A S M G L L K G R
UniRef90_D0LYJ4 I R T D T D I V A F V R D F A S S G K P I A A V C C H G P Q L L T E A D V L K G K
UniRef90_UPI000465A1CF L F E S K D L D N L R S M N Q G K L T A A I C A S P V V V L A A K G L L G K N
UniRef90_UPI00026C73DE L R V D T D A V G F V R D V M A A D K P V A A I C C H G P W T L I E A G V L A K G R
UniRef90_V6KUE9 P D E V T A A L A R I R P D A R I V S I C C C T A A F V L A E A G L L L D D G R
UniRef90_F4B0K1 L R R N D D A L L F I R S D F F K Q S K P V A A I C C H A P Q L L T E A D V V K G R
UniRef90_UPI000441369F I S K N A Q L Q E M L R S Q I N V G R F V G M I C C C A G S L A A L E A K L P S Q P
UniRef90_A0A031GK74 C R D A A A P L V A A L I Q A S N R R G A R M V G L C C L G A F P L A Q A G L L D D G
UniRef90_Q1LHN9 A A E D E Q L I G W L R T Q A T Q V R R M G A V C C C T G A F V L A A G T G L L D A Q
UniRef90_J2EHT3 M I D C V E L V A W L Q N A S A R A R R T A S V C C C S G T F L M A Q A G L L D G R
UniRef90_U7VB12 L R S D S R V V E I V K E Y N S N D K F V G A I C C C G G P T T L G I N G L I G D Y
UniRef90_UPI0003B66D89 E P I P P L R A A T A H L V E V A E R V T S V C C C T G A L L L A H V I G A L D D G K
UniRef90_UPI0003812503 Q T P P Q P V L E F A K A A A R A R T V S I C C C T G A F V L A E A G L L L E D R
UniRef90_UPI00037EC212 T S Q D T A V T N W I R H Q E N T Q L H F S V C C T G A L I L A E A G I L L D G K T
UniRef90_R6NRT7 L G K H E L V K K V I T S Y A A G G K L T A A I C C A A P S V L G E N G I L E G K
UniRef90_L9W5U6 A V D D G A L A A V I D E R F T E G A T V A S V C C C T G A M V L A E A G L L E G R
UniRef90_UPI0004633E9A T P Q A E A V R R W L T R Q Q P A L Q R G D M S L V C I C S G R A G L M N G V Q
UniRef90_D7UZP1 L R R Y E K V L D F I K Y F D R E K K P I G Q I C C H A G W V L T S A G L L D G V
UniRef90_C5D1X3 L R I N E E A I A F V R D F F K A G K P V A A I C C H G P W T L I E A D A V L R G Y
UniRef90_UPI000349E498 V M K D R E I L N F L Q Q K S N T A K Y I T S V C C C T G S L I L A A A N L L Q G Y
UniRef90_J4SHA0 M R M P A A R E F V T A A I G A D K P V A V I C C H G G W L L V S A G L V D G R
UniRef90_B8HQH4 P K G A W G E V A I A Q I H Q R G A T I A S V C C T G A M L V A A A G L L K G R P
UniRef90_F4F712 M R L H P E M I D L V R E A Y E A G K L V A A T C C H G G W M L A S A G A T K G R
UniRef90_F4CC05 S S I T E K I A S W L K E N I S K L R R I G S I C C A G A F L L A E A G L L N G K R
UniRef90_I4BRC6 L R L D E S A V A F V G D F V R S G K P V A V I C C H G P W T L V E A G V L N K D R
UniRef90_G4HWR3 L V I E D T A V L D W I R Q V H R H T V F T T S V C C C T G S L M L A A A G L L T G L
UniRef90_A3XNX4 L R R N E N A L V F I R D F F K K H K P V A A I C C H A P Q V L T S A D V V E G R
UniRef90_UPI00023BTT9 S K R D Q E L I D W I K S L K E T K Y H F S V C C S G A L I L A A A G L L D G Q
UniRef90_E3J472 L M D D E P V H A W L R A V D A T S V W T T S V C C C T G S L V L A A A G L L T G R
UniRef90_UPI00036F9EFO R A R D E R L L D R L R I E A T A A R R F G S V C C C T G A F L L A E T G L L D D G R
UniRef90_K8AH53 V D P E P A A V A Q I R A L C E R S R R F G S V C C C S G A L L L A R T G L L D D G R
UniRef90_UPI000344CFD1 G E L S G R L L S A V I R A H H D A G G A V A S V C C C S G A D A L G R A G V L D D G R
UniRef90_UPI0002D7F69F L R V D K D A Q E F A R A F F A Q H K P V A A I C C H A P W L L T D A G V V S G R
UniRef90_UPI00024DQW3 D A Y S R E F L H V I Q H F Y A K Q K P I A S I C C C V A S L T L L G S G I L V G K
UniRef90_UPI00045E6D43 A I D C R T T L A F V R R H A T R G A R V A S V C C C S G A Y V L A A A G L L D G R
UniRef90_UPI00042317C5 R L T E A H A A G L A A H H E R G G T V A S V C C A G A F A L G Q A G L L D G R
UniRef90_UPI000262B275 I R L D A D A V A F T K S F F A Q H K P V G A I C C H G G W I L A D A D V L H G R
UniRef90_UPI0003B3D315 L R A D E R F V D F V R Y Y M L S D K I V G A I C C C H G P Q I M I Q T G L V K G R
UniRef90_U1YHJ5 P E V L D A V R R A S A D R G A L L L S V C C C C G V F V L A A A G V I E G R
UniRef90_K9DL47 F K S S A P F L D F L R E A S A S R R T A S I C C C T G A F I L A E A G V I D G R
UniRef90_H7F1V3 L R A D T R F V Q F V D A F I K E D K P I F A I C C C H G P Q L F I Q T D R L K G R
UniRef90_A0QPF1 P D T P D A V H L V R H L A P R A R R V A S V C C C T G A F V L A A L G L L N G R
UniRef90_UPI00036F8D82 L R I N D D V K S F V R D F F A Q K K P V A A I C C C H G P Q I L I D A D V V K G R
UniRef90_E6N966 L R R D Q R V V Q F V K R F F E T G K P V A A I C C C H G P Q L L I S A K V L K G F
UniRef90_UPI00037F2871 A V C D P S V V E R V L L A E R A R V A S V C C C V I G A H V L A A A G L L D G K
UniRef90_S3H5E7 L R I E P N A I T F A K A F F D A G K P V A A I C C C H G P W T V I E T G S A R G R
UniRef90_UPI000379DF82 L A D E A L L G W I R R A H E H T S W T T S V C C C S G S L L L G A A G L L G G L
UniRef90_A0A024JSD0 L L H D E S I R D W L R A V H P A T T F T T S V C C C T G A L L L A A A G L L D G L
UniRef90_F0FYE5 A A S D D S V L P W L Q A R V A D T R I A S I C C C T G A F L L A A A G G W L N G K
UniRef90_UPI000405FC95 E M F N E T L L D F V R T R A P R V I E I A S V C C C T G A L I L A S A G L L D G L
UniRef90_Q46NF7 A A H E T L V K W L N A A A K R A S R V A S V C C C T G A F V L A A A G L L D D G R
UniRef90_UPI0002196CCB L R G D P R F V K F A R S F L S D K P T F A I C C C H G P Q L F M Q T G L V K G R
UniRef90_J3DWC4 A I T R E H T T W L Q A L A R Q S K R L G G V C C C T G S W A L A K A G L L D G Y
UniRef90_U7DKP6 P V S P G M V E F L R S A S R T S R L G S I C C C T G A I A L A E A G L L D D G R
UniRef90_UPI0004059E3Y6 L R T N D K A K S F V R S D F F A Q K K P V A A I C C C H G P Q V L I S A N L V N G R
UniRef90_I2B9I9 L A R N G Q V I E F V R R H D G Q Q R L I C P I C C C S A A A R V L G G N G L L N G
UniRef90_Q5HN59 G D E E S R Y G T F A K Y F T K N D V P T F A I C C C H G P V L V L D T D D L K G R
UniRef90_UPI00034CDC3D P M L N S E I V Q A V Q Q L A R R T P R I T S V C C C T G A F L L A E A G L L D D G K
UniRef90_NOCS51 P A L G S A T L K V L R D H H A G G T V A S V C C C A G A E A L G Q A G L L D D G R

UniRef90_UPI0004679493
UniRef90_W9B4A3
UniRef90_J2XVF6
UniRef90_A9G5A8
UniRef90_J1EIF2
UniRef90_F5SHC6
UniRef90_A3SPA4
UniRef90_G9Z7E2
UniRef90_U1IG16
UniRef90_A8TKA7
UniRef90_K0ZES7
UniRef90_U2U390
UniRef90_X8CJ94
UniRef90_A1UWL3
UniRef90_W0HMMV6
UniRef90_N6VWW26
UniRef90_J2ITU1
UniRef90_U1X3H2
UniRef90_L2TB59
UniRef90_J3EVW2
UniRef90_UPI00047B722C
UniRef90_V8RCL5
UniRef90_UPI000310E448
UniRef90_D3F1P7
UniRef90_R7EX69
UniRef90_E3CZC2
UniRef90_M4ZYP7
UniRef90_S6I2W8
UniRef90_UPI00029AF192
UniRef90_UPI000262E9A6
UniRef90_R2P3U3
UniRef90_UPI00037D94A7
UniRef90_UPI00026273FD
UniRef90_R6FBJ6
UniRef90_D0LYJ4
UniRef90_UPI000465A1CF
UniRef90_UPI00026C73DE
UniRef90_V6KUE9
UniRef90_F4B0K1
UniRef90_UPI000441369F
UniRef90_A0A031GK74
UniRef90_Q1LHN9
UniRef90_J2EHT3
UniRef90_U7VB12
UniRef90_UPI0003B66D89
UniRef90_UPI0003812503
UniRef90_UPI00037EC212
UniRef90_R6NRT7
UniRef90_L9W5U6
UniRef90_UPI0004633E9A
UniRef90_D7UZP1
UniRef90_C5D1X3
UniRef90_UPI000349E498
UniRef90_J4SHA0
UniRef90_B8HQH4
UniRef90_F4F712
UniRef90_F4CC05
UniRef90_I4BRC6
UniRef90_G4HWR3
UniRef90_A3XNX4
UniRef90_UPI00023BTT9
UniRef90_E3J472
UniRef90_UPI00036F9EF0
UniRef90_K8AH53
UniRef90_UPI000344CFD1
UniRef90_UPI0002D7F69F
UniRef90_UPI00024DQW3
UniRef90_UPI00045E6D43
UniRef90_UPI00042317C5
UniRef90_UPI000262B275
UniRef90_UPI0003B3D315
UniRef90_U1YHJ5
UniRef90_K9DL47
UniRef90_H7F1V3
UniRef90_A0QPF1
UniRef90_UPI00036F8D82
UniRef90_E6N966
UniRef90_UPI00037F2871
UniRef90_S3H5E7
UniRef90_UPI000379DF82
UniRef90_UPI00024JSD0
UniRef90_F0FE5
UniRef90_UPI000405FC95
UniRef90_Q46NF7
UniRef90_UPI0002196CCB
UniRef90_J3DWC4
UniRef90_U7DKP6
UniRef90_UPI0004059E3Y6
UniRef90_I2B9I9
UniRef90_Q5HN59
UniRef90_UPI00034CDC3D
UniRef90_NOCS51

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

UniRef90_UPI0004679493 L D F G L M L A A Q L C G E E A A K H V Q L V I
UniRef90_W9B4A3 I D L A L H L V E D D H G T E T A Q T V A R W L V L
UniRef90_J2XVF6 I D L S L F L L L A Q D H G P D V A L S V A K R L V V
UniRef90_A9G5A8 I D F G L T L L L A L L R G D D A A K L T Q L M L
UniRef90_J1EIF2 I D L C L A L V E A D C G A A T A L A V A R E L V L
UniRef90_F5SHC6 I N M A L H I V V N R L L G S E M A H T T A K A I
UniRef90_A3SPA4 I D L M L H I I A K D H D G E K L A N A V A D Q L I
UniRef90_G9Z7E2 I D C C L H V V R R L W G A E I A T T V A R Q L V V
UniRef90_U1IG16 I D L A L A M I T E D Y G D E V A Q N T A R Q L V L
UniRef90_A8TKA7 M D M A L A M I A D D L G R R A A L E L A K S K V M
UniRef90_K0ZES7 P A F N A K L V E E F A
UniRef90_U2U390 E D F S K A I L E E D L K S A
UniRef90_X8CJ94 I D L A L A L V E M D H G T E L V R D V A R W L V V
UniRef90_A1UWL3 I D L C L R L V S N D C G H T L A L A L A R Y L V V
UniRef90_W0HMMV6 I D L A L H L V S Q Y A G P Q V A M S V A R E M V V
UniRef90_N6VWV2 D A F C A K I I E
UniRef90_J2ITU1 F N F A L T I A A R L Q G D E T A A R
UniRef90_U1X3H2 I D M A L A M V E Q D L S R A E A L R L A Q S L V L
UniRef90_L2TB59 L D L C L H I V R R D H G S G V A N Q V A R R C V V
UniRef90_J3EVW2 L D L A L H L V D R L A G S A I A D R V A
UniRef90_UPI00047B722C A A F V P A M L D A F A A G T L A E T T S
UniRef90_V8RCL5 I D L A L A L V E A D C G R E V T L Q V A R E L V V
UniRef90_UPI000310E448 L D A C L H L L R Q E L G A E L T N K I A R R M V V
UniRef90_D3F1P7 I D M A L T L A G R I A G D E V A Q T I Q L G I
UniRef90_R7EX69 M L W A L N I V E Q T I G A E Q A R A V A A G L L F
UniRef90_E3CZC2 V D L S L A L V A E L A G R E T A L R C A E A L
UniRef90_M4ZYP7 I D L C L A I V E H D H S T E I A Q E V G R W L V M
UniRef90_S6I2W8 I D L A L A L V E A D L G H A M A L A V A R D L V V
UniRef90_UPI00029AF192 I D L A L A L V E A D C G R E V S M A V A R E L V V
UniRef90_UPI000262E9A6 M D L C L H L V R L D H G S A V A N A V A R R L V V
UniRef90_R2P3U3 P D F N E K I V E V L H
UniRef90_UPI00037D94A7 I D L G V W L V E R F H G A E A A L S V E
UniRef90_UPI00026273FD P A F G R E I V K Y L E P A S V S S S V
UniRef90_R6FBJ6 L P F A L A V V E H L L G A E K V A E L K Q A M C V
UniRef90_D0LYJ4 D A F T G V L L S A L
UniRef90_UPI000465A1CF F E F A F A L L K I V K G E S V L E D V A K A L L
UniRef90_UPI00026C73DE P A F N A A M I E L F
UniRef90_V6KUE9 V D I C L H I V R T D H G S E L A N A V A R R C V V
UniRef90_F4B0K1 P A F N A K L I E E I K
UniRef90_UPI000441369F P F A L K L V E L L C G E A K M R E V H A P M I F
UniRef90_A0A031GK74 L D C C L Y L L R Q L A G A E V A N R V A R R L L V
UniRef90_Q1LHN9 M D L S L A L V E E D L G H T V S L D V A R D L V L
UniRef90_J2EHT3 I D M A L A L V E A D C G R D V A L Q V A R E L V I
UniRef90_U7VB12 V E F G L A L A S V F V D E A T I T K V K K G M
UniRef90_UPI0003B66D89 I D L A L S L V E A D H G P E L A R A V A Q Q L V V
UniRef90_UPI0003812503 L D L A L A L V E K D L G A E I A R S V A H K L V M
UniRef90_UPI00037EC212 I D G A L H L V A K L K G Y N A R A T A Y N M
UniRef90_R6NRT7 I E F A M A I V K W L
UniRef90_L9W5U6 L D L A L W I V E R E F G E E I A S E V S A L M
UniRef90_UPI0004633E9A I D L S L H L I H R L Y G P R A A L E V A R E M V V
UniRef90_D7UZP1 P E Y L P A Y I K A F
UniRef90_C5D1X3 P A F D R E M V R L F A D A R A
UniRef90_UPI000349E498 I D F G L T L L N L I C G E D T A K M A Q L M M
UniRef90_J4SHA0 D A F N G A L I E C L A A D R A
UniRef90_B8HQH4 I D L S L R L I E R Y F N P Q V A Q T V E Q G L
UniRef90_F4F712 P H F G R A I V E Y L
UniRef90_F4CC05 M D L S L A M V E E D F G R D I A V M V A K I L V L
UniRef90_I4BRC6 P A F C Q A I V D Q F A
UniRef90_G4HWR3 I D M A L R L V E L L V G P E A A Q A S Q L M I
UniRef90_A3XNX4 P A F N A K V I E E I
UniRef90_A0A023BTT9 I D G A L H M V A K L E G L E T A A E T A F Y M
UniRef90_E3J472 I D M A L T L A A R L A G D S V A Q A L Q
UniRef90_UPI00036F9EF0 L D L A L A L V E E D L G P D L A R Q V A S Q L V M
UniRef90_K8AH53 L D L A L R L V E E D L G R D V A L E L A A Q L V M
UniRef90_UPI000344CFD1 I D L A L H M L E R R D G P A A A A Q V A R D M V V
UniRef90_UPI0002D7F69F P A F N D K M I E E I A E G E H E G Q T A
UniRef90_A0A024DQW3 F D V A F L L L E K L T S K K N A E H V K D L M
UniRef90_UPI00045E6D43 I D L A L A I A A E E H G D A V A K D I A C Q L V L
UniRef90_UPI00042317C5 I D L S L H L T G V R H G H A A A A R L A R G M V V
UniRef90_UPI000262B275 P A F N A K L V E E I G E G E H P G Q T A
UniRef90_UPI0003B3D315 P A L N E A L L K A L A
UniRef90_U1YHJ5 I D A C L H L V R R E L G A R V A N T I A R R M V V
UniRef90_K9DL47 I D L C L A M V E E D L G K D A S K H I A R H M V V
UniRef90_H7F1V3 P A F N R E A L K L L
UniRef90_A0QPF1 T D L A L A L V E S D H G P T M A R R V A R W M V V
UniRef90_UPI00036F8D82 E A F C A K L V E E V C E G Q H A A Q A Q
UniRef90_E6N966 H V F V K A L I E
UniRef90_UPI00037F2871 L D L S L A L V A D D F G P E L A A R V A R Q L V M
UniRef90_S3H5E7 P A F N R E T I K L F S G
UniRef90_UPI000379DF82 I D M A L T L L A R A R D E E T A Q T V Q L A L
UniRef90_A0A024JSD0 I D M A L R L T E L L V D R E A A Q A A Q L M I
UniRef90_F0FYE5 I D L C I A L V E A D C G A P T E L A V A R E L V L
UniRef90_UPI000405FC95 M D M A L T L V A D L H G E T I A R Q T A R H M
UniRef90_Q46NF7 I D M A L A M V E E D L D R E I A M A V A K T L V V
UniRef90_UPI0002196CCB D Q F N A A I V E D L
UniRef90_J3DWC4 L D M M L H L I A R D H G R E L A T A I S E M F V L
UniRef90_U7DKP6 V D L A L A L V E K D L G A D V A R R V A R Q L V V
UniRef90_A0A059E3Y6 G D F N A K I V E E I C E G K H E R Q
UniRef90_I2B9I9 F D F A F T V A A R L T G D D P A R E Q A E H I
UniRef90_Q5HN59 D D F N R E I V K K L
UniRef90_UPI00034CDC3D I D L A L A L I E A D H G V E L T R K V A R E L V V
UniRef90_NOCS51 I D L A L H L V A T D H G P A A A A Q A R E M V V

1 10 20 30 40
UniRef90_W4JQV7
UniRef90_UPI00046A455C
UniRef90_G2MK10
UniRef90_UPI00037E58BE
UniRef90_A0A023X287
UniRef90_UPI00035C92C8
UniRef90_G4TP46
UniRef90_K3X676
UniRef90_R9N3B0
UniRef90_I2ERH8
UniRef90_L0LT09
UniRef90_UPI0003D2E006
UniRef90_G2I427
UniRef90_D5ZYP2
UniRef90_W5W3G9
UniRef90_U2RNJ1
UniRef90_D4AKW3
UniRef90_C7D5J3
UniRef90_V3T479
UniRef90_A0A031IW95
UniRef90_V4XRE3
UniRef90_G2S317
UniRef90_C3G589
UniRef90_UPI000289101B
UniRef90_F0LEX7
UniRef90_Q4U192
UniRef90_R6BK05
UniRef90_M6D3H9
UniRef90_J2IZ98
UniRef90_W1S5K2
UniRef90_D8MKC4
UniRef90_W0U2K7
UniRef90_D2PRV2
UniRef90_Q825K3
UniRef90_Q39SZ0
UniRef90_U2Q212
UniRef90_UPI0003B47FF0
UniRef90_UPI000262A2BF
UniRef90_L8PMH1
UniRef90_F9FIY9
UniRef90_G2PE64
UniRef90_R4SZF8
UniRef90_A0R3R0
UniRef90_R4JXM4
UniRef90_I4BE03
UniRef90_W3ADJ9
UniRef90_K9NK03
UniRef90_C6B5B2
UniRef90_A4XCG4
UniRef90_U7D857
UniRef90_D4X5Q4
UniRef90_G2GN04
UniRef90_W8QJQ4
UniRef90_E1PKD2
UniRef90_G4L5U9
UniRef90_D8MTY3
UniRef90_H1D0R9
UniRef90_UPI000348AB69
UniRef90_D4E0X3
UniRef90_H1UK63
UniRef90_A0A024JQB1
UniRef90_UPI000469D64B
UniRef90_UPI00039556E1
UniRef90_R9APH6
UniRef90_S5YCI7
UniRef90_Q1QJ72
UniRef90_A5FVT5
UniRef90_UPI0003AAA8B1
UniRef90_H2ABF1
UniRef90_U7G499
UniRef90_I3XFB4
UniRef90_B5QN61
UniRef90_G1Y4D1
UniRef90_T0R8P2
UniRef90_I0GXT6
UniRef90_I4EHK8
UniRef90_L9YYS9
UniRef90_G0N4R2
UniRef90_G8RSZ3
UniRef90_A7IEV1
UniRef90_UPI000362F2E1
UniRef90_K1N7F0
UniRef90_UPI000361DFFB
UniRef90_UPI0003C7FD66
UniRef90_A9AKK7
UniRef90_UPI000360F04B
UniRef90_UPI000374642A
UniRef90_M3DY57
UniRef90_X0Z9R3
UniRef90_J0D7L7
UniRef90_A1RPN8
UniRef90_K9D9X5

UniRef90_W4JQV7 P F A K G S R G L R I Q P D T Y F S Q A L R V E K F G A L I T I P G G A Q G G A R T
UniRef90_UPI00046A455C L T V T C A E A P G R I G T A S G I S L F L V H D E A A D T V I V P A W P G P D A
UniRef90_G2MK10 E R V T A S G H G L D V G V D G Q L A A P G D A D P D I L V V P G G G W S G E R S
UniRef90_UPI00037E58BE P A S T S G L G L F N K V L N Y K E A Q L K E D D D F V F V P G M S W Q Y V D S I S
UniRef90_A0A023X287 D A V R G K N A L E A S A D A L A S D V D A R E F D G V V T P G G W A P D K
UniRef90_UPI00035C92C8 I T D E L G M K V K V Q K L T R P H L A D Y D M V F V P G G L G T R K
UniRef90_G4TP46 V T V T C S R G V R I V A D T T L E A L L A E P T Y D I V I V P G G A K G A E T
UniRef90_K3X676 H L V T L M K G T M I T G D K A I E H C G H E E Y D L I V V P G G S G A K I
UniRef90_R9N3B0 K T V T S G S H Q I P V V M D A L E D E V D F D N V D M I V L P G G M D G T N R
UniRef90_I2ERH8 T Q T Q T S S G L S L I T T P L T D T D T P L D T L I I A G G W G V N K A C E N
UniRef90_UPI0003D2E006 P G L R A G S S R L S V M P D G D L S L L E Q A D T I I V P G W R G V D T
UniRef90_G2I427 G G L V M S S S G V A V Q T V A V E G A G F D T L I I V G G E G H R A
UniRef90_D5ZYP2 P V R S N A D F G I T V D H G P E A L A T A D T V V I A P V S P D R V T G G L
UniRef90_W5W3G9 V A T N A G F T L V A S G Y D L S K Q V R A A D T V I V P G F A P V
UniRef90_U2RNJ1 E P L A G R N G V R L I A P G Y D L S A M E D A D T L I A V P A A D I R D S Y P E E
UniRef90_D4AKW3 P V S T K P P P L I V N L K T H S Y D D L P T D I D V L I V P G G L G T S H
UniRef90_C7D5J3 D L V T S S G G I G F K V D F D L E R N L G R D D T V M V C G G L I N V Q
UniRef90_V3T479 L E L R S Y H N I R M F A D A L L E R N M D I L F D A I V I P G G P V G T A N
UniRef90_A0A031IW95 Q V S S V S G I S A S T Q S L E Q I D Q Q A P D I D T L I V A G G P G M D A
UniRef90_V4XRE3 D G V T A S H G T Q L D V D E V L A D P D F E S A P D L L V V P G G G W N D W S
UniRef90_G2S317 G E L R A T G G I R I L A D G D L R L L E H A D L I V V P G W R G V D T
UniRef90_C3G589 R E V T T S F G V T R I Q L H D F L R M D N R P D L L I V P G G G W N H K A K H G
UniRef90_UPI000289101B G P L R T T G G L E L T A P H G L E A T S R A G T V V V P A W R S I T
UniRef90_F0LEX7 G T I R C A S G L K I L T D C A F D A Y L G S P D T L L V A G S V G V P Q
UniRef90_Q4U192 Y D V K S D T L I V L E A T K A L D T L A V P D T A I A V G A R D I E R A
UniRef90_R6BK05 R V V T G S H G V R F V C D L A A E E Q V T E E Q M Q M L V L P G G M P G T K H
UniRef90_M6D3H9 E L L H A R N R F P V F P H L L E E A G L P D I L V I P G G Y G A E E I
UniRef90_J2IZ98 A E V P T S I G L N M G N I S P L P E T L P A G S L L V L P G V S D S A N F F N
UniRef90_W1S5K2 P I Q G M E H D D T I R P D I T L A D A V R I D D Y D G L L P G G V A N P D T
UniRef90_D8MKC4 P V V V E S F S F S G L A A D E I T E C D L L C V P G G T C T N
UniRef90_W0U2K7 G T V R T M S G F N I E V E H D L S A V E Q A D T V I V P A W R D P D
UniRef90_D2PRV2 E P L R T S S H S A V I A P Y G L E E L A D A D L V A L P A T T W R D E Y D E
UniRef90_Q825K3 K P V R S N A D F S V M V E R G P E V L R T A D T V V I P P V T P A S V T A E L
UniRef90_Q39SZ0 G T I T G K H G Y E V Q A D K S L A E V N P E G Y A L L V L P G G K A P A A
UniRef90_U2Q212 E L V K G S H D I V V K A D K I S D E I K D Y D M I V L P G G L P G A T N
UniRef90_UPI0003B47FF0 A I S A R A G Y R V M P N Y G F N D H P M I D V L I V A G G V H S N E
UniRef90_UPI000262A2BF L I A G D G L S Y H V E H G L E A L D E A D L V F V P G Y R F P D R D
UniRef90_L8PMH1 R T V T A A Y G T R L R A D H A W A P E E A D L V V P G G G Y A R R E
UniRef90_F9FY9 S T L E D D S P G R I Q S S V V P T H T Y D N A P E D I V L L V P G G R G S R R N
UniRef90_G2PE64 V V I T S A G F A L V A D G E L E Q V R T A D T V V V P G F E P I L Q L P D A
UniRef90_R4SZF8 T T R S S G L M L A G A R R L A E V S G R V D T V I V V G G A G T G A A A D T
UniRef90_A0R3R0 P V R T D T F T I N V A N G P E V L A Q A D T V V I P A S D E D Y A P A T Q
UniRef90_R4JXM4 K E V K S T F N L R I T T D I T I D E V N V D D Y A A A I P G G F E E Y G F Y E
UniRef90_I4BE03 P V A A D S G V L L V G A T H S F D E T P S P D V V L T P G G F A T M E
UniRef90_W3ADJ9 V K Y I G K Y G V P A E S D F S F G D I S P K D Y D A I L L V P G G W A P D K
UniRef90_K9NK03 I V V D Q G P M R A M G G I Q V L A D G G M E L L A D A R T I I I P G W R D R S
UniRef90_C6B5B2 A T V G S S V G L A V T G V A L P E V I A G S A D A P M K N S A P G N E Q E
UniRef90_A4XCG4 E P L R S N H L D T S T Y E V D R A V A D A D Y D A L V L P G G V A N P D F
UniRef90_U7D857 H T Y H G K Y G V P A V S D I T Y E E A L G Q D Y A G L L I P G G W A P D K
UniRef90_D4X5Q4 P M H H D K P G D R F P V D L T F A Q A E E A G V F D G L L L P G G V M N S D E
UniRef90_G2GN04 P V R A D T G F L T L M A G K A L A D V P R P D V V V V P G G P G T A A
UniRef90_W8QJQ4 K T V K G K G E A E V R V D A S I D N V K P E D F D A L L I P G G F S P D I
UniRef90_E1PKD2 G P V T S N D M G L S I M E A N G L G L L D R A D I I V P Y W H N P A E K
UniRef90_G4L5U9 Q E V T G N H I L T V K A D Q V L D E S L Q D Y D M I V L P G G M P G A K N
UniRef90_D8MTY3 V L R T N A G F S I V A E H G L E A L Q E A E M V I V P S W T D P A
UniRef90_H1D0R9 P V S N E K G L V V M T E A L S S P G P G D L L I P G G M G S R Q
UniRef90_UPI000348AB69 R I A G D G L A Y A V D D G L D A L D W A E T V F V P G Y R F P A D T
UniRef90_D4E0X3 G P L R T N A G F S I J A E R T L S A L E Q V D M V T I P S W N D P A
UniRef90_H1UK63 K N I R S S C G F S L R A D L L L S D V S T K C V D T L L V A G A P D A A A
UniRef90_A0A024JQB1 E I Q A R E H D L E P A G R F S V D R V S D A E F D G L V L P G G T V N P D K
UniRef90_UPI000469D64B V I V R S K I G F S I N V E H D L S F A A E A D L V F C P V P R E V W
UniRef90_UPI00039556E1 G P L L S D I G M E I H T E H Q L D A L A H S D I I V V P Y W R T I D E
UniRef90_R9APH6 T H A V C T R G V K I L P D V L L D N L S D D D L H S I V V V P G G V P G A N T
UniRef90_S5YCI7 D G H G I A R C S N G T A L A I D S G L E E G S R E D T I L V C G G L H V A
UniRef90_Q1QJ72 A V T S I N G V S S F E A Q A S F S Q T P A L D I L W V P G G D P V A L Q T I M
UniRef90_A5FVT5 S A S G G P V R S S G A V L G S E P A S A A G A L D T L I V T G R G C R R A
UniRef90_UPI0003AAA8B1 N E I T S H Q G L Q F S N I K A P P D T L E D N A I I V G A S H Y N D T I Y S
UniRef90_H2ABF1 K E V T G K H G E K V K I D Q A I S D A D P K E F D A L L P T G G F S P D L
UniRef90_U7G499 P V R C T P S I R M A V D A S I D Q I D K V D L V V I P T I G A P I E Q V
UniRef90_I3XFB4 E V K S S A G F G V L T K A F D E T P Y D T V M F G A G A T I
UniRef90_B5QN61 K Q L I T G K H G A T A T I D T T I T D V K P E D Y D G L L P G G G F S P D E
UniRef90_G1Y4D1 P W N H T D W G E T V E A D L R I A D T K V E D Y Q A V V L P G G Q I N P D L
UniRef90_T0R8P2 A G T I W T N P P M A G T P M V A S H S F E S A P R V D I L L L P G G L G T D V
UniRef90_I0GXT6 E I Q A R V N H M D K A G T Y P V E K S V S D A D P Y D A L V L P G G V A N P D F
UniRef90_I4EHK8 Q A M R G D E K A G S Y P V D L T L D Q A N P D D F D A V L L P G G A L N A D A
UniRef90_L9YYS9 D L V T A S H G L R V E P D G T L G N P D I L L V P G G G W T T E A
UniRef90_G0N4R2 K P V K C A K G A Q I M P T A A F D D V K D K K Y D I V I P G G P G S N T
UniRef90_G8RSZ3 K P L R T S V G A T I L P H G L D D V L V G A D L V A I P A I G S S D Y L P E A
UniRef90_A7IEV1 P V R N S L G F A I E T A P F G A Q I H D T T I T I G S L V V K P S A P A
UniRef90_UPI000362F2E1 P Q T T S I G L G L T A S E A L P D Q L P D N T L F F V P S S H D V R Q S M R
UniRef90_K1N7F0 S P V R A R A G L K I D P D S F L E N H P E I D C L I V P G G V V S A E L
UniRef90_UPI000361DFFB V F T V I G R N R D A V K A R A G L K I E P D H T L A D H P A I D C L I V P G G V
UniRef90_UPI0003C7FD66 P I Q T V E G D T P K Q K I D V D G T Y D V A A V D A V I V P G G T V N A D R
UniRef90_A9AKK7 D V R S S L G L A I A T R P H G L D D V L V G A D L V A I P A I G S S D Y L P E A
UniRef90_UPI000360F04B T H T T G G F A V I A E A G P E Q L S R A D T V I V P G S E P P R R Q P E A
UniRef90_UPI000374642A K E L K G K G T I A Y R S H L A K E A N P D D Y E A V V P G G Q S P A A
UniRef90_M3DY57 S V R A S T G F T L Q V E H G L E R L E T A D L I T V P A G A S Y A S R
UniRef90_X0Z9R3 K T Y A G K H E I A V S A G S S F I E A S L D G V K A V V I P G G L A P D R
UniRef90_J0D7L7 D I T V A S C G L V I K P G S T Y A R E L A A G T Q Y D V L L V P G G M S P
UniRef90_A1RPN8 M L L P C D A G V N L P G N Y D F H C P L I D I L L V P G S A N P L A
UniRef90_K9D9X5 E E I Q G F N H L T P D Q K F K V E Q D A R P G D Y D L L L P G G V A N P D N

UniRef90_W4JQV7
UniRef90_UPI00046A455C
UniRef90_G2MK10
UniRef90_UPI00037E58BE
UniRef90_A0A023X287
UniRef90_UPI00035C92C8
UniRef90_G4TP46
UniRef90_K3X676
UniRef90_R9N3B0
UniRef90_I2ERH8
UniRef90_L0LT09
UniRef90_UPI0003D2E006
UniRef90_G2I427
UniRef90_D5ZYP2
UniRef90_W5W3G9
UniRef90_U2RNJ1
UniRef90_D4AKW3
UniRef90_C7D5J3
UniRef90_V3T479
UniRef90_A0A031IW95
UniRef90_V4XRE3
UniRef90_G2S317
UniRef90_C3G589
UniRef90_UPI000289101B
UniRef90_F0LEX7
UniRef90_Q4U192
UniRef90_R6BK05
UniRef90_M6D3H9
UniRef90_J2IZ98
UniRef90_W1S5K2
UniRef90_D8MKC4
UniRef90_W0UJZK7
UniRef90_D2PRV2
UniRef90_Q825K3
UniRef90_Q39SZ0
UniRef90_U2Q212
UniRef90_UPI0003B47FF0
UniRef90_UPI000262A2BF
UniRef90_L8PMH1
UniRef90_F9FIY9
UniRef90_G2PE64
UniRef90_R4SZF8
UniRef90_A0R3R0
UniRef90_R4JXM4
UniRef90_I4BE03
UniRef90_W3ADJ9
UniRef90_K9NK03
UniRef90_C6B5B2
UniRef90_A4XCG4
UniRef90_U7D857
UniRef90_D4X5Q4
UniRef90_G2GN04
UniRef90_W8QJQ4
UniRef90_E1PKD2
UniRef90_G4L5U9
UniRef90_D8MTY3
UniRef90_H1D0R9
UniRef90_UPI000348AB69
UniRef90_D4E0X3
UniRef90_H1UK63
UniRef90_A0A024JQB1
UniRef90_UPI000469D64B
UniRef90_UPI00039556E1
UniRef90_R9APH6
UniRef90_S5YCI7
UniRef90_Q1QJ72
UniRef90_A5FVT5
UniRef90_UPI0003AAA8B1
UniRef90_H2ABF1
UniRef90_U7G499
UniRef90_I3XFB4
UniRef90_B5QN61
UniRef90_G1Y4D1
UniRef90_T0R8P2
UniRef90_I0GXT6
UniRef90_I4EHK8
UniRef90_L9YYS9
UniRef90_G0N4R2
UniRef90_G8RSZ3
UniRef90_A7IEV1
UniRef90_UPI000362F2E1
UniRef90_K1N7F0
UniRef90_UPI000361DFFB
UniRef90_UPI0003C7FD66
UniRef90_A9AKK7
UniRef90_UPI000360F04B
UniRef90_UPI000374642A
UniRef90_M3DY57
UniRef90_X0Z9R3
UniRef90_J0D7L7
UniRef90_A1RPN8
UniRef90_K9D9X5

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

UniRef90_W4JQV7
UniRef90_UPI00046A455C
UniRef90_G2MK10
UniRef90_UPI00037E58BE
UniRef90_A0A023X287
UniRef90_UPI00035C92C8
UniRef90_G4TP46
UniRef90_K3X676
UniRef90_R9N3B0
UniRef90_I2ERH8
UniRef90_L0LT09
UniRef90_UPI0003D2E006
UniRef90_G2I427
UniRef90_D5ZYP2
UniRef90_W5W3G9
UniRef90_U2RNJ1
UniRef90_D4AKW3
UniRef90_C7D5J3
UniRef90_V3T479
UniRef90_A0A031IW95
UniRef90_V4XRE3
UniRef90_G2S317
UniRef90_C3G589
UniRef90_UPI000289101B
UniRef90_F0LEX7
UniRef90_Q4U192
UniRef90_R6BK05
UniRef90_M6D3H9
UniRef90_J2IZ98
UniRef90_W1S5K2
UniRef90_D8MKC4
UniRef90_W0U2K7
UniRef90_D2PRV2
UniRef90_Q825K3
UniRef90_Q39SZ0
UniRef90_U2Q2I2
UniRef90_UPI0003B47FF0
UniRef90_UPI000262A2BF
UniRef90_L8PMH1
UniRef90_F9FIY9
UniRef90_G2PE64
UniRef90_R4SZF8
UniRef90_A0R3R0
UniRef90_R4JXM4
UniRef90_I4BE03
UniRef90_W3ADJ9
UniRef90_K9NK03
UniRef90_C6B5B2
UniRef90_A4XCG4
UniRef90_U7D857
UniRef90_D4X5Q4
UniRef90_G2GN04
UniRef90_W8QJQ4
UniRef90_E1PKD2
UniRef90_G4L5U9
UniRef90_D8MTY3
UniRef90_H1D0R9
UniRef90_UPI000348AB69
UniRef90_D4E0X3
UniRef90_H1UK63
UniRef90_A0A024JQB1
UniRef90_UPI000469D64B
UniRef90_UPI00039556E1
UniRef90_R9APH6
UniRef90_S5YCI7
UniRef90_Q1QJ72
UniRef90_A5FVT5
UniRef90_UPI0003AAA8B1
UniRef90_H2ABF1
UniRef90_U7G499
UniRef90_I3XFB4
UniRef90_B5QN61
UniRef90_G1Y4D1
UniRef90_T0R8P2
UniRef90_I0GXT6
UniRef90_I4EHK8
UniRef90_L9YYS9
UniRef90_G0N4R2
UniRef90_G8RSZ3
UniRef90_A7IEV1
UniRef90_UPI000362F2E1
UniRef90_K1N7F0
UniRef90_UPI000361DFFB
UniRef90_UPI0003C7FD66
UniRef90_A9AKK7
UniRef90_UPI000360F04B
UniRef90_UPI000374642A
UniRef90_M3DY57
UniRef90_X0Z9R3
UniRef90_J0D7L7
UniRef90_A1RPN8
UniRef90_K9D9X5

130
140
150
160

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

UniRef90_W4JQV7 F P F A L T L I E 170 H L C G A T K R E E 180 V Q G P M M F
UniRef90_UPI00046A455C I D C C L H L V R R D H G A E V A N R V A R R M V V
UniRef90_G2MK10 L D L A L G L V K R E F G E A I A D D V A
UniRef90_UPI00037E58BE I D L A L G L L E N L K G P L F T H K V A R E L V V
UniRef90_A0A023X287 P D F C R E L V A A L S G E
UniRef90_UPI00035C92C8 I D L G L Y I I E W L A G V D A M L E V K Q Q L
UniRef90_G4TP46 F P F A F K I V E L L C G E A K V K E V R S P M I F
UniRef90_K3X676 M A M A L K L V E L L R G E K I A Q E L S K S I
UniRef90_R9N3B0 I E F A L M I V E Y F V D K N A A D A M A E K I V
UniRef90_I2ERH8 I D M S L Y V V S K L Y G Q S A A S D T A T Y I
UniRef90_L0LT09 I D L S L A L V E A D L G R S S A L S V A R E L V V
UniRef90_UPI0003D2E006 L D L C L H V V R Q D F G A K I A N Q V A R R L V I
UniRef90_G2I427 I D L A L A L V G H D L G Q S A A R Q A R Q M V V
UniRef90_D5ZYP2 V D V C L H L V R E D H G S R L A N T V A R C V V
UniRef90_W5W3G9 I D L C L H L V R R D L G S A A A N Q I A R G L V
UniRef90_U2RNJ1 L D A C L H L V R R E L G S A A A N A I A R N M V V
UniRef90_D4AKW3 T D A M L A F I G M V Y G R E Y A Q A I A K R M
UniRef90_C7D5J3 I D L M L K L V A D E H G E E L A N A V A D Q L I
UniRef90_V3T479 F D F A F T I A S R L T G D
UniRef90_A0A031IW95 I D L A L G L V E Q D L G A D A A L S L A R Y F T V
UniRef90_V4XRE3 L D L A L H V V E E A A G G T V A A Q V S E
UniRef90_G2S317 I D L C L H V V R R D F G M E A N R V A R R L V I
UniRef90_C3G589 I D L G L W I T E K F A S S K I A A A V E Y R M
UniRef90_UPI000289101B I D L C L H I V R T D H G N E A A G A L A R R L V V
UniRef90_F0LEX7 I D L G L S L V E E D L G R E I A L Y V A R R L V V
UniRef90_Q4U192 L D L A L A M V E E D L G R E I A L A V A R D L V I
UniRef90_R6BK05 I E F G L E L V S C L A G E A T A R Q L K E E L
UniRef90_M6D3H9 I L M S L H L V E K L V G K K I A E F T A R R M
UniRef90_J2IZ98 I D L A L H L I N R L R G P E T A L A V A R E M V V
UniRef90_W1S5K2 P A F V E A F R K A M T E S A T A
UniRef90_D8MKC4 I D F A L V V I A E I A G E E M A Q S I Q L G L
UniRef90_W0U2K7 I D C C L H L L R R D H G A E A A N K I A R R M V V
UniRef90_D2PRV2 I D A C L H L V R R E L G S A V A T R I A R R M V V
UniRef90_Q825K3 V D A C L H I V R R D H G S A L A N S V A R R C V V
UniRef90_Q39SZ0 P A F M R E L M K K L K G
UniRef90_U2Q2I2 L P F A Y L V D L L G G D S E A L K K G M L
UniRef90_UPI0003B47FF0 I D M S L H L V S G L H S N D L A E K T A R Q M
UniRef90_UPI000262A2BF I D L C L H L L R R E S G M A V A N H A A R R L V
UniRef90_L8PMH1 L D L A L R L V R R E L G V D A A L G L E S M L
UniRef90_F9FIY9 I D M I Y A F I A E Q Y G F E I A D D T A D G
UniRef90_G2PE64 I D L C L H L V R R D L G A V V A N E I A R G L V
UniRef90_R4SZF8 L D L T L A L I E D D C G P T L A R E V A R E L V
UniRef90_A0R3R0 L D L C L H M I R S D F G A V A N E V A R G T V
UniRef90_R4JXM4 M D V A F K L L E L L T S K E K S D F I R E I M
UniRef90_I4BE03 I D L G L W L A G R I G G E A K A K A I Q L S M
UniRef90_W3ADJ9 P D Y M R E F I K
UniRef90_K9NK03 I D A C L H L V A R D F G T Q V A N S V A R R L V M
UniRef90_C6B5B2 I D L M L H I V A E A A G H A C A L A V A R Y L V V
UniRef90_A4XCG4 P A F C A T L I S E I A D
UniRef90_U7D857 P E Y M Q A F L A A L
UniRef90_D4X5Q4 P A F S D A F I K V L Q G A K
UniRef90_G2GN04 I D M G L T L V G R I A G D E R A R T V Q
UniRef90_W8QJQ4 P A F N R E S L K L L A
UniRef90_E1PKD2 I D C C L D I R Q H Y G S A V A N R V A R R M V V
UniRef90_G4L5U9 L A F S Y Q L V D L L G G N S D E I K E A M
UniRef90_D8MTY3 I D C C L H L V R K L R G A D V A N S V A R L L V V
UniRef90_H1D0R9 I D M A L G F V A D R F G R E R A L S L A E S M
UniRef90_UPI000348AB69 I D L C L H I V R Q D H G V A L S N H V A R R L V
UniRef90_D4E0X3 I D C C L H L V R Q Q C G A E V A N T V A R Q L V V
UniRef90_H1UK63 L D L A L S L V R E D M G E R I A R D V A R Q L V L
UniRef90_A0A024JQB1 P A F C S T I I K F A
UniRef90_UPI000469D64B I D A C L H L L R Q E L G A E I T N R I A R R M V V
UniRef90_UPI00039556E1 I D C C L Y I F R K F Y S S T I A N R V A R R M V V
UniRef90_R9APH6 F D F V L T L I E I T A G K Q K R N D V A G P M I F
UniRef90_S5YCI7 I D L M L R Q I S R D Q G S D L A A R V A D Q M I
UniRef90_Q1QJ72 L D E A L K L I S L L F G D K S A E Q V Q
UniRef90_A5FVT5 I D L S L A L I A G D L G E A V A R R V A Q E M V V
UniRef90_UPI0003AAA8B1 L D L A L H L I E R Y F G Y E M S L Q I A R D L V I
UniRef90_H2ABF1 E A F N R E S L N L L K
UniRef90_U7G499 R D L T I L L V E R Y C G P D L A R E L S R A F V I
UniRef90_I3XFB4 I D L A L A M I E K D H G Q D V A R S V A R K L V V
UniRef90_B5QN61 P E F N Q A M L A Q L K
UniRef90_G1Y4D1 P A F V A K L I E
UniRef90_T0R8P2 I D M A A A F L T A V V G I E R V Q P I
UniRef90_I0GXT6 P A F C E A M L D Q I A
UniRef90_I4EHK8 P A F N Q A M I E L F
UniRef90_L9YYS9 I D L A L W L L E R E F D A T I A A A V E T E M
UniRef90_G0N4R2 F E F A L K I V E I M E G K E K A E S L K K P I
UniRef90_G8RSZ3 I D A C L H L V R R E L G S E V T N K I A R R M V V
UniRef90_A7IEV1 I D L A L A L V E D D F G Q E V A K A T A R N M V V
UniRef90_UPI000362F2E1 Q D M T L H L I E E V C G P Q I A A D V A Q E A V I
UniRef90_K1N7F0 I D M S L H L V E R L K S R E L A L L T A K Q L
UniRef90_UPI000361DFFB I D M S L H L V E R L H S R E L A V R T A R Q M
UniRef90_UPI00037FD66 P A F V D A I G A A L
UniRef90_A9AKK7 L D L A L A M V E K D L G A E A A R S T A H K L V M
UniRef90_UPI000360F04B I D L C L H I V R R D L G A V V A N R I A R G L V
UniRef90_UPI000374642A P A F I K E I I D K I
UniRef90_M3DY57 I D A C L H L V R K E Q G P E V A N R I A R R M V V
UniRef90_X0Z9R3 P H F L P A L L N A V K G
UniRef90_J0D7L7 M D M T I A F I T H L S G P T V A A Y V
UniRef90_A1RPN8 L D F A L A L I A N I E G E Q Q A K T L Q
UniRef90_K9D9X5 P A F N E A I Q K Q L

UniRef90_UPI0004675EE1 1 H R V V V L L A L E G V Y P F E L G I P N R V F G A V P Y E V V T C S V D G P 40
UniRef90_W5IQN4 F L L L P G F S L M G F I S A V E P L R V A N Y R W H L L S V D D G G G
UniRef90_UPI000050FD02 S D K K I A F L L T S G V E Q V E L T S P R T A L D E A G A T T V V S V S E S
UniRef90_D7W9N9 N K T I A I L L S T N F D D S E L T S P R D A V H E A G A T T V V V S T E S
UniRef90_UPI00035FF550 K R I L T V V S N D F D D L E L W Y P L R R L R E A G A R V D I A G E V I A G
UniRef90_UPI0003613386 K A L F L I A D G Y E D Q L D F F H P Y Y R L S R E E G I T V J A A A T N A
UniRef90_K5YU66 K I G G L I F P N L D Q C Q F F P F E A L S R I P N S T F Y T L W K D K
UniRef90_Q9YFC2 R A L I I S A D G F E D V I E L L Y P Y Y R L V I E A G F E T L V I A A P S R
UniRef90_UPI0003B41420 G K K I A V L L T T N G V E Q P E L T Q P V A A I Q E H G G T P V I V S P E E K
UniRef90_A6FRQ3 A P R R F V F V L L D N F T L V S F S A A V D S L R I A N Y E W K L A G E P E D
UniRef90_I4ETQ5 G K R I A V L L A K G V E Q V E L I E E P R K A V E A A G A T T H L L S V P D G N
UniRef90_B6K6R6 K V C L F V A D G S D E L I E F S A P Y G I F T R A N T P I D T V Y V G D N
UniRef90_D9VG25 S S H R V V M I V G D G S N P F E M G V A T E L F R R P W Y D F A L A A P G G N Q
UniRef90_G9EE02 R R V A F L L L P G F S L L I T H A S A L I E P L Q M A N Y Q T V T L S L N D E T
UniRef90_I0K2M9 H R V A V L L A L D G V I P F D L G I P A R V L S E A H Y D L V T C S L D G T
UniRef90_I3IH00 K I A V L I L E D H Y Q I L E V W Y P Y L R L R E E G I E T V F V G T G T K
UniRef90_A0A023X755 V A L V V F D G M P A F E M A V P C E V F G T P N Y R F M V C A A E P G
UniRef90_UPI0003675DD1 N K K V I A L V D E D F E D L E L W Y P V L R L R E E G A T V H L V G K E A N D
UniRef90_Q65FN6 G K K V I A L V S D E F E D L E L W Y P V L R L K E E G A L V H F I L G E K A D
UniRef90_A9DZA8 K I I L L A T D G F E Q S E L E K P L N D L R A R G A T V H V A T P D G N
UniRef90_UPI0002556C1C T I G F L L L D N F T L T I S L A S A L E P L R M A N Y R W Y T I T L T G E
UniRef90_L7ZFB2 V Y F L L L P N V L S L D V S G P A E T L R L A G S F S F A L A A P L S P A
UniRef90_E8RSB6 V C A L L A F D G M P L F E F S I A V I E L F G L E W Y R F Q V V N V E D G
UniRef90_UPI0002E36893 T I G I L L S P G F G M L C L S N S T V F E F A N Y R V D L I S E H G
UniRef90_E8XSL2 R N V I F V T L P G V M S L D L T G P A E A L R L S G Q F R L H Y I G P Q
UniRef90_S9SZV5 S G K R I V A F V D E E F E D L E L W Y P V H R V R E E G A E V H L V G L E R G
UniRef90_F7SZT5 A P H R I A V L L A F D G L V A G D L A A P C E I E Q L A E T L D G R R P Y D
UniRef90_A0A017SUC1 V G M V L Y P G F T L D L D L V G P Q A V L G L H G Q T H L L W K T R V
UniRef90_G8S5Q2 G H K V A M F L M P G A A P L D V G I P A Q V F A R H G L D Y R A V P C A E A
UniRef90_T3D527 K I L V F L A K G F E T M E F S V F I D V M G W A G C D D V V T C Q H G K
UniRef90_UPI00036EDA49 R V S F L V F S D F Q I L D V T G P V A V F E T A G Y D L E L V S Q F G G
UniRef90_I9N889 T I L F Y L T P E F T M L A F S S A L E S L R L A N Y D W R L V S S D G K
UniRef90_A3PJ22 G K T I A I L I A P G T E D V L Y V R P K E A L T Q A G A T V V T V S L E P
UniRef90_C3PET1 R L A V V L F E G F E L L D V Y G P V Q L L Q V V S E V T V V F A G P D G
UniRef90_R5RGC1 R K A A V L V V D G Y E E S E T V T I V D L L R R A G I E C H T F G F A E
UniRef90_Q26C05 V G F L V M D G T F N T E L T A P Y D L F E Q H T F R N T F T V A Q T N
UniRef90_V8CRV8 S G Q K I A F L V A P G V E Q V I E L T E P W E A V K K A G G T P S L S L E S G
UniRef90_D0SXB4 K K V L F I T S N G I E H D E L T E P L N F L K S K G F E V I H A A L E K N E
UniRef90_F7Z9V4 R T M A A L V F P G F E T L D Y F G P M E M L G G A G T E I I T V A Q S R
UniRef90_A0A024RGY3 H R I G F L I S D G F Q I M A L A A Q S V F E Y A N L S V A F Y A L Q S Y
UniRef90_UPI0004416C70 L I L I A E G T E E M F V I T Y D T L V R A G V Q C T S A Y V T D T
UniRef90_A3YGC6 A S A K I G V I V F D G V L T S D V T A P I E V E G A A D Y E V V V V S A T K N
UniRef90_R9PD41 L I L I A E D G T E E S E F T I V Y D L L V R A S V S T T S A S S C
UniRef90_R4XLT1 V Y F V L P R G I V L L D V A G P A E A F R V A N F A Q H F C G P S T E
UniRef90_G4RD77 G K S V A I L I A M D G T E E P E F S K P K Q A I E E A G G K V T V V S F E T G
UniRef90_R4XZC1 V A I L V M D G F E E Q V E L T P R D A L R A Q G A R T V I V S A R H G
UniRef90_UPI00035DE045 R V Q L L M F D G V E E Q D F A G P L I E V L A L A P V I T M T M V T A D R P
UniRef90_UPI000468E675 R V D L L L F P E V E I L D F A G P P Y E V E S H A A F E V R T V A A S A S
UniRef90_I9C2A6 H V A M L A Y P K L T Q L D T G P Y E V L A R F P E L S I D L V W K S L
UniRef90_V6KLU0 H R V V V I V D E N S N P F E L G C A T E V F G R E L Y D F H L C S P E P
UniRef90_E6ZM31 L I L I E E G T E E A E Y T I T Y D V L V R A S S V T S A T P H S A
UniRef90_UPI000299DBD0 S G P R I L I F V G D D Y E D L E L W Y P K L R L I E A G C R V T V A G A N A K
UniRef90_UPI00047599CC H R V A V L V L I E G A K P L D V G I P A Q V F A S M P Y E V R V C G A A P G
UniRef90_G4YST3 R A L I V V A D G S E E L E T L A L S D V L T R G G L H V V V V G R T K N
UniRef90_U3BKP3 A D K R I G I L V Y D G V L T S D V T A P L E V F G V A D Y D V L T I S V S D Q
UniRef90_V5UKH4 R Q V G L I L E D G F Q L M G L A A L T A F E F A N A E L G A Q G Y R L T G
UniRef90_D8RAE6 V A I P L F N N I T V L D A I G P Y E A L H R L G V S V T F V S D K L G
UniRef90_F7XP85 K A I I F A A D G F E D L E L F Y P Q H R L K E E G I S D V K I A S M Q K
UniRef90_A0A023J5V5 K N V A I L I F E D V E I L D F C G P F E V F R D T N L N V Y T V A E K I
UniRef90_WOLEF1 K A V Y F L M L P N V L S L D V I S G P A E V L R L S S Q F Q L H Y S P V
UniRef90_D0L713 R R V L I V G Y P A A E L V I A C V V S A L Q I A N Y Q P R L A S P G N
UniRef90_G9Y3D5 V Y F L V L P N M M V L D I V G P S E T L Q L A G D H F K I H Y I S P K
UniRef90_UPI000466BAC6 T S R R F V F V L L D R F T L S F A S A L I E C L R I A N Y E W L L I G E G G
UniRef90_UPI00047B35FA S S H R V V M I V E D G S N P F E L G V A T E L F G R P W Y D F T L C A P G P I
UniRef90_K0JV17 S S H R V V M I V D N G S N P F E M G V A T E L F G R P W Y D F T L C A P G P I
UniRef90_K9WWT3 N K K I A F L I E H G V E D V I E F T V P Y N G L R Q A G M E I V V L G S R M N
UniRef90_Q21DM0 A D K R I G I L V Y D G V L T S D V T A P L E V F G I A D Y Q V I T I G L T P A
UniRef90_A7I8I8 K K I A V L I T D M F Q D V I E Y Q R P V D A F R N A G H T I V H V G L V I A G
UniRef90_UPI00035D6CBD K V G I F L F D G V E P T D F I P Y D V I F T A A M Y D V E T V S E T K K
UniRef90_G7VW62 S K K V A G I L A N E V T E F D F L V P Y E M F S M T G S Y N V F A A P D K
UniRef90_E8TI01 I A V L L A F D G I S P F H L S V P C L V F G E P R F D F R I C A V K A G
UniRef90_UPI000468B34F R R I G F L L T P G I A L M S Y A S A V E P L R A A N Y R W R H I A I R G S
UniRef90_E3HNS5 H T I A V V A F A G I S S F H L S V P C M V F G D D L A R L G V P R Y R
UniRef90_UPI000372E7F2 V A V V L D G V H P F E L G V C E V F G L P A Y D F A V A S A E G P
UniRef90_UPI00037B7A3B G K V A V L V Y D G L C T F E F G L A Y E V F G L A N W Y R F R A C G V I P
UniRef90_K5ZGC1 H Q I G L F V C P N H Q T L D L A G P L A A F E K A N G F V E G N P Y R
UniRef90_UPI0003674018 R T V S V V T E P V S V F E L G L A T E V F G E F D F R V C A A V P G R P
UniRef90_Q2NV90 K S I L L C L A D G S E E T E A V T T F D L L V R A G M Q V R A A S V D G G
UniRef90_I3DW57 K V A F L F L D K M T L D F I T G F Y D R L K T M G F N E D L S W N L C
UniRef90_B8CVA2 R V L A L V F D D Y E T L D L H G P I E M L G M P N V I E I K L V G P T E F
UniRef90_D6V5V7 I G S L L F E G D L D Q L D L T G P F E L L S R M P N S T Y R L Y S G K T T
UniRef90_UPI0003658A98 H R I G F L L S D G F Q V M A L A T Q A V F E C A N Y E L D N F S V D G G
UniRef90_Q5WKN5 I Q I V L F D G F D L L D A I A P Y E V F H A A N F S V E F V T A E G P
UniRef90_A4A717 V L Y P G F E M L D Y F G P L E L F S V L G T I H T V A E T G A
UniRef90_R4WTL6 H R I G Y L L S D G F Q V M A L A S Q S V F E Y A N A G I T F Y R I E N Y
UniRef90_F9TV12 I G I Y I Y E Y A E P T I D F T G P Y E V F A A A N Y D A Q F L P Y E S G
UniRef90_L7EGU1 S D K S V L L L A E D E F E D L E L Y P L R L R E E G R V I V V G T G L K
UniRef90_K4QXH5 H R V A V I V D E G T N P F E V G V A T E L F G L P R P E L G L P G P L Y
UniRef90_W9GP27 K K I A F L T A N G V E Q V I E L T E P W K A V T D A G H E A V M L A P D S G
UniRef90_V5XHY0 V A I L V Y D G M T G F E S G L A A E I F G M A E L P G R F V A S A P A G Y
UniRef90_UPI0003663D93 K N V A V V L D G V H P F E L G V C E V F G D E G L P V Y A V A S A E G
UniRef90_A0A011QW37 S K Q V A V V I T K L F E D V I E F T S P K E I L E K A G H A V T I I G F E A G

UniRef90_UPI0004675EE1 T V R T N S D F S V T V A H G P E V L R T A D T V V L L P F F D L S L L T R E P
UniRef90_W5IQN4 P V L A S S G M S M N A D G A L E A L R T A D T V V L L P F F D L S L L T R E P
UniRef90_UPI000050FD02 T L Q A M E G D W E H A K T F D V D V P V S V D D F D A L L V L P G G T L N S D A
UniRef90_D7W9N9 G S I E G K N G T E V A S K T F D T T S E A N A A D Y D A L L L P G G T S N A D Q
UniRef90_UPI00035FF550 L T Y Q G K F G L S V V S D A S F D T V D T Q Y D G I V I P G G W A P D Y
UniRef90_UPI0003613386 Q S A E G L H G Y T V E P D M P I E E L S P N E Y E I L L I P G G R S P E K
UniRef90_K5YU66 N I V R D M Q M Q L V P D M T S F E D A P Q L D V L L I P G G Y G Q E E
UniRef90_Q9YFC2 G E I K G K M G Y K V E A K L S F E E V K P E E F D V L V I P G G R A P E R
UniRef90_UPI0003B41420 Q L Q A M E G D W E H A D H F D V D V A A D P N D Y D G L V L P G G T L N A D T
UniRef90_A6FRQ3 G R V S C S A G A V F Q T D M G L D E L N R D D T L V I P G G A D V Q R
UniRef90_I4ETQ5 V E D G A V Q A V T T F P V D A L V S D V S P D D Y D G L L L P G G A V N P D T
UniRef90_B6K6R6 K D V N M S R G I Q L Y A K R S L S E F Q S T E E Y D V A I I P G G W Q G S L T
UniRef90_D9VG25 V R M H L G F F T L A D V A G L E A V D A A D T V I V P N R P D Q T
UniRef90_G9EE02 P V R S G A Q L S L T A Q H E L S T A L G P L D L L F I C A P T P L P Y T
UniRef90_I0K2M9 Q S Y H T N A G F T L Q V R H S D R D A L A Q A D T L V V A T Q E P S T A M L T A
UniRef90_I3IH00 K S Y E S K E G Y P A Q E E L S I K N I N T H D F E G V I I P G G Y A P D V
UniRef90_A0A023X755 P L L T A G G M T V E A P F G L A D L R Q A D T V I V P A W R D P D
UniRef90_UPI0003675DD1 K Q Y L G K Y G V P A E S E Y A F S D I N A E D Y D G L L V P G G W A P D K
UniRef90_Q65FN6 H E Y K G K Y G V P A V S Y E L S K S V N I E E Y D A V L V P G G W A P D K
UniRef90_A9DZA8 G I K G W D D W G D T T P A D L A L K D V V V D D Y H G I V L P G G Q I N P D L
UniRef90_UPI0002556C1C T V S A S D G L N I S P D A S L S S V P K L D S V I V C G G V D I Q R S
UniRef90_L7ZFB2 P Q V V C S I G M T L S G L Q P L S P E R L E D G A I L V L P G V G S Q R Y F A
UniRef90_E8RSB6 P C R T T A G L S L T A T G P R E W L E T A G T L I I P G W P L D K P I P E H
UniRef90_UPI0002E36893 L V P S S M G F S V E T Q A F G Q R S Y D T V L V L G A E N F S L
UniRef90_E8XSL2 P E V M M S T G L M V S H L Q P L P Q S L P E G S I L I M P G V A E S A E N F S
UniRef90_S9SZV5 K T Y I G K Y G V P A T S D Y A Y A D I D A T Q Y D G V L V P G G W A P D K
UniRef90_F7SZT5 Q V C A S K P R V R T H A Y D L H I R A R L D T A R H A H T V I V P G L A D P S
UniRef90_A0A017SUC1 P V V S D S G P A M L P T T T F A A C P E D L D I L F V P G G M G T A D A
UniRef90_G8S5Q2 G P V R G R D G L G F F V D A G L E A L D V D A D T V I V P G F L N P A
UniRef90_T3D527 N K V M S T F N I P V F V D K T I E E V C V D D Y D A L A I V S G F F G F Y E
UniRef90_UPI00036EDA49 L I K S S S G I Q L Q T R R W D E V E E D V L I V S G G L G T R S
UniRef90_I9N889 P V K A S C G I S I A T D I S L T Q A R A M L V N G A P P R M A M V C A G R N
UniRef90_A3PJ22 E A Q T V N G D L D P R A T H R V D R T F A D D G F D G L V I P G G T V G A D K
UniRef90_C3PET1 E P V A S S Q G V E V V P T I S Y E R V E P T D A L L V P G G K G T R Q
UniRef90_R5RGC1 Q Y V R G M Q G M M I K V D K I F S D E I K N Y D M L V L P G G R P G G V N
UniRef90_Q26C05 D I T T T F E G L R L Q P D Y S F D D V P Q Q I D L V V P S A E H A L D S
UniRef90_V8CRV8 Q I Q A F N H L D K A D Q F A V D K V V V P S A D F D A L V L P G G V A N P D N
UniRef90_D0SXB4 D V A T V K G D T K A A T Q Y T P D T S F D H N D Y D L L V I P G G T V N A D T
UniRef90_F7Z9V4 E A V P S V H G Q R I V V D K T I A E K N D Y D L L F I P G G V D S A L E A
UniRef90_A0A024RGY3 S V E G G D V R S S L G L V A T R P L R G R I D V D T W I V A G V N D P V A S
UniRef90_UPI0004416C70 P H A T C S R G V R I V P D A F F N D D I A S D A F D A I V V P G G A K G A E T
UniRef90_A3YGC6 K T I K T E E G L T I T A D K T I Y D P L T D V V I V A S A Y N M S P V
UniRef90_R9PD41 N Y V T C S R G V R I V P D L T L T D L T K S F D Y D C I V I P G G A G G A K A
UniRef90_R4XLT1 V E S G I P G L H L A R I Q P L P E K L P P E A L V I V S G V V G K H I R L D
UniRef90_G4RD77 K A R T V N S D L D E G G S Y T I L D K T F K A D D F D G L V V P G G T V G A D K
UniRef90_R4XZC1 D V Q G M R H H D R V Q V D L T F A Q A R E A D R F D A V L L P G G V V N A D E
UniRef90_UPI00035DE045 G R I R A S F G T E I A V G N G W S P G D A D L L V V P G G G Y T N P D
UniRef90_UPI000468E675 P L T A R H G L R L T P D A S F A D E L P C D V L I V P G G V V T Q P L Q D R
UniRef90_I9C2A6 G P I D D A L E L R L T P T R A F A D P P A D I L F V P G G P Q L A
UniRef90_V6KLU0 R T L M R D G F F T L T G V A E L V L A D T A D T L I V P N R P D V E V P
UniRef90_E6ZM31 A Y V T C S R G V K I V P D V R L P D L G K A L Q Y D A I I V P G G A K G A E T
UniRef90_UPI000299DBD0 A V Y Q G K N G Y P C L V S D A I E E V K S T D F H G L I C A G G W M P D K
UniRef90_UPI00047599CC L V T G G D G L S Y A V A H G L E A L E W A D I V F V P G Y R H P D R
UniRef90_G4YST3 N L I M G N Y G L R V Q A E K P I E E C S F E T F E I V L V P G G A G A S H
UniRef90_U3BKP3 K T I T T E E G L K I G V D A W I G D L P E L D V L V L T S S Y D M D A
UniRef90_V5UKH4 I L S E R G G T I R S S M N A G I E T V P I G V M P D T L M V A G E L L P Q E V
UniRef90_D8RAE6 L V V A D E G R F K I E A S A S F E D L P N P D I L V P G G T P K L L P
UniRef90_F7XP85 N R I T G K H G Y T S H V D L R F E D I D P K L F D I L V I S G G K G S P E K
UniRef90_A0A023J5V5 T P I L T Y N K L S V N P H Y S I F D C P E P D I V L I P G G K G S R K
UniRef90_WOLEF1 P Q V T C S I G M T I G V N L P L P A Q L A D G P I L V V P G V A D S T F F A
UniRef90_D0L713 A I H T I G T G L V V N A E I A L E R V R G P I D T L V V S G I G Y V D A
UniRef90_G9Y3D5 Q S V R C S T G M M V G D L K P L P E T L P N G S L L V L P G V T N S L V D F D
UniRef90_UPI000466BAC6 E T A R C S A G T E F R L D G D L J E L T R D D T V L I C G G M D V Q R
UniRef90_UPI00047B35FA Y D F T L S A A G P V A M H A G L F T M S D V P G L D A V T V I V P N R P D P E
UniRef90_K0JV17 T M N S G F F T L S G V P D L S A T D D A D T L I V S N R P D A P T R
UniRef90_K9WWT3 E K Y K G K R G K L T V Q P D G T T E A A L A S E F D A V I L P G G L A P D K
UniRef90_Q21DM0 K T I K T E E G L V L G V D T W V G A T P E D A I I T T S A Y D M D A P V
UniRef90_A7I8I8 S T V K G E Y G T P V L I E K A A R D V T A D D F D A L F I P G G Y S P D R
UniRef90_UPI00035D6CBD D I H V S A G G L V F K A E Y D F S D C P A I D L L V V P G G R I T E A
UniRef90_G7VW62 N I K S L T G G L D V A P H Y T F D E L D K L T G K G P D I I V I P F M I L D
UniRef90_E8TI01 P I H T E A G L T I A A P H G L E G L D G A D I V I I P S W H H L S E P V S P
UniRef90_UPI000468B34F D I I A A S N G V R I Q A D A S I N N A G R L D A I V V C A G G N P Q
UniRef90_E3HNS5 L V C G E A V G P V A T M S G F D I H V P H D Y S A A D T V I V P A W R D P D
UniRef90_UPI000372E7F2 T L T S P A G F T I G T R H G L E R L E E A D L I A V P A G D S Y V H R
UniRef90_UPI00037B7A3B G P L R A A G G L S V T V D G G L D D L E D A D T V I V P G W R A I D
UniRef90_K5ZGC1 L A V I S E F G G T V V G S A G V P Q T Q P F R S M T F A D T V I V I G G I G P
UniRef90_UPI0003674018 M A M K T T T P L S I T P T H G L D A V P G S D L V I I C P T P S G P Y P E E V
UniRef90_Q2NV90 L T I V G S R G V R L L A D A P L A P L A E Q P F D A I V L P S D M Q G A E C
UniRef90_I3DW57 G T K D E I S D D R G I T F K I K E V S P D L S Q Y D L L Y V P G G F G T R Q
UniRef90_B8CVA2 V K S Y Q G P R V V A D V L M D S T Y D D L L L I P G G L G T R T
UniRef90_D6V5V7 D T V R D L R G L R L A A D A L L A D A P Q L D V L H V P G G Y G Q E M
UniRef90_UPI0003658A98 D T V R S L G M V L G A R S V R R E R E V H T W I V A G V I D P T
UniRef90_Q5WKN5 R S V K S G V N D V L L E A K E K L D P T R P G I I L V P G A P D S I P A L L G
UniRef90_A4A717 V A A A I G S E G A V G P K V V A D Y S F A D A P A F D V L L T P G G S G T L T
UniRef90_R4WTL6 S M T G E V R S S L G M K V E T R A V T S R T A M D T W I A A G V N A P L D
UniRef90_F9TV12 D A V T A R H G Y Q V V P H R S I H N H P E L D V L I V S G G V A H E
UniRef90_L7EGU1 D S Y V I G K H G Y T I D I D E N A N T I N P L D Y D G L I V P G G W A P D R
UniRef90_K4QXH5 E V V L C P T R A Y R M N H G F N T T G T A E L D A V D L V V P G R P D N V
UniRef90_W9GP27 T V Q M F N H L D K A D T Q Q V D Q T V G S V D D Y D A L V L P G G V A N P D A
UniRef90_V5XHY0 A V K L C S E Q P E I R M L G G A V V R T S Y G I E D A D T V L I P S V Y R D V E
UniRef90_UPI0003663D93 P T L A T H A G F S L A V Q H G L E R L E T A D L I A V P A G A T Y A A R
UniRef90_A0A011QW37 E T V D G K K G T A S V K I D K S I D E V S P D N F D A L L I P G G F S P D Q

UniRef90_UPI0004675EE1 R P A V A E A L A S I P P G V R L V S I C T G A F V L A A A G M L D G R P A T T
UniRef90_W5IQN4 A C T P A L L H W L R R L D R E G V T L G G T I D T G S F V L A E A G V L L D R H
UniRef90_UPI000050FD02 I R L N E D A V N L V K A F F A A D G K P V A A I C H G A P W I L A E A G V L A K G R
UniRef90_D7W9N9 L R T D E A A V K L V R E F T Q A G D K P V G V I C H G W W I L A D A E A V A S K G V
UniRef90_UPI00035FF550 L R R L E P V L E F V R Y M D A H Q K V I G Q I C H G W V L L S A A G V L A S G K
UniRef90_UPI0003613386 L R L R E E A V N L V R M F A Q D G G L V A A I G H G T Q L L S A A G V L D N K G
UniRef90_K5YU66 A A A D E E V L T F I R K Q S S H A L Y V Y S V C T G T G A L I C G A G V L L H G K
UniRef90_Q9YFC2 V R L H E A A L N L V R H F F E K N K P V A T I C C H G P Q V L T S A G V V S K G R
UniRef90_UPI0003B41420 L R I N E D A Q R F V K A F F D A R D K P V A A I C C H G P W I L T E T A G V V S D G K
UniRef90_A6FRQ3 A T T K K L L N W L R R E A R R G K I G G A I C C C T A A Y V M A R A G L L S D G K
UniRef90_I4ETQ5 L R Q D D D A L A F V K A F M D A G K P V A A I C H A P W T L L E A G T L L S G R
UniRef90_B6K6R6 L S G N K K V Q E L V K E M Y N K P G K R W V A M I C A G S L T A K A S G L G V K
UniRef90_D9VG25 P A D P E I L A A I Q R A D A R G A R L M S F C T G A F T L A E A G V L D D R
UniRef90_G9EE02 L P A K L N D W L R G H Q G R G V A L G G L A G G T E V L A R C G L L D S Y
UniRef90_I0K2M9 G E L D P R V A E L L Q T L H D P A T R V L V S T C T S A F N L A A A G L L D G L A
UniRef90_I3IH00 L R R Y E E I N T F V K T M Q K G K L V A A I C C H A G W V L V S A A G L L K G K
UniRef90_A0A023X755 E T P P P A L L G A L R A C H E R G A R I A S L C C L G A F V L A H A G L L D G L
UniRef90_UPI0003675DD1 L R R F P E V L E M V R S M D Q A K K P I G Q I C C H A G W V L I S A G I L R G K
UniRef90_Q65FN6 L R R Y P E V L E M I R W F N E R K K P I G Q I C C H A G W V L I S A G I L E G R
UniRef90_A9DZA8 L R A N K D A V A L I R K F H D S G K T V A A I C C H A P W L L I E A G I L K G R
UniRef90_UPI0002556C1C V T R E H L Q W L Q Q Q A R Q Q G R H I G A V C T G S W A L A K A G L L D G Y
UniRef90_L7ZFB2 G E E A E Q A R R W L A T L Q R P D L Q R Q R I T L V C I C S G A L L A Q A Y Q
UniRef90_E8RSB6 L K P T G L L P F L Q S A L T T S R R L A S A C T G S F L L A A A G L L D G R
UniRef90_UPI0002E36893 S M V A Q T L C D W L H Q Q A G N L T G V C I C S G S L L A G K A G L L D G Y
UniRef90_E8XSL2 I R R Y A D A L R T V K E M D A A G T P V G Q T C H A G W V L I S A K I L N G R
UniRef90_S9SZV5 H D V P R D I L D F L R D H A A A G A R I A S I C C C T G A F A L A A S G L L D G L
UniRef90_F7SZT5 L E D T E I L Q D L R D H A P A R A R Y V T S V C C T G S L L G A A A S G L L R G Y
UniRef90_A0A017SUC1 G P I D P R V L A A L R T A A F R G A R M V S I C C T G A F A L A A A G L L D G L
UniRef90_G8S5Q2 E A Y D M S F L N L I R E F D L K E K I A S I C C C V A A L P V G K S A S G V L D K N R
UniRef90_T3D527 A I K D K A L L E C I R T F K K L N S L C S V C C S G S L L A A A S G V L D G K
UniRef90_UPI00036EDA49 V Q N H C D R L G W L R E C R N K R V A I G A I C C C T G A H L L A R T G L L N N K
UniRef90_I9N889 I R A S E E A V A F V R G F V S A G K P V A A I C C H G P W A L V E A D V L K G R
UniRef90_A3PJ22 L V I E D E S F L S W L R G V Y G A Q A G P V A A S V C C C T G S A V L A A A G L L E G Y
UniRef90_C3PET1 L G A N P L V I E M V Q Y V N E N G K Y L A A L C C S G T I V L S K A R V L D G K
UniRef90_R5RGC1 D L K N K E I L K W V S G F T G T E A T Y V T S H C D D G A F L L A Q A G L L D D V
UniRef90_Q26C05 L R M N D E A V K F I S G F T T E G K P V A A I C C H A P W T L I E A G V L S D R
UniRef90_V8CRV8 L R I N Q D A V K I I Q H F A D N H K P I A A I C C H G P W T L I D A Q R I K D K
UniRef90_D0SXB4 A K D Q A L M Q W I R E A S A N A E R I V M A V C T G T V L L G M T G V L D G R R K
UniRef90_F7Z9V4 P A P A A V V A F L R R P A S N R A R R I A G V C T G A F V L A E A G L L A G R R
UniRef90_UPI0004416C70 I S G N S R V Q S L I K S F Y D Q G K V V G M I C A G S L A A L S A K L P K Q Q
UniRef90_A3YGC6 L N N E T L D K F I E A D Q H G Q A S W M A S N C S G A M L L A E A G V L D G K
UniRef90_R9PD41 L A E K E S V T D L I A A M Y G K G K I V A A I C C A G T L A L K A A G V L G K D A
UniRef90_R4XLT1 E P E A R L I I D W L R H P A D G F T L M T V C A G A L F A A A G L T R Q R E
UniRef90_G4RD77 L R G S V E A L G F I R A F F D Q K K P V A A I C H A P W T L I E A G V L K G R
UniRef90_R4XZC1 I R L H P D A R E L V R A L H E A G K P V A V I C H G A W L L I S A G L V K D R
UniRef90_UPI00035DE045 G P G V H Q V I K Q Q R T L A A L A A A M T A L C C T G V M V L S A A G L T K G R
UniRef90_UPI000468E675 A T L N W L G A T A V R A Q L L A S V C T G A F V L A E A G L L E G Q M
UniRef90_I9C2A6 L M Q D T D T L A F L R A Q A Q G A R W I T S V C T G S L V L A A A G L L T G Y
UniRef90_V6KLU0 R R P A V L D A V R R A H G R G A R L V I G F C C S G A F T L A E A G V L D G R
UniRef90_E6ZM31 I G A N P D V Q L L A A A Y G A G K V V A A I C C A G S L A L K H A G V G K D A
UniRef90_UPI000299DBD0 L R R D A T P V L K L T R E A F A E A G K L V A A I C H G G W I P I S A N V Y R G V
UniRef90_UPI00047599CC E A P P R T V V D A L T I G A H T R G A R L A A L S T G A F A L A A T G L L D G R
UniRef90_G4YST3 V R D S D L V I K M L L W Q K Q A G R W L A A S S A P A V V L N P H G L L G E
UniRef90_U3BKP3 L J E N K D L I H F I K T T S K A A D W M A S N C S G A Y L L A E A G L L N G K
UniRef90_V5UKH4 S P G L N D Y V A R A G D E A R R V A G V C T G A F V L A Q A G L L D G R A
UniRef90_D8RAE6 L D H K P L L D Y I R K A H F C T T F T S V C T G A L L L G A G L L K G V
UniRef90_F7XP85 M R L D M S A L D I I K H F D E Q K V V A A I C C H G P Q M L I S A R V I K D R
UniRef90_A0A023J5V5 E M N N P T I I N W I K S V S K N A E L V L S V C T G A F L L A K A D L L D N L
UniRef90_WOLEF1 N Q E A A Q A R Q W L S G L Q P A L A Q Q R F S L V C V C S G A L L A Q A Y H
UniRef90_D0L713 M A D A H L L A H V G R L G R L S R R V A S V C T G A G I L L A G A G L L D N R R
UniRef90_G9Y3D5 T E E A L T A L I E W L K G W S R Q E L S I V C T C S G A L L A A R A G L L D G I
UniRef90_UPI000466BAC6 A T T K R M L S A I R R E A A R G K L K L G G L C C T A S Y T L A R A G V L D G K
UniRef90_UPI00047B35FA T A P S A P V L S A I K A A A R G A R L V S F C T G A F T L A H A G V L D G R Q A
UniRef90_K0JV17 P P E D L L A A I R R A R A R G A R L V S F C T G A F T L A H A G V L D G R Q A
UniRef90_K9WWT3 M R L N L N T V R F V Q E A V Q G G K L V A A V C H G P Q V L T E G D L L K G K
UniRef90_Q21DM0 N A S Q A L M T L I Q K T A A K G G V L A S N C S G A F L L A Q A G V L D G K K
UniRef90_A7I8I8 L R A D A N A V R F A A D F F E K K K P V F A T C H A A Q L L T A Q V L K G R
UniRef90_UPI00035D6CBD L L S N P N V I D W L Q N Q S K N A E I T F S V C S G A L L L A K A G L L K E S
UniRef90_G7VW62 E A K Y R P V R D W I R K H S G K E T L L S I C C N G A E N L A D T G L L N G K
UniRef90_E8TI01 L L M E A L R H A H Q R G A L I V G L C C L G T F A I A A A G L L S G R
UniRef90_UPI000468B34F A F D H T P T L F L R K A A R H G V Q L G G V S A G P Y L L A Q A G L L E G Y
UniRef90_E3HNS5 E R P P E T M L Q A L R D A H A R G A R V I G L C C L G A F V L A E A G L L D G R
UniRef90_UPI000372E7F2 E Y P P E T L L E A L N R A V I G R G A R V L S V C S G V F V L A A A G L L D G R R
UniRef90_UPI00037B7A3B A P V P E G L T K A L Q A A H G R G A R I M S L C S G V A V L A A S G L L A G K
UniRef90_K5ZGC1 F Q E P G V I A A A K D L A A R A R V A S V C T G A F L L A E A G L L D G R R
UniRef90_UPI0003674018 L R A A H E S G S V L L S L C S G A F L L A A A G L L D G R
UniRef90_Q2NV90 F Q R S P L L L E C V R R M H L D G K L V A A I C C A A P A L V L Q H H Q L F S Q
UniRef90_I3DW57 L L H D S E F I E W L K T G R N A N Y K V S V C C T G S L L L F G V A G F L N G K
UniRef90_B8CVA2 L V D N V P M L Q W L A A Q V E C S E K V F S I C C T G S A L L A K T T K L S G V
UniRef90_D6V5V7 L M E D E E V L S W L R R Q A A G A K C V L S V C T G A L L C G A A G L L K G R
UniRef90_UPI0003658A98 S S A P A E V L S F V R K A G Q R R I A G I C C C T G G F V L A E A G L L A G R
UniRef90_Q5WKN5 R A M N T E L T R M V E H A L H Q K D M V I A G V C C G S L L L A M G G L L E G
UniRef90_A4A717 E L J E N P A M L E F L R L Q S E R A Q W V S S V C C T G S A L L A K A G L L D G H
UniRef90_R4WTL6 T P P S A A L L A F L R R A S T R S R R I A G I C C C T G G F V L A E A G L L A N R
UniRef90_F9TV12 M K N M R A I N W I Q E Q A S K V K I V A S V C C N G V F L L A Q A K L L S D R
UniRef90_L7EGU1 L R T N I Y V K N L I K D M A E N N R A I G C L C H G A S V L V S A N V I D G Y
UniRef90_K4QXH5 V P R S A D V L D A I R R T H A R G A R I L S F C C C T G S F A L A E A G V L D G L
UniRef90_W9GP27 L R Q D Q A V R F I K E F V A S G K P V A A I C C H A P W T L V I E A D V V S G R
UniRef90_V5XHY0 Q A P S D D L L D A I R A A D A R G A R L V S I C S G A F A L A A A G V L D G R
UniRef90_UPI0003663D93 E Y P E E L L D A L R A A V D R G A R V L S V C C S G V F L A A A G L L D G R R
UniRef90_A0A011QW37 L R K D D R F L A F T K A F S D H K K P I F S I C H G P Q L L T N A E V V K G K

UniRef90_UPI0004675EE1 H W A L V E T F R S W F P G V E L D P D V L F V D D G S V L T S A G A A S G
UniRef90_W5IQN4 R C T L H W E A L D A F R E T Y P Q Q A D T Q E L F E I D D G S R I T T S A S G G T A S
UniRef90_UPI000050FD02 K L T S F L S T K T D L S N A G A D W A D T E V V V V D G N L I T S S R T P D D L L
UniRef90_D7W9N9 R M T S Y P S L K T D L S N A G A D W V D E E V V V D D K R I V T S S R T P D D L L
UniRef90_UPI00035FF550 T V T S T P G I K H D L M Y A G A H W V D E P A V R D D G H V V T S S G R R P P D D L L
UniRef90_UPI0003613386 L A T G D P G L R D D I R N A D A G Y R A D R G V V I D D G N V I C R G V N T P D D L L
UniRef90_K5YU66 K A T T H W T A M E V I R P L Y G A I L P S A D R V V I D D G N V Y V S A G G V T S G
UniRef90_Q9YFC2 R L T S Y W G V K D D V I A A G G N W V D E P V V V D D G N L V T S S R Y P P D T L
UniRef90_UPI0003B41420 R M T S Y T A L R T D L K E N A G A Q W V D E S A V V D D G N L V T S S R T P D D L L
UniRef90_A6FRQ3 R A T T H W E N H R D F I E E F D E V E L T K S V F V V D D G S R M T T A G G T S S
UniRef90_I4ETQ5 T L T S Y P S I R G D L R R G G A T V V D Q E S V C V D D G N L V T S R D P G D T
UniRef90_B6K6R6 T L T S H P C L T K D L Q E A G Y E W K N E S V V V T D N L I T S A G S A A A
UniRef90_D9VG25 R A T T H W Q W A E A F T A R Y P R V R L E P D F V E D G T L L T A A G S A A A
UniRef90_G9EE02 R A T L P W Q R F E A F S Q A Y P Q T L S Q Q L F E I D R D R L T C A G G T A A A
UniRef90_I0KZM9 A T T H W A L S D R F A A L F P A G E V R P D V L F V D G R V L T S A G A A A G
UniRef90_I3IH00 K A T C F Y A I K D D F V N A G A G A E F L D K D E V V V D D G N L I T S S R N P F D L
UniRef90_A0A023X755 R A T T H W V H A D A F A R K F P D V D L D P L Y V D E G K I L T S A G T G A A
UniRef90_UPI0003675DD1 K V T S T P G I K D D M T N A G G L W S D E P V V T D D G H I V T S S R R P P D L L
UniRef90_Q65FN6 K V T S T P G I K D D M E N A G A I W V N E A A V V D D G H I V T S S R R P P D L L
UniRef90_A9DZA8 K A T C Y A S I A T D V K N A G A H Y E D S E V V A D Q G I V T S S R S P E D L
UniRef90_UPI0002556C1C D C S V H W E C L A S M Q E A F P R A A I T T R F S I D R G N R N T S S G G T A P
UniRef90_L7ZFB2 C T T H H D V I E R I R L Q A P A A Q V K E N R I F V D R G V Y T S A G I T T G
UniRef90_E8RSB6 R A T T H W K Y V E H V K C H W P E V V P D V L Y I D E G Q I M T S A G S A A G
UniRef90_UPI0002E36893 K A T T H W F H A R T F R E A F P R V K L E E D C V D D G K L W T S A G M T A S
UniRef90_E8XSL2 C T T H H D V I G R Q L R Q V P A A Q V K D N R I F V D R G V Y T S A G I T T G
UniRef90_S9SZV5 T V T S T P G I R D D M E N A G A T W L D E E V V V D D G N L V T S A R R P P D L L
UniRef90_F7SZT5 K A T T H W K A A A Q L A R R Y P V I D V N P N F V D N G Q L I T S A G V A A G
UniRef90_A0A017SUC1 R A T T H W A C H A L L S A F G A E R V E A R V V T D R N R V T S G G V T A G
UniRef90_G8S5Q2 R A T T H W L M A P T L A R E Y P K V T V D G R F V D E G Q I L T S A G V A A G
UniRef90_T3D527 K A T T Y H L K N G Q R Q F D V N V I N E P I V V D D K S I L T S Y C P E T A G
UniRef90_UPI00036EDA49 T A T T H W S V A Q L F E K Y F P K V N P D K I Y I R E D S I W T S A G V T A G
UniRef90_I9N889 R C T H W N Y S S F A E E F P T A E L S S H I F E I D D G I Y T C A G G T T P
UniRef90_A3PJ22 E V T S Y P S L A T D I R N A G G R W V D R E V V V D D G L V T S R K P D D L L
UniRef90_C3PET1 A A T S N K R A F A W A S S F S V T W K P K A R W V Q D R N R W T S S G V A A G
UniRef90_R5RGC1 N V T G Y T G Y A D K L V G G E F V D K V V V F D Q N I T T S Q G P A T S
UniRef90_Q26C05 V S T T F P S D I T G K M R N Q F P H L D V R E N V W H D G K V I T S A G G A R S
UniRef90_V8CRV8 T L T S W P S L R T D I T N A G G Q W T D E E V V V D D N N T L I T S R K P D D L L
UniRef90_D0SXB4 N L T S Y K S I K L D L E N A G G K W V D E Q V H R C D W V L I T S R N P D D L L
UniRef90_F7Z9V4 A T T N K D F N D T P L A P N V D R W V K E A R W V E D G K F F T S S G V S A G
UniRef90_A0A024RGY3 A T T H W A Y G R A M Q Q R F P D I R V Y E A R I Y V D D G P V W T S A G M T A G
UniRef90_UPI0004416C70 I T S H P S V R S K L E K E F E Y S E D P V A L S G K L V T S R G G P G T A
UniRef90_A3YGC6 N A T T W A G G E E D F A Y P K V K V Q F D K N F V I D E G L V T S N G G P V S
UniRef90_R9PD41 A V T S H P S V K A E L D K E Y T Y K E E R V V V S D K L V T S R A P G T A
UniRef90_R4XLT1 C T T H H S C L A Q L A D L D P S A R V H D N R I F V D G N L V T S A G I T A G
UniRef90_G4RD77 T L T S Y P T L Q V D I E N A G G A W T N E E V V V D N G L V T S S R D P N D L L
UniRef90_R4XZC1 K M T S W P S L A D D L R N A G A G A Q W V D E E V V V D D G R W I S S R K P D D L L
UniRef90_UPI00035DE045 P C T T H R G A R A D L A A Q G G K L V D A R V V D D G D L V T S G G I T S G
UniRef90_UPI000468E675 V T T H W E D I A D L Q R Q Y P H L K V V E G V P Y V D D G T R I T S A G I S A G
UniRef90_I9C2A6 R A T C H W M S L D Q L A M F G C T P V S E R V V L D D G N R L T A G A V T S G
UniRef90_V6KLU0 R A T A H W Q W A D S F R A R F P R V R F E S D F V D D G D I L T A A G S A A A
UniRef90_E6ZM31 A V T S H P S V K A E L D K E Y A Y K E D R V V V S D N I T S R G P G T A
UniRef90_UPI000299DBD0 R V T G S P G I K D D L N A G C L F E D A P V V V D R H F V I S S R K P D D L L
UniRef90_UPI00047599CC R A T T H W H Y T Q A L A E Q Y P H V R V D E N F V D E G T V L T S A G A A G
UniRef90_G4YST3 R A T C S L S H E R E M T R E F V D E D V V V D T R C V T S S Q G P G S V
UniRef90_U3BKP3 K A T T W A G G E N G F Q R D Y P K R V Q V D Q N F V I D D G V I T S N G S L V S
UniRef90_V5UKH4 A T T H W A H A R T L Q A R F P K V R V D E D R I F R D G N I W T S A G M S S A
UniRef90_D8RAE6 K A T T H W A Y P Q L K E Y G A K V T S Q R Y I K Q G K I V T A A G V S S G
UniRef90_F7XP85 K A T S Y G I K D D I A A G A E Y L D Q E V V V D N G N L I T S R H P A D L
UniRef90_A0A023J5V5 E I T T H H L S L E F I A P S S A K V R E G V R F I D N G K V V L S A G I S A G
UniRef90_WOLEF1 C T T H H N V L T R L R Q Q P A A Q V R E N R I F V D R G V F T S A G I T A G
UniRef90_D0L713 A A T H W R H A A Y L R T R R F P V T F D P V P I F I R D D G T Y T S A G V T S A
UniRef90_G9Y3D5 Q C T T H H D L D R L R A L A P A A L V K E N F I E D K G V C T C A G I M A G
UniRef90_UPI000466BAC6 R A T H W E N Q D S F E E F D V T L T K S V F V I D D G N R M T A G G T S S
UniRef90_UPI00047B35FA R A T T H W R W A D A F R A R F P S V R L E P D F V D D G D V L T A A G S A A A
UniRef90_K0JV17 T T H W Q W A D T F H A L F P A V D L V P D V L Y V D D D D I H T A A G S A A A
UniRef90_K9WWT3 Q V T G F S A T R K D L I N A G A N Y L D E P V V V D D G N L I T S R E S P G D L L
UniRef90_Q21DM0 A T T W A G G E K D L Q K F P K V N V Q V D N V V V D D G N I V T S N G S L V S
UniRef90_A7I818 R V T G W M S L V Q D I R N A G A E Y V D K E V V V D D G N L V T S S R K P A D I
UniRef90_UPI00035D6CBD S A T T H H L A F D A L L A P Y I T L K K D E R F V P D N G R I T S A A G V T A G
UniRef90_G7VW62 S A A T H W G D I G R L E K K T I T D W K D Q R F V P D G N M V T S A G L T S G
UniRef90_E8TI01 R A A T H W A Y C E Q L Q T L H P D I A V D A A Y V D N G D V V T S A G V A A G
UniRef90_UPI000468B34F R C T V H W H P A F T E T F P F L H L S R S L F E I D D R D R F C A G G T A A
UniRef90_E3HNS5 P A S T H W V W S D D F A R K Y P R I D R K A L Y V D D G D I L T S A G T A A A
UniRef90_UPI000372E7F2 C A V H W R H A Q E L A R R H P H V R V E P D V L Y V D E D V I T S A G T A A G
UniRef90_UPI00037B7A3B R A T T H W R Y A S V I A E R Y P E I D A D V L Y M D E G R M L T A A G S A A G
UniRef90_K5ZGC1 A T T H W R L A P E L Q Q R Y P L V R V E A D R I F I D N N I W T S A G I S A G
UniRef90_UPI0003674018 R C T T H W M Y A D D L R R Q F P A T I V D P L Y V D S G D I I T S A G T A A G
UniRef90_Q2NV90 A Y M T G F P A L K D R I P A D R W V D Q R V V H D A R Y R L L T S Q G P G T A
UniRef90_I3DW57 K A T T H P A Y D L R P Y C L E V I E N R I V K D G N L I T G G V G T A A
UniRef90_B8CVA2 T A T T N K M A Y K W V L A E N V N W Q P K A R W V D D G K F L T S S G V S A G
UniRef90_D6V5V7 R A T T H W S A F E L L P I F G A L P V N Q R V V A D D G N M V F A A G V T A G
UniRef90_UPI0003658A98 R A T M H W A F A R E M Q K R F P D I R V E D D Y I V D G S V W T S A G M T A G
UniRef90_Q5WKN5 R H G V T H H L G M D A L A T G V T V V Q A R V V D D G N F V S S G G V T S G
UniRef90_A4A717 R A T S N K Q V F A I M Q S D K V D W V E A A R W V E D G K F F T S S G V S A G
UniRef90_R4WTL6 R A T M H W A F A R L Q R L F P D V R V E E D Y I V D G P V W T S A G M T A G
UniRef90_F9TV12 R V T A H E Q H L D D L A Q Q F P D V V K N T R W V E D G E I I T S A G M S A G
UniRef90_L7EGU1 K L T C T D S L I D D V I N A G G D Y T S E G N C V D R N I S A K I P G N L L
UniRef90_K4QXH5 R A T T H W M W A E A F R E L H P R V R L E P D F V D E G R I I T A A G S A A A
UniRef90_W9GP27 R L T S W P S L I Q T E D I R N A G G D W V D E A L V Q D D G N I T T S R K P D D L L
UniRef90_V5XHY0 T A T T H W L Y A D A Q R Y P A I D V D P A P L Y V D D N G R V I T S A G T A A G
UniRef90_UPI0003663D93 C A V H W H H A E L L A R R Y P K I V V E P D V L Y V D D P V I T S A G T A A G
UniRef90_A0A011QW37 D I T A V K Q V I A V D L K N A G A H F H D K E V V I D D S G L I S S R T P D D L L

UniRef90_UPI0004675EE1 V D V C L H L V R K D H G A A V A N R V A R M C V L
UniRef90_W5IQN4 I D L M L D L I A R A Q G P E L A V Q V S E Q F V V
UniRef90_UPI000050FD02 D A F N K A I A D K F
UniRef90_D7W9N9 P A F N K A I I E E F A
UniRef90_UPI00035FF550 P T Y L P L L I E A L K D
UniRef90_UPI0003613386 P L F C E Q M L A A I S T R
UniRef90_K5YU66 I D G S L I L A A L L R G D Q V A K E L Q L Y M
UniRef90_Q9YFC2 P Y W M R E F M R L L
UniRef90_UPI0003B41420 E D F N R A F L Q L
UniRef90_A6FRQ3 I D L F L K L I A D E H G E K L A N A V A D Q L I
UniRef90_I4ETQ5 P A F N E A A V R L F A G
UniRef90_B6K6R6 M L F A L K I A E Q V L D K D T Y Q K V Y D S L
UniRef90_D9VG25 L D L S L Y V I Q R D H G A E I A N A V S R R L V F
UniRef90_G9EE02 L D L M L T L I G Q H H G A R L A E Q V S E Q F V
UniRef90_I0KZM9 I D L F L H I V R T D H G A S I A N D A A R R C V V
UniRef90_I3IH00 P A F C T Q L V K F L K
UniRef90_A0A023X755 I D L C L H M V R E D H G A E V A N G F A R R M V V
UniRef90_UPI0003675DD1 P P Y V K A Y A D Y L A
UniRef90_Q65FN6 P I Y V K A F A D L L A
UniRef90_A9DZA8 D A F V A K I V E E I E E G K H E R K A A
UniRef90_UPI0002556C1C M D M M L H K I G R E H G R E L A A A I S E M F I
UniRef90_L7ZFB2 I D L S L H L V H R H C G S G R A R D V A R D M V V
UniRef90_E8RSB6 I D L C L H V I R R D F G P E A A N K V A R R L V V
UniRef90_UPI0002E36893 I D L A L A L V E Q D L G V E V A R A V A R K L V V
UniRef90_E8XSL2 I D L A L H L I A T H L G P Q A A L D V A R E M V V
UniRef90_S9SZV5 P A Y G K A F C D K L A E K
UniRef90_F7SZT5 M D L C L H M I K R D H G A A V A A N S A R L A V V
UniRef90_A0A017SUC1 I D F G L T L L A Q L R G E Q V A K
UniRef90_G8S5Q2 I D V C L H L V R R D H G V I Q A S N A I A R V L V
UniRef90_T3D527 P H V A F K L L E M L T S R E Q M E T V K L A M
UniRef90_UPI00036EDA49 I D L A L A L V S E E W G E I G R A V A Q E L V V
UniRef90_I9N889 L E M M L E L I G H D C G M D V A V E V C Q Q A V L
UniRef90_A3PJ22 D A F C A K M I E E F A
UniRef90_C3PET1 V D M T V A L I A H L T S E V V A I D A A
UniRef90_R5RGC1 Y P F A F K I L E V L G Q D V S E M K E R L L
UniRef90_Q26C05 F E A A M Y L C D V L Y G P E I A N D L A G G L V L
UniRef90_V8CRV8 P A F C E A L I R E F A
UniRef90_D0SXB4 P A F N E A I L K E L E G D A A
UniRef90_F7Z9V4 M D M S L A V I A D L Y G M A A A E K V A
UniRef90_A0A024RGY3 L D L A L A M V E K D L G A D A A R T V A R K L V M
UniRef90_UPI0004416C70 F P F A L T L A E L L V G K S K R D E I Y G P M V F
UniRef90_A3YGC6 Y Q A A F A L L E Q L S S D E F S Q E I A E
UniRef90_R9PD41 F E F A L T L V E M L V G K D K R K E V E G G L L L
UniRef90_R4XLT1 I D L A L H M V S R H C G P R V A S E V A R D M V V
UniRef90_G4RD77 P A F C A K L V E E I
UniRef90_R4XZC1 P A F N R E L L R V F A
UniRef90_UPI00035DE045 L D L A L W L L E R E L G A A T A V K V E N I L
UniRef90_UPI000468E675 I G M S L H L V A R I L G D E V A R A T A R Q M
UniRef90_I9C2A6 I D F A L T L G A E L F G D R A S A
UniRef90_V6KLU0 L D L G L H V V R R D H G A E V A N S V S R R L V F
UniRef90_E6ZM31 F E F A L A I V D A L V G T D K R T E I V P P M L L
UniRef90_UPI000299DBD0 P A F C Q G I L Q V L
UniRef90_UPI00047599CC I D L C L H I L R G D L G V A A A N H A A R R L V
UniRef90_G4YST3 L K F A L T L V K L L N G E L A A E K A A R E L L
UniRef90_U3BKP3 Y Q A A L K L L H L M T S E S K A Q E V A D A I
UniRef90_V5UKH4 I D L T L A L L E D D H G P A L S R A I A R K L V V
UniRef90_D8RAE6 I D M A I Y L A S I T T N E K I A K A V Q
UniRef90_F7XP85 Y A F G R E L V K L I
UniRef90_A0A023J5V5 I D M S L Y V V E R I F G K E K A L N T A S I M
UniRef90_W0LEF1 I D L A L H L V N Q Q C G A N R A L E I A R E M V I
UniRef90_D0L713 I D L T L S F I E A D A G P A L A R D V A R D L V
UniRef90_G9Y3D5 I D L A L H L V H R F C S P Q E A M R V A R E M V V
UniRef90_UPI000466BAC6 I D L M L K I V A D D H G E E I A N L V A D Q
UniRef90_UPI00047B35FA L D L G L H L I R R D H G A E V A N T V A R R L V F
UniRef90_K0JV17 L D L G L H L I R Q D H G S E V A N T V S R R L V F
UniRef90_K9WWT3 A L F T T A I L N R L G G K E A A
UniRef90_Q21DM0 Y Q A A L T L L K L L S S E S K A K E V A D V L
UniRef90_A7I8I8 P A F I R E S L A K L
UniRef90_UPI00035D6CBD Y D A A M H I A Y K T A G R D A
UniRef90_G7VW62 I D A T L Y V I S S Q M G E P T A K K V A K E M
UniRef90_E8TI01 L D C C L H I V R A R Y G A E A A L R L A R Q I V L
UniRef90_UPI000468B34F L D M M H A I I R I D H G A A L A S A V S D W F L
UniRef90_E3HNS5 I D C C L H L L R C D H G A E L A N R V A R R M V M
UniRef90_UPI000372E7F2 I D A C L H L V R R E Q G S D V A N A I A R R M V V
UniRef90_UPI00037B7A3B I D L C L H V R G D F G A E A A N S V A R R L V V
UniRef90_K5ZGC1 I D L A L A L I E I D F G T E I A R E V A R E L V V
UniRef90_UPI0003674018 V D A C L H L V R R E L G A S A N A L A R R M V M
UniRef90_Q2NV90 M D F A L N I I A L L C G
UniRef90_I3DW57 I D L G L Y I L C E L L G G A D A V L S I Q K Q M
UniRef90_B8CVA2 T D A A L Y W V K T L H G E V E A R R I E
UniRef90_D6V5V7 I D G G L R V A A D L R G A E A A Q T I Q L Y M
UniRef90_UPI0003658A98 L D L A L A M V E K D L G A D V A R S V A H K L V M
UniRef90_Q5WKN5 L D L A L Y L V E R E L G P R I A H A V E Q
UniRef90_A4A717 M D M S L A L I Q K L F G E A A E T A A S Y
UniRef90_R4WTL6 L D L A L A M V E K D L G A D V A R S V A H K L V M
UniRef90_F9TV12 I D M S L Q L V S R L S K L E L A K K T A D Q L
UniRef90_L7EGU1 P E F M K N I L D Y L N S E
UniRef90_K4QXH5 L D L G L Y L V R Q D H G A E I A N A V S R R L V F
UniRef90_W9GP27 P K F C S A L L E S I H G S A S A
UniRef90_V5XHY0 L D L C L H I V R A D H G V R V A N D V A R R L V I
UniRef90_UPI0003663D93 I D A C L H I V R K E Q G P E V A N A I A R R M V V
UniRef90_A0A011QW37 P A F N Q A M V N A L

UniRef90_UPI00037CC547 1 S K R V A I L I E Q G V E D A E F Q L P Y N A L K K A G A E V V V L G S R I N 40
UniRef90_J3X9J3 K V A V I F A D G C E E V E G L S V V D V L R R L N V E C D M V G L H S
UniRef90_UPI00035CE237 V A L A V T D D G M L H F F E M S L A L I E V F G T D L T H L V D P W Y Q
UniRef90_E8WRQ9 V A V V A F D N F S P F H L S V V P C L I F G R K L F E L R I C A G E P
UniRef90_UPI0003959D26 V I V L F D R V D L L D I S G P P E V F A L L G Y Q V L R L A A E S L
UniRef90_G8PXQ7 V A I L A Y D G L C T F E F G V A V E I E G L E R P E F D F W Y T H R L
UniRef90_R5K591 K T V Y A F L A D G M E E V E A F S A P W G I F K R A E I P I D Y V G E N K D
UniRef90_Q10356 K V C L F V A D G T D E I E F S A P W G I F K R A E I P I D Y V G E N K D
UniRef90_UPI0003A08A2C R V H T V L Y D G V E Q D F A G P V E V F G I S R L Q Q T F V T A G E P P
UniRef90_A4X8W5 H R V V V I V D E N S N P F E L G C A T E V F G R D L Y E F R L C S T E P S
UniRef90_UPI000479C45D R V A I L C H P N V A L F E M A C A S E L F A E Q W Y R C D M V S F E D T R
UniRef90_A0A038GE34 I G I Y V Y D D V E V L D F A G P Y E V F T T A T R M H A R K S R D D R
UniRef90_J2HAN2 A N R L V V A L A Y D D G L C T F E F G V A V E L F G E M G P D W Y R F A T A E P
UniRef90_UPI000372B92E R R I G V L L L P G F A L L I T Y A C A V I E P Y R A A N Y R W M H V S P D G G
UniRef90_D7UW55 G K K I A T V I T D L F E D V E Y T D P A E A F K K E G H E V T I I E K E S G
UniRef90_W0V5E1 K R I G L I V F P E F G L L E L A A P F E M A N A S Y T L E V L S V D G G
UniRef90_W0NB65 V A A L A Y D G L C T F E F G I A Y E V F G E N W Y R F S V C G I E P G G
UniRef90_UPI00047A4DD0 R V A V L V A N G V E Q I E L T E P W K A I E N A G G R F E L V A P Q G G
UniRef90_Q7UF17 G K R V L S F V G E I Y D E L L W Y P K L R L I E A G A G E F F V A G P K A G
UniRef90_W1ND40 R I G V L M L P G Q V P L D L V G P W Q V L A R I S G R Y Q I D Y F G P H
UniRef90_A8HA05 R V L A L V F D D Y E T L D L H G P T E M L G M P N T E T K L V A A K E
UniRef90_U5W2G3 R N V A V I A L P E V A V F L G V L C E L F G Y P G Y T F S V C S V D G A
UniRef90_C6AW07 I G F L L Y P G F Q I M S L A A V I S A F E F A N L E L I E K V Y E
UniRef90_X4Z466 V Y F V V Q E D I V L D L D L A G P A E A L R I A N H Y V R Y A L H Y C
UniRef90_H5XQ83 G R R V A F V V A P G T E Q V E L T E P W K A V E N A G G R P E L I S T K A G
UniRef90_F6DG02 R R I G I L L A D L F D E R E F L Y P Y Y R V Q E A G Y A P M V L G P E A R G
UniRef90_F4CIR3 I A V P L F P R M T A L D A I L G P Y E V L Q R V D H D V V F V G E R R G
UniRef90_UPI000288EED1 K I A F L L G P G F E D S E M K K P Y D A L R E A G H D A V I V G L K E G
UniRef90_D2VFF1 V L F C I A D G S E E M E S V T V I D V L R R A K F N V L V A S H D H S
UniRef90_G9YCW1 V A T L V Y D G L C S F E F G L A L E A L P R P E F D F P W Y Q H C
UniRef90_V4QCY3 M T D G F E Q V E L T G P K K A L E D A G A T V R I L S D K S
UniRef90_W8A4Y5 A P R T I V F V V F Q G M Q I S E L A G P L D V F A L L N Y R L L T A S P G G R
UniRef90_UPI000362C6FD T R S L A I L M F D D V E V L D A C G P F E V F S V A N F D V V L V G V D D G
UniRef90_G8S3R0 R V A V L A L D T V I P F D L A T P I E V F G R T G Y E V R I C A P T S T
UniRef90_UPI000362E7DC H R I G Y L L S D G F Q V M A L A S Q S V F E Y A N V A A E T F Y R I E N
UniRef90_X5L0B2 V A I L A Y D G M S G F E S G L A A E L F G S A G L A R P W Y S V R L C
UniRef90_UPI0003683472 A P R Q M G F L L L P G F S M I S L A A A I D P L R M A N R L S G R H L Y E W P
UniRef90_H2FTT3 R V G F V L L L H F S M M A F T A A V D A L V I T A N F T I T S Y G L D S T
UniRef90_UPI000463B13D G R R F A F L V D K F P M F S V I A A A I D V V R S A N Y S W T I V S P D G D
UniRef90_L1M4U1 R S I V F F L I P Q F T M L P F A A A V E T L R I A N Y E W R L S S L D G Q
UniRef90_Q7CYK8 R V G F L L V P D F S M M A L A S A S E P L R A A N Y E C E L I G L A P G
UniRef90_K9H456 V V L F D G F D P M D V I A P F E V L Y A G G L T V E L V S A E G A
UniRef90_UPI0003470950 K V A T L I T D M F E D V I F T G P R D A L V D A G H D V V T I E K K A G
UniRef90_C4L0V7 V A F L I M D G T Y N T E F T A P Y D I F Q H T Q F R V F T V A N T L
UniRef90_E6XA41 K V A T L L D R V S M F E F G V V C E V F G R T E H G V P F D F R I C
UniRef90_Q0SAE9 A K K Q V A L L L A D G F E E G E A V I V L D I L E R L E I Q V T T L A C Q K S
UniRef90_UPI0003655941 K I T M V A F E G I S A F H L S V P C L V F Q D I G Q P V R F I C C E N S
UniRef90_C3MPE6 S E K V L F I V G E F E D I E L L Y P Y R V I E E G F R P V I A W K E A N
UniRef90_X6A925 V Y V V I P H L L L L D V A G P V I E V L R K A G V H F I V S Y V G P A
UniRef90_K0F5M9 R N V V V V G Y P D A I L L E L A C T T E V F D F A N R A V E R V G L A G V
UniRef90_UPI00040FF726 R I V F A I Y S G M T Q L D F T G P Y Q F F A R L P N S E L I V A S G A G
UniRef90_B2UHY7 I A V L A F S N D I S P F H L S V P C L V F E W A G Y N L R I C A P A R K
UniRef90_UPI000478A874 S S H R V V A L V E D G S N P F E L G V A T E L F G R T W Y D F A L A A A P E
UniRef90_UPI0004663F95 K I V I L A T D G Y E R S E L R V P A Y E E L Q R R G A N I A S I A S Q S G
UniRef90_H3M754 K K V A V L L A S G F E E G E A I V V V D I L R R L H L N V E L L S C A E S
UniRef90_G5H5N7 N K K V V V F L A K A F E T M F C T F L D V L G W A G H N I I V D T C G E F T
UniRef90_M0AAM4 T V G L F I A P G T E E I E F T E P K Q T V A D A G A T V D V L G S E T G
UniRef90_K5XPQ4 H H I G F F L Y P G H Q I L D F A G P F G A F E R P L Y A L E V L S R A G G
UniRef90_B8GG15 I L L Y D E F E T L D V I G P E I L G R L S F N P R F Y S L T G G
UniRef90_C6HU78 P G F N A L N L V G P H E V L S R L D A R C Y L V S E K A
UniRef90_G4I4B9 S G K R I A F L V A P G A E Q V E L T A P W E A V E Q A G G T P E L V S T E V G
UniRef90_D1Z2X1 G K R V V M L A G E G F E D M E L M Y P L Y R L R E A C A D V K V A G L E K G
UniRef90_R0FTZ2 H H I G Y L L T D G F Q V M G L A T Q T V F E Y A N A G E D F Y A L R N F
UniRef90_R6GV17 K K Y A V I I A D G S E E T E I T V P T D I L R R S G A T C E L I S V N C
UniRef90_F3NAQ0 H R V V V L A L D R V T P L D L G I P A R V F N E A R Y S V T T C S L G G R
UniRef90_U7FJ34 S G Q K I A F V L M E R F S M N A F A S V I E P V R I A N Y Q W T T Y S L D G N
UniRef90_A0A023C3Z4 H R I G Y L L S D D F Q V M S L A T Q T V F E Y A N A P A P F Y A I E I F
UniRef90_B2JRS7 V A A L V Y D R L C T F E F G C V T E L F A E L G V E W Y R F A V C A V
UniRef90_M9R795 A P H R F I F V L N D F T L S F A A A I D C L R L A N Y S W R I G E G G
UniRef90_G7STC4 I Y C L L F D D Y E T L D L M G P I E L F R L P N V I Q L H Y I S K Q G
UniRef90_E1THK1 R I G Y F L T D D F Q V M A I G T Q T V F E I A N I V A R E P
UniRef90_UPI0003696183 R V A F L V A P G V E Q V E L T A P W R A V G E A G G N A E L V S V S S G
UniRef90_U5W6D7 V A L A V T D G T P L F E L A A C E V F G V D R G L A E P W Y D
UniRef90_F0C3B9 L L A H E D M N V L D L T G P V Q A L H T A N Y Q I T V A S E S G G
UniRef90_D3Q8L2 V A V V G Y D D A M L L D I A C V T S T L A R A G A D P T V L A A P G G
UniRef90_U1K3F7 I G I Y I Y D D A E V L D F S G P F E V F S T A Q R L A K N E W N
UniRef90_UPI00035F6908 G F L L S D N F T L S L A S A T E P L R M A N Y R W Y T L T Q D G S
UniRef90_Q2LUE8 K A L I L S A D K F D E S E L L F P Y Y R L K E V G V E V V V A S L R R
UniRef90_K4YQZ4 V A I V A V D G F S P F H Y S V P C I L F G E K R F N V T I C A E T P
UniRef90_UPI00037D1CD3 R M G I L A D L F I D E R E F I Y P Y Y R V E E A G Y A P V V I G S E A R
UniRef90_UPI0003B74512 V V V V A F D R I S P F H L A Y P C A V F G E E H F E K V C A S E P G
UniRef90_Q2SNJ8 S M Q Q V T I L L G F D Y A V I S S A I T G V V D L L A M A G V T W I R V A T R D S
UniRef90_W4NUHO R H I V F A V A P E L V L L D A C G P L E A F H R A E L T V T V A S I D G K
UniRef90_UPI000464D21E R S I V F F L V P D F T M L A F A T A L E P L R S A N Y K W R L A S A D G
UniRef90_UPI0004710A4A G K K I L T I V S N D Y D D L E F H Y P L I R L T E A G A K V T I A G E E T N
UniRef90_C6WIS8 V A M L L Y P G F T H L D L I G M P H A V W S P W M D V H L V W R T L
UniRef90_UPI00034DE34F R Q I A V L A L D E V V A F L D L G M P T Q I F H A A F Y R V R L C T P G G R
UniRef90_S3IN95 I G I L L Y P H V Q L A A V Y G L T D L F N L A N R F A T R Q R P S G S
UniRef90_UPI00047BF271 G K R I A I C C T N G V E E V L L G A H R W L T R E H G A T V H L V S L P P P
UniRef90_G0HHQ9 V D V L F F D G A E E L D A I G P W E V L R D R R V D V R A V S L D G K
UniRef90_C4TT16 M Q M L D I S G P L D V F A E V N Y H S R I M G L E R

UniRef90_UPI00037CC547 E E Y K G K Q K L T I K A D A T T T E A I A T D F D A V I V P G G Q A P D K
UniRef90_J3X9J3 K D V D D G D H H I K L T C D K V V D D S L L D R L D Y D L V A F P G G M T G S A N
UniRef90_UPI00035CE237 F S L C G P H P V L R S I E T R F L L E P D H G L D R L Q A D A D T V I V P G W A D T D
UniRef90_E8WRQ9 G R L R S G Q G L P V R S I E T F F L G L D A L S Q A D I V I V P Y W R D P A E
UniRef90_UPI0003959D26 E P V T T A A G V R V L P D I R L S S L Q H Q A I D T L I V V N T D A Q G R V Q
UniRef90_G8PXQ7 V A V D D G S K M R A M G G F Q V L A D G G M E L L E T A K T I V V P G W R N R S
UniRef90_R5K591 L L V E S H K I K L F A D K N I N E I D F E K G D C I F L P G G I P G T P N
UniRef90_Q10356 R L V K M S R D V E M Y A N R S Y K E I P S A D D Y D T A I I P G G G L G A K T E
UniRef90_UPI0003A08A2C G T V T T S S G M E I V I R A P W S P R S A D V I T V P G G G Y G K G S G V S E
UniRef90_A4X8W5 T L M R D G F F T L T G V Y G L E A A D T A D T V I V P N R P D T D
UniRef90_UPI000479C45D P I A S L G G L T L Q A Q T V T S L S D Y E M V V I P S W T T T N P T L G E P
UniRef90_A0A038GE34 Q F T T G R S M A P V R A R A G L K V D P D F S I T D H P P V D C L I V P G G V
UniRef90_J2HAN2 G P D L R G L G G V Q V T A D G G L E L V E Q A D T I I V P G W R G A E
UniRef90_UPI000372B92E P V P A S N G V A V I P D Q G L D R P L A V D D L F V C A G G N P T A F D D R
UniRef90_D7UW55 K T V K G S K A E Q T P V T V D K G L D E V N A K E F D F D A L F I P G G F S P D Q
UniRef90_W0V5E1 L V K S S M G V E I R T V A L A D Q E F D T L L M A G S T Q V
UniRef90_W0NB65 P L R A A G G L T V G V D K G L E I L D E A D L I V V P G W R A I D
UniRef90_UPI00047A4DD0 E V Q A F N H L D K A D T F P V D H T V N P D D Y D A L M L P G G V A N P D Q
UniRef90_Q7UFI7 E K Y D G K L G Y P C V S D L A I D A C E A D S F D G L L V P G G F M P D K
UniRef90_W1ND40 N S L D W M G P L Q L Q G T A P L A P E D A S D L E L L V V P G Q Y R N A I E
UniRef90_A8HA05 V S S Y Q G P R V L A D C L T E Q T Y D C D L L L P G G L G T R T
UniRef90_U5W2G3 P V R T H A G F S I T P D H D L A P A E A D L V A I V P N D T D
UniRef90_C6AW07 I R Y L S E N G G P V A N S L G M M E T E A F G T P A L D T L I V A G A P D I
UniRef90_X4Z466 P Q Q E V Q S G L Q G L Y L S R L A P L P Q S L P S H A L V V I S G Q V N A R H
UniRef90_H5XQ83 K I Q A F N H L D K G D T F S V D K T V T E V D D Y D G L V L P G G V A N P D F
UniRef90_F6DG02 E Y R A K S G F A W K A E A A G E A P P L E G L L I P G G F A P D Y
UniRef90_F4CIR3 E V R T E N G M L G L S V D A T F A D I P S P D V V V V P G G I G S R A
UniRef90_UPI000288EED1 E K L E G K M K K A S Y K V E K A I S D I N A K D F D G A V I P G G S S P E A
UniRef90_D2VFF1 L K V L G S R N V K L E A D V H F D Q S V A D K E F D A I V L P G G M K G A E T
UniRef90_G9YCW1 V V V D D G W M R T T N G V T M L A E H G L E Y L A Q A N T I V I P G W R S N D
UniRef90_V4QCY3 G E V R G W N H H Q P A D A F R V D G E T F E D D Y D A L L L P G G V N S D Q
UniRef90_W8A4Y5 P I T C D G G L T L S V A H S L A E L A A G E D Y D T L I V V G G N V S G P G
UniRef90_UPI000362C6FD P V H A R G G M R I A V D T T I D D T R R Y D V V L V P G G V V D E V P
UniRef90_G8S3R0 V D A G A G F T I N T R Y G L D T L L E A D T I I I P G C A D T A
UniRef90_UPI000362E7DC F S V A G G E V R S S L G M S V V T R A L G V R A A I D T W I A A G V S A P L T
UniRef90_X5L0B2 A E Q P E L R M V G G A T V T T P Y G L A D L A T A D T V V I P S V P D V T R
UniRef90_UPI0003683472 L Y C P G D A P V T A S N G M L F R P T R R F G D G E G L S A L F V A G Y D A
UniRef90_H2FTT3 T V R S D L A I D I S A T Q T L N A L P L D G T E A L D V V V C G G F R C S
UniRef90_UPI000463B13D A V E A S N D L P L K N D Y S V A D I P A V D I L F V C F A L N L E
UniRef90_L1M4U1 A V E A S N G M S V N A D G P L E P L G K G A T L L V A G F E P L H
UniRef90_Q7CYK8 K V M S S S I C L E V D T C L A D E R R Y V S G E N R P E M A I I C S G I D V D
UniRef90_K9H456 P V T S S A G F P I L R D K T L A E G A D A R A Y D L V V L V A S I N V R R
UniRef90_UPI0003470950 R E V P S S G N G V P L R A T A R L D P A H V P G D G D G E V D S I P A I L A
UniRef90_C4L0V7 N T V E G K Q G E A K V N I D Q S I D D V S P E D F D A L L L P G G F S P D L
UniRef90_E6XA41 K P I T T F E G V R I L P D F D Y T K N N L P N I D L V I P S A E H H I D T
UniRef90_Q0SAE9 G I R P G E P L A S I L P G L T L S A D H G L D S L R D A D L V V V P P G A Q
UniRef90_E8XSL4 L T L R T Y H G I Q M Q A N E L L S A Q G D R L F D A V V M P G G P E G S V A
UniRef90_UPI0003655941 L Q F E T S S G F V V I D R L S A T K E A D I V I V P S W P N D L
UniRef90_C3MPE6 A R V T G K H G Y T V I S D I A F K A D V R P E D Y V A L V I P G G R G P E H
UniRef90_X6A925 H S V G T S I G L A V S G T S P L P M R L P D N A L V I L A G S A E H P D A A E
UniRef90_K0F5M9 E E G P M R C S S G L S L L A A Q R I D R L D G P L D T L I V A G G P G S R W V
UniRef90_UPI00040FF726 G D V M S E G L T F A G T H R L A D I A A C D M I C V P G G N A T T
UniRef90_B2UHY7 G G L R T T A G F A V Q T D F T L E D A A R A D V L V V P S W R D T E
UniRef90_UPI000478A874 V R M H L G M F T I T D V A P L A A V D T A D T V I V P N R P D P V S P
UniRef90_UPI0004663F95 A I K S W D N W G D S V N V D F L A E D V N V E D F D A L V L P G G Q I N P D K
UniRef90_H3M754 R A V V S Y H D I P M V A D S T L A E R A G M L Y D A V V L P G G P Q G S V N
UniRef90_G5H5N7 E K V I S T F N V P V I V D R T I E E I N V D E D A L A I P G G F G E F G F Y E
UniRef90_M0AAM4 E A Q S V N N D L K E S E T Y A V D K Q F S E D E Y D A L I V P G G T V G A D T
UniRef90_K5XPQ4 K V R G S G G A M V E S R A P K G V A L D T L I V V G G D I A P
UniRef90_B8GG15 I V T S S Q Q V P V M T G S L S D L T S T R Y V L L I P G G T G A R D
UniRef90_C6HU78 G K V L S E K G I A V E A D V G F L D C P S I D T F V V I T G G L G Q M D
UniRef90_G4I4B9 K I Q A F N H L T P A D T F G T P A D S V S A A D Y D G L V L P G G V A N P D F
UniRef90_D1Z2X1 K T I T G K H G M P V A A D I A F K D L S P D D Y D C L V T P G G Q G P D H
UniRef90_R0FTZ2 S V A G G D V R S S L G M S I A T L P V E Q A D H I D S W M V C G V G N P L E S
UniRef90_R6GV17 L T V T G S H G I K I T A D K L I A E V D Y S A Y D G V I V P G G M D G A K A
UniRef90_F3NAQ0 P V R T H E D Y R I L V D H D E S A L E G A D T V V L A T Q E P G A T L L S T
UniRef90_U7FJ34 P V T A S N G C E V A V K S S R D L H D A D I T L L C T G I D V E R
UniRef90_A0A023C3Z4 S I T G G M V H S S I G L G A Q T R A V D S P G L A D T W M V T G V N K P L E
UniRef90_B2JRS7 E P I R A A G G I S V A A P Y T L R M L D R A S T I V V P G W R D P D E
UniRef90_M9R795 G T I N C S T G T T F T L D G D L D E L H R D D T V M L C G G R D V Q
UniRef90_G7STC4 G L T K S Y Q G F K T D T V S I T C L P E K S I L L I P G G Q G T R Q
UniRef90_E1THK1 Y H V T N Y S L Q G G E I R S S L G V S V T R P A D S T W M V S G V A N P T G
UniRef90_UPI0003696183 P V R A F E H L D K A D T F T V D R L V D E A D Y A G L V L P G G V A N P D M
UniRef90_U5W6D7 F T V C G D D G A A V G G W L T A G I R H G L D A A D A D T V I V P S C R D A E
UniRef90_F0C3B9 L V T T S S G L Q V M S V A I L A S L D D V A I D T L M A P G G C R G A V
UniRef90_D3Q8L2 N P V R C D S G Q T L H A Q A S L E K L T G P F D T L V V S G G W H D S
UniRef90_U1K3F7 I F L V A Q H N Q P V N A R G G F S V N P H Y S F A D H P P I D V V I G V H N N
UniRef90_UPI00035F6908 P V R A S D G L Q V T P D A S I T I P L S L D W V V C G G V P R
UniRef90_Q2LUE8 G A I K G I H G Y E V V A D K T L D E V D P S D Y A I L V L V P G G K A P L
UniRef90_K4YQZ4 G F L T S K D G F S L N A T Q D F T A I G Q A D I V V V P Y W Q H V P E R
UniRef90_UPI00037D1CD3 E Y R G K S G L A W R A E V A A R E A P E L Q G L L T P G G F A P D Y
UniRef90_UPI0003B74512 L R T T A G F S L S V D H G L E A L D D A G L I V P S W R D P A
UniRef90_Q2SNJ8 Q P V R C H N R L L I Q A D A C F D A I E P S D I L V I P S I A G D I E K T
UniRef90_W4NUHO G V L D T F P G L P V V T Q R L D A L D D E P L D T L L V P G I P V D D P
UniRef90_UPI000464D21E P V R A S N G V E C G V D T S L E E H M S G E G R P S M V I V C S G L N V E
UniRef90_UPI0004710A4A K V Y H G K Y G L Q T K S E I S F K D V D I T E Y D A L I P G G W A P D Y
UniRef90_C6WIS8 D P V A S D S G L R V V P T T T F E D C P R D V D V L F V P G G T G T G D V
UniRef90_UPI00034DE34F P V R S N A G F T V T P E C G L E L A E S D T V L V A G V H Y S A P V M T D
UniRef90_S3IN95 P A L R V S H W Q E T E A A E A V E R V F D P G P D V L L P P S F G E P M T
UniRef90_UPI00047BF271 Q C A T H V L A I R L M E N A G W L K I D R Y A D Y D A V L L P G G W N P D A
UniRef90_G0HHQ9 S V R C A K G L T V I D V D G S L G D R P I D L L V P G G R G A D I
UniRef90_C4TT16 Q D I T T S S G V R I M A D M L I T D P D L S S L D S F L V A G A P G I D D Y

UniRef90_UPI00037CC547 M R T N L K T V I Q F V E D A L E N G V L V A S V C H G P Q V L I E G D M L K G V
UniRef90_J3X9J3 L R D D E K L R D L M V K R H E A G K W D A A M C C A G A P R A L A R Y G V L K D A
UniRef90_UPI00035CE237 Q A P P A E E L T D A V L S A A H H S E A G A R V V S L C C C T G T G A F V L A A A G L L E H R R
UniRef90_E8WRQ9 R P N Q E L L T D A L S A A H H S E A G A R V V S L C C C L T G T Y V L A A A G L L E H R R
UniRef90_UPI0003959D26 A L A D P A L V V Q W V Q T L A G Q S R R V A S V C C C L V G A F H I L A A A G L L S G K
UniRef90_G8PXQ7 E P P S P A L L E A L R R A H A R Q G A R L L S I C C C S G A F V L A A A G L L D D G L
UniRef90_R5K591 L A A C K K L T D N I V J E Y N R G A R W L A A L C C C A A P S I Y G Q L G L K D V
UniRef90_Q10356 L S T T P F V Q Q V V K E F Y K K P N K W I G M I C C A G T L T A K T S G L P N K
UniRef90_UPI0003A08A2C Q I R L G T L P K A I L A A A R R P G L T L A G V F C C C T G T G M L L S A A G L L T G G R
UniRef90_A4X8W5 V P R R P A V L D A I R R A H A R G R R L V G F C C C S G A F T L A E A G V L D G G R
UniRef90_UPI000479C45D L R S E L L Y S E L L H A H Q R G C R L V S F C C S G A F L L G E L G V L D G Q R
UniRef90_A0A038GE34 V T A E L E K A D V I G W I S D Q S Q P G R V V I A A V C T G A F M L A R T G K Q
UniRef90_J2HAN2 T P V P Q P L I D A L Q V A H H R R G A R V M S I C C C S G V F V L A A A G L L T G R
UniRef90_UPI000372B92E A A L A W L R R Q A R R G I R I G G L S C G G P L V L A A A G L L R D R
UniRef90_D7UW55 L R A D E R F V K F A T E F L Q A R R P I F A I C C C H G F Q L L A Q T G Q L K G R
UniRef90_W0V5E1 L T A P P G L L N K L R S A A P H A N R R L G S V C C C T G T G A F I F A E A G L L D G R
UniRef90_W0NB65 A P V P E P L A Q A L R A A H Q R G A R I M S L C C C S G V A V L A G C G L L A N R
UniRef90_UPI000474ADD0 L R L S A D A V A F A R A F F D A G K P V A A I C C C H A P W T L I E A D V V R G R
UniRef90_Q7UF17 L R R D P K V L Q L V R F D A A K K P I A A I C C C H G G W I P I S A G V Y R G V
UniRef90_W1ND40 I G V Q Q L A L H W L R T I G H Q A R T I M S V C C C S G T L L L A E A G L L D N R
UniRef90_A8HA05 L Y N D T E L R Q W L J A Q I A R S Q N V F T I C C C G T A L L A M T S V L N D D R
UniRef90_U5W2G3 R E P P E A V L D V L R A A H A R G A W V M S V C C C T G A F V L G A A G L L D D R
UniRef90_C6AW07 R L P N A A E A D F I R A A L P A T R R L A S L C C C T G A F F L A E A G I L D G R
UniRef90_X4Z466 A L E R P D R Q A F I A W L I R R A A A D G F G L M S V C A G A L M L A A A G L
UniRef90_H5XQ83 L R M D A D A V G L V R E F F T Q H K P V A V I C C C H G P W T L I E A D V V R G R
UniRef90_F6DG02 L R R S P E V L A L V R K V A E E G K P L G A I C C C H G P W V L V S A G L V R G R
UniRef90_F4CIR3 L L A G G P L V D W V R A A H P D G T F T S A V C C C S G A L V L G A A G L L D G L
UniRef90_UPI000288EED1 L R M D K D V Q A F R L D E L D G K P I S A I C C C H G P Q V L I S A D I L K G R
UniRef90_D2VFF1 F A A N E L L H R L Q R H S D K I C A A T C A S P A L V F S K H K I L L A G I S
UniRef90_G9YCW1 V P P P P A L L E A V R A Y E R G V R F L T I C C C S G V F V L A A A G L L S G K
UniRef90_V4QCY3 L R S P L A K A Q E L V I R A E Q A S K P V A V I C C C H G A W L I S A G L V Q G R
UniRef90_W8A4Y5 A A E V V P E L P A L A R K A R R V A S V C C C A G A L L L A A A G L L D G Y R
UniRef90_UPI000362C6FD M I V P P E V V H L R K A A A G G A R L A S V C C C T G A F L L A D A G V L D A R
UniRef90_G8S3R0 A P P P A E M L A F L R K A A A T R A R R I A G I C C C T G G F V L A A A G L L D A N R
UniRef90_UPI000362E7DC S P P P P D V V D A I R S A R D R A G I L V S L C C C S G A F A L A A A G V L D G R
UniRef90_X5L0B2 P P S P D I Q W L R Q L A R A G I T L G A T S T G T L L L A A A G L L D Q D R
UniRef90_UPI0003683472 L A E H P E L S R K L R L A A R R E K V L G G L W N G A V A L A Y A G A L D G L
UniRef90_UPI000463B13D F P G K S K V L G L R A W G R E G G A L G A L S V G S F E V L A E A G Q L E G H
UniRef90_L1M4U1 S Y S P A L H A L R K L D H E G V V L G G I D T G T L L L A E A G L L D E G H
UniRef90_Q7CYK8 Q H V N K S V N A W L R E A Y N R G I A I G S L C C T A A H I L A Q A G L L N G K
UniRef90_K9H456 L Q H Q A L F D W L R R S A R H G S R L A A V S T G S L M A R A G L L E G R
UniRef90_UPI0003470950 R S L T T E L P G L L G A A M A R P S D T L V A T V C G S G S L M G M A G L L T E G R
UniRef90_C4L0V7 L R E D E R F V S F A K A F M D A K K P V F A I C C C H G P Q L L I T A K T L E G R
UniRef90_E6XA41 D L D D V V M L S F V K K V D E A L F M T S H C C C D G A F V L A K T G L L D T V
UniRef90_Q0SAE9 S D F P V E A L T A V R G A A D A G A I V L S L C C C S G V F L G E A G L L D G R
UniRef90_E8XSL4 L A A S K E V V E F V R R H D D A G K L I C P L C C C S A A A R V L G G N G L L K G
UniRef90_UPI0003655941 P E P S E R L J E A L T E H H G K G K L L V G L C C C L G S Y V L A C A G V L D G K
UniRef90_C3MPE6 L I R L E E V K N L T R K F F E L K K P V A A I C C C H G P Q I L I S A N L V K G R
UniRef90_X6A925 H A H E E E I V G W L K S A V R P G L R L V T I C C C S G A L L A A A G L L D D C
UniRef90_K0F5M9 T H G P T L T H I R R L A A S R R R V S I C C C S G A F L L A A A G L L D G K R
UniRef90_UPI00040FF726 V A L D A A F V G E I R R L A A G A R Y V T S V C C C T G S L L G A A G L L A G R
UniRef90_B2UHY7 E R P P A A M V N A V R D A Y E R G A T V V G L C C C L G A F V L A E A G V L D G H
UniRef90_UPI000478A874 A R P E V L A A I A R A A A R G A R L V S F C T G A F T L A D A G V L D G R V
UniRef90_UPI0004663F95 L R T E N A M R V V R E F T Q S G K I V A A I C C C H A P W L L I E A D A I R R
UniRef90_H3M754 L A A S Q D V V A F I T A H D K A G M L I C P I C C C S A A A R V L G G N G L L R G
UniRef90_G5H5N7 E A Y D E R F L K L I K E F N A G K I A A V C C C S G A F P V A K S G V L Q N R
UniRef90_M0AAM4 L R L D E D A V S L L R E H V E A G K P A G V I C C C H G P W L V A E A G V D D G R
UniRef90_K5XPQ4 M R A P G E V A A V R A L A A K A A R V A S V C C C T G A F L L A E A G L L A G R R
UniRef90_B8GG15 L V N D E T E F S S L G S L A E H A E F I L T V C C C T G S I L L S A R T G I L N G R
UniRef90_C6HU78 M M S H P G L M T F L R N Q G S H A R F V A A V C C C T G A L L L A A A G L L Q G R
UniRef90_G4I4B9 L R T K P A A V G L A K S F F D A G K P V A V I C C C H G P W T L I E A D V V E G R
UniRef90_D1Z2X1 L R I Y P E V I R F V Q D F D R T G K P V A A I C C C H G V Q L L I T A R L L K G K
UniRef90_ROFTZ2 P S S Q E E R S F L Q T D Q R A R R I A A L C C C T G G F V L A E S G L L S K R R
UniRef90_R6GV17 I A A C K Q A T D F I Y G L Y N R Q K L V A A T C C A P A I V L S E I P Q I C D
UniRef90_F3NAQ0 G A I P P D V A A A L A R I N G P H T R L V S L C C C T S A F L L A A A G L L D G G R
UniRef90_U7FJ34 L P L D T E L G N K L R R L N A M G R T F G A Y L L A R Y H L L D D G R
UniRef90_A0A023C3Z4 I G P C D S T L E F V R N A A Q Q A R R V A G V C C C T G A F V L A Q A G V L D G R
UniRef90_B2JRS7 R P P P L L K K V R A A L A R G A R V C S I C C C S G V F V L A E A G V L D G K T
UniRef90_M9R795 A A T T K R I L N W V R R E A R R G I J M G G L C C C T A A F S L A K A G L L D G K
UniRef90_G7STC4 L V K D M P F L T W L T Q L V D E A E F C L S V C C C T G S A L L A A M K Q L D G K
UniRef90_E1THK1 R T T N A E A L R F I S G A A A R S R T A G L C C C T G A F V L A E A G L L N G K
UniRef90_UPI0003696183 L R R H E E A V R F V G D F F R E S K P V A A I C C C H A P W M L I E A D V V R G R
UniRef90_U5W6D7 E T P P P T L V A A V R A A H H A G A R I A S L C C C T G A F V L A E A G L L D G R
UniRef90_F0C3B9 Y A A V S P G L V E W V A A R G A S V R R L C S I C C C T G A F L L A A A G L L D G R
UniRef90_D3Q8L2 A A A D R R I V A H V R R A R E S V R V A S V C C C T G A D I L A A A G L L D G K
UniRef90_U1K3F7 E L T K A P V I D W I K R T A Q L A P V V A S V C C C T G A F L L A K A E L L N G K
UniRef90_UPI00035F6908 N S V S R E H I H W L Q S Q S R L R L G A V C C C T G S W A L A K A G L L D H Y
UniRef90_Q2LUE8 L R K E Q K A L E J A R Y F S A R N K P I A A I C C C H G P Q I L I S A G L L E G R
UniRef90_K4YQZ4 P P Q T L L D S L V Q A R D R G A E I V G L C L G S F V L A W A G I L D G K R A
UniRef90_UPI00037D1CD3 L R R S P E V L D L V R R V A E G R P L G A I C C C H A G W V L V S A G L V R G R
UniRef90_UPI0003B74512 E R P Q Q A L L D A L Q A A H A R G A R I V G L C C C L G A C V L A D A G L L A G R
UniRef90_Q2SNJ8 L A Q N P Q L I D V L K N M N S Q G T V I A G N C C C T G A F F M A E A G I L D N R
UniRef90_W4NUHO R T L Q P A L I D V L A R R A P H V R V V C S G C C C T G A F Y L A A A G L L D G R
UniRef90_UPI000464D21E K Y H Q K S V F A W L R E E Y N R G V A I G G L C C C T G A H I L A Q A G L L S G K
UniRef90_UPI0004710A4A L R R L P E V L N F V K Y L N E H K K V I G V I C C C H A G W V L S A H I L K G V
UniRef90_C6WIS8 L L D A G A L A L T A E L G A S A R Y V T S V C C C T G S L V L G G A G L L D G H R
UniRef90_UPI00034DE34F L X R G E P V R E A L R A A R R G A R I M S I C C C T G A F V L A A A G L L D D L
UniRef90_S3IN95 S E E A A P L A R W L R Q R H A E G T T L S S V C C C T G A F L L A E T G L L A H R
UniRef90_UPI00047BF271 L R M D Q H A R A F I R A M H E A G K P T T A I C C C H G Q W V M V S A G I L K G R
UniRef90_G0HHQ9 L A G D L E Q V A R V I S R L A E O G A T M A S V C C C T G A Q V L G A A G L L D G
UniRef90_C4TT16 R S H N G L M N A L V A Q T Q R S R R Y G S V C C C S G A L L L A A A G L L D G H R

UniRef90_UPI00037CC547 R A T G F R A I R K D M Q N A G A E F V 140 D E P L V T D D N L I T S R R R P G D L 160
UniRef90_J3X9J3 E F T C Y P G L E E E C E K Y D P S A H F S E R I L T V E H K S V L L T S R R G P A T A
UniRef90_UPI00035CE237 R A T T H W A F T G E F L E E E C E K Y D P S A H F S E R I L T V E H K S V L L T S R R G P A T A
UniRef90_E8WRQ9 R A A T T H W E F E R D F L V S R R F P D A D T N A L Y V D D D N D R L V L T S S A G T A A A G
UniRef90_UPI0003959D26 E A T T H W S T A A Q L A S Q D H P D I R V D A D Y I Q Q D G R I W T S A G A G L T T C
UniRef90_G8PXQ7 G A T T H W R Y T D E L A A F P A V R R V D P D V L V Y V D G Q V I T S A G A G S A A G A
UniRef90_R5KS91 N A T S Y P G F E D K M D C K N Y G G R V V T D G K N F V T S G K G L G V A
UniRef90_Q10356 Q I T G H P S V R G Q L E E G G Y K Y L D Q P V V L E E N L I T S Q G G P G T A
UniRef90_UPI0003A08A2C P C T T H H I A K K E L T E A G G K V V A G R V V D D D G L V L T S A G G V T S A A
UniRef90_A4X8W5 R A T T H W Q A D S F R D R F P A V R L E E N F V D D G D I L T A A G S A A A
UniRef90_UPI000479C45D A T T H W R Y A E L F Q R R F P K V S Y V D D V L V Y H G N V A C A G S A A A
UniRef90_A0A038GE34 V T T T H W E D I N D L K E M F P L V D V L S T L R W V D G S F V T S A G S I S A G
UniRef90_J2HAN2 K A T T H W R Y V D T L R A Y P D I D V Q P D V L Y V D G D V L T S A G S I S A G
UniRef90_UPI000372B92E R C T I H W E Y R P A L V E A F P D D V T S S L F E I D R D R V T S A S G G T A T
UniRef90_D7UW55 T V T G F T S I L L D L E N A G P A N V K D E E A V V D D N N I V T S R N G M T D D
UniRef90_W0V5E1 H A T T H W R Y L A R Q L Q R F P K I H V T E D F T A E G S L L T A A G S A A G
UniRef90_W0NB65 R A T T H W R Y V A S I A A R Y P D I A L D A L Y I D E G S L L T A A G S A A G
UniRef90_UPI00047A4DD0 L T L T S W P S L Q T D L R N A G A T W V D E E V H T D H G L V T S R R K P D D L
UniRef90_Q7UF17 R V T G S P G I K D D L R N A G A I F E D A S V V V D D G H H V S S R R P D D L
UniRef90_W1ND40 R C T S H E L L E R Q I A P A A R V Q E D C I F T D D G R F L T S A G I S T G
UniRef90_A8HA05 K A T T N K M A Y E W L N D N P P S A Q W Q P K A R W V F D G K F L T S S G V S A G
UniRef90_U5W2G3 R C T T H W R H T E A L A R F P S A K V D P N Y V A D G N I L T S A G T S A A
UniRef90_C6AW07 R A T T H W Y V S R E L Q S R Y P K I K M E E D F I I D G S I W T S A G M T A G
UniRef90_X4Z466 L G G R E C T S H S C L E A L R A L A P D A R V L E N S G L W T S A G I T A G
UniRef90_H5XQ83 R M T S W P S L Q T D L R N A G A E W V D E E V V D D G S G L V S S R K P D D L
UniRef90_F6DG02 K V T G F F S I Q T D L R N A G G L Y R E E G V V D D G L V T A Q G P K D L
UniRef90_F4CIR3 T A T T H W G A F D L V A R F G A T P V T Q R V E H L P E R I V T A A G V S A G
UniRef90_UPI000288EED1 L T T S Y P A L E H D L V N A G A T F K N E E V I V D R N L V T S R T P D D E
UniRef90_D2VFF1 K V T C Y P S L K D K L T N S H E F V D E K V V V E K N V V T S Q G P F T A
UniRef90_G9YCW1 R V T T H W R Y C Q Q L L A E R Y P D I L Q V D A D Y V D S G Q I M T S A G S A A G
UniRef90_V4QCY3 T L T S W P S L K D D L N A G G H W V D Q E V I A V D G K L V S S R K P A D D
UniRef90_W8A4Y5 A T T H W G S T A L M A R R Y P R V T V E P D R I Y V D R N R W T S A G M S A G
UniRef90_UPI000362C6FD P V T T H W E D V D L R R R W P S L D V R E R Y L D H G D I A T S A G I S A G
UniRef90_G8S3R0 R A T T H W L A T G A L A R R Y P E I T V D P D Y V D D N G Q F L T S A G A A G
UniRef90_UPI000362E7DC R A T T H W A H A R D M M S R F P E I H V E E D Y I V D G P I W T S A G M T A G
UniRef90_X5L0B2 R A T T H W L Y V D Q L A R F H P Q I V V D P L Y V D E G D V L T S A G C A A G
UniRef90_UPI0003683472 R C T I H W N A D S L R E E F P R L H V T N E L Y E A D E G V L T C S G G V A G
UniRef90_H2FTT3 C C A I H P D N H S F A R E H F P L D V S N Q A M V V D A R T L T S A G P S S A
UniRef90_UPI000463B13D R C T I H W E N R A G F M E R Y P D I E C T N V F E I D R R K R Y T S A G G T T S
UniRef90_L1M4U1 R V T L H W E A L E A F K E R Y P R L D T E L F E V D R R R R T S A G G T A S
UniRef90_Q7CYK8 R C A I H W N L P G F S E A F P Q V E V Y A D L F E V D S N I Y T C A G G T A S
UniRef90_K9H456 R C T I H W M L R D M Q E E F A T L A V E R A L Y V F D R D R L T C A G G T A S
UniRef90_UPI0003470950 R T A T T H H M G L D V L E A T G T T V V D A R V V D D G D L V T A A G V T S G
UniRef90_C4L0V7 D A T G Y K S I K V D M E Y A G A K Y A D K E V V V C Q N Q L V T S R Q P D D
UniRef90_E6XA41 A S T T F P G D L L K Y Q E K F P Q V K K N S L E V H D G K Y I T S A G G A K S
UniRef90_Q0SAE9 K C T T H W E Y V E E L A R F P T A T V D P D V L F V D G N L V T S A G T A A G
UniRef90_E8XSL4 R R Y V C S G D L Y K D V K D G V Y V N Q S F V E D G N L L S G K G L G L A
UniRef90_UPI0003655941 R A T S H W A F S E Q F V Q A G F P N F D P N P L F V E H E T I I T S A G V A A S
UniRef90_C3MPE6 R L T S V T S I K D D V I A A G G I Y I D N D V L D V E D E N L I T S R R V P S D L
UniRef90_X6A925 E C T T H H G C I D E R L A P T A R V K E N R L Y V E D G E R L T S A G V T A G
UniRef90_K0F5M9 A T T H W E Y A A D L A R M Y P L V I T V D P A P L F I D G A V Y T A A G V T S A
UniRef90_UPI00040FF726 R S A C H W A W R H L P Q F G A I D E R R V V R D G N V I T G G V T A G
UniRef90_B2UHY7 E A T T H W S A A D A F S Q R Y P R V K L V P D D A A D G R L V T S A G T A A G
UniRef90_UPI000478A874 T T H W R W V A E F A R R H P T V H L E P D V L F V D D G D I V T A A G S A A A
UniRef90_UPI0004663F95 N V T S Y G S I K T D V R N A G G V W S D E K V V V D G Q I I T S R S P A D L
UniRef90_H3M754 R R Y V C S G E L W Q N V A D G E Y V D Q P V V E D A N L I S G K G L G H V
UniRef90_G5H5N7 K G T T Y H G Y W Q N K L K E L G V N V V N E P V V V D G N I I T S Y C P E T A
UniRef90_M0AAM4 T L T S Y P S L Q T D I R N A G G E W V D D E L V T D Q G L V T S R N P D D L
UniRef90_K5XPQ4 A T T H W R V A H L L Q R E Y P A V R V E A D R I F I D R D V W T S A G I T A G
UniRef90_B8GG15 R A T S N K R V F A W T K T A P G V T W E K A R W V R D G T I Y T S S G V S A G
UniRef90_C6HU78 Y A T T H W L A R E E L V K Y G A I P N P E R V V W D G K F V T G A G V S P G
UniRef90_G4I4B9 R I T S W P S V A T D L R N A G A E W V D E Q V V V C T G G L V S S R K P D D L
UniRef90_D1Z2X1 R A T G W K S L V V D L E D A G A T Y V N E P L I T D A Q Y I F S R Q P T D L
UniRef90_R0FTZ2 A T T H W F F A R D M Q A R F P D I Q V E D D R I Y V D D G A I W T S A G M T A G
UniRef90_R6GV17 R T I T C Y P D K D L T S R I K Y C R Y R K S E V V S S A N L I T G N G P L A V
UniRef90_F3NAQ0 A T T H W A L C E A L A R T F P R V E V D P D V L F V D G R V L T S A G G A A G
UniRef90_U7FJ34 R C T I H W N L R S L R E F P D V E V T S D I F A I D R N C I T C A G G A S
UniRef90_A0A023C3Z4 R A T T H W A Y A P A L I Q R L H P Q I E G D R I F I T D G S L W T S A G M T A G
UniRef90_B2JRS7 V T T H W R Y A D K L Q R F P Q L H V K P D A L Y V D G Q V I T S A G S A A G
UniRef90_M9R795 R A T I H W E N H D S F E F L E V E L T K S V F V K D G N R W T A G G T S S
UniRef90_G7STC4 W A T S N K L A F E W Q I N P D V K W K A V A R W V R D G K F Y S S S G V T A G
UniRef90_E1THK1 R A T T H W A F A E A L Q A R W P L I Q V E A D F I V D G A I W T S A G L T A A
UniRef90_UPI0003696183 R L T S Y P S L A T L R N A G A H I W T D E R V V V D S G L V T S R S P A D L
UniRef90_U5W6D7 R A T T H W A H T T G D R Y P A V S V D P D V L Y I D D G D V L T S A G K A A G
UniRef90_F0C3B9 R A A T H W G W A D R L S N L H P G I R V D A D F V R D G S Y V W S S A G V T A G
UniRef90_D3Q8L2 R A T T H W Y F A D R L A A A H P T I D P A P I F V R D G S V F T A A G V T S A
UniRef90_U1K3F7 N V T T H W E D I N D L A A M F P N V I S N K R W V K H D K F T T S A G I S A G
UniRef90_UPI00035F6908 E T S T H W E C L A S M Q E A F P K V A L S T R F S I D R D R E T S G G T A P
UniRef90_Q2LUE8 R A T C Y K T V J A A E L K R A G A R L Y E D R E V V V D S N L V T S R Q P S D F
UniRef90_K4YQZ4 A T H W E F E R Q F Q S L F P N V R L D I N A L Y V D D G N I I T S A G T A A A
UniRef90_UPI00037D1CD3 R V T G F S S I R D D L R N A G G L Y Q E E G V V V D G N L V T A Q G P K D L
UniRef90_UPI0003B74512 R A T T H W P G A A E L A R Q H P D I D V D A D Y L D D G L I T T S A G T A A G
UniRef90_Q2SNJ8 T A T T H W A F V D M F R Q R Y P K V D L R P E Q M A S E N V F C S G G G I A W
UniRef90_W4NUHO R A T T H W R D A H R L A E R F P R V H V D A E P D D S R A V W T S A G V T A G
UniRef90_UPI000464D21E R C A I H W N L P G F A E A F P K A N V Y A D L F E V D G N I Y T C A G G T A A
UniRef90_UPI0004710A4A K M T S T P G I K D L M Y A G A I W M D E P V V V Y N H I V T A R R P I D L
UniRef90_C6WIS8 A G T H W A F R E L L A P L G A Q V V P E R V V V D R N R I T G G V T A G
UniRef90_UPI00034DE34F R A T T H W A H A D N F R L F P R V D L D A D F V D E G H V I T S A G V T A G
UniRef90_S3IN95 M A T T H W T Y A A V L A E R F P D V R V D T D I I D E G D V I T A G G L M A W
UniRef90_UPI00047BF271 R A T A V W N I Q D L E N A G A V V L D E P C V V D G N L I T A R F Y D L
UniRef90_G0HHQ9 N A T T H W M A R G Q L Q N S H P S A R I S E R W V D S G D V V T S A G V S A G
UniRef90_C4TT16 V T T H W A V A G Q L A K E Y P Q V Q V E A D A I C I D G P L R T A A G V T S G

UniRef90_UPI00037CC547
UniRef90_J3X9J3
UniRef90_UPI00035CE237
UniRef90_E8WRQ9
UniRef90_UPI0003959D26
UniRef90_G8PXQ7
UniRef90_R5KS91
UniRef90_Q10356
UniRef90_UPI0003A08A2C
UniRef90_A4X8W5
UniRef90_UPI000479C45D
UniRef90_A0A038GE34
UniRef90_J2HAN2
UniRef90_UPI000372B92E
UniRef90_D7UW55
UniRef90_W0V5E1
UniRef90_W0NB65
UniRef90_UPI00047A4DD0
UniRef90_Q7UFI7
UniRef90_W1ND40
UniRef90_A8HA05
UniRef90_U5W2G3
UniRef90_C6AW07
UniRef90_X4Z466
UniRef90_H5XQ83
UniRef90_F6DG02
UniRef90_F4CIR3
UniRef90_UPI000288EED1
UniRef90_D2VFF1
UniRef90_G9YCW1
UniRef90_V4QCY3
UniRef90_W8A4Y5
UniRef90_UPI000362C6FD
UniRef90_G8S3R0
UniRef90_UPI000362E7DC
UniRef90_X5L0B2
UniRef90_UPI0003683472
UniRef90_H2FTT3
UniRef90_UPI000463B13D
UniRef90_L1M4U1
UniRef90_Q7CYK8
UniRef90_K9H456
UniRef90_UPI0003470950
UniRef90_C4L0V7
UniRef90_E6XA41
UniRef90_Q0SAE9
UniRef90_E8XSL4
UniRef90_UPI0003655941
UniRef90_C3MPE6
UniRef90_X6A925
UniRef90_K0F5M9
UniRef90_UPI00040FF726
UniRef90_B2UHY7
UniRef90_UPI000478A874
UniRef90_UPI0004663F95
UniRef90_H3M754
UniRef90_G5H5N7
UniRef90_M0AAM4
UniRef90_K5XPQ4
UniRef90_B8GG15
UniRef90_C6HU78
UniRef90_G4I4B9
UniRef90_D1Z2X1
UniRef90_R0FTZ2
UniRef90_R6GV17
UniRef90_F3NAQ0
UniRef90_U7FJ34
UniRef90_A0A023C3Z4
UniRef90_B2JRS7
UniRef90_M9R795
UniRef90_G7STC4
UniRef90_E1THK1
UniRef90_UPI0003696183
UniRef90_U5W6D7
UniRef90_F0C3B9
UniRef90_D3Q8L2
UniRef90_U1K3F7
UniRef90_UPI00035F6908
UniRef90_Q2LUE8
UniRef90_K4YQZ4
UniRef90_UPI00037D1CD3
UniRef90_UPI0003B74512
UniRef90_Q2SNJ8
UniRef90_W4NUH0
UniRef90_UPI000464D21E
UniRef90_UPI0004710A4A
UniRef90_C6WIS8
UniRef90_UPI00034DE34F
UniRef90_S3IN95
UniRef90_UPI00047BF271
UniRef90_G0HHQ9
UniRef90_C4TT16

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

1 10 20 30 40

UniRef90_D3Q4X4 H K V A V L A L D D V Y P F D L G I P A R V F R A M P Y E V V T C S V D G A

UniRef90_Q82NU2 H R L A V L A L P G V P P F E L G I P S R V F G R P L Y E V T V C Y A D D G A

UniRef90_M9TR97 I V L F D G F D P L D V I A P Y E V L H A G G A T V E L L A S A E G P

UniRef90_U0F491 K T I G I L V Y D G V L T S D V T A P L E V F G V A D Y D V V T L S V E T D T

UniRef90_J7KSF3 T V A V V V S E N F S P F H L S T I P S M V F S D M L Y E E K F F C A E K P

UniRef90_X0MQU6 H R V A V F V R P G M L P I E V G I V H R I E G E A R Y E P V T C T L E P G G

UniRef90_A8U2U5 A T R L V V L L R D G G F A S A V V G P A E I L R M A G F R V T I A S P S G G

UniRef90_F8G774 I I V V L F N E F E T L D V F G P V E V F G K E H F K L E Y S L E G G

UniRef90_F3NQ12 T M R I A F L T A P G V E Q V E L T E P W Q A V T D A G H E P V L V S T A S G

UniRef90_UPI00016A7468

UniRef90_B9TFX6 H T V A I L L A L D K V I P F D L I A T P L Q V I F S F A G R P A Y R V R V C G N

UniRef90_A4FHL2 I L V P P H A L L L D I A G P L Q V I R Y A N D E F D C H Y I A S R

UniRef90_UPI0003C19712 K K I L M V I A P D F E D Y C E V V E P T A I L K A N G A E V T I A S T T A S R

UniRef90_UPI000465F841 S D K K I L F L C G D Y E M D E Y V M V P F Q S L Q A L G C H H V D A V C P D A L

UniRef90_K3Z6Y9 H R V A V W T Y E G M T P F E G V V V E V F G L P W Y S L D V C S A T P G

UniRef90_UPI00038223F0 I V L F D G F D P L D V V A P Y E V L Y A G G I T V E L V S A E G P

UniRef90_UPI00036AD70E R I V F A I L Y P D M T Q L D F T G P H Q F F R W P D S E V I I A S P A G G

UniRef90_K5ZGH6 H T V A I V A L E G V L P F D L S I P T E V F G R A G Y A V R V C G V T P E

UniRef90_H8MX12 K M A F V L F D G M T S M D V M G F Y E A V S W A K E N V S W T F C A N K

UniRef90_W4EI07 H R V A V F V R H G M L P I E A G I V H R L E G R V R Y E V A T C A L E G V

UniRef90_UPI00034B25D4 I G S L V F R D M D Q I D F T G P F E V L S R L P G G H H R V Y G I T G

UniRef90_UPI00046E94BA S R H R V V L A Y D G L C T F E F G T A V E I F G E M G E R W Y Q F A V A A

UniRef90_C2EV55 K V A V V E A P G C E E V E G L T V I D V L R D L G I D A K M V G L E E D

UniRef90_UPI00046E94BA K L A T V L T N M F E D S E Y A D P A K A F Q D A G H E V V T I E K E A G

UniRef90_UPI00036B1DDB A V K T F G F L L I P N F T T I G F A S A I E T L R M A N L I A A T L L I A A D H

UniRef90_V8QMD6 I A I V I N D A T E T T D Y L A V P Y G V L R N A D V A D V T L S T G D

UniRef90_W9DAX5 R I A V Y A F D G I S M F H L A A P Q L V F G E T A R X D P G S W T T V

UniRef90_G0Q1A3 R H V A V L V L E G A K P V D V S I P A Q V F T S M P Y E V R V C G A A P G

UniRef90_I4ZQ29 K K V L I I T S N G I E H D E L V Q P L D F L Q S H G F V V I H A A E K N E

UniRef90_Q8FSF5 S K K I L V V T S D G T E K D E L V V P V D K L R E L G H E V T V T P N G K

UniRef90_D2QX69 A G Q K I L F F T G D I Y E D L E L W Y P K L R L I E A G A E V V I A A D E A K

UniRef90_I4MYX5 V A L V G Y P Q F P L S L I G S V E C A N Y E F H L V S E T G G

UniRef90_L9PM86 V A V V G N G T E L T D F S I P Y G V L A R S G A V Q L L S V A T K A

UniRef90_L0GVL9 A A K R I L M L V G D Y V E D Y E V M V P F Q I L V M V G H Q V D A V C P D G A

UniRef90_Q2JEF7 R K I A F L V A P G V E Q V E L T E P W K A I E Q A G L S P V L V S T E G

UniRef90_C7LNF0 G K K F V L L V E T Q F N D H E F W Y P Y F R L K E A G A Q V V V S G K A G

UniRef90_M3FLI8 R I A F L T A P G V E Q T I E L T E P W Q A A K N A G H E P V L V S T T S

UniRef90_S5EWB0 L F F E S A G I A D I L M Q A N Y Q M A L V T T Q T P V

UniRef90_UPI00046E94BA H K I G L I T A D H F Q M L A I S T L T V F E F A N M A T G K A F Y Q P H

UniRef90_J1YKW3 R T V S V V V I D G I A P F E F G V V C E V F G I P A F D F R V C G E R P G

UniRef90_G0ETY6 A V A L F E G F Q A L D A F G P L D V L A A T K D A V S T A A P D A H

UniRef90_C7QKC0 R T V A V L A F D G I S P F H L S V P C L V F G D R L G T E H L Y D V Q V F

UniRef90_J5JT27 I A I V I N D M T E T T D Y L M P Y G I L A R A D I A D V L T L A T Q Q

UniRef90_D2Q481 V A V L V R H G L L P M E L G I V H R L F G Q A L Y E V L T C T P D P G

UniRef90_UPI000477536C T V Q I V L F D G F D L L D A I A P Y E V F C A A A M S V E L V T A E G P

UniRef90_W5RB99 R R I L V L T N G T E S D E L T K P I A A L R E A G A T V T V A A T S E P G

UniRef90_UPI00026C7429 V A I V A D N G T E T D F I V P Y A I L K T S G A A D V V A V S A D E

UniRef90_U2FLT4 M F D G V E E L D C I A P Y E V L S A G A D I R Y V T T G E P

UniRef90_S2YH44 G R T F A F L L V D K F P M F S L A A A D T M R T A N Y S W I T V S A T G A

UniRef90_UPI0002E30698 K R V L L L L A D G F E S V I E A S F T D V F G E G N G E T E L V T A G L R

UniRef90_B1Y2Y5 T R L I G L L I Y D G V E L L D H A G P Y E V F T T A S A R L H G A G L P P P

UniRef90_D2PWQ7 V A V V A A H V K S L E L A I P A Q V F G T A S Y E V V V C G E R A D

UniRef90_UPI00029A862F V A V L A L D E V S A F D L A L P C Q V F A L V T G P E G T P A Y E V R

UniRef90_Q3KCP7 H R V G Y L I T E G F Q V M S L A T Q A V F E F A N I V A G E E I

UniRef90_UPI0002E4184C K R I L M L L A N G V E P L E I A A F T D V E G W A D F T L V H A G L R S E

UniRef90_D4X8C3 R H F G F L P L Q F T M L S T T A I E V L R M A N Y R W S V V A P K G G

UniRef90_M0QCQ2 A F D G I S M F H L S V P A D H F G T A G Y E L T V C A V E P G

UniRef90_Q2JBH2 A T R H A V V L A V P A T V A M D L A I P A Q V F G H L D L A E H Y T F T

UniRef90_R1FVY7 H R M V V V L L E D V L P L D Y A I P I H V F R E A P E A Y D L V T V S V G

UniRef90_Q0TKL8 V G L F L E N V H N D H E L W Y P L Y R L R E A G M K V T V I G P E R K

UniRef90_K8NXL8 T V A V L V A P G T E R V E L E Q P R R A L T D A G A E V D V L S T D D G

UniRef90_M0CME6 H R V V V L A L D G V I P F D L G I P A R L F G A A P Y D V V T C G V S A G

UniRef90_C7Q6K3 I V L F D G F D P L D V I A P Y E V L V A G S D D V E L V T A E G P

UniRef90_K0UYH4 G R K V A F L V A E G I E Q V E L T E P W K A V E A G G T P E L V S V E R P

UniRef90_A4FGZ7 R V A I L I E N H F E D S E Q I P Y T A L K Q A N A E V V L G S R M N

UniRef90_B1WZ24 S K R I A V L V T H D F E D I A Y S E P V I Q A F R A A R S L L N I E N R A G

UniRef90_N8Q7P6 R V A L V A F P G V R A F D V S I T E V W G V D R T D R G V P A F E L R

UniRef90_E8VZ77 V V A L A Y D R L C T F E F G C V A E V F A R P E L G V D W Y R F A V C

UniRef90_UPI00046B6A05 Y D G I S T P F H L S V P S V V E G K E R D A D S P A F E

UniRef90_A9AFW6 V A I L A E P G T E T T D L I A P Y A V L A E S G A D V R I V A A G M T

UniRef90_ROD4T9 K K V L L L L A K G F E S F E A S V F I D V L V D G D K T K L Y T C G F T

UniRef90_N1W4V7 K I A C L I T D M F E D V I E Y T D P A K S Y K E A G H E V D V I E K E S G

UniRef90_UPI0001850B5E G K K I A M L I G P G Y E D L E F W V Y M R M K E E G A E I D V V G M E K N

UniRef90_E3DNZ8 R I G L L A L P E T T P A A V Y G L Y E V L S A A G S I W D R L T G Q E T

UniRef90_UPI00037103C5 V A I L L F D Q Y E T L D A M G P A E I F G S L P N T A I H C L I S L D G

UniRef90_W01338 V C F L L L P G T L I M D V A G P A E V F R L A N A Q F A L Q F I S P E

UniRef90_I3U7H9 I A I L L A F D G V P M F H L S V P Q V V F G E A D W R T D L V A E R A G

UniRef90_A6WBK8

UniRef90_J2JYQ3 R S V G F I L E D G F Q V M G L A A L S A F E F A N Q D Q G T E A Y K L T

UniRef90_UPI00035D07FB R S I V F F L V P N F S M I A F A T A I E P L R I A N Y R W R L T S V D G K

UniRef90_A6X027 I L V A A L P G C L V S S V T G V L D V E A V A N H A Q R S A G N G L

UniRef90_UPI0003B5F2B2 I A I L I N D M T E T T D Y L M P Y G I L K R A D V A D V V T L A T G P

UniRef90_UPI0003625B8F R V A I L S H P N V S L F E L G C A V I E M F A L P R P E F D N W Y Q T E I

UniRef90_F9RYS7 A A K K I L M L V G D Y V E D Y E V M V P F Q A L Q M V G Y T V D A I C P E G D

UniRef90_UPI000345C3B0 A A K K I L M L V G D Y V E D Y E V M V P F Q A L Q M V G Y T V D A I C P E G D

UniRef90_A0ZEY7 R R V A F L L E N F S M M A F T G A L D A L V I T A N Y E V L V G S N G G

UniRef90_S2LHJ3 A I K K I L M L V G D Y V E D Y E A M V P F Q M L Q M V G Y H Q V H A V C P T A I

UniRef90_D3RQ19 H V N V V L Y N F T A L D A F G P V E V L N R E D Y K I C F A V S L N G G

UniRef90_K9D1D3 K V L L F C K G F E T M E F A P F V D V M G W A D M P V E V V T A G F S

UniRef90_UPI0003B6EDE5

UniRef90_D3Q4X4 P V R T N A D Y S T 50 L V D H D A S L 60 L A E A D T V I V P 70 P H G D P Y P F G I 80
UniRef90_Q82NU2 P V L S D A G F T V Q P A A G P E A L L A A A D T V I V P P T H A M P E L G R G
UniRef90_M9TR97 R E V A G G E T G L K I G R A T A A L G D P A R A P D D E A D G P A P D A G D R Q Q D A
UniRef90_U0F491 H T V T T E E G L K A L G V A D T W L G E A P L D V L I L T S S Y R Q M D P
UniRef90_J7KSF3 G M V A S E E H G F S I N V E H G F S A L E K A D L I V V P H I W S H P E
UniRef90_X0MQU6 A V P T D A D F T V N V A H G P E V L G T A D T V V L P A S A V D Y D P G P E
UniRef90_A8U2U5 P A A C V G G L T V P A E A A L A D T G V P D L V L G S S G I A G M A J A D
UniRef90_F8G774 N V Y S S Q N V C I N T K K L S D A N S K D S I L F V P G G I G T R E
UniRef90_F3NQ12 E I Q A F N H L D K A D T F P V G E V V G E A G S F D A L L V L P G G V A N P D A
UniRef90_UPI00016A7468 E P S D T L I V A G G W G V Y D A
UniRef90_B9TFX6 D Y D M V A L P G G M P G S E H
UniRef90_A4FHL2 A P A V D A G A F T L Q P R W G L E A L L A D A D T I V L P G C S E P E
UniRef90_UPI0003C19712 D R Q Q S S I G L D L C G L E A L P E N A F L L I S T S R S E S E P D T
UniRef90_UPI000465F841 P A I G T N G F R V T P D I K I S D A N A D D Y D A I V L P G G T G V I S H
UniRef90_K3Z6Y9 H D F E G D Q T Y S E K P G H D F T L T A S F E S M D A A L V I P G G R A P E Y
UniRef90_UPI00038223F0 Q P M R A V G G F A L T A D H G P E L V L A A A D T I I I P G V P D
UniRef90_UPI00036AD70E R E V V I G G T G L T L R A T A A L D P A R P G E P A D G P D E H I P A L L G R A
UniRef90_K5ZGH6 D V L S E G L I F A G T R R L A E I E A C D L I C V P G G R G T T A T
UniRef90_H8MX12 V H A G A F R V K T Q H G L G V L A R A D T I V L P G I A D V S
UniRef90_W4E107 A E V T D D R G L T M K A N E V L P D L G T F D L V F L P G G M P T R T
UniRef90_UPI00034B25D4 I G T D S D S D L T L N V R H G P E A L L A D A D T V I L P A A E E D Y G E R P H
UniRef90_W7SVV7 Q P V R D V R G L T I V P D A I G D A P A L D V L H V P
UniRef90_M9W3H1 V D D G E L R A T G G I R L M T D G G M N L L Q D A Q T I V V P G W R G I D
UniRef90_C2EV55 R E V L G A H N I K L T C D E L M G D Q L L K Y D L V A F P G G M G G S K R
UniRef90_UPI00046E94BA T V V K G M K K G T P V R I D K G I D E V K P E D F D A L F I P G G F S P D Q
UniRef90_UPI00036B1DDB E P V Q A S N G M R V V P D Y S L E D A P A L D A L F V V G S N P M P
UniRef90_V8QMD6 G P V R L Y P A L T V R A Q A T V A Q F D Q R N P Q G A D Y V I V P A M S R D D
UniRef90_W9DAX5 L W S A A G G E V G V G E G Y K I S G L V G P E A A A D A D M I V V P S W P E D
UniRef90_G0Q1A3 L V A G G D G L S Y H V A H G L D V L A W A D T V F I P G Y R S P D R D
UniRef90_I4ZQ29 P V H T M E A D S K P S A Q Y T P D T T M H E E N D Y D L L V I P G G T V N A D K
UniRef90_Q8FSF5 D V Q T V D W D L E F P V D G D L A S H L N N D Y D V L L P P G G T V N A D N
UniRef90_D2QX69 Q L Y A G K H S Y P C K S D V A I A S V D P T Q F D G L V V P G G F M P D K
UniRef90_I4MYX5 A V M S S Q G F S V N T P L R D E G Y D T L I S G Y L D Y
UniRef90_L9PM86 P L S M R P T L T L Q A D A T T A E F D Q R Y P Q G A D Y V I V P A V S
UniRef90_L0GVL9 Q T Y S E K P G H N F T V N A D F N A V D E T A Y D G L V I P G G R A P E Y
UniRef90_Q2JEF7 G R V Q A F R H L N P A D T F P V D I T V D P A D F D A L V L P G G V A N P D E
UniRef90_C7LNF0 Q S Y E G K Y G T P A K S E K A P A D I N V A E F A G I I V P G G Y A P D H
UniRef90_M3FLI8 G R V Q G F D H L D K A D T F P V D A V V G E T P F D A L V L P G G V A N P D F
UniRef90_S5EWB0 R V V H G S S G L N L A D H R L A D L P S E V I R D T I V T G K G A T E E E
UniRef90_J1YKW3 V Y S E F G S G T V R S S S G I G V D S L P L S D D T Q V D W L V A G V L T P V E
UniRef90_G0ETY6 S S V T S F Q G P A L G R V E R L P A R L E A G D V V I A V G S K L L D T L T T
UniRef90_C7QKC0 E P L A M G V G A Q L P E Y G L E A L R D A D L V A V P A A R L R D E Y
UniRef90_J5JT27 Q T I E Q W V L P T H T F D D A P D N I E V L I I P G G Q G T R K P E T
UniRef90_D2Q481 A E Q A G R L G T N A G F G L H V E R E L D V L R T A D L V I L P S W T P G
UniRef90_W1JW89 G P V T L Y P A L K V Q P H A T I A D F D A A H P D G A D Y V I V P A M S R D D
UniRef90_UPI000477536C E I R T D A D F T I M V G H G P E L L A Q A A T V V V P A S D E D Y R P Q D G
UniRef90_W5RB99 R S V P S G A I N L K I E A S G R L D P E C P G A S G D V E D G P D S I P A T L G
UniRef90_UPI00026C7429 V V K T L A G D R D P G P E V P V D T T Y E Q V D F D A L V I P G G T L N A D Q
UniRef90_U2FLT4 G E V E L M P A R L R M L A D T T F D R F D A T V P A G A D V V I V P A L H G A D
UniRef90_S2YH44 G P V R C G H G T E I Q V R H R W A P Q E A D L I V V P G G G Y A R R D
UniRef90_J3HTK1 P V T A S N G L Q I N V E Y A L A E L P A A D I F F I C A G L T T E
UniRef90_UPI0002E30698 E E L K C T W N F R V K P E M L L Q D V K V E D D A L A I G G G F E Q A G Y F T
UniRef90_B1Y2Y5 F E V L S A S Q A P I R A R A G L Q L L P D Q T I D A H P P L D L L M I P G G V
UniRef90_D2PWQ7 L V V C G R G G T E L Y R M T A P H D L T A A L T A D T V I V P G A R T D
UniRef90_UPI00029A862F V C V D R E T A A T A G P T A P F R V S S P Y G W D D V L H A D T V V V P G N P
UniRef90_Q3KCP7 Y K V Q N F S I G G G T V R S S L G M Y I D T L P L I G A P G L A D T W M I T G T
UniRef90_UPI0002E4184C I L L T T A S N G L R I S N L L D E L D L G D Y D A L A L P G G S E P F Y E
UniRef90_D4X8C3 P I T A S N G L Q V Q A T E L D E D A P P D A V F V C G G K R S N M D
UniRef90_M0QCQ2 S L A T S A G V P I S V T E D L G A F E S A D T V V I P S W A D R
UniRef90_Q2JBH2 L C T E Q P G S L P T T T G F A L E V A H G L A A L D A A D T V V V P G Y A P L
UniRef90_R1FVY7 G G P V P V A G G T V V P D G G L E L L R R A G T I V V V P G Y A D A A G
UniRef90_Q0TKL8 D Y V S K L G Q V L P A E T V A E K D A V A T L Y D A L I I P G G Y A P D M
UniRef90_K8NXL8 E A Q T V D N D L E A A D T V E I G A G T I D E S D Y D A T H V P G G T V G A D R
UniRef90_M0CME6 P V T T S G D Y S L Y V E H G A E A L A E A D T V I V P P A Y P T V D D L A D
UniRef90_C7Q6K3 R T V V S S R G L T L Q A T A G L D P A K A G Y V I V P G A S G P L A G D P D E
UniRef90_K0UYH4 G S V Q A F N H L D K A D T F T V D K V V R P T D Y D G L V L P G G V A N P D N
UniRef90_A4FGZ7 D T Y K G K R G K V S I K P D A T A T E V R S E D F D V I I I P G G A P D A
UniRef90_B1WZ24 N I V Y G Q K C K S A V T I D R S I D H V S V H D F D A L L I P G G H S P N Q
UniRef90_N8Q7P6 R V A T A D P V Q L R G G L S L T P D R T L A W L A A D L V V V P G L D D H E
UniRef90_E8VZ77 A V D R G P L R A A G G I S V T V P Y T P K L L D H A T T I V V P G W R D A D E
UniRef90_UPI00046B6A05 F R V C S A D R G P L A T T G G Y T A L V A P Y A L D D A D I V I V P S W R D E N
UniRef90_A9AFW6 P I R L M P G Q A F V R Q A T Y A D L R P D V I V V P F M M P A A D P
UniRef90_R0D4T9 K E V T G S F G V K L Y V D Y L I N E I D I N D E A L A I P G G F E E Y G F Y E
UniRef90_N1W4V7 K T V T G K Q G D A K V T I D K S I D D V Q V E D F D A L F I P G G V S P D D
UniRef90_UPI0001850B5E K E Y S K K H G L T K K A D F T A T E V L E E Y D G V L V P G G W T P D K
UniRef90_E3DNZ8 R A R R I V P S I V A R R K E T F T C A I G T A D C D V V I V T D L A L P L D D
UniRef90_UPI00037103C5 G P V Q S A Q G V V V M T H P V S H W T E P M D I A L L P G G K S T L S
UniRef90_W01338 H T I T S S V G L S F H D I A P L P D L R Q L R K S G P V W I H H P V W L K A
UniRef90_I3U7H9 S I R T A S E G H S I G G V L I G P R A F E D A D V V V V P S W F E D G R E
UniRef90_A6WVBK8 W R S I T
UniRef90_J2JYQ3 V M S E K G G T V R S S L K I G V E T E P L G D F P D T L M V V G E L T P S S S
UniRef90_UPI00035D07FB P V T A S N G V E C A V N A S L E D E R R F E Q R P S M V F V C S G V I V I E E
UniRef90_A6X027 A P V R G F D G R T L P D V D L A R S K D E A P P D L Y V L P A I F D N L I Q G
UniRef90_UPI0003B5F2B2 G P V A L F P V L K V E P D A T L A A F D A A H P D G A D Y V I V P A M S R D D
UniRef90_UPI0003625B8F V N L I D Q P I T T T G D I V M Q T R H V A G L D G Y D M L V I P S W P T Q S G
UniRef90_F9RYS7 Q T Y S E K R G H N F L N A T F E V I A D T Y D G L I V P G G R A P E Y
UniRef90_UPI000345C3B0 Q T Y S E K P G H N F L N A T F A E V E A T Y D A L V I P G G R A P E Y
UniRef90_A0ZEY7 D T V L S D L G I D I S V D C Q L S Q L D E R Q L D L V L C G G L R V Q P
UniRef90_S2LHJ3 H D F E G D Q T Y S E K P G H N F A I N A D F A T V D P A K V I P G G R A P E Y
UniRef90_D3RQ19 L I T N E N Q N I R I E T E P M S V I E D G G I L L I P G G W G S C D
UniRef90_K9D1D3 K T V I S T F G I P I L V D K S F D E I D V S E Y D A L A I P G G F F G F Y E
UniRef90_UPI0003B6EDE5

UniRef90_D3Q4X4
UniRef90_Q82NU2
UniRef90_M9TR97
UniRef90_U0F491
UniRef90_J7KSF3
UniRef90_X0MQU6
UniRef90_A8U2U5
UniRef90_F8G774
UniRef90_F3NQ12
UniRef90_UPI00016A7468
UniRef90_B9TFX6
UniRef90_A4FHL2
UniRef90_UPI0003C19712
UniRef90_UPI000465F841
UniRef90_K3Z6Y9
UniRef90_UPI00038223F0
UniRef90_UPI00036AD70E
UniRef90_K5ZGH6
UniRef90_H8MX12
UniRef90_W4EI07
UniRef90_UPI00034B25D4
UniRef90_W7SVV7
UniRef90_M9W3H1
UniRef90_C2EV55
UniRef90_UPI00046E94BA
UniRef90_UPI00036B1DDB
UniRef90_V8QMD6
UniRef90_W9DAX5
UniRef90_G0Q1A3
UniRef90_I4ZQ29
UniRef90_Q8FSF5
UniRef90_D2QX69
UniRef90_I4MYX5
UniRef90_L9PM86
UniRef90_L0GVL9
UniRef90_Q2JEF7
UniRef90_C7LNF0
UniRef90_M3FLI8
UniRef90_S5EWB3
UniRef90_J1YKW3
UniRef90_G0ETY6
UniRef90_C7QKC0
UniRef90_J5JT27
UniRef90_D2Q481
UniRef90_W1JW89
UniRef90_UPI000477536C
UniRef90_W5RB99
UniRef90_UPI00026C7429
UniRef90_U2FLT4
UniRef90_S2YH44
UniRef90_J3HTK1
UniRef90_UPI0002E30698
UniRef90_B1Y2Y5
UniRef90_D2PWQ7
UniRef90_UPI00029A862F
UniRef90_Q3KCP7
UniRef90_UPI0002E4184C
UniRef90_D4X8C3
UniRef90_M0QCQ2
UniRef90_Q2JBH2
UniRef90_R1FVY7
UniRef90_Q0TKL8
UniRef90_K8NXL8
UniRef90_M0CME6
UniRef90_C7Q6K3
UniRef90_K0UYH4
UniRef90_A4FGZ7
UniRef90_B1WZ24
UniRef90_N8Q7P6
UniRef90_E8VZ77
UniRef90_UPI00046B6A05
UniRef90_A9AFW6
UniRef90_R0D4T9
UniRef90_N1W4V7
UniRef90_UPI0001850B5E
UniRef90_E3DNZ8
UniRef90_UPI00037103C5
UniRef90_W01338
UniRef90_I3U7H9
UniRef90_A6WVBK8
UniRef90_J2JYQ3
UniRef90_UPI00035D07FB
UniRef90_A6X027
UniRef90_UPI0003B5F2B2
UniRef90_UPI0003625B8F
UniRef90_F9RYS7
UniRef90_UPI000345C3B0
UniRef90_A0ZEY7
UniRef90_S2LHJ3
UniRef90_D3RQ19
UniRef90_K9D1D3
UniRef90_UPI0003B6EDE5

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

UniRef90_D3Q4X4
UniRef90_Q82NU2
UniRef90_M9TR97
UniRef90_U0F491
UniRef90_J7KSF3
UniRef90_X0MQU6
UniRef90_A8U2U5
UniRef90_F8G774
UniRef90_F3NQ12
UniRef90_UPI00016A7468
UniRef90_B9TFX6
UniRef90_A4FHL2
UniRef90_UPI0003C19712
UniRef90_UPI000465F841
UniRef90_K3Z6Y9
UniRef90_UPI00038223F0
UniRef90_UPI00036AD70E
UniRef90_K5ZGH6
UniRef90_H8MX12
UniRef90_W4EI07
UniRef90_UPI00034B25D4
UniRef90_W7SUV7
UniRef90_M9W3H1
UniRef90_C2EV55
UniRef90_UPI00046E94BA
UniRef90_UPI00036B1DDB
UniRef90_V8QMD6
UniRef90_W9DAX5
UniRef90_G0Q1A3
UniRef90_I4ZQ29
UniRef90_Q8FSF5
UniRef90_D2QX69
UniRef90_I4MYX5
UniRef90_L9PM86
UniRef90_L0GVL9
UniRef90_Q2JEF7
UniRef90_C7LNF0
UniRef90_M3FLI8
UniRef90_S5EWB0
UniRef90_J1YKW3
UniRef90_G0ETY6
UniRef90_C7QKC0
UniRef90_J5JT27
UniRef90_D2Q481
UniRef90_W1JW89
UniRef90_UPI000477536C
UniRef90_W5RB99
UniRef90_UPI00026C7429
UniRef90_U2FLT4
UniRef90_S2YH44
UniRef90_J3HTK1
UniRef90_UPI0002E30698
UniRef90_B1Y2Y5
UniRef90_D2PWQ7
UniRef90_UPI00029A862F
UniRef90_Q3KCP7
UniRef90_UPI0002E4184C
UniRef90_D4X8C3
UniRef90_M0QCQ2
UniRef90_Q2JBH2
UniRef90_R1FVY7
UniRef90_Q0TKL8
UniRef90_K8NXL8
UniRef90_M0CME6
UniRef90_C7Q6K3
UniRef90_K0UYH4
UniRef90_A4FGZ7
UniRef90_B1WZ24
UniRef90_N8Q7P6
UniRef90_E8VZ77
UniRef90_UPI00046B6A05
UniRef90_A9AFW6
UniRef90_R0D4T9
UniRef90_N1W4V7
UniRef90_UPI0001850B5E
UniRef90_E3DNZ8
UniRef90_UPI00037103C5
UniRef90_W01338
UniRef90_I3U7H9
UniRef90_A6WVBK8
UniRef90_J2JYQ3
UniRef90_UPI00035D07FB
UniRef90_A6X027
UniRef90_UPI0003B5F2B2
UniRef90_UPI0003625B8F
UniRef90_F9RYS7
UniRef90_UPI000345C3B0
UniRef90_A0ZEY7
UniRef90_S2LHJ3
UniRef90_D3RQ19
UniRef90_K9D1D3
UniRef90_UPI0003B6EDE5

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

UniRef90_D3Q4X4
UniRef90_Q82NU2
UniRef90_M9TR97
UniRef90_U0F491
UniRef90_J7KSF3
UniRef90_X0MQU6
UniRef90_A8U2U5
UniRef90_F8G774
UniRef90_F3NQ12
UniRef90_UPI00016A7468
UniRef90_B9TFX6
UniRef90_A4FHL2
UniRef90_UPI0003C19712
UniRef90_UPI000465F841
UniRef90_K3Z6Y9
UniRef90_UPI00038223F0
UniRef90_UPI00036AD70E
UniRef90_K5ZGH6
UniRef90_H8MX12
UniRef90_W4EI07
UniRef90_UPI00034B25D4
UniRef90_W7SVV7
UniRef90_M9W3H1
UniRef90_C2EV55
UniRef90_UPI00046E94BA
UniRef90_UPI00036B1DDB
UniRef90_V8QMD6
UniRef90_W9DAX5
UniRef90_G0Q1A3
UniRef90_I4ZQ29
UniRef90_Q8FSF5
UniRef90_D2QX69
UniRef90_I4MYX5
UniRef90_L9PM86
UniRef90_L0GVL9
UniRef90_Q2JEF7
UniRef90_C7LNF0
UniRef90_M3FLI8
UniRef90_S5EWB0
UniRef90_J1YKW3
UniRef90_G0ETY6
UniRef90_C7QKC0
UniRef90_J5JT27
UniRef90_D2Q481
UniRef90_W1JW89
UniRef90_UPI000477536C
UniRef90_W5RB99
UniRef90_UPI00026C7429
UniRef90_U2FLT4
UniRef90_S2YH44
UniRef90_J3HTK1
UniRef90_UPI0002E30698
UniRef90_B1Y2Y5
UniRef90_D2PWQ7
UniRef90_UPI00029A862F
UniRef90_Q3KCP7
UniRef90_UPI0002E4184C
UniRef90_D4X8C3
UniRef90_M0QCQ2
UniRef90_Q2JBH2
UniRef90_R1FVY7
UniRef90_Q0TKL8
UniRef90_K8NXL8
UniRef90_M0CME6
UniRef90_C7Q6K3
UniRef90_K0UYH4
UniRef90_A4FGZ7
UniRef90_B1WZ24
UniRef90_N8Q7P6
UniRef90_E8VZ77
UniRef90_UPI00046B6A05
UniRef90_A9AFW6
UniRef90_ROD4T9
UniRef90_N1W4V7
UniRef90_UPI0001850B5E
UniRef90_E3DNZ8
UniRef90_UPI00037103C5
UniRef90_W01338
UniRef90_I3U7H9
UniRef90_A6WVK8
UniRef90_J2JYQ3
UniRef90_UPI00035D07FB
UniRef90_A6X027
UniRef90_UPI0003B5F2B2
UniRef90_UPI0003625B8F
UniRef90_F9RYS7
UniRef90_UPI000345C3B0
UniRef90_A0ZEY7
UniRef90_S2LHJ3
UniRef90_D3RQ19
UniRef90_K9D1D3
UniRef90_UPI0003B6EDE5

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

UniRef90_H4GK82
UniRef90_G0Q3X9
UniRef90_W9FW06
UniRef90_UPI00036E7280
UniRef90_U0DZ12
UniRef90_M6LPC5
UniRef90_K9GLZ2
UniRef90_S6H613
UniRef90_V5X6D1
UniRef90_Q2RQG9
UniRef90_A1SGT6
UniRef90_H0Q525
UniRef90_D8HYU8
UniRef90_UPI0002884FAB
UniRef90_S3TMI9
UniRef90_K0UCB8
UniRef90_E8W8G0
UniRef90_S8EM04
UniRef90_UPI0004779AEC
UniRef90_S3EBS5
UniRef90_UPI0002FBFA82
UniRef90_LOAMG1
UniRef90_UPI00036A9C30
UniRef90_M7YUM7
UniRef90_V9RAS3
UniRef90_W1PP51
UniRef90_I4KPD0
UniRef90_K1W8D9
UniRef90_A3YAS3
UniRef90_J1H818
UniRef90_UPI0002887749
UniRef90_UPI000370CFFF
UniRef90_D9UFK1
UniRef90_B9E927
UniRef90_V5XEQ4
UniRef90_B8IMC5
UniRef90_UPI000379B842
UniRef90_K6VYP8
UniRef90_C7IVE7
UniRef90_U5E6C3
UniRef90_Q5LT30
UniRef90_G2PEY8
UniRef90_G4I9T7
UniRef90_A8TTU1
UniRef90_UPI00036CB150
UniRef90_UPI0002EE9509
UniRef90_W7ZBC9
UniRef90_E1T5Q5
UniRef90_UPI000373D349
UniRef90_A9DGU3
UniRef90_M3VFL0
UniRef90_F2LET6
UniRef90_W7QDA8
UniRef90_Q881P0
UniRef90_UPI000344EBF7
UniRef90_UPI0002E2AFEF
UniRef90_D3PXB7
UniRef90_V5PPG0
UniRef90_E3IHE6
UniRef90_K8R8G9
UniRef90_M4JY43
UniRef90_I3CC76
UniRef90_U5QH16
UniRef90_F5XMM9
UniRef90_UPI00035C8D2A
UniRef90_J2AXS2
UniRef90_Q4K5P5
UniRef90_B2JTG9
UniRef90_Q11BU0
UniRef90_Q5Z1C1
UniRef90_D6DDX6
UniRef90_T0B3P3
UniRef90_UPI0003B3E28A
UniRef90_A0A010RD83
UniRef90_U7Q1Y2
UniRef90_A0A017HSA9
UniRef90_A0A021XC01
UniRef90_Q9M8R4
UniRef90_W7ZLG0
UniRef90_F5SRD4
UniRef90_I0WTX8
UniRef90_UPI000376119E
UniRef90_M2CEC5
UniRef90_UPI00047215B0
UniRef90_UPI00036C62EB
UniRef90_UPI000361BF7C
UniRef90_B9J7H4
UniRef90_UPI000475CA75
UniRef90_UPI000379880D
UniRef90_U3AHL6
UniRef90_D5URC9
UniRef90_B1K788

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

UniRef90_H4GK82
UniRef90_G0Q3X9
UniRef90_W9FW06
UniRef90_UPI00036E7280
UniRef90_U0DZ12
UniRef90_M6LPC5
UniRef90_K9GLZ2
UniRef90_S6H613
UniRef90_V5X6D1
UniRef90_Q2RGQ9
UniRef90_A1SGT6
UniRef90_H0Q525
UniRef90_D8HYU8
UniRef90_UPI0002884FAB
UniRef90_S3TMI9
UniRef90_K0UCB8
UniRef90_E8W8G0
UniRef90_S8EM04
UniRef90_UPI0004779AEC
UniRef90_S3EBS5
UniRef90_UPI0002FBFA82
UniRef90_L0AMG1
UniRef90_UPI00036A9C30
UniRef90_M7YUM7
UniRef90_V9RAS3
UniRef90_W1PP51
UniRef90_I4KPD0
UniRef90_K1W8D9
UniRef90_A3YAS3
UniRef90_J1H818
UniRef90_UPI0002887749
UniRef90_UPI000370CFF5
UniRef90_D9UFK1
UniRef90_B9E927
UniRef90_V5XEQ4
UniRef90_B8IMC5
UniRef90_UPI000379B842
UniRef90_K6VYP8
UniRef90_C7IVE7
UniRef90_U5E6C3
UniRef90_Q5LT30
UniRef90_G2PEY8
UniRef90_G4I9T7
UniRef90_A8TTU1
UniRef90_UPI00036CB150
UniRef90_UPI0002EE9509
UniRef90_W7ZBC9
UniRef90_E1T5Q5
UniRef90_UPI000373D349
UniRef90_A9DGU3
UniRef90_M3VFL0
UniRef90_F2LET6
UniRef90_W7QDA8
UniRef90_Q881P0
UniRef90_UPI000344EBF7
UniRef90_UPI0002E2AFEF
UniRef90_D3PXB7
UniRef90_V5PPG0
UniRef90_E3IHE6
UniRef90_K8R8G9
UniRef90_M4JY43
UniRef90_I3CC76
UniRef90_U5QH16
UniRef90_F5XMM9
UniRef90_UPI00035C8D2A
UniRef90_J2AXS2
UniRef90_Q4K5P5
UniRef90_B2JTG9
UniRef90_Q11BU0
UniRef90_Q5Z1C1
UniRef90_D6DDX6
UniRef90_T0B3P3
UniRef90_UPI0003B3E28A
UniRef90_A0A010RD83
UniRef90_U7Q1Y2
UniRef90_A0A017HSA9
UniRef90_A0A021XC01
UniRef90_Q9M8R4
UniRef90_W7ZLG0
UniRef90_F5SRD4
UniRef90_I0WTX8
UniRef90_UPI000376119E
UniRef90_M2CEC5
UniRef90_UPI00047215B0
UniRef90_UPI00036C62EB
UniRef90_UPI000361BF7C
UniRef90_B9J7H4
UniRef90_UPI000475CA75
UniRef90_UPI000379880D
UniRef90_U3AHL6
UniRef90_D5URC9
UniRef90_B1K788

50 60 70 80
R Q V M G A H Q I A L T C D A V V S D D L L T A D V V A F P G G R G G A E R
G A V R V G R F L V E P D R G L T S L A R A D T V I V P G W A D T D
C A R R P G P L P T T T G Y P L L V E S G L D A L R R A D T V V V P G W Q P P G
T I Q T L K S D K E L G P E V A A D A D V D P T E F A A V V I P G G T L N A D T
L W S D R A G A V R T V E G Y S V G D V A G P R T L D W A D I V I T P S W P L P
D P V Q S E S G M K L P D F D F A D C P D L D I L L V P G G T L L
A P V R A S C G A I V R A D D G F V D P R S V D Y V V V V G G L L A G
S V Q A S D G M R V E V D A P M S D A P K L D T L I V A G G I N I T N N
V V S A G P L H I A T D H G L E A L A D A D I I V P G R E D V E
Q T Y S E K P G H N F T L N A S F D D I K A A E F D A L V I P G G R A P E Y
P A V G R G G F T V L P A Y S L D D A P P D L L V V P G G A G T R P
T V R S D L G I N I S V D G A L P A L D A N D L D L I I C G G F R S K
R E V P S G F A S I T L T A T A A L D P R K K S V I V V P G A A G G L S M D P A
P I S A S D G L R V T P D G A I T M P L A L D M I I V C G G V G P S R T E
L V S N K H G V C I Q T Q A F S E I E T N A Q S L L L I P G G I V T F E
P W Y S V K L C S E H E E I G L L G G A V V R T S Y A A D T V V I P S V R D V A
D I L T L D P G K T V R P D L T L D D A D P A D Y A D L L I P G G T L N A D T
Q T Y S E R G H N F A L N A S F D E V D P D K Y N G L I P G G R A P E Y
T A T A G R H P F R I T S S Y G L D D A R D A D T V I V P G V R P
P I S T S T S Y F S V L P T H T F A T A P Q L D V L L I P G G I G E V L V D E P
E R V V D G T G I T F T P T K V N E L N D T Y D L V I V P G G F G T R K
H D F E G D Q T Y T E K P G H F E L N H D F D A V D P T E V V P G G R A P E Y
P I R D G A G R R Y E V E A R F D E V D G C A A I I V P Y V C D G G H A L P P
Q T Y A E S K G H N F A L N A S F D E V D A A A Y D G L V I P G G R A P E Y
N V I A S L N Y T D N F K F T S N L R L K L T N L D Q Y D L L F P G G P G F R A Y
Q T Y R E S R G H N F T L N A T F D D I E A S K Y D G L V I P G G R A P E Y
Q V T S D L G I V L S T D I E L A Q M P E N Y Q D V L I V A G G F R V K
Q T Y T E K P G H N F T L N A T F E D I Q P E N Y H A L V I P G G R A P E Y
R W Q T G K P V I A S N G M A L Q D S V S I S A Q P V I R N L F V N A S F S P E
G M V R S R Q G A E I A T R P L E D V S E T G I L L V I P G G I G T R L
L I S D R N G L K V Q P D F C F T N I P E V D M L I I P G G Y G A E
G E V Q A F N H L T P A D T F V D V T A S A D Q F D A L V L P G G V A N G D Q
P V P T T G G L D L T V R H G L D V R T A D T V V V A G T G H R F
S T V K G K G N T E V T I D K A I D D V K P D D F D A L F I P G G F P D M L R
P V P S T N G F A L L P T A G P D A L A D A D T V V I P G T R Y A P A R L D G
C T A S N G I E V K V S G R F S E A V D L D F M I V C G G I D I H
D F V E G S D T F T Y T W P A D F A F V E V R P E N Y V A L V L P G G R A P E Y
E V Q T M K G D K E P G P A Y T P D S T F D P I D Y D I L I V P G G T V N A D T
K V Y T G K H G Y P M K S T H A S K D V K A E D Y D A V I P G G Y S P D H
P V W T P N G F D R V D H G L E L L A E A D L I V V P G I G L P T
R K V V S S A G I T F E P D A S L E T V S A L D Y L V L L S A P V A R F E N
R E V V S T A D L V V V P G A A G R V G E P G E V P D L D A D A D G G E W R E H
V P A G P L S I G T E H G L D A L A G A D T V V V P G R N E P G S E V P E
G P L R A T G G F R V E A D G D L A A L G A A T I L I P G W R G I D
P V A T S C G L P V Q D D G A R P S Q Q E C D L L T V V A S A F N V A R H
P F D D S G R R L N V D K S V A A I A G S S A I V V P G Y L C E S N A D F L S
S K I T G K N G E T F K T D K N V S D V K P E D F D A L L V P G G F S P D M
V L Q T F T G L P V V T E R L D S L E T E P I D T L I V P G V P I D P H C T L E
V R A D G G F T L R V E H G L E A L A R E A D T V V V P G R S P M A G
A V T S S S G V S V E C G D L A A L I G G G C N I L F V C A G G S P R D W
E P V M L G G G L T V L P Q R T F A Q I D E M T G G G P D V I V S Q M H G D R
N V T L E F L G V V Y G N T E R L A D I E S T D L I L V P G S D L S
E T P S L A E L S L A A A K P F C D V S A E L D M L V V C A P A P L S A N A D
D P V T S D A G L A I V P T A T F G T C P R D L T L V F A P G G T D G T L A
P L P T T A G F T M L A E A G P E A L R E A D T V V V P G R R P P G
N A V E L S N G L K V M P D I M L E E T E D L D V L L V P G G P G W K D A
I Q V N A A A G G P S H R M L A P F G L D G L D G A G T V I V P A H E T
Q T Y S E K R G H D F T L N A T F D G L S P A D F A L V I P G G R A P E Y
K L I Q T V V H D F T G W D T F E E K Q A Y L L E A H A A F A D I D P T Q Y D A I
E R A A T S L G D F I D S L E P L P D R L P R N S L V M V V G S T E S P E P G T
T T Q T T E K D Q T V E S D E V Q L S D V V S G D F D A L V I P G G T V N A D T
Q T Y S E K V G H N F T L N A T F A D I K A S D Y D A L L V I P G G R A P E Y
Q T Y S E K P G H R F A L N A D F A A V R P E E Y D A L V V P G G R A P E Y
P V A T A A G P A L V A T R S V G D P G E L S P D V L L V A G G L Q V D A E
V D A G R F T L R V D H G L E A L A E A D T I M L P G C R E P A
A V L S S G G V P V A A A L P G R G F G L G T I E V C A G G S P R D
R M L T C A R G T P L T A D A M L V D V L A Q R F D L I V L P G G A V G A Q H
S W V R A S C G I Q V A P W T F D E A G E F D Y V V V V G G L L H S G P S A S
E V R S N D I L V K T D K E V A D D P S F D I T F V I S S L N S A E
Q G E Q S I G F G A F L R P E H G L A E L L A A D T V I V P S V A A H C R N T S G E
R E V T G S H G F H I T A D A V L D E V D L D R P D V Y F L P G G M P G T K H
A V L S D L G I N I S V D G E L K S L D A N D L D M L I V C G G Y R S D
P V R S S S G L R V V P D G L P L A E L G T P D A L L V V A G Y G F R D H
T Y N S S W W P T F Q P T N T F D D D L D L D V L I V P G G P G V R
L H Y M A D L S Y M I N P Q V V A T H P S F E T A P K L D I L L V P G G T G N V A
D P V E S S C G I R I N P E E R L G D P S R F D Y I V V V G G L M N E I
P V E T S R S R I P V P V D G L F R P E K E T H P L F V L S S Y Q W Q M S A T P
Q T Y F E S R G H N F T L N A T F D E V D L S K Y D G L V I P G G R A P E Y
S I T V H N G L K V I P D Y S F E N C P A F D V L L V P G G P I K M K S
N I R C S N R L I M Q A H C D I K K I T E C D L L L I P T I G D S I D K V
L W S D R E G T L H T I E G Y S I G K V A G P D T V D W A D I V F P S W P Q S
S V T A S N G M T L L A D Q T I E A V H H I P S L A L C S G F D P E
T I V S S H K V P I T C D I V L E E A L Q T D G D L I A V I L P G G L P N S S T
K E V R T G Y G L K V Y V D Y H I D E I S L A D Y D F L I I P G G P Y I A S I
P V S A S D G I T I T P A D A G V E S R P N L D M V I V A G G L N I T K V Y D
V T L S G G Q V G V S A S G L E L L D E A E V V I I P G W A D L I G N
P T Q T T S V G L L A E L S P L P D R I P D G A Y V V V S V T P S D A D D V
S M S S V G V Q L A G L E A L P A T L G P H A S W V V L V G H A D T R I G V D
A V P S A S C I P V I Q T Q S I N E E T Q Q F D A I I V C G G W N S E R Y
T A R S S D D T C V Q V Q H R F D S L P D C D R L F V L S G I N M Q T
A R V A S H Q G L P L V A E T D F P R L R V S D I A L V P G W R T E S G A
P V T A S N G L T V D T G P A E C A G Q P D I V F V C G G V D V Q R

UniRef90_H4GK82
UniRef90_G0Q3X9
UniRef90_W9FW06
UniRef90_UPI00036E7280
UniRef90_U0DZ12
UniRef90_M6LPC5
UniRef90_K9GLZ2
UniRef90_S6H613
UniRef90_V5X6D1
UniRef90_Q2RQG9
UniRef90_A1SGT6
UniRef90_H0Q525
UniRef90_D8HYU8
UniRef90_UPI0002884FAB
UniRef90_S3TMI9
UniRef90_K0UCB8
UniRef90_E8W8G0
UniRef90_S8EM04
UniRef90_UPI0004779AEC
UniRef90_S3EBS5
UniRef90_UPI0002FBFA82
UniRef90_LOAMG1
UniRef90_UPI00036A9C30
UniRef90_M7YUM7
UniRef90_V9RAS3
UniRef90_W1PP51
UniRef90_I4KPD0
UniRef90_K1W8D9
UniRef90_A3YAS3
UniRef90_J1H818
UniRef90_UPI0002887749
UniRef90_UPI000370CFF5
UniRef90_D9UFK1
UniRef90_B9E927
UniRef90_V5XEQ4
UniRef90_B8IMC5
UniRef90_UPI000379B842
UniRef90_K6VYP8
UniRef90_C7IVE7
UniRef90_U5E6C3
UniRef90_Q5LT30
UniRef90_G2PEY8
UniRef90_G4I9T7
UniRef90_A8TTU1
UniRef90_UPI00036CB150
UniRef90_UPI0002EE9509
UniRef90_W7ZBC9
UniRef90_E1T5Q5
UniRef90_UPI000373D349
UniRef90_A9DGU3
UniRef90_M3VFL0
UniRef90_F2LET6
UniRef90_W7QDA8
UniRef90_Q881P0
UniRef90_UPI000344EBF7
UniRef90_UPI0002E2AFEF
UniRef90_D3PXB7
UniRef90_V5PPG0
UniRef90_E3IHE6
UniRef90_K8RBG9
UniRef90_M4JY43
UniRef90_I3CC76
UniRef90_U5QH16
UniRef90_F5XMM9
UniRef90_UPI00035C8D2A
UniRef90_J2AXS2
UniRef90_Q4K5P5
UniRef90_B2JTG9
UniRef90_Q11BU0
UniRef90_Q5Z1C1
UniRef90_D6DDX6
UniRef90_T0B3P3
UniRef90_UPI0003B3E28A
UniRef90_A0A010RD83
UniRef90_U7Q1Y2
UniRef90_A0A017HSA9
UniRef90_A0A021XC01
UniRef90_Q9M8R4
UniRef90_W7ZLG0
UniRef90_F5SRD4
UniRef90_I0WTX8
UniRef90_UPI000376119E
UniRef90_M2CEC5
UniRef90_UPI00047215B0
UniRef90_UPI00036C62EB
UniRef90_UPI000361BF7C
UniRef90_B9J7H4
UniRef90_UPI000475CA75
UniRef90_UPI000379880D
UniRef90_U3AHL6
UniRef90_D5URC9
UniRef90_B1K788

90 100 110 120
LRDHEALKSLIMVQRQNDGKWNAAAMCAAFPLAFARYGLFKDA
RDPAELVDVAVRTAHERAGGARVAVSICCCTGAFVLAARAAGLLDGG
GVPVDDDLVLDALRGAHJADAGARTVVAIICCTGAFVLAARAAGLLDGG
LRMDKDAQRVVVKRAHJADAGARTVVAIICCTGAFVLAARAAGLLDGG
LSPISSESLRRLCRAHARGSTPLVGLCLGAFVLAADAAGLLHGRGS
LMEEFVTLVLDVFLERKAAVNSRFLITSVLCCCTGAFVLAARAAGLLDGG
PVPVDERVLTWYLRKEAASAGTRRLVGLCCCTGAFVLAARAAGLLDGG
YGRTELVNWLRAQANAKDVMLGSIICCTGAFVLAADAAGLLDGGY
TQTPAAVVLALRAAYRANGATIASIICCTGAFVLAADAAGLLDGGK
LRLEPAEVLVLELVRAHAFARANKPIAASIIICCTGAFVLAADAAGLLDGG
LRLHDERLLEAVVREARAAREVELLLSLVCCCTGAFVLAADAAGLLDGG
LEPGRPVLEKLRREVAARRRVLGLWNGSYDLAAHAAAGLLDGGY
IEGGLDGRLLAAAGRSELPNRLREALAGPDAVAATVCCGGSY
VLRQREHVWVWLQSQAARLSRRLGGTICCTGSSWALAKAGLLDGGY
LNLNQQLDELKTLATQSAARHVLTLTICCTGSSLVAAATGLLDGG
EPLVSPQLLDALKAADARDAARLVLSIICCTGAFVLAARAAGLLDGG
LRQLQNSATNGTIRSFDTDSGRPIVAASIIICCTGAFVLAARAAGLLDGG
LAMNESVLRKLVIREKFDDESGKPIVAASIIICCTGAFVLAARAAGLLDGG
RAPSPRALRLVREVAADRGGKRVASIIICCTGAFVLAARAAGLLDGG
LQPAVDYVASIFPSLQYFLTVCSSGSLAAARAGVLDGKYAT
LRTYDDHAFIEVWGTSKFPCYKKAASVLCCTGSLLLGSAAGFLDQGGKS
LRTYDGDVLELVQRHFVFAEKPIVAASIIICCTGAFVLAARAAGLLDGG
FPAIGAAAALVRRQHAGALVAVSIIICCTGAFVLAARAAGLLDGG
LAMDEKVLJALVLRKFDSDAKKAIASVCCCTGAFVLAARAAGLLDGG
FAPHLAVKVKFYKRDENKWLVAICAAAPALMSLIEREVDPD
LSMNESVLKLVCYKFSSESGKPIASIIICCTGAFVLAARAAGLLDGG
LQGHPLRLRQKLRHAASGALGGLWNGAFVLAADAANLLDGGF
LRLNPNVLIQAVLKHFAETANKPIAASIIICCTGAFVLAARAAGLLDGG
KYTSDACIQVLRRELRQRQTCMIGALDGTGYYLAKAKLLIEDQR
LHVHDHGFLLQLGEAAQKRDYCYLTVICCTGAFVLAARAAGLLDGG
ELHNEVLRVLRWQNTQKVDLAVSIIICCTGAFVLAARAAGLLDGG
VRTFPAVSVLWKDFAAAGKPIAVIICCTGAFVLAARAAGLLDGG
EPEPEAVVAVREKAAAGARRVTSIICCTGAFVLAARAAGLLDGG
GDEPQGRFGEFTKGAAGFVFAIICCTGAFVLAARAAGLLDGGK
TLEPAVRAALAGLRPGRTRLVSIICCTGAFVLAARAAGLLDGGPA
LLDHRALNAALRRGAKELGALGAVIICCTGAFVLAARAAGLLDGGY
LRNPNVQVRVLRHFVFAEKPIAASIIICCTGAFVLAARAAGLLDGG
LRLNEQVQQLIQHFTDNGKPIAASIIICCTGAFVLAARAAGLLDGG
MRRCNDDTLNFVKEAMDKLQKTIAAIICCTGAFVLAARAAGLLDGG
LPTPEVLDLALRAAADRGTIIASIIICCTGAFVLAARAAGLLDGG
EFLIPVTLGRLLKAAAMDPRPEVTVAVTICCTGAFVLAARAAGLLDGG
LDVLAALRGAWERGARIVASIIICCTGAFVLAARAAGLLDGG
AAVPAVDLDTLRTAHERAGSRLVSVCCCTGAFVLAARAAGLLDGGK
VAPAVLVAVLRQGARRAALVGGVCCCTGAFVLAARAAGLLDGG
SPQIGALSSVLRQGHAAWALICAGSIIICCTGAFVLAARAAGLLDGG
LRAADPKNAEFAAHFMKEEKPIVFAIICCTGAFVLAARAAGLLDGGH
PSPRVLAAALREAAAAGTRIASVCCCTGAFVLAARAAGLLDGG
VMQQRVHGALRLRQAQGVRIIGSIIICCTGAFVLAARAAGLLDGG
SGEMRWFVWVRLTDPGTVMSVCCCTGAFVLAARAAGLLDGG
VPMGRPEYQALIRRLAESARHVTVSIIICCTGAFVLAARAAGLLDGGK
DAIVHRLRAQLRRTGVAVLVGVGGTELLARAGVLDGYRATL
AASDAETLAFMADRGARAKYITSVCCCTGAFVLAARAAGLLDGGY
APVPPAVITGALRAAHRRGARIVAIICCTGAFVLAARAAGLLDGG
ASDPQVILDFIRRWVPGATIIICCTGAFVLAARAAGLLDGG
DDIPVILDLALRRKHSDGARVAVSIIICCTGAFVLAARAAGLLDGG
LRLNDVLEAVLKHFAETANKPIAASIIICCTGAFVLAARAAGLLDGG
VIPGGRAPEYIRLDADLQRLVRFHFAETANKPIAASIIICCTGAFVLAARAAGLLDGG
NAPFDVTAQWLRCAPAEEDTRIASIICCTGAFVLAARAAGLLDGG
LRQDAALRLRNDFAKAGKTIASIIICCTGAFVLAARAAGLLDGG
LRLNPDITITIVKHFAETANKPIAASIIICCTGAFVLAARAAGLLDGG
LRLNDRVLEIVRHFAAAEKPIAASIIICCTGAFVLAARAAGLLDGG
AADDAFVADLESLSARSEEVGSIICCTGAFVLAARAAGLLDGGH
HRVRENVLNGLRAAATRGTRIASVCCCTGAFVLAARAAGLLDGG
WHYPVTLVLSCLRQLQALREGVRLGGIISGGPYLAAEAGLLDGG
LAAHQPLVQLKLDQAAGRVLFAAGIAEAPALQAAGVLRQ
RATLQFIQHAAATTPATLVGIICCTGAFVLAARAAGLLDGGYRI
FRDQRLEVLQQAQAAGKRLLAPIIGSAVLLAARIGLLNNGYR
RALPAELVLDLVAHAHRRGARLVVAICDGVFLAAAGLLDGG
LGSCEKLCVSAALVKAAGEGKRLAAICAAAPSVLGSLLGLKGG
LTPHRPVLERLRALVWHTLTMGGLLWNGSYDLAAHAAAGLLDGGY
STARVAVSLRRLRMSGTRLIGADCCCTGAFVLAARAAGLLDGGQ
APGLEPILVIEYVRKHAPRVKYLVTIICCTGAFVLAARAAGLLDGG
LEQKNDTKDFVFRERYPELEYLVLVCCCTGAFVLAARAAGLLDGG
ERLHPDHTJAFVLRRAEAAGLVLVGVICCTGAFVLAARAAGLLDGGY
LALTAQSVVLEWKEFSRSGKPIASIIICCTGAFVLAARAAGLLDGGH
VMEEDQQIIGVWGAQPNALIASVCCCTGAFVLAARAAGLLDGGDA
LASNRELISHLQRQLADTQTDIASNCCCTGAFVLAARAAGLLDGGK
LVVINDGLKTLAAHARGAVIAGLCLGAFVLAADAAGLLDGG
RYLSPALVLRRLRLSAGGVLLGGLDGTGCFVLAARAAGLLDNGE
LAGSGAVREFAKKTLAGGGIVAAICAAAPALALIGSWGLLJEG
YNKETKLINEIRHFYDNKLLIGAIICCAAPRLLIYMGLLDGG
RSHLNWLQEMERKGCGLGAIICCTGAFVLAARAAGLLDGGY
APSNELKSKLIAANRRGAHVVGLCYGAYALAYAGLLDGG
EPELDLTAWLKTAIRPGLITLVTIICCTGAFVLAARAAGLLDGGH
APDTRALDWRPLQGRGLITLCAAGVLAARAAGLLDGG
DHPDLRLRRLMGRKGTILGAAGETVYVLAARAAGLLDGGY
GDHPELAAALRAMDRFKETRIGALVCCCTGAFVLAARAAGLLDGG
VPLSATTLHRIARDHRAAGTVMSVCCCTGAFVLAARAAGLLDGG
ATTPAHLSTRRFAASGIPLGSIIICCTGAFVLAARAAGLLDGGY

UniRef90_H4GK82
UniRef90_G0Q3X9
UniRef90_W9FW06
UniRef90_UPI00036E7280
UniRef90_U0DZ12
UniRef90_M6LPC5
UniRef90_K9GLZ2
UniRef90_S6H613
UniRef90_V5X6D1
UniRef90_Q2RQG9
UniRef90_A1SGT6
UniRef90_H0Q525
UniRef90_D8HYU8
UniRef90_UPI0002884FAB
UniRef90_S3TMI9
UniRef90_K0UCB8
UniRef90_E8W8G0
UniRef90_S8EM04
UniRef90_UPI0004779AEC
UniRef90_S3EBS5
UniRef90_UPI0002FBFA82
UniRef90_L0AMG1
UniRef90_UPI00036A9C30
UniRef90_M7YUM7
UniRef90_V9RAS3
UniRef90_W1PP51
UniRef90_I4KPD0
UniRef90_K1W8D9
UniRef90_A3YAS3
UniRef90_J1H818
UniRef90_UPI0002887749
UniRef90_UPI000370CFFF
UniRef90_D9UFK1
UniRef90_B9E927
UniRef90_V5XEQ4
UniRef90_B8IMC5
UniRef90_UPI000379B842
UniRef90_K6VYP8
UniRef90_C7IVE7
UniRef90_U5E6C3
UniRef90_Q5LT30
UniRef90_G2PEY8
UniRef90_G4I9T7
UniRef90_A8TTU1
UniRef90_UPI00036CB150
UniRef90_UPI0002EE9509
UniRef90_W7ZBC9
UniRef90_E1T5Q5
UniRef90_UPI000373D349
UniRef90_A9DGU3
UniRef90_M3VFL0
UniRef90_F2LET6
UniRef90_W7QDA8
UniRef90_Q881P0
UniRef90_UPI000344EBF7
UniRef90_UPI0002E2AFEF
UniRef90_D3PXB7
UniRef90_V5PPG0
UniRef90_E3IHE6
UniRef90_K8R8G9
UniRef90_M4JY43
UniRef90_I3CC76
UniRef90_U5QH16
UniRef90_F5XMM9
UniRef90_UPI00035C8D2A
UniRef90_J2AXS2
UniRef90_Q4K5P5
UniRef90_B2JTG9
UniRef90_Q11BU0
UniRef90_Q5Z1C1
UniRef90_D6DDX6
UniRef90_T0B3P3
UniRef90_UPI0003B3E28A
UniRef90_A0A010RD83
UniRef90_U7Q1Y2
UniRef90_A0A017HSA9
UniRef90_A0A021XC01
UniRef90_Q9M8R4
UniRef90_W7ZLG0
UniRef90_F5SRD4
UniRef90_I0WTX8
UniRef90_UPI000376119E
UniRef90_M2CEC5
UniRef90_UPI00047215B0
UniRef90_UPI00036C62EB
UniRef90_B9J7H4
UniRef90_UPI000475CA75
UniRef90_UPI000379880D
UniRef90_U3AHL6
UniRef90_D5URC9
UniRef90_B1K788

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

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

UniRef90_H4GK82 MAFA YE I | A E Q L | 170 180
UniRef90_G0Q3X9 MDL C L H L V R L D H G S S V A N A L A R R L V V
UniRef90_W9FW06 I D L C L H L V R S D L G S S Y A A Q V A R S M V L
UniRef90_UPI00036E7280 P A F N K A I T D E L A
UniRef90_U0DZ12 V D A C L H L V R K H L G S A V A T R V A R N L V V
UniRef90_M6LPC5 I D F V L F L T A E F F G S E L A E E I Q
UniRef90_K9GLZ2 I D L A A W L V D R H V G P A A A Q K A L H I M V
UniRef90_S6H613 MD M M L Y V I T M Q H G R A L S G A I S D M F V
UniRef90_V5X6D1 V D L C L Y M V R R D H G
UniRef90_Q2RQG9 P E W L A K F L H V L G T K
UniRef90_A1SGT6 V D L S L H A V Q L L A G Q V T R D L V V
UniRef90_H0Q525 L G M M L A V I R H H H G E E M V R G I E E I L
UniRef90_D8HYU8 I D L A L H L V E R E V G P R V A H A V
UniRef90_UPI0002884FAB L D M M L T L I E R E H G R E L S A G I S E M F I
UniRef90_S3TMI9 M D M T L A F I H N T Q G E K V A Q L C A E E
UniRef90_K0UCB8 L D L C L H I V R S D H G G R V A N D V A R R L V V
UniRef90_E8W8G0 E P F V R E I R T A L G A R
UniRef90_S8EM04 P E F I R L F I K A L G G Q
UniRef90_UPI0004779AEC L D L C L H M V R R D L G A A A A A R T A R M I V M
UniRef90_S3EBS5 M D L M Y A F V G E V W G K E F A V S S A Q G M
UniRef90_UPI0002FBFA82 I D L G L Y L C E K L A G F D A K E K I R I Q M
UniRef90_LOAMG1 P E W L A E F L E V L
UniRef90_UPI00036A9C30 I D L S L H I I R A L L G P E A A K T A A D F T V V
UniRef90_M7YUM7 P E F I S L E V K A L G G
UniRef90_V9RAS3 L P L A F L V V E L F S G K E E A I R L A N S I M
UniRef90_W1PP51 P E F I R L F V Q A L G G
UniRef90_I4KPD0 L R M M L Q L I R Q T G G A A L V G A I E E I L
UniRef90_K1W8D9 P R W L A E F V K L L
UniRef90_A3YAS3 T D M M L Y L I E H Y F K P E L A I L V C E Q L I
UniRef90_J1H818 I D M A L G F L A D R L G Q
UniRef90_UPI0002887749 I N M A F H L V A R I C G K T V A N E T T K R
UniRef90_UPI000370CFFF D A F D R E L V K A F
UniRef90_D9UFK1 I D L C L H M V R T D Y G A V A N D V A R R T L V
UniRef90_B9E927 E D F N R E S L A L L K
UniRef90_V5XEQ4 I D L C L H I I R S D H G V Q V A N D V A R H C V V
UniRef90_B8IMC5 A D M M L S M I M Q D H G P D I A S D V A D Q L I
UniRef90_UPI000379B842 P A W M R E F V R V L
UniRef90_K6VYP8 P E F N E A I L L K E L
UniRef90_C7IVE7 L D L C L H I I A R R E L G A A A A D L A R W N V V
UniRef90_U5E6C3 F D L A L S L I E A A L G A N V A N E V A
UniRef90_Q5LT30 L D L G L Y L L E R E L G P Q I A H A V E E
UniRef90_G2PEY8 L D L C L H M V Q L D H G
UniRef90_G4I9T7 L D L C L H L V R R D F G P R I A N D V G R R L V L
UniRef90_UPI00036CB150 L D F M L A L V R A R Q G F D A A L N V A S L Y V
UniRef90_UPI0002EE9509 I D L C L H V V R S L C G A E A A K I A A D F A V V
UniRef90_W7ZBC9 P A F N K E S L N L L
UniRef90_E1T5Q5 I D L A L A L I E E D L G H A V A M Q A A R R L V V
UniRef90_UPI000373D349 L D M C L H M I R R D L G S A V A A H A A R M S V M
UniRef90_A9DGU3 L D M M H T L I A E R M G T H F A R R V S D W Y L
UniRef90_M3VFL0 I D A A M R V V E R L G G S A E L P R I A D E I
UniRef90_F2LET6 I D F A L R V A E K L R G R Q A A E
UniRef90_W7QDA8 M D M M M T L I A L H H G S E L A E R V S E H F V L
UniRef90_Q881P0 L D F G L S M V A E L R D Q T Y A E
UniRef90_UPI000344EBF7 I D L C L H L V R S D H G A Y A A R V A R N M V L
UniRef90_UPI0002E2AFEF I D T A L Y L I E S R Y G E E A A D E I A R I M
UniRef90_D3PXB7 I D L C L H L I R R D H G A A V A A E V A R R I V M
UniRef90_V5PPG0 P A W I A Q F L A V L G T K
UniRef90_E3IHE6 P G F M R E F L R L L
UniRef90_K8RBG9 I D L S L Y L I E H Y A G A E R A A D I A R R Q V V
UniRef90_M4JY43 P A F N E A I A K A L A G
UniRef90_I3CC76 P Q W L A K F L E L L G T K
UniRef90_U5QH16 P R W L A A F V E V L A S R D V L A A V
UniRef90_F5XMM9 I D L S L E I L S T H H G A T I A A E T A R C L V V
UniRef90_UPI00035C8D2A L D L C L H I I R R D H G
UniRef90_J2AXS2 L D M M H A L I A E R M G P D F A R R V S D W F L
UniRef90_Q4K5P5 L A F A L A L V E A L C G R A K R A Q V A A E L L V
UniRef90_B2JTG9 I D V A A A I L L R H V E A T I V Q K A L R I M L V
UniRef90_Q11BU0 L D L G L S I I S R G L G S T L A K Q V A D E A L L
UniRef90_Q5Z1C1 L D L C L H L V R R D L G A T V A N R L A R R M V I
UniRef90_D6DDX6 L D L G L E L L G L L T S R E H A A E V K A A I
UniRef90_T0B3P3 L S M M L A V I R H Q H G D D V V R G I E E I L
UniRef90_UPI0003B3E28A L D M M L A L V G R T F G P A A A
UniRef90_A0A010RD83 L D L T M E F I K Q V Y G E E L A T K V A T I M
UniRef90_U7Q1Y2 M D M A Y A F L R E L Y G D
UniRef90_A0A017HSA9 A H L A A F L V D R H I G P A A A R K S L A I M I I
UniRef90_A0A021XC01 L D L M L E I I R R R Q G Y S L A L E V S R Q F I
UniRef90_Q9M8R4 P E F I Q L F V K A L G G K
UniRef90_W7ZLG0 I S M T L S L V E R L Y G K E M R D R T
UniRef90_F5SRD4 Y D L A L L L I E R Y C G R E V S A Q V A K T Q V I
UniRef90_I0WTX8 I D A C L H L V R T H L G S A I A T R I A R S L V V
UniRef90_UPI000376119E M D M A L D V I A R R H G Q R L A I D V S E Q L V
UniRef90_M2CEC5 E E F A F A L V E A I C G K T A L N K L K T E V V
UniRef90_UPI00047215B0 I E F I Y E M V R I L F N L K K A E A L M N H L V
UniRef90_UPI00036C62EB L D M M L N V I K L E H G Y Q L S A I S E M F I
UniRef90_UPI000361BF7C L D C C M Y L V R K L C G A R E A N K I A R L M V L
UniRef90_B9J7H4 T D L M L H I A S K L T S P V T A L T I A R H M V V
UniRef90_UPI000475CA75 L D L I L H R I E A I C G P A L A Q V A Q I M V V
UniRef90_UPI000379880D L D M M L R D I E K R H N K S L A T E V A D Q L V
UniRef90_U3AHL6 A D L M L H L I S E D H G H E L S V A V A D Q M V
UniRef90_D5URC9 I D A T L A L L A D R H G
UniRef90_B1K788 L D M M L N L I A A R V I G T A R V T Q I A E Q F I V

UniRef90_D5DG81
UniRef90_A0A031JDD1
UniRef90_D9VBT2
UniRef90_L7UN81
UniRef90_S5S985
UniRef90_F6EGE7
UniRef90_S6GW44
UniRef90_UPI00037BC8F7
UniRef90_F3IR99
UniRef90_H1VM89
UniRef90_E5XQE7
UniRef90_D9ST75
UniRef90_5KDS0
UniRef90_S9UH71
UniRef90_I2BX85
UniRef90_UPI0003AB05AA
UniRef90_D0L712
UniRef90_H6MWN7
UniRef90_B1ZG82
UniRef90_C9NPC5
UniRef90_E3G8Y2
UniRef90_UPI000478183B
UniRef90_J0KIW7
UniRef90_UPI0003AD2A15
UniRef90_Q8DL3
UniRef90_M0QKE8
UniRef90_J3HKK6
UniRef90_UPI00037253B0
UniRef90_W2UE83
UniRef90_Q8ZZH1
UniRef90_F9T5W6
UniRef90_K0F8N5
UniRef90_D9ULQ6
UniRef90_T1XF24
UniRef90_UPI00042B2E44
UniRef90_C5CLK2
UniRef90_T0KX04
UniRef90_I4N979
UniRef90_N6VXP8
UniRef90_H8INI6
UniRef90_UPI000362C64D
UniRef90_I2NA86
UniRef90_G5P7M4
UniRef90_UPI000468DB88
UniRef90_G8LH57
UniRef90_N9SIR5
UniRef90_UPI0002260A82
UniRef90_R6PAR3
UniRef90_W9S280
UniRef90_D1J8B4
UniRef90_F7SLI9
UniRef90_UPI000375C51A
UniRef90_B0T7F9
UniRef90_A0A021XAM6
UniRef90_UPI0002ED18AD
UniRef90_W4K8E4
UniRef90_Q16E45
UniRef90_Q54LR7
UniRef90_J9MYL6
UniRef90_V4T235
UniRef90_UPI000471E6A1
UniRef90_S4Z3Y4
UniRef90_J3HQF0
UniRef90_K7MPX8
UniRef90_S2KN48
UniRef90_S4Z0J2
UniRef90_G0ACQ8
UniRef90_UPI0004036B2B
UniRef90_A31B4
UniRef90_J3BS23
UniRef90_K6FMD2
UniRef90_Q13G29
UniRef90_C7RHW9
UniRef90_B6QLV5
UniRef90_N8S7H7
UniRef90_B8HZN5
UniRef90_U5VXQ7
UniRef90_V8D3I6
UniRef90_A0A024HBV7
UniRef90_UPI000371F1BD
UniRef90_A3V8F3
UniRef90_X8M2A2
UniRef90_Q08QT2
UniRef90_C6B551
UniRef90_A3X723
UniRef90_S3UQ57
UniRef90_D0KBF0
UniRef90_A2WJ79
UniRef90_U4T4B6
UniRef90_A1B693
UniRef90_D2ZHR5
UniRef90_H5UCY4

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

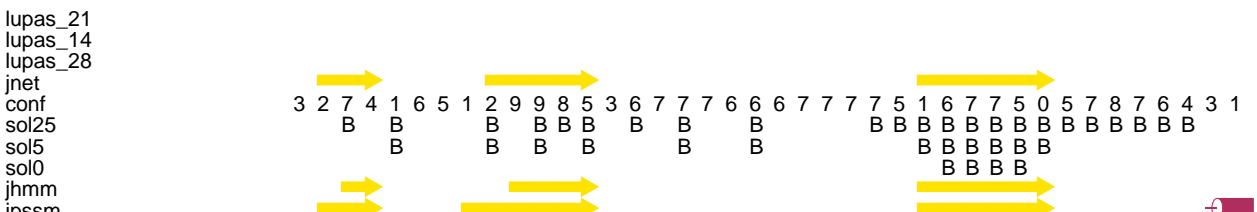
UniRef90_D5DG81 E T F T E K T G Y K I L D S H A S V D E V D P A D Y D G L I P G G R A P E Y 80
UniRef90_A0A031JDD1 P V A S S S G F D V P T V P L G K A G P V D T L L L M A G L M P P P
UniRef90_D9VBT2 W Y D V V V A C S E R S P R H W L P H L P A I G A A D L I V V P S T D S P G E E
UniRef90_L7UN81 D T Y T E K P G Y T W Q A D L W A F S E V K P A D Y V A L V I P G G R A P E Y
UniRef90_S5S985 P V Q T S C G L C L A A D Y D L E I A R T A R A L D Q S Y F M A L L P G N N C
UniRef90_F6EGE7 A V Q T F L H D T D K D A V V T A D V A V N A A E Y D A I T I P G G T V N A D K
UniRef90_S6GW44 S V R S F S E V I L P V D G D L A Q S D V I V I P A F W D V D F D A
UniRef90_UPI00037BC8F7 P R R A S C G V V I S D S A P L L D P A Q F D Y T A V C G G N D Y L N
UniRef90_F3IR99 V Q T R S F D L Q I R F S L D E I A R A D T L I V P G L S D P T G H V P D
UniRef90_H1VM89 S A A M N S K N S F F P V I L L P T H T Y E T A P E D I E V L I I P G G L W T R
UniRef90_E5XQE7 G T V W T P D G F T I E V E R G L D A L R S A D V V V V P G R A P H D
UniRef90_D9ST75 K L V T S T F G V S V M M D V L I D D I N V E E D A L A I P G G F R E F G F N E
UniRef90_T5KDS0 T L R T S A D F D I D V R H G L E A V R G A D V V V V P W W G E P D R
UniRef90_S9UH71 E I L G D F Q G K T T A E V I F S D V S A A D Y D V V A V I G G S G T N D Y
UniRef90_I2Bx85 R V S H W Q V D A R G T P A R T F D S H P G P D P M M A V L V P P S I A E F T E
UniRef90_UPI0003AB05AA K V R A S C G L T L E A D N S V T V E R Q H L G S R L V S V I C G G K N V E R
UniRef90_D0L712 R P V T L G G G L T V V P Q H S F A S L A A T V P D G P A T I V V P Q L H G H R
UniRef90_H6MWN7 S I V S P R R R V V A S G D T P L Q V S A A G D G I D V L V I P P G E N V S D R
UniRef90_B1ZG82 V I V Q A S N G L G I L S T D V A I G S G D I A A D R V F V C A G G N P A E F D D
UniRef90_C9NPC5 G K I T S R S G L A F D T V A L D T V E V F E N D I V W V V G S E D H
UniRef90_E3G8Y2 Q T Y S E K P G H R F L N A D F A P V K E Q D Y D A L L P G G R A P E Y
UniRef90_UPI000478183B P V R S F S E V L V P V D G A L E D A E I I L L P P F W G D F Q A L C
UniRef90_J0KIW7 S V Q A S C G V P V P V Q D S L S S E S D Y D Y I A V I G G L L P A I
UniRef90_UPI0003AD2A15 G P V A T H A G Y D M L V T T G L E A L D E A D T V I V P G W L P T Q E
UniRef90_Q8DL3 Q T Y S E K R G H N F T L N A T F L E I D P T T Y D A L V V P G G R A P E Y
UniRef90_M0QKE8 G R V T T A A G Y S I D V P T G L D A L E T A D T I V P G W L P V D V
UniRef90_J3HKK6 P T M T T C G L P I A V A S G S F N A R E K G D M L L V V G G F G T A D
UniRef90_UPI00037253B0 D R T Q V S P F G E V A A T H G L S G L S G C D L V L A P G R D N P L A
UniRef90_W2UE83 A V L S S S G L E I R P D G V L D S A T E L K I L M V C G G Y N I K Q H C T K
UniRef90_Q8ZZH1 E T Y S E K P G Y L F K W V I K T S A E V K P E Y D G L V I P G G R M P E Y V
UniRef90_F9TSW6 Q T Y T E K P G H N F A L N A S F A N A K A S D Y D A L V I P G G R A P E Y
UniRef90_K0F8N5 P V W T P N G F D L R V D S G L E S L E Q A D I V V V P G I A L P T
UniRef90_D9ULQ6 P V V G D K P G E V V E P D A T F D V V D P G D H Q L L L L P G G T L N A D Q
UniRef90_T1XF24 R V S L Y P A L E V D G A Q D F A S F D R S N P S G A D Y V I V P A M I A D D
UniRef90_UPI00042B2E44 Q T Y S Q S R G H N F T L N A S F D E I D H T Q Y H G L I L P G G R A P E Y
UniRef90_C5CLK2 V T S M N G V T H A S S T F E A A E A G A V L V G S G I R T R E I
UniRef90_T0KX04 P I I A G V V N A S D P A L N K F E G S N F W P D D L D L D V L I V P G G V R
UniRef90_I4N979 P V Q T F S G V Q V P V D G T L E D A D I V L P A F W D D F D A L C
UniRef90_N6VXP8 Q T Y S E K P G H N F T L N A T F A S V K P S D Y D G L V V P G G R A P E Y
UniRef90_H8INI6 E P V V T A G P I R I A T D H G L A E L G D A D T I V V P G R N D A A
UniRef90_UPI000362C64D D P I R S S C G V R V Q P D M P L R R A A F D Y L V V V G G L I S D R
UniRef90_I2NA86 G P V R T E S G Y D M L V T A G L D A L E R A D T V V V P G W R Q P T G A
UniRef90_G5P7M4 R A V V S Y H D I P M V A D S T L S E R Q Q A L F D A V V L P G G P Q G S A N
UniRef90_UPI000468DB88 Y A R A S N G T E T R V S K S Y K D V G Q T D Y L F V L S G L G V Q R
UniRef90_G8LH57 R A V V S Y H N I P M V A D S T L S E R S D S L Y D A I V L P G G P Q G S A N
UniRef90_N9SIR5 N K L V T G Q F G I A Q I Q G Q N H W K S G D F D A I F I P G G F A A Q L
UniRef90_UPI0002260A82 N S I R A S C G I S V S R T S D L I N P A E F D Y I A V V I G G L L H G R R
UniRef90_R6PAR3 V A P I D E N S L E C K N P T E W D Y T K K Y L D Y D A I F I P G G H G P M F D
UniRef90_W9S280 S C V T A V H D F E E K P G H N F T L N A F D G L D V A L V I P G G R A P E Y
UniRef90_D1J8B4 L G I E A T G A H K I V K L Q T T S N I N V D E Y D V L F I P G G P A A K S
UniRef90_F7SLI9 R F K Q D D E A N A A L A A T H L L S D M Y A G D F D A V F Y P G G H G P L W D
UniRef90_UPI000375C51A R P V M A R N Q L S I N P D Y S F E T M P D A D V F V V P G G F G T R R E
UniRef90_B0T7F9
UniRef90_A0A021XAM6 Q E T G S G L S Q R T P Q Q G L S G H L A D L V V V C D I H L D P G L S P A G R W
UniRef90_UPI0002ED18AD P V I Q T L E N G Q R V E P D L T L E E V D P A S Y D L L H V S G G T L N A D S
UniRef90_W4K8E4 N V V S T K V F L G V E Q R M V A D F S L D N A P D V D V I V V P G G T A S E E
UniRef90_Q16E45 G P V A S S A G I P F G P Q S L L A D V D A P D Y L L L L S A P S V
UniRef90_Q54LR7 K S I K G S H Y L E L V T E Y K F Q D F I E T L S N Y N G I I I P G G P I V Q
UniRef90_J9MYL6 P L I A M N K F N S S F F P T I P P T N T F N D D L D L D L I V P G G P G A R N
UniRef90_V4T235 Q T Y S E K P G H N F T L T A N F E S V D V S G Y D A L V V P G G R A P E Y
UniRef90_UPI000471E6A1 Q T Y R E T P G H Q F A I N I D F D K V N P A D Y D G L Y V C G G R A P E Y
UniRef90_S4Z3Y4
UniRef90_J3HQP0 Q L V T S A I G I P I T P H A V I G P D H R P D V I I V C D I E L P L K G G P E
UniRef90_K7MPX8 Q T Y S E M I G H K F V L N A T F D E V D A S Y D V L W V P G G R S P E Y
UniRef90_S2KN48 G V R S A A E L S L T P Q D A I G E E T G A L D M L L V C A P S P L P A V D L
UniRef90_S4Z0J2 S V V A S N L L A L Q Q T V A I C D A A A P L N L F V C S S F N P K
UniRef90_G0ACQ8 A V T A S N G L S V T T I R A D E C P A A D V V F V C G G T D I D
UniRef90_UPI0004036B2B H E K A W G H Y F A V D V P L S N A L A A D F D A V L I P G G E R G V A K
UniRef90_A31B4 Q T Y T E K P G H N F A I N Y S F D D V N V E D Y A G I A I A G G R A P E Y
UniRef90_J3BS23 V L S M N G L M E A Q M S L E D A C G A D A V L V G S G R M T R D V
UniRef90_K6FMD2 H D F E G D Q T Y S E K P G H N F G L N F D F D A V D P A A V V I P G G R A P E Y
UniRef90_Q13G29 R I A S S S V F V C T D T I S K S G G R T D E F H A L F I A A G A G V H S M
UniRef90_C7RHW9 V E Y P S K A G Y K V S D I I S K E A Y P S E F D G V Y I L P G A Y S P D G
UniRef90_B6QLV5 N P A G S K I G Q S V V P T H T F D N P P A K T E V L L V P G G S G T R S E A S
UniRef90_N8S7H7 N I V Y S K Q R K S V S I D L G I D E I S V R D F D A L M I P G G Y S P Y H
UniRef90_B8HZN5 P F V C G N G I P V R P D L S V R D S Y T P E L V I L P E L W L G P D E D M
UniRef90_U5VXQ7 I N A G P F R L A T D H R L D A L A T A G T I V L P G R E D P A
UniRef90_V8D316 L W S D S P G S I R T L E G Y T V D S V G P E L A D G A D I I V V P S W P V D
UniRef90_A0A024HBV7
UniRef90_UPI000371F1BD R V Q A F K H L D K A D T F P V D A T V A D S S D Y D A L V L P G G L A N P D A
UniRef90_A3V8F3 D V A L T C G I A L P A G P L A A A D G A D A L I V V A G Y N Q S
UniRef90_X8M2A2 W K R K E L L E G L Y T G W P T M P T M T F D E C P D D L D V L V T G M V P S
UniRef90_Q08QT2 P A L R V S H W E G Q S V E R V F D T H G G S G D R L A V L I V P P S L I E E S
UniRef90_C6B551 Q T Y T E K L G H N V T I N K T F S A E A N Q L D Q Y H A V Y C A G G R G P E Y
UniRef90_A3X723 Q I Y R W R F L T D G A P A T S A G M E V N P H D K L A R C Q G D M L I A M
UniRef90_S3UQ57 S R V R T A A M L H G S V Q I K P D I T G R C E K V D L V I I P I G N V V N V
UniRef90_D0KBF0 Q T Y T E K P G H L F R L T A S F D E V R M Q E Y G G V Y I A G G R A P E Y
UniRef90_A2WJ79 E I Q G F R H V D R V K V D R T F D D A R E G D Y D A V V L P G G V I N G D A
UniRef90_U4T4B6 K E V Q A M K Q D V D K G D T F F A T E A K S N D Y D A L V L P G G T V N A D T
UniRef90_A1B693 A P V Q S S G M R I E P E E R L G D P G R F D Y I T I V G G L I D G G
UniRef90_D2ZHR5 I P L C S N G V S I R P D A A H A P E H F N Y V A V I G G G L K Y L
UniRef90_H5UCY4 T V Q A F D H A D T F P V D L T L E D A R V M D F D A L V L P G G V A N P D F

UniRef90_D5DG81
UniRef90_A0A031JDD1
UniRef90_D9VBT2
UniRef90_L7UN81
UniRef90_S5S985
UniRef90_F6EGE7
UniRef90_S6GW44
UniRef90_UPI00037BC8F7
UniRef90_F3IR99
UniRef90_H1VM89
UniRef90_E5XQE7
UniRef90_D9ST75
UniRef90_T5KDS0
UniRef90_S9UH71
UniRef90_I2BX85
UniRef90_UPI0003AB05AA
UniRef90_D0L712
UniRef90_H6MWN7
UniRef90_B1ZG82
UniRef90_C9NPC5
UniRef90_E3G8Y2
UniRef90_UPI000478183B
UniRef90_J0KIW7
UniRef90_UPI0003AD2A15
UniRef90_Q8DL3
UniRef90_MOQKE8
UniRef90_J3HKK6
UniRef90_UPI00037253B0
UniRef90_W2UE83
UniRef90_Q8ZZH1
UniRef90_F9TSW6
UniRef90_K0F8N5
UniRef90_D9ULQ6
UniRef90_T1XF24
UniRef90_UPI00042B2E44
UniRef90_C5CLK2
UniRef90_T0KX04
UniRef90_I4N979
UniRef90_N6VXP8
UniRef90_H8INI6
UniRef90_UPI000362C64D
UniRef90_I2NA86
UniRef90_G5P7M4
UniRef90_UPI000468DB88
UniRef90_G8LH57
UniRef90_N9SIR5
UniRef90_UPI0002260A82
UniRef90_R6PAR3
UniRef90_W9S280
UniRef90_D1J8B4
UniRef90_F7SLI9
UniRef90_UPI000375C51A
UniRef90_B0T7F9
UniRef90_A0A021XAM6
UniRef90_UPI0002ED18AD
UniRef90_W4K8E4
UniRef90_Q16E45
UniRef90_Q54LR7
UniRef90_J9MYL6
UniRef90_V4T235
UniRef90_UPI000471E6A1
UniRef90_S4Z3Y4
UniRef90_J3HQF0
UniRef90_K7MPX8
UniRef90_S2KN48
UniRef90_S4Z0J2
UniRef90_G0ACQ8
UniRef90_UPI0004036B2B
UniRef90_A31B4
UniRef90_J3BS23
UniRef90_K6FMD2
UniRef90_Q13G29
UniRef90_C7RHW9
UniRef90_B6QLV5
UniRef90_N8S7H7
UniRef90_B8HZN5
UniRef90_U5VXQ7
UniRef90_V8D316
UniRef90_A0A024HBV7
UniRef90_UPI000371F1BD
UniRef90_A3V8F3
UniRef90_X8M2A2
UniRef90_Q08QT2
UniRef90_C6B551
UniRef90_A3X723
UniRef90_S3UQ57
UniRef90_D0KBF0
UniRef90_A2WJ79
UniRef90_U4T4B6
UniRef90_A1B693
UniRef90_D2ZHR5
UniRef90_H5UCY4

UniRef90_D5DG81 REVTAYPA CRPEVEAAGAVFVEQTLHVVD RNLVITGQAWPDL
UniRef90_A0A031JDD1 ATTHWAYARMMRDGFYNNIRVVEEDRIFIDE GSVLWTSAGGLTAA
UniRef90_D9VBT2 IATTHYWHADDDVARRYGPRVVRVRAADYVDE GDLILTSAGWPTAA
UniRef90_L7UN81 KSAAYLPAKLKLDVQAGAGAEFVDSRAAVL DGNMVLSTRAWKPDH
UniRef90_S5S985 RCAVHWSMFA SVENFPEVVISRAFYELDGLFHTCAGEAAS
UniRef90_F6EGE7 KATSYKRLRTD LTNAGGVEWVDEPQVVRSTWTLT SRNPTGDL
UniRef90_S6GW44 EATTYWTFRDQFNSQRFPNVLNQEKHDA DNLVYCAGGTTSA
UniRef90_UPI00037BC8F7 T VCLHWNVLEAFQAQFPNAVITDKL FVDEGDL LLS CAGGSTAA
UniRef90_F3IR99 RATTNWKAAADK LARQYPKLEEVNPNFVVDN GQILVTSAGGAAG
UniRef90_H1VM89 RATTNKA SWTLVHGRPT EWWAKARWVVD GGNVWSSAGVSAAG
UniRef90_E5XQE7 PATTHEWYCD DMRRLLYPLV DLRPEYVDD GDLVITSA GLCAG
UniRef90_D9ST75 NATTYHLDNQGE LAKYGINILNK PVLVID GQILVITSA GLCAG
UniRef90_T5KDS0 AATHWK WADVFRHRFRPRVVALEPDE LVI DGIITGAGATAG
UniRef90_S9UH71 EATCYPLTIQIDQLKANNVITYIAQHVVVHDD IITADGPDGA
UniRef90_I2BX85 SATTHWWSAKSFAASYPAVRLLEAPIVDD GDLVITSA GLCAG
UniRef90_UPI0003AB05AA CAIHWENHPGFJERFRAASVSTG LFEVDD GSIYT CAGGTAAS
UniRef90_D0L712 TSHWLKLTIGLR RGYPGITVVA GKRFVIED GGRVITSTAGV LLSG
UniRef90_H6MWN7 T VITTA WLFADALRQA F P CAVVDDEKLV DGGVITTTAAFSAM
UniRef90_B1ZG82 HWEHVPAFAEERYPE I D VVRS LFEI LQGGDRIT CAGGLJA
UniRef90_C9NPC5 TATTHWRFTKNLIESQYENVHVKH D YATGPIWS CAGSSTA
UniRef90_E3G8Y2 TCSAYPACAPEVVRGGHYAEI G L DQAYV DGNLVTAPAWPAH
UniRef90_UPI000478183B AATYWRFRHREFAERFRPRV L LNQEKHLSDDNLVYCAGSASA
UniRef90_J0KIW7 RA CVHPYHV E DWKAAFPTL D HATD CHYD GDRIS CAGGLS
UniRef90_UPI0003AD2A15 ATTHWALADEFAARFPQVKVVD PDVLYVD GDLVATSA GAGAG
UniRef90_Q8DL3 TCTAYPACGPEVVS AKFTNVAVD AVVD GNLVTA PAWPAH
UniRef90_M0QKE8 ATTHESRIGLLQKMFPAVRV VETL FV D HGDVATSA GAGAG
UniRef90_J3HKK6 ATTHWEDMEETAEFPEADIRPDRYV I D G PVVETSGGASPT
UniRef90_UPI00037253B0 AATHWRLDADLAAVA PSADLRRRDV LFTEDGVLVTSAGV VGG
UniRef90_W2UE83 RCTHWNLSMREEFPKLQLSSSLFAI D RDRYTC SGG LSS
UniRef90_Q8ZZH1 RMTSYLAVKPEVNSGG L WVDQEVV V D GNLVTSRAWPDN
UniRef90_F9TSW6 AVISAYPACAPEVNSAQYQDIAMDQA HTD GNLVTA PAWPAH
UniRef90_K0F8N5 PATTHEWAYCDEFA DLFPAVKLD PA YVDD GDLVITSA GLSAG
UniRef90_D9ULQ6 TLTSYPSLRTD LNSGASVW DKS VVSDSTGLVTSRT PDDL
UniRef90_T1XF24 RFAHGYWRDTRTKR HAGA TYVPHQRYVMDRGLVATTTGLTAS
UniRef90_UPI00042B2E44 KCTGYRAVRPALIAAGA L WVEPEA CVVDGNITGCTYKGH
UniRef90_C5CLK2 ACTDLTKP WVQEAFVJE V L NQPF FAKGNVATAGGC LISA
UniRef90_T0KX04 RATTNKRAWAQMTAFGP N WVA PARYVLDGN I WSSGVTSS
UniRef90_I4N979 ATTYWRFFGQFAERFPQVIL LNQDKHLTD D DNLVYCAGTTSA
UniRef90_N6VXP8 ECSAYPACGPEVTNAGGKFSJEAN HV D GKLVTAPAWPAH
UniRef90_H8INI6 RATTHWLAETAATYP AVRVDA DALYI D E GKLVTSA GASAG
UniRef90_UPI000362C64D RCVS WFA QDFIDRF D N PISDQIFVVD RDR L T C SGGHGA
UniRef90_I2NA86 AATHWARA AELASRYPKVRVDPAVLYVDGD IATSA GAAAG
UniRef90_G5P7M4
UniRef90_UPI000468DB88 MAATHWDFHDSFE EFPQVGLSRSV FVVPDA P VITASGG AAT
UniRef90_G8LH57 RRYVYCSG DLWETV KQDGEYVDA P VVVDKNNL L SGGK
UniRef90_N9SIR5 LFSYSPNENNI KIRQRQE TATTI DKNYI SARNA AAS
UniRef90_UPI0002260A82 CCVSWYHRQDFLEEF PDQQVTSE QMYVDGDRIT C SGGGGT
UniRef90_R6PAR3 PLVYKGMRLTSTF TNEF EDAA P WSEHV VVDENLVTGQNPASA
UniRef90_W9S280 KCTAYPAVKLNVAE I WLE P DP I HRCFT HENLVTGA WPGH
UniRef90_D1J8B4 TKFSSFPINDSVKEI S NRSKELVSI S PDKK LITGKCAA AV
UniRef90_F7SLI9 LTTLVPHLVENALDQA CGGDIYSKADDFTDGQLITGQNPSS
UniRef90_UPI000375C51A AITHRGALJEALALDQ P DCTIWP E ARVVDGKI V V SAGI SMG
UniRef90_B0T7F9 T VITHSWFEPQFRSRFRRLD TDR L I I D D GDIITAGGVMAW
UniRef90_A0A021XAM6 HWLIMADLFRDHYPKAFRPERIL C DSGSDGR LITTTGGATSW
UniRef90_UPI0002ED18AD TLTSYPSLFTDIRNAGGSWVDQS VSRDDWTLVTSRT PNDL
UniRef90_W4K8E4 RAAGSKSFW SVSSQGTNWI PKARFMNDGN I WTS SGLTAG
UniRef90_Q16E45 RLSVHWG YEAFAFAFP D MLEQSDEVIETSDR CVITASGAAVA
UniRef90_Q54LR7 KVT HFP GCNQF MQD S I E L D Q T L V V D G N I I T A S S A G V T
UniRef90_J9MYL6 LATNKNAWATMMGP RVN WVS PARYVIDGK V W S S S G V T S G
UniRef90_V4T235 KCTAYPAVKLNVLJAWLE P DP I NRCFT DGNLVTSGA WPGH
UniRef90_UPI000471E6A1 TLTAYVAVGKPDIEJLGGT WKNIPADQAI V DGNLVTSA WPGH
UniRef90_S4Z3Y4 KATTHWGYVEEQFEKRF PDIDVD R I I E D GDIITAGGAMAW
UniRef90_J3HQF0 NATSHWAS E LFRD RYTA VKFRPERL H D GRLITTTGGASW
UniRef90_K7MPX8 KCTGFPSLK PVLVDA GADWVD P DMTT DGGFLITTTGGYEGSQ
UniRef90_S2KN48 RATLPWRIDAVSRDY PRINLS HQ LFEI D RDR L T C GGGTAA
UniRef90_S4Z0J2 KJALHWEAASPFQEDHP EELTNE LFEVEHNLIT CAGGTTSA
UniRef90_G0ACQ8 CATHWENLS SLKRAHPA I SFA PD L FVI D RDRIT C TGGTAP
UniRef90_UPI0004036B2B TIVANDSVRETLIEAAG AKLADDTVVVEGNLITARD D LDM
UniRef90_A31B4 KLTAYPAVGP T IAGG DYQDI P VIT DAYV DGNLVTSA WPGH
UniRef90_J3BS23 VPACTDLITK P WVEEAGVJLNQ P FVAJKNQ V V A T A G C L S S
UniRef90_K6FMD2 QCMAYP AVQ PDIERA GATYVGP N E T F T N G N I V T G P A W P A H
UniRef90_Q13G29 KLR RSEGA HAVAWNG LKAPV S QRTSTP
UniRef90_C7RHW9 KASSTPTIK KADLINA GAKWEDRE V V V Y N N I I T RRS P K D L
UniRef90_B6QLV5 SNKRAWNEV IALRDE P TWIRRA R WVA EGN I W S S S G I S A G
UniRef90_N8S7H7 R L T S I E D L K E L K D A G A V V F D R E V V N D N G L Y I T S R S T F E L
UniRef90_B8HZN5 DATSHWGYQDLFRKRFPTI RFK P P N A S G Q L V T A G G T T S W
UniRef90_U5VXQ7 RATTHWYAAGLFRRTHP AVTLDP DYVDEGGQFVTSAGATAG
UniRef90_V8D316 AVTHWEAMPQLSRRH PDIVLDDDS VLVVDGDLVITSA GATAA
UniRef90_A0A024HBV7 AATHWALADDFRORYPAVQLEAD L C T E D G A R F C S S G A Q A G
UniRef90_UPI000371F1BD TLT SWPSVR TDIRNAGGTWVDEEAVVCHATLVITSRKPADL
UniRef90_A3V8F3 RATVHWEDL E D F A S A H T V D V V P D R F V I S R N R F T A G G A P A
UniRef90_X8M2A2 RATSN SNVVP DFLA P DVGA IAVGGS D V V I D G S I Y T S G P A T G S
UniRef90_Q08QT2 RATTHWNLA EKLA GKFPQLD VDK L I I E D GDIITAGGVMAW
UniRef90_C6B551 KKVGA LGA C E P E A G G T Y I D L S P T E A Y V D G T M V S A K G W T A L
UniRef90_A3X723 RATIHWELJAGFTEDFEVH AQR LRHVQDGNRIT C T G L A A
UniRef90_S3UQ57 RATTHWELFA PFRRMFP SVHL D V D R L V I D G N F L T S G G S N A F
UniRef90_D0KBF0 KLTGYFTLKPPEMAGGKWL T A A D D E A L Q D G N L V T A A T W M G H
UniRef90_A2WJ79 TMTSWPSLQDDIRNA GGTWVDEEAVVCHATLVITSRKPADL
UniRef90_U4T4B6 TLTAYNSLQTDLENA GATFINKT VQ V D G N L I T S R N P D D I
UniRef90_A1B693 RCVS WFA QDFIDRF D N PISDQIFVVD RDR L T C SGGVISA
UniRef90_D2ZHR5 RASLHPFLKEDFLQAH FMPQVYAEQDFINEG D V L T C P G G I S T
UniRef90_H5UCY4 TLT SFPSV R T D V I N A GGTWVDEEAVVCHATLVITSRKPADL

	170	180
UniRef90_D5DG81	P K F M K E F F N V L K K A E K V N A	
UniRef90_A0A031JDD1	L D V V V A M V E K D L G A D V A R S V A R R L V M	
UniRef90_D9VBT2	L D L C L H L V R R D F G A A V A N D L G R R L V V	
UniRef90_L7UN81	P A W M R E F M K L L R A K A P A A	
UniRef90_S5S985	F D L T L E I T R Q D Y G Q E L R D A I	
UniRef90_F6EGE7	E D F C A A I D E A L	
UniRef90_S6GW44	C D L Y I Y L I E R F C G A N V A Q A V A R D I L	
UniRef90_UPI00037BC8F7	I D L G L Y L V T R H C G A T K A N Q A V R H M M L	
UniRef90_F3IR99	L D L C L H M I K Q D H G	
UniRef90_H1VM89	I D A T L A F V E A V Y G A E N A T Y V A D M M	
UniRef90_E5XQE7	M D L C L H V V R R E M G A A A S D L A R W N V M	
UniRef90_D9ST75	P E V A F K L L E M L T N T E K M Q Q V K G A M	
UniRef90_T5KDS0	I D A C L H L L A R R E G Q L V A N R V A R R I V	
UniRef90_S9UH71	A Q F G A S L V Q A L	
UniRef90_I2BX85	S E L G L R L V D R L M G P S V A A D T A R F L V I	
UniRef90_UPI0003AB05AA	F D M M L H I I G R D F D E S V V S G I C E L A L V	
UniRef90_D0L712	I D G A L R L T E R F L G A D A A T V V A D E I	
UniRef90_H6MWN7	Y D F V I D L T E S R H G V D V A R R T A R I A L L	
UniRef90_B1ZG82	L D L M L D L I G R D H G A G L A G V S D W F L	
UniRef90_C9NPC5	I D M S L H L L N L F G S R K L F N V V S K K M V M	
UniRef90_E3G8Y2	P Q W L A K F V E V L	
UniRef90_UPI000478183B	C D L Y I H L I E Q F C G A N V A Q A V A R D I	
UniRef90_J0KIW7	V E L T A E L V R L H C G P D R A A K V I H Q M T V	
UniRef90_UPI0003AD2A15	F D L C M H L L R N D Q G A R Y A A H V A R T M V M	
UniRef90_Q8DL3	P Q W L A A F L E V L G T K	
UniRef90_M0QKE8	I E L C L H L V E H D H G A Y A A A I A R S M V V	
UniRef90_J3HKK6	F D L M L H L I R S R Y G M S V A L D V A	
UniRef90_UPI00037253B0	L D L C L H L V R R D H G A D V A T R L A R R L V M	
UniRef90_W2UE83	I D L M L N L V A S I H G H Q L V Q Q I S E Q F	
UniRef90_Q8ZZH1	P A W M R E F I K L V K A K K	
UniRef90_F9TSW6	P A W L A Q L L K L L	
UniRef90_K0F8N5	F D L C L H I A R R E L G A G P A A E L A R W N V	
UniRef90_D9ULQ6	D D F L G A V G K A L V G	
UniRef90_T1XF24	V P T M L A L V E A I G G Q E K A K A L A A E L	
UniRef90_UPI00042B2E44	P E F I R L F V K A L G G	
UniRef90_C5CLK2	P Y L A A W L I A R S E G I E A A K	
UniRef90_T0KX04	L D L T Y A F V A E V Y G Q N Q S T L I A N T M	
UniRef90_I4N979	C D L Y I Y L I E R F C G A S V A Q A V S R D I L	
UniRef90_N6VXP8	P A W L A R F L E	
UniRef90_H8INI6	L D L C L H L V A R D Y G	
UniRef90_UPI000362C64D	A H L A A F L V Q R H V G Q S A A T K S L N I M M I	
UniRef90_I2NA86	V D L C L H L V S A D Q G A A H A L R I A R Q M V	
UniRef90_G5P7M4		
UniRef90_UPI000468DB88	A D L M L Y L I R Q K H G E D I A T E V A D Q M V	
UniRef90_G8LH57		
UniRef90_N9SIR5	A D L A F A V I E N L G S K E V A E K I K N G F	
UniRef90_UPI0002260A82	A E L A L H L I E K H L S R P L A R K A S H I L L L	
UniRef90_R6PAR3	K L T A E H T L K K L K	
UniRef90_W9S280	P E F L Q Q L M A L L	
UniRef90_D1J8B4	F D F G L A V T E V L G G N Q L A K L V	
UniRef90_F7SLI9	A A T A E A L M A R L A	
UniRef90_UPI000375C51A	I E A S L Y T V A K H H G Q A Q A L E T A R Y M	
UniRef90_B0T7F9	I D V A L K L V D R F L G P K V M L E T A R V L L V	
UniRef90_A0A021XAM6	Q D L A L Y L I G R F C G A E E A T R I A R L F L I	
UniRef90_UPI0002ED18AD	S D Y	
UniRef90_W4K8E4	L D L S Y A F L K E V Y G E E V A E K A A	
UniRef90_Q16E45	F D L A L G F I D T A L G P N V A T E V A	
UniRef90_Q54LR7	I P F A L K I V E F L K G I D A S N	
UniRef90_J9MYL6	L D L M F A F I G T F W G A E Q S E R I A	
UniRef90_V4T235	P E F I S Q L M A L L	
UniRef90_UPI000471E6A1	P A I L K E F Y K L L	
UniRef90_S4Z3Y4	T D L G L R M V D R F L G S Q V M N E T A R A L L I	
UniRef90_J3HQF0	Q D L A L Y L I G R Y C G P A E A V R A S K I F V I	
UniRef90_K7MPX8	P E I I S L L V K A L G G K	
UniRef90_S2KN48	M D M M M T L I G M H H G Q R L A D R V S E H F V	
UniRef90_S4Z0J2	I D L M L Y I I Q A E L G H G L A I K V C E Q F I	
UniRef90_G0ACQ8	L D L M L N L I S S Q V G K T T I A A I A D Q F I L	
UniRef90_UPI0004036B2B	E A F K A S I V E H F	
UniRef90_A31B4	A A W I R E F L K L L	
UniRef90_J3BS23	Q Y L A A W F I S R L A G E E A A R	
UniRef90_K6FMD2	P Q W M R Q F L D L L G T K I E A	
UniRef90_Q13G29	L R A A L A M I E E D F G A E A A R E I A S S L Q L	
UniRef90_C7RHW9	P A H V K A F V D A L K	
UniRef90_B6QLV5	M D M M F A Y V E Y I W G K E F A T V V S K R M	
UniRef90_N8S7H7	P I F I N E C L N V L	
UniRef90_B8HZN5	H D L A I F I I S R H C S P G E A L R I A K V Y L L	
UniRef90_U5VXQ7	I D M C L H L I G R D H G	
UniRef90_V8D316	I D A C L H L I R N H I G A V A A R V A R S L V V	
UniRef90_A0A024HBV7	L D L C L H L I A L H G G R A L A R Q V A S T L V F	
UniRef90_UPI000371F1BD	K A F N K A F L A E F A	
UniRef90_A3V8F3	A D L M L H L I G A R C G A G L A G Q V A A S F	
UniRef90_X8M2A2	F D A S L L V L K A L C G E E V A S L V E	
UniRef90_Q08QT2	V D L G L R L I D R L I S P G I M L A T A R F F V V	
UniRef90_C6B551	A A F I R E C L K V L	
UniRef90_A3X723	F D L M M E L I G Q A H G Q A L R L E V A A L F M	
UniRef90_S3UQ57	Y D L G L H V L E Q S L I G R E V A L K C A K H F L L	
UniRef90_D0KBF0	P A I L R Q F I S L I	
UniRef90_A2WJ79		
UniRef90_U4T4B6	K N F V E A I D K A L	
UniRef90_A1B693	A H L A A F L I D R H L G R A A A R K A L S I L M I	
UniRef90_D2ZHR5	I T L A T E L I R L H A G N D T A K T A A Q Q L	
UniRef90_H5UCY4	A A F N A A L V A E F A H S N A A	

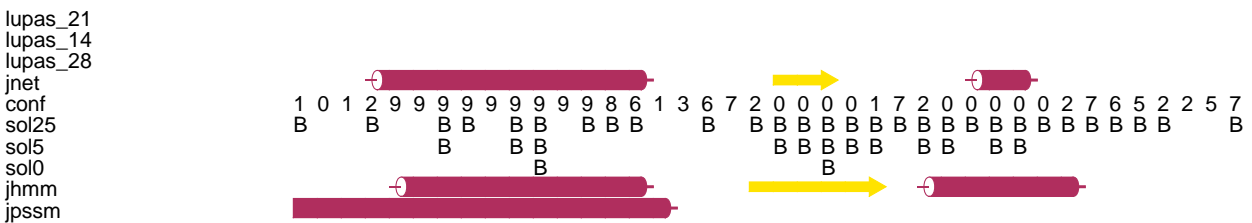
UniRef90_B9SJL8 Q T Y S E S R G H N F T L N S T F D D I D F G K Y D G L V I P G G R A P E Y
UniRef90_X1K435 K E Y Q S K H D Y P V R A E F A A D K V K A D D F D G V V V P G G F A P D R
UniRef90_W8I2U1 P R I R V S H W Q D G S V E K T L D T H P G P S S G L V A L I L P P T L A E L P
UniRef90_W6XCT4 A F L R V S Q W H A R T R G K A P V R D N E K G E P A V I L L P P S L G G Q I S
UniRef90_UPI00035DA41A L R V S H W R E S G G A V T R V F D T E P G G G E P A F V I L P P A V T A P I T
UniRef90_UPI0003B4BEE8 P V K G A V P S N Q G P K T M A D Y S Y A D A P E L D Y L L V P G G N V A Q Q
UniRef90_A6FTT9 P V L S S S G M Q V M P H A A L S D M R E R D Y L F V L A S Y H H E
UniRef90_L0J1X0 V V A A G P M R I A T D H S I D A A A E A D T I V V P G R N D V T
UniRef90_F6BYU0 P A L V A N R R R P F R S S T G L Q V T P E R D C A D V V I V C D I H L N R D E
UniRef90_R5ZZR7 P V V T T D P D V Q I T A L T D W K E I Q T A D A I V V P S W T D L D
UniRef90_E7C8F8 D P I T S S S G I T V Q P K E R L G D P R R F N Y I V V V G G L M D E A
UniRef90_A0L2C4 N N S L S S S F A V T R L S L E E M S L E E C Y Q L V I I P P S I E T E S Y
UniRef90_A5FX86 T P V T A S N G L S L G A V T A P E S G P A P D I L F V C G G L D V R S A
UniRef90_J2GZ22 P K V S M G G L T V L P D Y T V N E F N P N L D I V M L I I P G G T G W R E E K
UniRef90_R6WZIO N D A D A L I L P G G M P G A S N
UniRef90_UPI00036CC123 K I T A S N G M T A T I K P A T D N L R S A E F V F I L G S W G T E
UniRef90_G7D7T4 P V R A G G G Q M V A V D G A V G K R G R F D A I L V P G N L V D H V T A E R
UniRef90_Q6YQ81 P V R D V Q G R I E S D G S F N E P D S F G L I I A S G M Q L D E Q R F P S
UniRef90_Q466K3 K T A K G M L G G T I K P D I A I S D A R I D D Y D A I V I S G G S G S R K Y
UniRef90_R8B1M5 R T V L S D L G I E V S T G T T L D S L M A N P G H V D M L I V C G G Y R S Q L
UniRef90_UPI0003B38C52 Q T Y S E K R G H N F A L N A D F S A A R A E N Y D A V L I P G G R A P E Y
UniRef90_V6J1Z3 Q P P L D P K S D E D D A Q T E A T R R F A K D D F D A V F Y P G G H G P L W D
UniRef90_C3BIK1 A T V T G E G G F Q C K P H I S I D G T I A K E Y E L I V P G G E I F H L
UniRef90_UPI000237AF2D Y V T A T A E P A M L T S A L N V Q G I P L A R L Q G C D L M I V V A G F Q L A
UniRef90_I4CR68 H F K Q D K E T Q A A L A N T S R L S A I R A D E Y D A V F Y P G G H G P L W D
UniRef90_UPI00035D0C1D P V V S T G R L T I Q P D Q A V A A I D P D A Y D A L I I P G G F P A S
UniRef90_J3F7Q6 P R L R V S H W Q V E G D Q S P V R V H D S D P G T D A V V I P P S I G G F S A
UniRef90_L8GCZ7 K V Y Q S K E G Y W G T S D A V F S D I N P A E V K A L V
UniRef90_B8KHD0 S T V T L D S G L R L A L H G D I S T V E N C D L L I L P A I W R H P R R V
UniRef90_UPI00037EDBE9 P I V G D K D P G E S V Q P T L T L J A E A D P D R Y D L L L V P G G T L N A D S
UniRef90_C7D6R0 A V S S S S G I D I D V H L G L D D L K P D T Y L F V C S G N N G T N
UniRef90_K6YW94 P V K A S N N I A F N T Q Y S T A N C P D D Y Q T F I V V P S G F D P L V Y
UniRef90_UPI000368D300 Q T Y S E K P G H R F T L N A S F S E I R A E D Y D A L V V P G G R A P E Y
UniRef90_W8X4L0 P L R T T A G F S I V P E Y G L A E L E R A D W V I V P S W H E D G
UniRef90_UPI0003721080 R T V H L G S G L S V K T Q R P L T E L D D L D I V V V P A M G T M T G P A T D
UniRef90_E4R2T6 P C E T V Q H D E T L T P D A R L S D V Q A A D Y D L L V V P G G T C N V D R
UniRef90_E8M1I7 S E L A M E A Q F E V E I R N H W Q A Q S G D P V N T V V V I P P S H S G S Y Y
UniRef90_S2KIS3 D L V V S D L G T A I S T D C Q L S V L Q E Q R L D L L I M C G G F R V R
UniRef90_D3BBC8 F C V T A V H D F L P G E Q T N F D F A A V K E C D Y D A L V I P G G R A P E F



UniRef90_B9S JL8
UniRef90_X1K435
UniRef90_W8I2U1
UniRef90_W6XCT4
UniRef90_UPI00035DA41A
UniRef90_UPI0003B4BEE8
UniRef90_A6FTT9
UniRef90_L0J1X0
UniRef90_F6BYU0
UniRef90_R5ZZR7
UniRef90_E7C8F8
UniRef90_A0L2C4
UniRef90_A5FX86
UniRef90_J2GZ22
UniRef90_R6WZIO
UniRef90_UPI00036CC123
UniRef90_G7D7T4
UniRef90_D6YQ81
UniRef90_Q466K3
UniRef90_R8B1M5
UniRef90_UPI0003B38C52
UniRef90_V6J1Z3
UniRef90_C3BIK1
UniRef90_UPI000237AF2D
UniRef90_I4CR68
UniRef90_UPI00035D0C1D
UniRef90_J3F7Q6
UniRef90_L8GCZ7
UniRef90_B8KHD0
UniRef90_UPI00037EDBE9
UniRef90_C7D6R0
UniRef90_K6YW94
UniRef90_UPI000368D300
UniRef90_W8X4L0
UniRef90_UPI0003721080
UniRef90_E4R2T6
UniRef90_E8M1I7
UniRef90_S2KIS3
UniRef90_D3BBC8

90 100 110 120

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



UniRef90_B9S JL8 K C T A Y P P V R P V L I A A G A H W V T M A S C V A D G N L I T G A T Y E G H

UniRef90_X1K435

UniRef90_W8I2U1 T I T T H W S H Q D L I A D R Y R D V R V D T D K I D E G D I I T A G G M M A W

UniRef90_W6XCT4 T A T T H W A H A D I F R T R F P D V D V D R L I I D D G D L I T A G G L M A W

UniRef90_UPI00035DA41A T V T T H W F F A E A F A A R F P D V R I D K L V I D D G D L I T A G G L M A W

UniRef90_UPI0003B4BEE8 P A T T N K M A F K A S I A P G P N W V P K A R W V D D G S V V T S S G V S A G

UniRef90_A6FTT9 R V T V H W D L L D F T E R F L D T E A E R A R V L R D G A W W T C A G A M S A

UniRef90_L0J1X0 R A T T H W L A A D R F R A T F P A V N L D P D Y V D E G Q L L T S A G A S A G

UniRef90_F6BYU0 E A A S H W S M A D L F R D R Y P G V K F R P E R I R G G R L I T T G G A S S W

UniRef90_R5ZZR7 N C C T H W S A E E D F S K E F P Y C K K N V T Y V Q D D N I L T S A G A S A T

UniRef90_E7C8F8 R C C I S W F H H S E V V D Q F E D P V T E Q I F V V D R D R L T C S G G V S S

UniRef90_A0L2C4 R A T T H W G L V E T F E T Q Y P Q V D I E K I M V N E G D L I T A A G M M S W

UniRef90_A5FX86 A V H W E D M P A M R A E F P E I E L V N E L F V L D R N R L T C T G G T G P

UniRef90_J2GZ22 G N T L A Y L K E G A P N Y R G D Q H Y V E G Q S I R D E N L I T A N G S G A

UniRef90_R6WZIO K A T C Y P G F E P K L I G A N V T G E A V E V S D N V I T G K G P G L V

UniRef90_UPI00036CC123 S A T T H W W L N G F K E N F D R V E V E E S L F T L D N K V M T C S G G L A G

UniRef90_G7D7T4 R A T L T W W L Q G E L R Q R H P T I D A D A V I T V A D R I V C A A G P M S W

UniRef90_D6YQ81 V C T T T W W L Y P T F A E R Y P M P V W G K A L A E Q D N V I T A G G P L S W

UniRef90_Q466K3 E S T V F K S P D T V R E L K E H G A I Y L D R E V V S G R V I T G R D P A S A

UniRef90_R8B1M5 C A L H P D N H A Y V R E N F P N V K V S T N A Y E I E G H H A T C A G P V S T

UniRef90_UPI0003B38C52 R V S A Y P A C A P K M A G G T Y A D I A I D D A C V D G N L V T A P A W P A H

UniRef90_V6J1Z3 P V V K V P F L V E D M L R G H G A N Y V K A E D W E D G H L I T G Q N P A S S

UniRef90_C3BIK1 S T S L T P E V E S L A H L H E W K Y K Q S T D V T V D G K L I T A V G S A Y

UniRef90_UPI000237AF2D A A T T H W D L E N F S A R F P N V D V R P D R F T V S E N R L T S G G A V P A

UniRef90_I4CR68 P I V Q G K R L K K H G G D Y S K G P D W L P F A V V D G N L V T G Q N P A S S

UniRef90_UPI00035D0C1D S Y T A S L T P D E A A Y A A V D G R G T M E T L V T D A N I V T A T G S N Y

UniRef90_UPI00037Q6 S A T T H W T S A K A F A E R P A V H L K L K A P I V D D G D L I T T A G L M A W

UniRef90_L8GCZ7 K V T S H P A V I Q D D L V N A G A E W V D E P C V V D G K L V S A Q L P K D L

UniRef90_B8KHD0 P A T T H W H D F D F E R R Y P A V N L K R R H T Q S E R L Y C V I G S V N S I

UniRef90_UPI00037EDBE9 T L T S Y A S L E T D I R N A G G H V W L D E P V V Q D D W V M I T S R T P D D L

UniRef90_C7D6R0 T F T L H W E N Q P G F I E A F P D T P S P Q R F E K D G D L M T S G G V I A A

UniRef90_K6YW94 R A T M H W A A T S F Q E N N P N A D I L Q E R F L I E D N R V S A G G L S G

UniRef90_UPI000368D300 Q V S A Y P A C A E A V E G A S Y A A V A V D Q A I T D G R L V T A P A W P A H

UniRef90_W8X4L0 R A T T H W A Y A D R L A E R H P R V E R E A L Y V D E G R V L T S A G V A A G

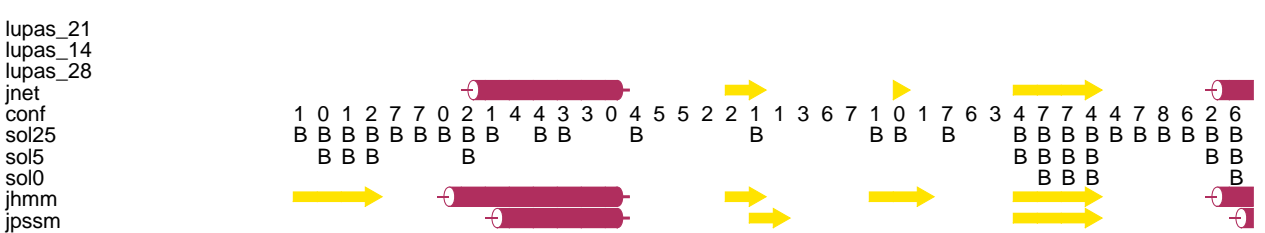
UniRef90_UPI0003721080 R V T T T W F L A G A F R R R F P A V D L D S M V V R D G G V I T A G A F A H

UniRef90_E4R2T6 T A A C R Y I A A D I E N A G G H Y V D E Q L H V D D A N L I T S R K P D D L



UniRef90_E8M1I7 S C T T H W G L A Q T L K A H F P D I K V K P E S L N E G S L I T A G G M M S W

UniRef90_S2KIS3 D C A I H P D S R A M L L E S F P S V H L S R H S Y V D R K R I S C A G A N S S

UniRef90_D3BBC8 R C T S Y P A C K P I L A G A N F Q D T A A D K A V S D H N I V S A A W P G H S



	170	180
UniRef90_B9S JL8	P E F I Q L F V K A L G G	
UniRef90_X1K435	I D L G L K L V D R F L G T N V M L A T A R F M I I	
UniRef90_W8I2U1	I D L G L K L V D R F L G P T I M V E T A R F L L V	
UniRef90_W6XCT4	T D L G L K L V E R L L G P T V M L D A A R F L L V	
UniRef90_UPI00035DA41A	M D M T L A V I A R Q Y G Q T M S D W L A	
UniRef90_UPI0003B4BEE8	L D L T L G L I A D H L G I A A R L D V E S L F I	
UniRef90_A6FTT9	L D L C L H M V A R D Y G	
UniRef90_L0J1X0	Q D L A L Y L I G R F C G A V E A A R V A R L F L L	
UniRef90_F6BYU0	V D C I L H F I R I I Y S A T V A N K L A K I L A I	
UniRef90_R5ZZR7	A H L A A Y L V D K H V G R A Q A N K S L H I M I I	
UniRef90_E7C8F8	L D L G L E L V A Q F C H V K V M R Q L G K Y L V I	
UniRef90_A0L2C4	L D M M L A L I E A R L G R N V A E H V R A I F V L	
UniRef90_A5FX86	L E F S R H I L E R L	
UniRef90_J2GZ22	M N F G L A L V A A I K N D A V A E E V A A G L L L	
UniRef90_R6WZIO	V D L M L R L I E E I N G S S F S G E I A D Q M L	
UniRef90_UPI00036CC123	V D L L L R L I E M V D G K E I A K L C A D Y V V I	
UniRef90_G7D7T4	V D L A I H V V R S H A G S E L A K L T A D M A V	
UniRef90_D6YQ81	D V F G K A V L E A L K	
UniRef90_Q466K3	L E M M L K L I E L L H N P H I V R A V R E I L	
UniRef90_UPI0003B38C52	P K W M A A F L	
UniRef90_UPI0003B38C52	E A A A N A L L K R L A	
UniRef90_V6J1Z3	V E F A V E I I K Q L	
UniRef90_C3BIK1	I D M M L H I I A A R H G A G F A A R V S	
UniRef90_UPI000237AF2D	E E V A H E V L K M L	
UniRef90_I4CR68	L A F A E E I L R H L D G E P E A	
UniRef90_UPI00035D0C1D	S E L G L R L V D R L L G P S I A S A T A R F L V V	
UniRef90_J3F7Q6	P A F M K A I L N L L	
UniRef90_L8GCZ7	G D F M V H F V E Q W Y G E R I A R A V E A Q F	
UniRef90_B8KHD0	K D F	
UniRef90_UPI00037EDBE9	T E M M I S V I A K D Y G E D F A I A V S D M C L	
UniRef90_C7D6R0	L D M M L S I I A V N N G Q N L A L D V A E Q F	
UniRef90_K6YW94	P A W L A Q F L K V L G T R I E A	
UniRef90_UPI000368D300	L D C C L H	
UniRef90_W8X4L0	I D L A L T L V R A V S G D L A R Q V A R L L V I	
UniRef90_UPI0003721080	D Y F V G A I K D A L K	
UniRef90_E4R2T6	M D L G L E I V S S L M S P A V M R L L G K M L V I	
UniRef90_E8M1I7	L S M M L D W L R R D H D P S F V D A I E E I L	
UniRef90_S2KIS3	E W L A L F L E K L G T K	
UniRef90_D3BBC8		

lupas_21	
lupas_14	
lupas_28	
jnet	
conf	8 9 9 9 9 9 9 9 8 7 2 0 7 9 9 9 9 9 8 7 5 1 8 9
sol25	B B B B B B B B B B B B B B B B B
sol5	B B B B B B B B B B B B B B B B B
sol0	B B B B B B B B B B B B B B B B B
jhmm	
jpssm	