

QUERY H H L S W N S I D R I G D L V Q Y F F E E D A R K K D L K S Q K K
UniRef90_K0IXZ5 H H L S W N A I D R I G D L V Q Y F F E E N D P R R R D E L R Q R L Q Q R K
UniRef90_D6XW30 H H L S W D A I D R I G D L V E Y F F R R D P E R R V E A L L R D V Q N E
UniRef90_UPI0003778EFD H H L S W D S I T Q I E T L V E Y F F R R D P E R R V A E L L Q R Q L Q R K
UniRef90_W9B5D1 H H L S W N S I D R I G D L V N Y F F K Q D S K R R V N Q L R R D I Q K Q
UniRef90_N4WDX5 H H L S W N S I D R I G D L V Q Y F F E E D S D R R Q K A L L Q E Q T R N K
UniRef90_I8AFW9 H H L S W N A I D R I G D L L Q Y F F E E D P S R R V A H L L E Q E I Q R K
UniRef90_S2XDK5 H H L S W N S I D R I A D L I Q A M E E E N D P D F L Q K L L E E L K E Q
UniRef90_F8F5M8 H H L S W D S I D R I E T L L E Y F F K Q D P S R G E A L L Q I K K E
UniRef90_W7B115 H H L S W N S I T D R I G D L L Q Y F F K E H P D C L E E L L H K S Q S E
UniRef90_E6SGM3 H H V S R Q T L E R I E R F V A F A R A N P A W M N Q L H L K M K Q
UniRef90_UPI0003134367 H H L S W N S I D R I A D L V Q L L E E E D E E L V K K L L E K M K Q
UniRef90_U4WJX8 H H L S W E S I A S I E Y L V Q F L K E D P S R V A E L L M R I R E E
UniRef90_L0EEK8 H H L S W D S I T C I E T L V E Y F F K R D P K R L E E L L A A V R R E
UniRef90_UPI00042A92FD H H L S W N S I D R L G D L V K Y F F K E D Q Q R L D D L K E V Q
UniRef90_UPI00047D4722 H H L S S N T L D C M T Q D F V E F F E D K P E L M N Q F K E F R E Q
UniRef90_A6CH61 H H L S W D S I D R I G D L V Q L F E E E N D D L L K R L R E I I Q
UniRef90_UPI00035F0399 H H L S W D S I T R I E S L V E F F F G R D P K R V E E L K A I Q D E
UniRef90_X5A368 H H L S W D S I T C I E S L V E F F R R D P S R I Q A L N E I H Q E
UniRef90_UPI0002FF7AD3 H H L S W N S I D R I G D L V Q Y L E N N K D F E K Y L K E L Q N
UniRef90_M1YV62 H H L S A D S L N A I G Y L V Q Y F F R E E P E R I K A L H Q I R E
UniRef90_W7YXW6 H H L S W D S I T R I E T L V E Y F R R D G Q R L Q D L H R Y Q Q
UniRef90_U6B7C5 H H I S I E A L D K I N G M I Q F F A E R P G L K E E L H R Y Q Q
UniRef90_UPI000411C2B6 H H L S W E A I D R I G D L V Q Y F E E E D G R I E A L L R E V Q R K
UniRef90_U1Y761 H H L S W D S I T C I E Y L V Q Y L Q E N P A R V E E L R Q L R E
UniRef90_M1NR72 H A V S D R F L A R I D A Y L G H P D R D P E I V D H L Q S L K E
UniRef90_UPI0003B3FC0D H H L S W D S I T C I E N L V Q Y L T A N K E I V D H L Q S L K E
UniRef90_UPI0003799A7C H A V T P R L M E R I D A L L G H P S T D P N R I R D L E K V H Q E
UniRef90_UPI0003F95BD6 H A V S D R L T A R I D A K L G F P Q R D P N R I R D L E K V H Q E
UniRef90_C6J3R6 H H L S W D S I T R I A T L V E Y F F K R D S N R I R D L E K V H Q E
UniRef90_X0XPQ5 H D V S P E T I T C L E F V E F I S L L P E W K E N F Q E Y L K K
UniRef90_UPI00036F9117 H H V S P S T M D S L N S L V L F F E D Y P E C L E E Y K Q F R Q K
UniRef90_F2KN71 H V L H P E T V I T Q L K K F V K F V E E D P K W L N H F R E F C R
UniRef90_UPI000375B747 H H L S W D A I D R I G D L V Q Y F F R E K E Q R I D E L R V V Q E K
UniRef90_UPI000479F227 H H L S W D S I D R I G D L V Q F F E E D S R I D A L R D I Q K Q
UniRef90_UPI00041FBE6C H H L S W D A I D R I G D V V Q F F Q E K E E R V E T L K Q I Q R K
UniRef90_K4IPA2 H A V S D K M I D R I D D Y L G H P T A D P
UniRef90_UPI0002625C98 H H L S W N S I D R I G D L V Q Y F K A D K K R V S E L Q T I
UniRef90_UPI0003799C74 H A I S D R L L D R L D T F L G F P S R D P
UniRef90_W9DSZ3 H V L A P E T F E T L T K F V E F M D E W P Y W L D H F N Y Y C E
UniRef90_UPI0002887088 H Y I S K E T S L C L S T L I E F F E E N T A K K E Y L Q F R K
UniRef90_D5WXL7 H H I S P S T M R S L Q S L V L F F Q E Y P E Y Q R A F E R F R R
UniRef90_UPI0004747D10 H H L S W E S I T C I E Y L V Q Y F H M D S Q R S E E L K R I R
UniRef90_D2RG02 H V L H S E T V K Q L K N F V K F I E E C P K W L E H F R E F C R
UniRef90_R6DDJ0 H V I S D A T F Q A L K R H L A S P Q
UniRef90_S2X850 H A V S D D F I S R I D A M L G F P E R D P
UniRef90_F6DJV3 H Y L S L P T L S S I T N F V K F T Q Q Y P A W L N E F K R F C Q Q
UniRef90_UPI0003613740 H A V T D D F L D R I D R L L G H P R F D P P
UniRef90_G4I8J8 H A V S D M M L D R I D A K L G Y P T R D P P
UniRef90_A4QA72 H A A S E T M I E R I D A L L G N P A T D P P
UniRef90_UPI00047654C3 H A V S D Q L L D R V D R A L G Y P T R D P
UniRef90_R7A5D9 H V I S P E S F S A I K K H V A H
UniRef90_UPI0003B671E9 H A V S D T L I D R I D A L L G H P S R D P
UniRef90_UPI00029A0640 H V V S D R F V Q A L D S F L D H H P R R D P P
UniRef90_UPI0003B737D3 H A V S D F M I D R I D S L L E H P T R D P P
UniRef90_UPI00037B61D7 H A V S D L L I S R I E S K L G F P Q R D P P
UniRef90_A0A017RW72 H T I S S E T L A C I E D Y I N F I Q A N P K L K D A Y K L F K
UniRef90_G0EGE3 H G I S D E S F R L I T L F I E F V E N C P G F L R H F R Y Y V E K
UniRef90_W5WRW3 H A V S E T F L E R I D A L M G H P Q R D P P
UniRef90_A0A021VKN6 H A V S D R F V R R V D E V L G R P E Q D P P
UniRef90_UPI00037AEA04 H A V S D F M V E R L D E H L G H P H R D P P
UniRef90_C2CLN9 H A V S D M L I E R V D K F L N F P S R D P P
UniRef90_UPI000299CFD1 H A V S D N L V D R M D E F L G R P I A D P P
UniRef90_UPI00047963F3 H H V S P D T L S R I Q A L V L F F A E R P D Y L S H F Q T Y L A K
UniRef90_UPI000287CC7C H T I G D D T L R Y L R N F V D F I K S N P K L M D N F N I F C N K
UniRef90_UPI0003F743E1 H A V S D F M L D R V D A F L G H P T R D P P
UniRef90_R6N9F8 H V I S D E S F R A I K A H A E K Y K Q D
UniRef90_R6S974 H V I S S E S F S A L K N Y L A D N E N N
UniRef90_UPI00047933A2 H A V S D T F V I S R I D A L L G H P T R D P P
UniRef90_UPI0003B709CE H A V S E T F V E R L A E K L G H P E T D P P
UniRef90_K7S0F7 H V V S D R L V E R I D V A L D H P S R D P P
UniRef90_F9DTT9 H H L S W N A M D R I T D L V E T L E Q D P E F I K K L K R
UniRef90_R7I4R1 H D I S E E S F T A I R K L M Q E R E Q H P E N P Q E
UniRef90_UPI0001E3050C H T V S A S T L Q K I N T F N K F L E Q N P D I F E K Y E Q F S K E
UniRef90_K9ANJ4 H A A S D L L I D R I D E F L G H P A A D P P
UniRef90_UPI00024857AF H A V S D L F I E R I D A A L G F P D R D P P
UniRef90_UPI00047A7E79 H S V S D T F L E R L D R K L G H P V R D P
UniRef90_R7EVU2 H D I S D S T F E A I K K F I
UniRef90_R6PJP4 H D I S D E S F E A I K R H V
UniRef90_W9GLT4 H A I S D L V L D R M D T V L G H P T T D P
UniRef90_A0A031H8L2 H A A S D E L L E R I D Q M L G H P T H D P
UniRef90_C0BWL8 H V I S A E S F S A I K R F
UniRef90_F6EJQ6 H A V S E R L T A R I D A K L G H P K R D P
UniRef90_U1SKF5 H A V S D R L L E R L D R L L G H P S R D P
UniRef90_R6Y611 H V L S K E T F E A I K R H V
UniRef90_R6L113 H V I S Q E T F E A I K R H V N
UniRef90_B9XLJ4 H H L S P E T V I E M L A D L A Q F F E D D P Q M L R M F R Q F R S
UniRef90_B8FKQ2 H G L S P E T L E S F T D F L E F I H V C P G W L D H F E E F R K R
UniRef90_U2MBD9 H V I S S E S F A A I K Q H V Q D N N E I P A K A E
UniRef90_UPI00047E3F9C H H V S P S T L D S L Q S L V L F F D E H P E C L A G F Q A F Q E Q
UniRef90_R6WEV6 H D I S E K S F E A I K N H V K Y M K K
UniRef90_S3YC77 H A V S D L M V I E R I D A A L A H P T R D P

UniRef90_J1AP31
UniRef90_G7M0H2
UniRef90_UPI0003612910
UniRef90_D8GS98
UniRef90_C6LIJ6
UniRef90_B1ZWB2
UniRef90_U3GW01
UniRef90_R6VMD9
UniRef90_N1V1P4
UniRef90_A1RDA2
UniRef90_B1VFK7
UniRef90_A5Z6N0
UniRef90_R7FWT8
UniRef90_A0A023X635
UniRef90_J9HR43
UniRef90_F8A1S0
UniRef90_C5VS72
UniRef90_B0TEL3
UniRef90_D1JG00
UniRef90_R6CD33
UniRef90_D1BEI4
UniRef90_UPI00047CE2FB
UniRef90_UPI00035F5628
UniRef90_Q12XU4
UniRef90_A9KN70
UniRef90_R6IBL7
UniRef90_A0A022LG93
UniRef90_B8GIF5
UniRef90_E4U694
UniRef90_F4BVV9
UniRef90_G7WLR2
UniRef90_A3ZXD1
UniRef90_UPI0003B4AC92
UniRef90_G7MD70
UniRef90_G2SWS0
UniRef90_R7FGI8
UniRef90_I6Y2D6
UniRef90_R6RKN5
UniRef90_E1QL56
UniRef90_H0R215
UniRef90_A9A3L7
UniRef90_D1BV05
UniRef90_D9R0I5
UniRef90_O30276
UniRef90_I0I625
UniRef90_A6P134
UniRef90_C8X4L1
UniRef90_H2JBB8
UniRef90_Q0AWR6
UniRef90_L0HEV7
UniRef90_C2GKF6
UniRef90_R5I589
UniRef90_L7VQ88
UniRef90_R5HBL6
UniRef90_R5EZ18
UniRef90_C4Z6Q6
UniRef90_D4MP80
UniRef90_E4RLL5
UniRef90_I3TEV2
UniRef90_B8D161
UniRef90_R6EFF6
UniRef90_E5XPS2
UniRef90_UPI000370AE57
UniRef90_UPI000413C2B3
UniRef90_X1P3Y5
UniRef90_Q2NH57
UniRef90_R5QEC8
UniRef90_R6XN08
UniRef90_S7TYQ3
UniRef90_UPI000382CDFE
UniRef90_UPI00046625F1
UniRef90_E7G739
UniRef90_R7IWI99
UniRef90_H5Y1R2
UniRef90_A6C9A7
UniRef90_U2GW21
UniRef90_A3CYG1
UniRef90_A5UJP5
UniRef90_S0EZX6
UniRef90_R5V424
UniRef90_R5YVG3
UniRef90_UPI00036A3662
UniRef90_DOMI61
UniRef90_A0LPC5
UniRef90_R5D9E5
UniRef90_UPI00037B24D5
UniRef90_R5MI65
UniRef90_S5TGS3
UniRef90_T0ISY7
UniRef90_UPI0004635F7B
UniRef90_A6LXZ5
UniRef90_SOFLG0

UniRef90_J1AP31 H E L H N E T L E 50 Q V R G L V E Y L E R S P S F K A E F E A F L K
UniRef90_G7M0H2 H V I S N E S F K A I K K Y V N
UniRef90_UPI0003612910 H H I S G N T A F C I S T V V R F F E Q H P E I R K T F H Q Y R
UniRef90_D8GS98 H T V S K G Q T T K C F Q D F L E F I R D N P E V I N S F K A Y K N
UniRef90_C6LIJ6 H V I S D E S F Q A M K N H V R
UniRef90_B1ZWB2 H V I S E D V L D R R L D A L L G H P T T D P
UniRef90_U3GW01 H A V S D T F L D R V D T L L G H P H R D P
UniRef90_R6VMD9 H V I S K E S F E A L K K H V
UniRef90_N1V1P4 H T V S D T F I E R L A N K L G H P E R D P
UniRef90_A1RDA2 H A V S D T F I A R I D E L L G H P Q H D P
UniRef90_B1VFK7 H A V S E K F L A R I D E L M G Y P D R D P
UniRef90_A5Z6N0 H V I S E E S F A A L K E H I K
UniRef90_R7FWT8 H V I S E E S F E A I K K H V K D N Q N N
UniRef90_A0A023X635 H A V S D T F T E R L A E F L G H P E H D P
UniRef90_J9HR43 H H V S P K T L E I S L Q A L V V F F Q E N P D A L A A F L E F Q
UniRef90_F8A1S0 H A V S D V F V E R V A G L L G H P V R D P
UniRef90_C5VS72 H T I N P E T L K C I S N L L N Y F N K N S K A L E S F K Y F S K
UniRef90_B0TEL3 H T V G E K T L V C L T D F V E F L R T R P D I M S D Y E Q F R R E
UniRef90_D1JG00 H E L E T K T V E Q L K N F V R F V Q E Y P Q W L D H F K T F C E
UniRef90_R6CD33 H A I S S T S F D R L K E H I K K Y H Q N
UniRef90_D1BEI4 H A V S D L M V D R I D A R L G H P V R D P
UniRef90_UPI00047CE2FB H T I S D E T L K L K N E L V S F F K S N P H I I A M F H N Y K K
UniRef90_UPI00035F5628 H A I S E K V L E K L D D F L G R P R F D P
UniRef90_Q12XU4 H G L T H E T L D V E T K F I E F I N K K P L W L E H F R Y F
UniRef90_A9KN70 H V I S K T S F E A I K K C L Q
UniRef90_R6IBL7 H I I S D E S F H A I K E H V S A M E K
UniRef90_A0A022LG93 H A V S E R F L D R V D A D L G H P T H D P
UniRef90_B8GIF5 H Q I S D E T I S R L G T Y M A R P G G N P E C
UniRef90_E4U694 H H I S E A F E A R I A E W L G H P E R D P
UniRef90_F4BVV9 H E L H T K T V E Q I K S L V S F I E D H P Q W L D H F A I F C E
UniRef90_G7WLR2 H K L D T K T V E Q I K N L V K F V Q D R P P W L D H F E V F C R
UniRef90_A3ZXD1 H A V S D L L V D R I D E Y L G Y P D T D P
UniRef90_UPI0003B4AC92 H T I S Q E T F S R I K D F V R K F E E S E E K N E S
UniRef90_G7MD70 H T I S K E T A K C F K D F V N F I N D N P N I I D K F K V Y R R
UniRef90_G2SWS0 H D V S A E S F E A I K R H I N
UniRef90_R7FGI8 H V I S A E S F S A I K Q H V
UniRef90_I6Y2D6 H A A S E E L V D R M D E V L G H P D A D P
UniRef90_R6RKN5 H V I S E E S F A A I K D H L K
UniRef90_E1QL56 H A M D D E A M D R L V Q F L G F L R T C P D W L K N F R R F C G R
UniRef90_H0R215 H A V S D R L M A R I D S K L G H P E R D P
UniRef90_A9A3L7 H H L N P K T I K Q L R K F I T F L K A N P K I I E N F K N
UniRef90_D1BV05 H A V S D R L V E R L D D L L G R P A R D P
UniRef90_D9R015 H V I S A E S F A A I K A H V N G P K D
UniRef90_O30276 H V L H P E T L R Q L R N F V R F V E S N P R W L E H F R E F C R
UniRef90_I0I625 H V I S E E F F E R R I D A A L G Y P T R D P
UniRef90_A6P134 H D V S D E T F Q K I K E H I
UniRef90_C8X4L1 H D I D D E T L E R L I A F I K F V Q Q C P D W L Q A F T R F C E
UniRef90_H2JBB8 H V I S Q E T F E K I K E
UniRef90_Q0AWR6 H Y I S P E T I G K I M L L V E F M E N N F E W K Q A F Y E F Q K
UniRef90_L0HEV7 H T L S D E T E C A L C K L L N A P A R C P
UniRef90_C2GKF6 H A V S D R F L E R L D A Q L G Y P T H D P
UniRef90_R5I589 H V I S P E S F A A I K S H L
UniRef90_L7VQ88 H N I G L N T M K N I D M L N M F F E K N P D I L E K F K R F I E
UniRef90_R5HBL6 H V I S D T S F K A I K K H
UniRef90_R5EZ18 H V I S D E S F Q A I K Q Y
UniRef90_C4Z6Q6 H D I S K E S F N A I K K A I
UniRef90_D4MP80 H I I S L E S F E A L K K
UniRef90_E4RL5 H Y L S D K T I E S V I A L V S F F K E N P E R L K E F K Q F K D Q
UniRef90_I3TEV2 H L L H D E T V E R I T E F V K K L S R E
UniRef90_B8D161 H Y I S K E T V H A M T M V V K F F E K N P G I Q K M L T R F Q R E
UniRef90_R6EFF6 H V I S A E T F T A M K K T L K
UniRef90_E5XPS2 H A I S D R F V E R L D A K L G H P A R D P
UniRef90_UPI000370AE57 H A V S T L M V D R M D D Q L G R P W R D P
UniRef90_UPI000413C2B3 H Y I S D E T F D A I K V F M
UniRef90_X1P3Y5 H D V S S E T I T C L L E F I E F V R D N S K W M E
UniRef90_Q2NH57 H T L S D E A E R K L C Q L L G Y P D Q C P D
UniRef90_R5QEC8 H V I S E K S F E A M K N H I
UniRef90_R6XN08 H N I S D E S F Q A M K K F I Q
UniRef90_S7TYQ3 H A M D K V A I N R L V Q F I D Y V H Q C P D W I A N F N T F
UniRef90_UPI000382CDFE H A V S E R L L D R I D D L L G F P D H D P
UniRef90_UPI00046625F1 H A A S D M M I D R I D D M L G H P S T D P
UniRef90_E7G739 H T V S E E T Y Q C I K Q F L K
UniRef90_R7IW99 H V I S K E S F E A I K T H V K Y
UniRef90_H5Y1R2 H Y L S E A T I R S I Q A I V T F L N Q N P E W H K V L L E
UniRef90_A6C9A7 H A V S D F L V D H I D E Y L G F P E T D P
UniRef90_U2GW21 H A A S D R F I N R I D A L L D F P T R D P
UniRef90_A3CYG1 H H V S P E T L E R L R L F L E F L S E S P D C L A A F E E F Q R
UniRef90_A5UJP5 H T L S D E A E R A L C T M L H H P D L G P S
UniRef90_S0EZK6 H H I S E D F E S R I D D L L G H P T T C P
UniRef90_R5V424 H V I S A E S F A A I K K H L H L P K D
UniRef90_R5YVG3 H D I S D E S F A A L K
UniRef90_UPI00036A3662 H H V S A E T L E A F R D F T E
UniRef90_DOMI61 H V I S E R L E A R M A E W L G H P E R D P
UniRef90_A0LPC5 H A I D A V A V D R L V H F L E F L K L C P E W L E G F A L Y L R K
UniRef90_R5D9E5 H D I S D E T F A A I C A H
UniRef90_UPI00037B24D5 H A I S E R L E D R I D E F L G H P S R D P
UniRef90_R5MI65 H V I S D E T F N A V K K L
UniRef90_S5TGS3 H A V S D R F I A R I D A R L G R P A R D P
UniRef90_T0ISY7 H Y L S K S T I V S I Q R F T V F M K E H P A I Y Q R F V D Y V Q E
UniRef90_UPI0004635F7B H V I S K E S F D A L K K H I N
UniRef90_A6LXZ5 H V I S N E S F E A M K K Y V N
UniRef90_S0FGL0 H Y V S L T T L S K I G L F N K F L I N N P E I C R K L S E F I K

UniRef90_R5FXB4
UniRef90_B5JQ79
UniRef90_UPI0003737322
UniRef90_D9QKT5
UniRef90_D1YV11
UniRef90_R6SUN6
UniRef90_R6BGZ4
UniRef90_E1IGH3
UniRef90_B9E696
UniRef90_O58871
UniRef90_R6QK16
UniRef90_C0E620
UniRef90_I4D3X1
UniRef90_R7BEJ9
UniRef90_U6ED32
UniRef90_R8VTB7
UniRef90_N2B4G6
UniRef90_S7TRX7
UniRef90_R7N2R3
UniRef90_L1M914
UniRef90_R7CG02
UniRef90_I5ATB8
UniRef90_UPI00040DA269
UniRef90_R5AUE3
UniRef90_UPI0003B5F226
UniRef90_UPI0004723C1E
UniRef90_B1VEA2
UniRef90_A0A011UZ93
UniRef90_UPI00047B3022
UniRef90_UPI0003B65EC7
UniRef90_R5CM58
UniRef90_B3V6T7
UniRef90_E8QXB4
UniRef90_R5NU77
UniRef90_R6PT22
UniRef90_R9LK58
UniRef90_X0ZJU8
UniRef90_UPI000378599E
UniRef90_I0AGW3
UniRef90_K6TV59
UniRef90_N2BP23
UniRef90_R4KJ12
UniRef90_D4LZC2
UniRef90_R6BW13
UniRef90_UPI0003B45234
UniRef90_K0INA8
UniRef90_K9EU88
UniRef90_I0X9H2
UniRef90_UPI000367977C
UniRef90_R6L9Y1
UniRef90_A9WVP5
UniRef90_Q11MI0
UniRef90_Q2NSQ0
UniRef90_D4JSU0
UniRef90_UPI00036CF50C
UniRef90_U2FHM1
UniRef90_W0JK92
UniRef90_V8FV90
UniRef90_UPI0003B300A0
UniRef90_Q47PC0
UniRef90_D6PD04
UniRef90_R6MBL2
UniRef90_F0YVF1
UniRef90_A6P2R5
UniRef90_R5TSB3
UniRef90_G7WC27
UniRef90_U1R7Y7
UniRef90_B8GBH4
UniRef90_UPI0004753373
UniRef90_R6LS95
UniRef90_X1B6J8
UniRef90_W6N5Z8
UniRef90_S2VTF4
UniRef90_C7MZQ0
UniRef90_R6UPJ4
UniRef90_R1AWP0
UniRef90_R5GCC5
UniRef90_D3T4V4
UniRef90_R6D901
UniRef90_D7UY36
UniRef90_X1L5N0
UniRef90_J0N4T4
UniRef90_I4C4H4
UniRef90_R6CQQ7
UniRef90_C5NYS9
UniRef90_C5ERX7
UniRef90_W3ASG9
UniRef90_R5YXS4
UniRef90_UPI0004789E4E
UniRef90_D4K3J2
UniRef90_C8PRA4
UniRef90_R5ZHY8

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

		50	60	70
UniRef90_R5FXB4	HDI	S A E S F A A I	K E H I K	
UniRef90_B5JQ79	HVI	S D R V L E R I	D L L L G R P E L D P	
UniRef90_UPI0003737322	HIV	S K S T L N V I	T S L V A E L K E N P D L L E R L K R A Q Q	
UniRef90_D9QKT5	HVVS	P E T L S L F E	K M T E R L R K	
UniRef90_D1YV11	HAV	S D S T V S K I	C S F L G H P K F C P D	
UniRef90_R6SUN6	HVI	S A E S F A A I	K K H T G	
UniRef90_R6BGZ4	HVI	S D E T F E A I	K R F V	
UniRef90_E1IGH3	HHI	S E K L E A R I	A A H L G N P D V D P	
UniRef90_B9E696	HNI	T S N A L T R I	E T L N N F F K N N P D I L K K F T Q Y Q K	
UniRef90_O58871	HVY	S E V T V K R I	R E F I T Y I Q E N P Y V L K Q F K K V Q E E	
UniRef90_R6QK16	HVL	S Q Q S F D A I	R N F V	
UniRef90_C0E620	HAV	S D Q F L D R V	D E K L G H P T R D P	
UniRef90_I4D3X1	HYL	S T A T L D A I	K T L V E F M K N N P S C Q Q A F E D F	
UniRef90_R7BEJ9	HII	S S E S F E A I	K R	
UniRef90_U6ED32	HVM	D V E S T I N K L	R K F V E F F T D S C N Y M E K F R E Y A E K	
UniRef90_R8VTB7	HLL	S E E T F A R I	R D H A E	
UniRef90_N2B4G6	HYM	S A E S F N A I	K E Y V	
UniRef90_S7TRX7	HAI	S A D T L D S L	I D F M E F I Q S C P K W I E F F E E F R R	
UniRef90_R7N2R3	HVI	S Q E S F N A I	K K H I	
UniRef90_L1M914	HAI	S D T L L A R I	D A H L G H P T R D P	
UniRef90_R7CG02	HAI	S A E S F A A I	K K S I A G T H E N	
UniRef90_I5ATB8	HDI	S D E T F V A I	M S R F L E	
UniRef90_UPI00040DA269	HVI	S D T T F N A I	K E H M K K L T S	
UniRef90_R5AU3	HDI	S E E T F N A I	C R H A E	
UniRef90_UPI0003B5F226	HDL	S E E T F E K I	K T Y I K	
UniRef90_UPI0004723C1E	HHL	S W D A M D R I	T D L V Q A M N E D K S F V T A L K Q	
UniRef90_B1VEA2	HAV	S D F L V E R L	A D V L G N P A T D P	
UniRef90_A0A011UZ93	HVVS	S D Q T L S A F E	K Y L A F I K S	
UniRef90_UPI00047B3022	HTV	S D T L V D R M S	A R L G H P D R D P	
UniRef90_UPI0003B65EC7	HAC	S D R F L D R L	D N F L D H P A R D P	
UniRef90_R5CM58	HDI	S Q E T F E A I	C R Y	
UniRef90_B3V6T7	HHL	N P K T I R Q L	R K Y I T F L K S N P K I I K Q F H E F	
UniRef90_E8QXB4	HAV	S D R L I E R I	D D Y L G R P G F D P	
UniRef90_R5NU77	HDL	S D E T F Q A L	K N Y I N H M S Q	
UniRef90_R6PT22	HVL	S E E T L T C M K A	H Y E	
UniRef90_R9LK58	HII	S D E T F D G V	K A Y L K	
UniRef90_X0ZJU8	HVI	S K E A M D R M I	K F I K F P E G Y P E W L K N F N Y Y A K	
UniRef90_UPI000378599E	HYL	S D E T A D A L	C R W L E A P S R S P	
UniRef90_I0AGW3	HSS	S D E L V D K L	E E F L N Y P K F D P	
UniRef90_K6TV59	HNI	S S E T L E N I	N M L N L F F M N N S E I L N K F K E F K E	
UniRef90_N2BP23	HDI	S P E S Y E A M K K		
UniRef90_R4KJ2	HYL	S M P T I W A I	E S L V D F F E H N S E C T K Q Y K H F R Q R	
UniRef90_D4LZC2	HVI	S E S F N A I K K H I		
UniRef90_R6BW13	HDI	S D K S F A A I	K K H L R	
UniRef90_UPI0003B45234	HYL	H P E T T D R I	V K F L S F L R G E P G W L R K F K L F L K	
UniRef90_K0INA8	HHL	H P E T L K K L	E E F L R L V K S	
UniRef90_K9EU88	HAV	S E R L I E R L	D G L L G H P D H D P	
UniRef90_I0X9H2	HVI	S E E T F N C I	K K H V E	
UniRef90_UPI000367977C	HDL	S D E S F D K I	K V H L K	
UniRef90_R6L9Y1	HVI	S R E S F N A I	K E Y V R	
UniRef90_A9WVPV5	HAV	S D T F I E R L	S E K L G H P A R D P	
UniRef90_Q11MI0	HVVS	S S E T L D A F	R R F L G	
UniRef90_Q2NSQ0	HVVS	S D E T L Q I F	R R F T D N P E T V N S F R	
UniRef90_D4JSU0	HDI	S S E S F D K L	K K H I K	
UniRef90_UPI00036CF50C	HHI	S E S F E D R I	A E L L N H P T H D P	
UniRef90_U2FHM1	HVI	S N E T L E S L	R K L V L F F E H H D D L L Q R F Y N F	
UniRef90_W0JK92	HYL	S K K T I D H L	L A F M D F I K C K P K W L D H F Y Y F	
UniRef90_V8FV90	HVI	S T N V L Y G M I	D I N F F Y K Y P D L M E K F N R Y R	
UniRef90_UPI0003B300A0	HGL	S D R L L E T I	D A R L G R P S R D P	
UniRef90_Q47PC0	HVV	S D R F V E R I	A E R L G H P T V D P	
UniRef90_D6PD04	HHL	S A D T K E T L	A D L T V F F E Q H P E I L T Q F K A T R	
UniRef90_R6MBL2	HDL	S D I T F Q K I	K E F L S H T N E N	
UniRef90_F0YVF1	HVI	S K E S F D A I	K R H I R	
UniRef90_A6P2R5	HVI	S E K S F A A V	Q A H L E	
UniRef90_R5TSB3	HII	S K E S F E A I	K N H I E	
UniRef90_G7WC27	HYL	S T A T I D A I	K T L V E F M N D N P S W L Q S Y N N Y	
UniRef90_U1R7Y7	HVS	S N R L L E R L	E Q R L G Y P T R D P	
UniRef90_B8GBH4	HAI	S P V M E E R I	M A L V G H A T T C P	
UniRef90_UPI0004753373	HAV	S E R L L D R V	D A A L G R P S R D P	
UniRef90_R6LS95	HDM	S Q Q T F D A L	C A H V K	
UniRef90_X1B6J8	HAV	S P A T Q K K L	A K F I E F P K V Q P Q W L K M F D R Y	
UniRef90_W6N5Z8	HVI	D E Q T I Q C F	N N F I N F V D D N P D I Y L K F K N	
UniRef90_S2VTF4	HAV	S D R F I D K L	D E A L G F P R F D P	
UniRef90_C7MZQ0	HVV	S D L L I E R I	A A K L G N P E R D P	
UniRef90_R6UPJ4	HVI	S A E T F E A I	K R H L R	
UniRef90_R1AWP0	HYL	S I E S T I R C I	E R L V G F F K Q N K S F L N E F K K F	
UniRef90_R5GCC5	HII	S K E S F E A I	K K H V K	
UniRef90_D3T4V4	HNI	S I E T L E K M R	K F N R F L K E N P E I K E K Y Q K	
UniRef90_R6D901	HDI	S Q K T F D A I	C A H A K	
UniRef90_D7UY36	HHL	S W N S I D R I	G D	
UniRef90_X1L5N0	HHI	P D D L L E R A I	H Q R V E	
UniRef90_J0N4T4	HAV	S D R L L E A L	D E A L E H P V R D P	
UniRef90_I4C4H4	HHL	D P E V I E K L	T R F V E F I E M C P	
UniRef90_R6CQQ7	HVI	S V E T F Q K I	K E F I R	
UniRef90_C5NYS9	HVF	G K S S L E K I	K D L M K Y L R E H	
UniRef90_C5ERX7	HVL	S A D T F E A I	K R H I T Q G H E L P E N M	
UniRef90_W3ASG9	HVL	S P E T F A R I	K D F Y L R S H D G V S P E L D A I	
UniRef90_R5YXS4	HVI	S P E S F H A I	K A H L N	
UniRef90_UPI0004789E4E	HVI	S A E S F A A I	K D H V N K D Q N P	
UniRef90_D4K3J2	HDI	S A E T Y E R L	K E L V	
UniRef90_C8PRA4	HAI	S Q D T S D K L	Y A Y L R K L D K A P G P E D K I S K T Q R	
UniRef90_R5ZHY8	HVI	S E E T F Q A I	R R F Y M N K K E D	

		50	60	70
UniRef90_UPI00036728AD	H V I	S E R F E Q K V A E	L L A D P D R D P	
UniRef90_B2A2Y3	H H I	S Y D N F M L S D F L D F	L K D N P E L L R Q F H Q Y K Q	
UniRef90_N1ZHX2	H V I	S E Q T L K C I L K H M D		
UniRef90_UPI000369E99F	H V I	S Q E T F D A I E K Y		
UniRef90_UPI0003B31AA6	H L I	S P S T F K G I K K F M K		
UniRef90_D0VW97	H A V	S A T F V E R L D A A L G H P R H D P		
UniRef90_L1PFF9	H A I	S D R L L N R I D A E R L G H P V R D P		
UniRef90_B8FQ14	H V I	S Q D S F E K M K E		
UniRef90_R6IN55	H V I	S P E T F T G I K K L I K		
UniRef90_E1VUY4	H T V	T D R F V D A L D A R L G Y P R H D P		
UniRef90_A0A021XC93	H H V	S D E T L A V F K A F L D		
UniRef90_V1CM18	H V I	S E E T F Q A I K K H V G K M Y K G K P I K D M F		
UniRef90_E8R861	H V L	H P E T V A K I R E F L E		
UniRef90_V7HTY6	H T V	S E E L I D R L E D F L G H P Q K C P		
UniRef90_Q5V4N3	H H I	S E E F E R R V A A V L D E P E F D P		
UniRef90_C6JDC3	H V V	S E E T V Q Q L C N F V D Y G D T F E R I L K H		
UniRef90_A0A023Y2B2	H H V	S E A T L A A F E A F V R		
UniRef90_UPI0002193198	H A V	S D L F L E R I D A A M G R P A R D P		
UniRef90_UPI0001E2D155	H D I	S D I S F E C M K K H		
UniRef90_UPI0001FFE1FB	H A V	S D R L L D R I D D R L G H P R Y D P		
UniRef90_E8LKJ4	H V I	S D E T M N G I R T Y L K		
UniRef90_U2CQ73	H V T	S S L F E N R L E K Y L G F P K T C P		
UniRef90_W0RQR4	H A A	S D E L T I D R M A A A L G D P A F D P		
UniRef90_F0SX14	H S L	S T S T V T G I K T L A F F A R N P E I N T E Y E A F K K		
UniRef90_W4V2R9	H N L	S V D T L R S I D E L N S F F E E H P E I M R K F E H Y R S		
UniRef90_UPI000463E8C9	H H V	S A E T L G A F R K A M		
UniRef90_D7B7H0	H V V	S D K F V D R I A H H L G D P V V D P		
UniRef90_C6LGU7	H A I	S P K S F E A I K K L M		
UniRef90_E4LZ99	H V I	S E D T F Q K I K N F		
UniRef90_C0DBM9	H L L	S A S T F E A I K Q H I		
UniRef90_F8AK87	H T V	S E D T I D K L Y N F M N K L R K E K E		
UniRef90_C4GCJ9	H Y I	S A D T F K A L K E H		
UniRef90_UPI0004647FDA	H D I	S D E T F A M L K S H Y R K L S E		
UniRef90_M9R5M4	H H V	S E Q S L A A F A K F I E		
UniRef90_R5L470	H D I	S E E S F Q L I K E		
UniRef90_UPI0003B45981	H V I	S V K S F N A L K K H F E		
UniRef90_UPI0003B76482	H D V	S E A T F E R L K D H I		
UniRef90_F4CRE8	H A V	S D T F V D R L A L R L G E P D R D P		
UniRef90_UPI00047C911D	H H A	S D R L I D C I E Q F L A H P R F D P		
UniRef90_F8E0I2	H A V	S D S F L E R I E R K M G F P T R D P		
UniRef90_R5IWA9	H V L	S S Q S F Q A I K K H I T Q G N E L P A D M K E		
UniRef90_UPI0004173A8B	H Y I	S D E S F E A I K T H M		
UniRef90_U2JT90	H V I	S D E T F E A L K R H		
UniRef90_E9SI18	H L L	S D E T F A A I K K Y I		
UniRef90_R5L713	H D I	S D D T F N K L K N		
UniRef90_B0P6E6	H D I	S E E T F K K L K E H I N		
UniRef90_UPI000237B2CC	H A V	S D E L V A H I A A K L G N P T R D P		
UniRef90_C0EGA1	H V I	S E E V F E K M K Q H L E		
UniRef90_UPI000310447C	H D L	S D E T F A K I K E H F L R E		
UniRef90_A5G1Y6	H H V	S D I A L N A F S R Y L K		
UniRef90_C0W2V8	H A C	S Q R L L E A L D R A L D H P V R D P		
UniRef90_E0RR10	H A I	S E E L L E R L V Q Y L E F I Q E C		
UniRef90_Z9JPJ8	H S I	S D R L L A R M D A D L G H P R T D P		
UniRef90_I4BWN7	H Y I	S P S C L D R F V A F I E F L H T C P K F L E H F R Q F		
UniRef90_UPI000476E0DE	H V I	S E E F E E R M S E A L G H P T T D P		
UniRef90_R6RD46	H D M	S S E T F Q A L K K H I		
UniRef90_UPI0003B568A4	H S I	S P K T F E R L T K F I Q F V H D K P V W L K S F E H Y Y K		
UniRef90_E3GXG2	H N L	P D E V E R L K C Q F L K F P T C C P		
UniRef90_A0A010ZL63	H I I	S Q E T F E K I K E Y L		
UniRef90_MOA206	H H L	S D R L A T Q L W K F I G K P T V D P		
UniRef90_UPI00041B913C	H H V	S A E T V A A F A R F V E		
UniRef90_G6A1P5	H H V	S E T T L Q R F A D F V		
UniRef90_M0D9F0	H H V	S E E F T R R V E R L L D Y P A A D P		
UniRef90_UPI0004039D0D	H I I	S A D T F K G I K R F L K E H K D E		
UniRef90_G4KZH7	H D L	N D E T F A R I T E F V E		
UniRef90_UPI0003F5042F	H L H	S E D L I N K L D K F L G F P K A D P		
UniRef90_K1TRB7	H A I	S Q D T F E K I R D		
UniRef90_D4LFV6	H I V	S D E S F D R L K E A V E		
UniRef90_F6DMN4	H S L	T S T V S Q L N N L H F F A Q N P N I C K E Y E L F K K		
UniRef90_Q5JFE6	H Y V	S E I T V K R M R E F A E F I E Q C P Y V L K Q F L K		
UniRef90_A0A056XU53	H A V	S D R L M A R I D A K L G F P		
UniRef90_E1RFC2	H E L	N P R S L E Q I Q F L N F V D E R A D R S H T F A D F		
UniRef90_R6TQ12	H D I	S E E T F H A L I N H I K		
UniRef90_B5ZHZ7	H Y V	G A E T L A A F Q R A I D		
UniRef90_G9RSX4	H V I	S A E S F E K		
UniRef90_L9WRJ1	H H V	S D E F T R R L A A F L G E P A T D P		
UniRef90_D5RZS1	H V I	S K E T F E G I K K Y L D		
UniRef90_V9HIK2	H V L	N K E T F E R I I N F I E V V E K Y P D I K E K L D D		
UniRef90_R6N6T0	H D I	S D E T F A V L K K		
UniRef90_R6XKH7	H D L	S D E T F E A I K K H V		
UniRef90_X1EE71	H G L	S D E A A A L C K A L D K P E T C P D		
UniRef90_D6DUX3	H H V	S E E T L L K F R E F		
UniRef90_UPI00047A2714	H T I	N N E T L C A I K N L V N F L S S D S V I L N N Y M D F S A K		
UniRef90_K1SDD4	H V I	S D E S F Q K L K K		
UniRef90_R9ITD3	H A V	S N E S Y Q A L K A L V		
UniRef90_UPI0001E2F084	H A V	S S Q T M D R L T E F L		
UniRef90_U2DUR7	H A V	S S E S F Q K L K K		
UniRef90_R6J2C7	H V I	S A E S F D A L K R		
UniRef90_X1G5U0	H T V	S P L V L I E K L V I E L V E S F S Q R E K K P E K L K		
UniRef90_UPI0003761222	H L Q	S D K L T E R L D K F L N Y P D Y D P		
UniRef90_UPI00037F1619	H T I	N V E T L M K I E E L I N F F R N N E D V L S R L K S Y Q E E		
UniRef90_E7GTI7	H V V	S S E S F A A I K K H V		

UniRef90_D3F5N8
UniRef90_W2BVM6
UniRef90_A9AVR3
UniRef90_UPI0004631908
UniRef90_UPI000420A2B5
UniRef90_UPI0003B6A2FC
UniRef90_UPI00036DD217
UniRef90_G8QRU0
UniRef90_C0VYL5
UniRef90_H0JD46
UniRef90_E8RD45
UniRef90_G2KPY7
UniRef90_R6HR18
UniRef90_M0CV04
UniRef90_S5ZX15
UniRef90_UPI00037BC25A
UniRef90_U2Q744
UniRef90_J7ITX6
UniRef90_UPI00047478D2
UniRef90_V2YHZ0
UniRef90_UPI0004706143
UniRef90_UPI0003B49456
UniRef90_D4JD19
UniRef90_F0KDL2
UniRef90_B3DUS8
UniRef90_UPI00045E96A8
UniRef90_I7LJ11
UniRef90_UPI0003B2F6DF
UniRef90_M1YQK9
UniRef90_UPI00047BE46D
UniRef90_W2EQJ6
UniRef90_R6MT04
UniRef90_J2ZZG8
UniRef90_C9RRT3
UniRef90_K2CRU6
UniRef90_R6QID7
UniRef90_D4K031
UniRef90_N6X537
UniRef90_UPI0003B38EE9
UniRef90_G9RYE4
UniRef90_D5RLU6
UniRef90_R5REG5
UniRef90_UPI00036EBC08
UniRef90_F8I628
UniRef90_Q26316
UniRef90_N6V4X5
UniRef90_F7SCB7
UniRef90_X1U080
UniRef90_L0ADY0
UniRef90_X0SGH7
UniRef90_UPI0003744840
UniRef90_F3AU99
UniRef90_UPI0002260477
UniRef90_F0RM01
UniRef90_A6TNQ2
UniRef90_I0K397
UniRef90_U4P5E9
UniRef90_UPI0003B78517
UniRef90_B2I7M2
UniRef90_Q6AIY5
UniRef90_U5FBG1
UniRef90_R7G902
UniRef90_R7AQ70
UniRef90_K1YMB6
UniRef90_R8W5T0
UniRef90_R4YW68
UniRef90_UPI0003B689B7
UniRef90_C7M575
UniRef90_A6NVF1
UniRef90_I4D424
UniRef90_UPI0003B71783
UniRef90_X8K440
UniRef90_J9HPN9
UniRef90_C9RGA4
UniRef90_A6NST2
UniRef90_UPI00037A9990
UniRef90_R6SQL0
UniRef90_F2NEN4
UniRef90_R7H4E5
UniRef90_W0F3R2
UniRef90_I0QVLO
UniRef90_UPI000479467C
UniRef90_UPI00035E1BE3
UniRef90_A6M0T7
UniRef90_J2IRF3
UniRef90_X1AZ01
UniRef90_C7ML27
UniRef90_X1T071
UniRef90_C7JIE5
UniRef90_E8T240
UniRef90_S6C724
UniRef90_UPI00047EEA0E

UniRef90_D3F5N8 H H I S E E L E E 50 L I A A K L G N P T H D P
UniRef90_W2BVM6 H A V S S D F L T E K M D E K L G H P T R D P
UniRef90_A9AVR3 H V L S S E A L E E R I A E Y L G H P Q F D P
UniRef90_UPI0004631908 H L I S D E V F D G I K K F L N
UniRef90_UPI000420A2B5 H H V S S A E T L A A F E R L V
UniRef90_UPI0003B6A2FC H I T S S Q Q L I D R L D Q F M G Y P K H D P
UniRef90_UPI00036DD217 H V L G E E T V R Q I E R L L K N P K T D P
UniRef90_G8QRU0 H D I S S E T M E K L A S F M R
UniRef90_C0VYL5 H V M S D A V E E R I G K L L D N V E R D P
UniRef90_H0JD46 H H V S S E A T L E V F R R F I
UniRef90_E8RD45 H T A P P Q I I N R M V E F I K F L D I C P D L I S G F A N Y C R E
UniRef90_G2KPY7 H H I S S A E T L D I F R R F
UniRef90_R6HRI8 H V I S P E T F E G I K K H L
UniRef90_M0CV04 H Y I S S E K L E A R I A A L L G F P T V D P
UniRef90_S5ZXI5 H A A S D E L I D I D L Y L G N P E R D P
UniRef90_UPI00037BC25A H V L S S E S V E R K I L D L L N H P T E S P
UniRef90_U2Q744 H T I S N D V L S G I C K L L D F F E S N P S L K E E L S K
UniRef90_J7ITX6 H S V S P S T L S L L N A L L A F F Q S N S C I L Q S Y E D Y K K
UniRef90_UPI00047478D2 H S S S D H M I D A L D A F L D H P G H C P
UniRef90_V2YHZ0 H D L S D E S F E K I K A H
UniRef90_UPI0004706143 H H V S S D E T L E I F R A F
UniRef90_UPI0003B49456 H V M S E Q V E D K I R Q M L G D P T E S P
UniRef90_D4JDI9 H N I S S D E S F S R L K E
UniRef90_F0KDL2 H T I N A E I L C G M N D L V D F F A A Y P D F F K K F N E F R K
UniRef90_B3DUS8 H V I S E Q F E E A I A K L L G H P L R D P
UniRef90_UPI00045E96A8 H L V S P E T F S K I K E
UniRef90_I7LJ11 H G I S D E T I D R L S S Y M D G A Q P P P G R L
UniRef90_UPI0003B2F6DF H V M S D Q V E Q R L I G L L D H P Q H D P
UniRef90_M1YQK9 H S V S I N T L Q N I H I L N K F L F D N P D I M E R F E I Y K
UniRef90_UPI00047BE46D H H V S E Q T I S A I K K F L
UniRef90_W2EQJ6 H V M S E S V E S R L V N L L D N P R F C P
UniRef90_R6MT04 H D I S E E S F M A L K K L
UniRef90_J2ZZG8 H T V S D I F I E R L D K L L D Y P K V C P
UniRef90_C9RRT3 H I L S A E T L S T I E D F M K
UniRef90_K2CRU6 H V I S E E M E E R I A N S L G N P I V D P
UniRef90_R6QID7 H V L S A Q T F Q G I K M F L N
UniRef90_D4K031 H I L S E Q T L K K I R E Y
UniRef90_N6X537 H V M S D T V E E R L V I S L L E D P K T D P
UniRef90_UPI0003B38EE9 H L I S P E T F R G I K K F V K D H K E E
UniRef90_G9RYE4 H D L S E E T F E K L L L H A Q K N S E D P
UniRef90_D5RLU6 H H V S D A T L A A F E K F L G
UniRef90_R5REG5 H G I S D D S F E K L K T L L D F
UniRef90_UPI00036EBC08 H H I S W N T L E L R S L V H D L E E
UniRef90_F8I628 H H F S V E S L E P I R A L V D Y I E A H P G W W N E F R Q T Q
UniRef90_O26316 H S L S D D A E R A L C H L L N M P G E C P D
UniRef90_N6V4X5 H H V S E K T L E A F E R F L K
UniRef90_F7SCB7 H Y V S D V T M Q A F T K F I Q
UniRef90_X1U080 H A M D K S S I D M L V R F I E F I D T C P D W V Q A F V D Y C S
UniRef90_L0ADY0 H H V S D E L A R R L S A F L G D P A T D
UniRef90_X0SGH7 H T L G P E I I E R L L C F I E F V T Q S S D L A D E F Q K F C N K
UniRef90_UPI0003744840 H M L S E E T F N G I R A F W E K H Q E
UniRef90_F3AU99 H V I S E T S F A R L K E
UniRef90_UPI0002260477 H Y V G D E T L A A F K R A I D
UniRef90_F0RM01 H A L S E R L E A R I A A W L G E P S F D P
UniRef90_A6TNQ2 H F L S W S N Y Q I L A A F L Q Y L K E N Q D F I E N F A Q Y R N R
UniRef90_I0K397 H V R S D E L V A R L D T F L G N P Q F D P
UniRef90_U4P5E9 H V I S G E T V E N I K M L N M F L E N N S D V L K K Y N K F K
UniRef90_UPI0003B78517 H G I S E V T L D R L R H F
UniRef90_B2I7M2 H H V S E T T L A A F R T F L Q
UniRef90_Q6AIY5 H A A P P E V I E K M V N F I E F M Q V C P E L I R G F A Q F C Q
UniRef90_U5FBG1 H V I S E E T F Q K L M D F
UniRef90_R7G902 H V I S E D T F Q K I A N F
UniRef90_R7AQ70 H A V S K T T F N A L K S F V Q
UniRef90_K1YMB6 H A A P P E I I S R M I S F T K F M Q I C P D M I K G F G E F C R R
UniRef90_R8W5T0 H V V S D E L I E R L E A L L
UniRef90_R4YW68 H V I S T P V E E A L A E L L G D P T T C P
UniRef90_UPI0003B689B7 H V I S Q E T F D A I Q N Y Y E
UniRef90_C7M575 H I Q S E K L I E R L D A F L D F P K K D P
UniRef90_A6NVF1 H V I S K E T F E R L K A
UniRef90_I4D424 H Y L S T A T I E A I K T L V E F I K S N S T W Q L A F I N F M E
UniRef90_UPI0003B71783 H V I S D E T F Q A I K K Y Y E F H E
UniRef90_X8K440 H A L S K E S F E I K E H A K N E H P D I Y E A
UniRef90_J9HPN9 G S V S P L V E D R L N E L L N H P A T C P
UniRef90_C9RGA4 H A L S D E I L K R L K E F M E N F N K N
UniRef90_A6NST2 H A I S D E S F R A L K S L T Q
UniRef90_UPI00037A9990 H H V S D E T L A A F E R F L
UniRef90_R6SQL0 H G L S D D S F D K I K R
UniRef90_F2NEN4 H A M P R V I V D R L I L F S E F L E V C P K W I R G F Q H F C
UniRef90_R7H4E5 H V V S D E T V Q Q I C N F V N Y
UniRef90_W0F3R2 H I K S P K L V D Q L E K F L G F P E I D P
UniRef90_I0QVL0 H H V S D E T L E A F K R F T E
UniRef90_UPI000479467C H V V C D E T I N K I K E F M K
UniRef90_UPI00035E1BE3 H A T S D N L V Q H L D D F L G H P K R C P
UniRef90_A6M0T7 H L I S S E T I N N I D M L N M F F A E N I D V L E R Y R N F K K R
UniRef90_J2IRF3 H H V S P E T L E A M K R F
UniRef90_X1AZ01 H T T S D L V A D R L D A F L K H P S V N P
UniRef90_C7ML27 H Y I S D E T F K C L K
UniRef90_X1T071 H V L D A K T M K R L L K F L E F I E T C P E
UniRef90_C7JIE5 H Y V G A E T L K A F Q
UniRef90_E8T240 H H L S S E T V E R I E K L T E Y L K E
UniRef90_S6C724 H A I S D A S F E K W G A F V R S L D
UniRef90_UPI00047EEA0E H I D S E E I V I E K L D E F L A Y P K F D P

UniRef90_K1M167 1 P S G L E I A R K V I R K H R L W E V F L E C L Q Y Q W D E V H D E A E L E 40
UniRef90_R9KFS0 T V E G R K V I A E K I Y E R H H C F F T Q W L I E A G I D P E T A E Q D A A C R M E E
UniRef90_A3U5H7 T D S G R D L A V S G L V R K H R L W E T R F L K Y L N F T W D E V H D V A A C R Q L E
UniRef90_M3VBH9 T P A G R S L A V S V M R K H R L W E R L L V V I G M P W E E V H D A A C R W E
UniRef90_K1SHM8 P P G L E I A T R I Y G R H K K L T R F F V A L G V D D P A V A S H D A A C C K I E
UniRef90_UPI0002D2CDE4 T A L G Q E V A E K I Y E R H S F F E M E S Q L V A A G V D D L E T A E Q E A C C R I E
UniRef90_U6EVQ5 T K K G E D I L G G F L L K R H S L F I E S F L K N I G V V K K D L L I N I E L I E
UniRef90_T4VIB5 D L G E D M G K K F L E R H N T I Y K F L K L I G L D E Y L H E E T E K I E
UniRef90_X1PQ84 T S N G N L I A R K I L Y N R H E N I K V F E F E L L G N I D D S E I I A E E D A A C C K I E
UniRef90_R6Y575 E K G N K I A E N L I H R H L L T N L F I K I G V D D E K I A Q Q D A A C C K I E
UniRef90_UPI00045E5A35 T P E G K K L A L Q T V R K H R L W E V F L E K L N F A W D E V H E V A E E L E
UniRef90_C7R0G3 T D L G Q A K A T R V M R K H R L W E R L L R V I G L E S A E F V H D E A A C C R W E
UniRef90_M5S2P9 T T A G K R L A T Q S R Q R H E I V A E S F L R R M G V S A A T A A A D S E G L E
UniRef90_W6TPP5 T E S G K N A A I N I V R R H R L W E V F L E K L N F K W D E V H D I A E E G L E
UniRef90_E8LD54 T K D G Q K K A A A V Y D H R H V T L T R F L E L L G V D D E K I A E K D A A C C R I E
UniRef90_R6MR16 T E K G F E L G E A V Y H R H T M I K K F L V V L H I P D E D D A E K E A A C C Q I E
UniRef90_Y5PCE1 E E G L S H T L D I I K R H R L L E Q F L E V L N Y N W E E V H Q E A E L E
UniRef90_H1HTE9 T E E G E A I A S R L Y D N R H N T I E F L Y L I G V P S D I I A E R D A A C C K I E
UniRef90_T0E398 G E E I L G S K R H N I L E F L Y L I G V I N Q I H E E T E K I E
UniRef90_A6EA73 T E L G R A K G I A L L R K H R L W E T F L E K L D F S W D E V H E V A E Q L E
UniRef90_UPI000466B643 T E A G R T L A Q E C R R R H E I V L T R F L L R L G L D D P E T A E R D A A C C R I E
UniRef90_R5LVK1 E S G R K R L A E T I Y E R H H L L T L K L L T F L G V S P E T A A E D A A C R M E
UniRef90_H8KRP2 T K K G E I A V Q I T R K H R L W E C F L V N L N F K W D E V H D I A E E L E
UniRef90_F6D524 T E N G L K L A K K I T R K H R L L E R F L D L L K L K K N N L H D Q A A C C E M E
UniRef90_Q2FNN9 P E G R L Q G E A I H I R H E T L R Q F F E F I G V S P D I L A N K E A A C C I E
UniRef90_H0E7E2 T D E G L S V A E N V V S R H R L V E R F L T V L G L P W H E V H E E A E R M E
UniRef90_D1CCH3 T T Q G Q R V A L E I R H H L L I E L Y L K M L G Y G W S E V H E E A E K L E
UniRef90_B2KCF9 T P K G V K A A D E V K Q R H V L E T Q F L T I L G V S Q S A A D D A A C C K M E
UniRef90_D6TIH4 T E A G Y E A A E A V L R R H R L T E R F L V M L G M Q W H Q V H E E A A C R L E
UniRef90_R6QQ24 T D K G R T V A R E T Y E R H Q T F Q S L L E D L G V D D G K T A A E D A A C C Q M E
UniRef90_A2TQ95 T E K G Q K A A L G V V R K H R I W E V F L E T L D F W D E V H H D I A E Q L E
UniRef90_UPI0003AA9A4E T E E G E K I A L W I V R K H R L W E V F L E K L K F N W D E V H E V A E Q L E
UniRef90_E3I8C5 T A L G K N L A S E A R E R H R L V E A F L L A L G I I P E A T A R D D A A C C R I E
UniRef90_Q3IN51 T P T G E A V A D R L V R K H R L L E T F L E Q L D L P E A V A H D E A D R L E
UniRef90_UPI00037E0FC0 T N E G R Q V A E R A I E K H A L L K R F F E A L G V S D T Q A D A D A E G A E
UniRef90_D6ZEQ5 T D K G R V L A V A V M R K H R L A E R L L V V I G L K W E H A H A E A C R W E
UniRef90_UPI0003A3A4C8 T A K G R G R A I A V M R K H R L A E R L L V I G M D W E D V H A E A A C R W E
UniRef90_F9HJA4 T D L G L K L V S D L Y R K H R L I E V F L V H L G Y T T E E I H H E A E V L E
UniRef90_UPI0001744767 T A E G R R V G Q A I A K R H R L D V L T R L L A G F G L D A E T V H H D V E G M E
UniRef90_I3C397 T E E G K A Y A A K I I R K H R L W E F F L E K L N F S W D E V H H D I A E E L E
UniRef90_R7GJN2 T D A G A K I A N M I F E R H T E L R N I L I H I G V S E S T A S Q D A A C R L E
UniRef90_I9M9A6 T D K G K K T G N F L I E R N K Q T I K K F L E L I C A D C D I A A E E A M E
UniRef90_N6W0A6 T K E G E E I A K K I I E K K Q T I K T I L I L G L N E E E A D E E A C C K L E
UniRef90_UPI0002E19B43 T V T G R E L A V A V L R K H R L A E R L L D V I G L E W E L V H E E A A C C R W E
UniRef90_H7EIP3 T E Q G Q K V A E D I Y G R H K L L T A F L Q K I G V P E D Q A E E N A C R V E
UniRef90_UPI000347AC39 T G E G R R L A T H V I M R K H R L A E R L L V V I G L P W E D V H I E A C C R W E
UniRef90_M2X576 P E G H A Q A V A I A R K H R L A E R L L T V I G L P P L L A H H D E A A C R L E
UniRef90_UPI000378C444 T P S G W R V A A M I V R N H R L W E L Y L T L M N Y E S D H V H D D A E K I E
UniRef90_UPI000424BA91 T E N G T L T A K M I V R K H R L W E V F L E K L N F T W D E V H H E I A E E L E
UniRef90_UPI00047E0880 T D L G K K T A A N I V R K H R L W E V F L Q K L N F S W D E V H E V A E Q L E
UniRef90_UPI0004672F8E T D A G K K V A E K I Y E R H L T F T E K L L A I G V S R K T A E Q D A A C C R I E
UniRef90_U2VLC1 P Q G L E Y G R D I W R H R L T R T F L E Q L G V D H E T A N A E A C C L M E
UniRef90_R7B317 T P E G Y E Y G S A V L K R H H E M L T K F L V I V G L D P K V A E K E A C C Q M E
UniRef90_X1KDB7 P E G E S V A E G V V H R H E A L S C F F E A L D I L D Q E T A E E D A A C C K I E
UniRef90_UPI00047935AA T A E G S S L A T Y L V R H N T V K A F L V L I E A T D Q L Q K N V E M L E
UniRef90_F5T8V8 T E Q G L V I A Q S T Y E K H T V L T D V L V A L G V N A Y T A S Q D A A C C R M E
UniRef90_B1C0L9 T K E G I K V A K F I C N K H Q T I K K F V E V L N I D E T I A D K D A C L I E
UniRef90_K7YPU7 T D N G R V L A K T C K E R K Q M V C N F L I A I G V D R D I A E A D A E G I E
UniRef90_Q8T119 T E K G A E E A V I I K R K H Q V L E T F L D V L D F D R K E A H R E A C C E L E
UniRef90_R5JFC2 T E K G E A I A R R M L D K H H T F Y K L F V H M G I D D V V A E H E A C C Q V E
UniRef90_G0J3G5 T A K G K K M A M I J R K H R L T E M Y L E K M G F G W E V H E I A E Q L E
UniRef90_E9CJX5 T E E G E R L A H K V R R R H R I V V D L L V C L G V P T K T A E L D S E G I E
UniRef90_UPI0004772F06 T T M G R E K A L R V L S R H R I A E S L L N V I G L D L A I V H D E A A C R W E
UniRef90_B8FXZ3 T E K G K E T G T Y L L S R H H D T V E S F L R L I G N M N P L H E E T E L I E
UniRef90_G2SQT7 T K K G T E I A E N L I R R H R L W E T F L V K L N Y K L Q D V H N D A E L I E
UniRef90_UPI0004745EB8 T E E G Q K V A E T S R A R H D I V L H F L R A L G V E D S T A R L D A E G M E
UniRef90_UPI000423672F T K G L H A A K M I V R K H R L W E V F L E K L D F T W D E V H H D A E E L E
UniRef90_G9Z5B7 P E G E K L A Q A S R E R H Q I V E T F L L T I G V S P E N A R R D A E G V E
UniRef90_C7NTK4 T E H G R R I A E A T V R H R L L E A Y L E H L D Y E W G E V H D E A E R L E
UniRef90_J1L0T4 E G K R I A E A V L R K H R V L E C M L G M D T G A S K E A C V L E
UniRef90_T3D0L0 T Q S G L K I A K K I Y R K H V F L A K I L K H I G V D E E T A E K E A C C K I E
UniRef90_C2FU0 T A P G K K E A T E I L R K H R L T E M F L R M M G F G W E E V H E I A E Q I E
UniRef90_D4W6T0 T S G H Q K A T E I F E R H H L K E F L M M L N I D E D L A D K D A A C C R I E
UniRef90_V6Q4A6 T D L G L Q H A S R L V R K H R L W E V F L E H L G Y S W N D V H A E A V L E
UniRef90_I1A244 T E E G R A L A K E C R H R H E I V L R F L L S L G L D P E T A E R D A A C C R I E
UniRef90_UPI0003613F4F T E K G M R L V S K L Y R K H R L E I V L F L K N L S Y S F K E V H E E A E L E
UniRef90_K7RUX8 P E G H E M A V N V M R K H R L A E C L L Q V I G L D R A L V H D E A A C R W E
UniRef90_C5EVX1 T V A G R E I A E T I F E R H H Q F F T N Q L I D A G I D P A I A E E A A C C R L E
UniRef90_V5WEI9 T K Q G L A L A E D V R L R H D S I K A F L C S L N L D P A L A E K D A A C R M E
UniRef90_J0KZ48 T K E G I K V A E G L V R R H R L W E T F L V A L G Y K L Q D V H T D A E V L E
UniRef90_D6E8A3 T E E G S R Y G R T V L D R H R M L F F F Q A L G I P E D R A D K E A C C L M E
UniRef90_S5XWN1 T E T G A L A E R V R K H R I V V A L L I S L G V P E L I A E L D A E G I E
UniRef90_C7N7Y2 T E E G L A Y G R A V W H K K L L F R F L E T I G I D P E T A N Y E A C C Q M E
UniRef90_C6WAE9 T E Q G R N L A V S V M R K H R L A E R L L V I G L E W E H V H S E A C R W E
UniRef90_A0A011ABE1 T D E G R I T G E Y L E R H N T L E R F F T M L K S P R P L H E E A E L V E
UniRef90_UPI0004641A35 T A L G R Q T A V R V M R K H R L A E R L L T V I K L D W E Q V H T E A C R W E
UniRef90_UPI0004183510 T E S G R E A E Q V V R K H R L L E R W L T E L G L D W A D A H V I A G R L E
UniRef90_A6NYV1 D V G R E V A E R T Y E H H C F F T E M L I E A G V D Q E T A E A D A C R M E
UniRef90_R9LY28 T E I G R E T A E K I Y A R H H C F F A Q W L T G A G I D P E T A E R D A A C R M E
UniRef90_UPI000377D8B9 T D G G K L L A L R M V R A H R L W E T Y L Q E V G L T P E Q L H D E A E R L E
UniRef90_A0A011B186 T P E G L Q V A L S L V R G H R L W E V F L R H L G Y S W S E A H D E A E L E
UniRef90_G5GEW3 T E K G R T A A R T L L T K H R L W E L F L E H L G Y S W Q E V H A D A E V L E

UniRef90_K1M167 H[V]I[S]S[D]K[L]I[D]R[L]D[Q]F[L]K[Y]P[S]H[D]P 50 60 70
UniRef90_R9KFS0 H[T]I[S]S[Q]K[S]F[E]H[I]R[D]
UniRef90_A3U5H7 H[V]K[S]P[K]L[I]N[E]L[D]R[F]M[D]F[P]K[K]D[P]
UniRef90_M3VBH9 H[V]M[S]E[N]V[E]R[R]L[L]A[V]L[D]N[P]T[T]S[P]
UniRef90_K1SHM8 H[D]L[S]S[A]E[T]F[E]K[L]V[A]F[A]E
UniRef90_UPI0002D2CDE4 H[A]I[S]S[D]T[S]F[R]K[L]K[E]K[V]Q
UniRef90_U6EVQ5 H[S]V[T]E[E]A[L]E[K]I[D]L[F]N[K]F[L]K[E]N[K]D[I]K[E]K[F]E[N]F[L]K
UniRef90_T4VIB5 H[T]I[S]L[E]T[L]V[K]I[N]N[L]I[D]F[F]Q[E]N[K]E[V]L[E]M[L]K[A]Y[Q]
UniRef90_X1PQ84 H[S]I[S]S[E]Y[T]F[N]R[V]L[S]F[L]N[F]L[N]E[Y]P[E]L[N]K[S]F[K]L[F]L[E]
UniRef90_R6Y575 H[D]L[S]S[K]E[T]F[A]A[I]E[K]L[V]E[N]L
UniRef90_UPI00045E5A35 H[T]Q[S]P[L]L[I]Q[R]L[D]A[Y]L[N]Y[P]K[F]D[P]
UniRef90_C7R0G3 H[V]M[S]E[R]V[E]E[R]L[V]Q[L]L[N]S[P]R[Y]S[P]
UniRef90_M5S2P9 H[H]V[S]K[E]T[L]A[A]M[K]R[V]L
UniRef90_W6TPP5 H[T]K[S]P[E]L[I]E[R]L[D]E[F]L[A]F[P]R[N]D[P]
UniRef90_E8LD54 H[L]I[S]S[P]E[T]F[A]G[L]K[G]M[L]K
UniRef90_R6MR16 H[N]I[S]Q[N]T[V]E[K]M[K]S[F]M[E]
UniRef90_Y5PCE1 H[K]I[S]D[L]F[L]E[R]I[D]K[L]L[N]Y[P]E[T]C[P]
UniRef90_H1HTE9 H[D]L[S]P[E]S[F]A[L]K[E]
UniRef90_T0E398 H[T]I[S]V[E]T[L]V[K]I[N]R[L]I[N]F[L]K[N]N[K]D[V]L[E]G[L]N[T]H[R]
UniRef90_A6EA73 H[T]Q[S]P[K]L[V]N[K]L[E]E[F]L[D]F[P]E[F]D[P]
UniRef90_UPI000466B643 H[H]V[S]E[Q]T[L]A[L]F[E]S[Y]A[N]R[P]
UniRef90_R5LVK1 H[V]I[S]P[E]S[F]E[A]I[K]A[F]
UniRef90_H8KRP2 H[L]N[S]D[K]L[I]N[R]L[D]E[Y]L[G]F[P]K[Y]D[P]
UniRef90_F6D524 H[S]L[S]D[E]A[E]V[A]L[C]Q[V]L[E]H[P]D[K]C[P]D
UniRef90_Q2FNN9 H[E]L[S]P[V]T[T]S[A]I[G]N[R]I[H]F[L]
UniRef90_H0E7E2 H[A]M[S]P[A]I[E]Q[G]M[R]E[A]I[G]D[A]T[T]C[P]
UniRef90_D1CCH3 H[Y]I[S]E[Q]M[E]E[R]M[F]A[L]G[K]P[E]T[D]P
UniRef90_B2KCF9 H[V]I[S]K[E]T[F]D[K]L[T]N[F]
UniRef90_D6TIH4 H[F]I[S]G[A]V[E]S[R]V[I]A[S]L[D]L[P]Q[T]C[P]
UniRef90_R6QQ24 H[A]V[S]P[K]S[Y]E[A]L[R]R[W]T[N]
UniRef90_A2TQ95 H[I]K[S]Q[E]L[I]N[R]L[D]K[F]L[D]Y[P]D[Y]D[P]
UniRef90_UPI0003AA9A4E H[L]K[S]K[R]M[I]D[Q]L[E]D[F]L[G]F[P]K[F]D[P]
UniRef90_E3I8C5 H[H]V[S]D[E]T[L]E[V]F[R]E[F]
UniRef90_Q3IN51 H[H]V[S]D[G]V[T]D[R]L[A]E[L]L[G]
UniRef90_UPI00037E0FC0 H[H]L[S]E[E]T[L]E[A]I[R]R[F]L[E]
UniRef90_D6ZEQ5 H[V]M[S]D[E]V[E]R[R]L[V]E[V]L[G]H[P]V[S]S[P]
UniRef90_UPI0003A3A4C8 H[V]M[S]E[V]E[R]K[L]V[E]V[L]N[H]P[T]T[S]P
UniRef90_F9HJA4 H[T]V[S]D[H]F[V]E[Q]L[E]K[L]L[H]F[P]K[N]C[P]
UniRef90_UPI0001744767 H[H]I[S]K[S]T[L]K[V]L[T]L[L]E[E]L[E]G[N]T[E]L[M]R[R]L[K]E
UniRef90_I3C397 H[L]K[S]D[K]L[I]E[K]L[D]T[F]L[D]Y[P]R[I]D[P]
UniRef90_R7GJN2 H[Y]I[S]P[E]T[F]E[A]L[K]A[Y]
UniRef90_I9M9A6 H[Y]L[S]K[E]T[I]K[S]I[Q]L[L]V[K]F[M]Q[D]H[T]E[Y]Y[N]I[F]L[E]
UniRef90_N6W0A6 H[V]V[S]D[K]V[L]D[R]L[K]M[F]I[E]D[Y]K[K]
UniRef90_UPI0002E19B43 H[V]M[S]D[Q]V[E]R[R]L[L]A[L]L[E]N[P]T[E]T[P]
UniRef90_H7EIP3 H[D]I[D]P[D]I[V]A[G]I[S]K[W]M[E]
UniRef90_UPI000347AC39 H[V]I[S]E[A]V[E]E[R]L[V]S[L]M[N]A[P]S[V]C[P]
UniRef90_M2X576 H[V]M[S]E[A]V[E]R[R]I[V]A[L]L[D]R[P]E[T]A[P]
UniRef90_UPI000378C444 H[I]L[G]E[D]A[V]R[R]L[E]R[D]L[D]F[P]E[F]D[P]
UniRef90_UPI000424BA91 H[I]Q[S]E[K]L[I]D[K]L[D]A[F]L[N]F[P]D[F]D[P]
UniRef90_UPI00047E0880 H[I]K[S]Q[K]L[I]N[Q]L[D]A[L]L[G]F[P]T[H]D[P]
UniRef90_UPI0004672F8E H[V]I[S]E[E]S[F]T[K]L[K]
UniRef90_U2VLC1 H[D]L[S]A[D]T[M]N[R]W[V]S[Y]L[E]
UniRef90_R7B317 H[A]I[S]D[E]S[F]E[K]W[L]S[Y]F[Q]
UniRef90_X1KDB7 H[V]I[S]P[L]S[L]E[R]M[I]K[F]I[E]F[L]Q[E]E[P]N[F]P[K]R[Y]K[Y]L[E]
UniRef90_UPI00047935AA H[Y]I[S]F[K]T[Y]R[G]I[S]A[L]I[E]F[M]K[D]N[M]L[E]K[F]Y[K]Y[L]E[E]
UniRef90_F5T8V8 H[V]L[S]P[E]S[F]G[K]I[K]D[F]Y[A]K[F]K[K]
UniRef90_B1C0L9 H[V]I[S]D[E]S[T]K[A]M[K]V[F]M[N]N[Y]K[K]
UniRef90_K7YPU7 H[H]V[S]E[A]T[I]S[F]F[R]D[F]V
UniRef90_Q8TI19 H[A]V[S]D[S]V[L]E[R]L[Y]D[F]L[G]N[P]E[Y]C[P]D
UniRef90_R5JFC2 H[V]I[S]D[D]S[F]A[R]L[V]A[Y]L[T]E[S]A[P]E[L]L[Q]
UniRef90_G0J3G5 H[L]Q[S]T[A]F[F]E[R]M[D]E[L]G[Y]P[E]R[D]P
UniRef90_E9CJX5 H[H]I[S]D[A]T[L]A[V]F[E]Q[F]L[R]
UniRef90_UPI0004772F06 H[V]M[S]D[E]A[E]E[R]I[Y]Q[L]L[G]G[P]T[E]S[P]
UniRef90_B8FXZ3 H[S]L[N]V[S]T[V]L[Q]L[H]T[L]L[D]F[F]A[Q]N[V]A[V]R[E]S[F]E[T]F[K]K
UniRef90_G2SQT7 H[V]T[S]D[N]L[M]D[H]L[E]E[F]L[G]H[P]E[H]C[P]
UniRef90_UPI0004745EB8 H[H]V[S]D[T]T[L]A[L]M[K]R[F]T[E]
UniRef90_UPI000423672F H[L]K[S]E[K]L[I]N[R]L[D]E[Y]L[G]F[P]K[E]D[P]
UniRef90_G9Z5B7 H[H]V[C]E[E]T[L]E[V]F[R]R[Y]N[E]K[H]G[H]N[A]E
UniRef90_C7NTK4 H[H]I[S]E[S]F[E]E[R]I[A]D[L]L[G]H[P]P[V]D[P]
UniRef90_J1L0T4 H[E]I[S]D[E]A[I]D[R]L[S]R[Y]L[E]R[P]G[H]G[P]R[R]
UniRef90_T3D0L0 H[T]I[S]D[D]S[F]E[K]I[N]N[Y]
UniRef90_C2FU00 H[I]Q[S]T[K]F[F]D[K]M[D]E[L]L[G]F[P]K[F]D[P]
UniRef90_D4W6T0 H[V]I[S]P[E]T[F]E[R]I[K]Q[I]T[K]
UniRef90_V6Q4A6 H[V]T[S]D[L]L[A]N[R]L[E]A[Y]L[E]F[P]D[T]C[P]
UniRef90_I1AZ44 H[H]V[S]E[R]T[L]A[L]F[A]A[F]
UniRef90_UPI0003613F4F H[S]V[S]D[K]F[I]D[R]L[E]K[I]L[D]F[P]E[T]C[P]
UniRef90_K7RUX8 H[V]I[S]D[E]V[E]N[R]L[I]D[L]D[D]P[D]T[S]P
UniRef90_C5EVX1 H[A]I[S]D[E]T[F]Q[K]K[R]H[L]L[R]K[E]E[D]E
UniRef90_V5WEI9 H[I]L[S]P[G]T[L]E[A]I[K]D[F]V[K]S[H]T[K]E[P]
UniRef90_J0KZ48 H[L]A[S]E[N]L[M]E[H]L[D]A[F]L[N]H[P]T[H]C[P]
UniRef90_D6E8A3 H[A]I[S]D[E]S[F]E[K]W[R]S[Y]I
UniRef90_S5XWN1 H[H]V[S]D[E]T[L]A[F]E[Q]H[L]D
UniRef90_C7N7Y2 H[T]I[S]S[D]S[F]Q[K]W[E]A[F]L
UniRef90_C6WAE9 H[V]M[S]E[A]V[E]R[K]L[V]K[L]L[G]N[P]T[T]S[P]
UniRef90_A0A011ABE1 H[M]L[G]D[L]T[V]L[E]I[K]M[L]M[E]F[F]L[Q]N[P]D[V]K[L]Q[F]E[S]F[R]
UniRef90_UPI0004641A35 H[V]M[S]D[L]V[E]R[R]L[V]I[G]L[D]H[P]A[H]D[P]
UniRef90_UPI0004183510 H[S]I[S]S[L]V[E]R[Q]L[F]E[R]L[G]H[P]T[T]C[P]
UniRef90_A6NYV1 H[A]I[S]E[D]S[F]Q[H]L[K]
UniRef90_R9LY28 H[A]I[S]E[E]S[F]R[L]M[K]A[L]E
UniRef90_UPI000377D8B9 H[L]L[T]E[E]M[L]D[R]V[D]A[E]L[G]Y[P]E[T]D[P]
UniRef90_A0A011B186 H[I]T[P]S[R]L[T]A[R]L[D]K[F]L[N]Y[P]A[Y]C[P]
UniRef90_G5GEW3 H[V]T[S]E[N]L[K]N[R]L[N]E[F]L[H]R[P]Q[H]C[P]

	50	60	70
UniRef90_K2L459	H H V S E E T L A V F A S F		
UniRef90_UPI0002628C8B	H V M S D A V E R R F L E L L R	H P T A S P	
UniRef90_UPI00046538DC	H A V S D L M I A R I D A K L	G Y P S R D P	
UniRef90_F0IEJ4	H I Q S D K L I E K L D K F L	L Y P E K D P	
UniRef90_UPI000471F688	H I K S E K L I D A I D R L L	G H P K T D P	
UniRef90_U1MGZ8	H H I S E A F E R R V A D Q L	D D P D V D P	
UniRef90_A0A059IJ76	H H V S R R T L K A F E L Y L		
UniRef90_B9L1D6	H G L S E E L E S W I D A R L	G F P T E D P	
UniRef90_S0G4C1	H A M D S Q S F K K F V A F I	A T L D A C P Y R K Q	
UniRef90_B9Y6A4	H C V S D E T M D K L R I F L		
UniRef90_C7P7Q5	H A L S D K T L K K L K D F M	E K F K D	
UniRef90_J1LMX1	H V M S D A V E A R L V E L L	H D P S V D P	
UniRef90_R7HZZ5	H I V S D K L F E N M V K L T	D Y I K K S D I D I K K L Y K	
UniRef90_C8XG86	H V M S E Q V E Q R L V T L L	G H P R T S P	
UniRef90_UPI00046CE37C	H V M S D D V E R R V Y E L L	H K P D H S P	
UniRef90_D1A6F2	H V M S E Q V E R R L V V L L	G Y P T H C P	
UniRef90_M1XKS0	H H V S A E L T D R I A E V L	D N P G V D P	
UniRef90_C4FBD7	H A L S E D T M D C W I A H M E		
UniRef90_G2I6I5	H Y V G K E T L A A L R H A L D		
UniRef90_M5RWP7	H H V S D E T L R A M K R V M K		
UniRef90_S0EWQ7	H Y L S E E V A D R I E H A M G Y	P K T C P	
UniRef90_B2S2B4	H A C S D E L I D V I D R Y L	Q Y P T R D P	
UniRef90_UPI0004799D5D	H Y V S E T T L K A F E A Y L		
UniRef90_U2V9N2	H A L S Y D T Q R R W L T Y L E		
UniRef90_I0WJ20	H I Q S E K L V A E L D A L L	G F P K V D P	
UniRef90_A1ZX50	H I Q S P T L I Q R L D E F L	E F P A Y D P	
UniRef90_M2X9A3	H V M S E A V E E R L V D L L	H N P Q I S P	
UniRef90_G8PE73	H V N S E K I I N D L D A F L	G H P K H C P	
UniRef90_K1LVN2	H A S D R L I E R L Y Q F L	G Q P T Q D P	
UniRef90_F8KWZ1	H H I S Q V T M E A F Q K H L	E F L Q K	
UniRef90_J0V4B2	H I N S D L L I R R L D E F L	G Y P K F D P	
UniRef90_H9UKR2	H H I S P L V Q S R L V A Y I	N F I D T C V E E R F	
UniRef90_U1QY12	H H I S E A F E R R V A D V L	G E P S A D P	
UniRef90_U2RAW5	H V T S E K M L Q K L E K F L	F Y P K E C P	
UniRef90_UPI0002E3B62F	H H C S D E T V A A M R R F L G		
UniRef90_E3J5Y4	H V I S D E V E A R L T V L L	G D P K F C P	
UniRef90_R9H4Y6	H I H S A K L I D K L D N F L	G Y P E F D P	
UniRef90_Q3ZAA1	H V V S K H T M N R L M H F L E		
UniRef90_X5DLP6	H V M G D E V E K R L L A V L D	D H N T S P	
UniRef90_G1WKA5	H A L S E D T M N R W L A Y L E		
UniRef90_UPI0003B61C74	H I S V S T F A G I K K Y L K		
UniRef90_A8LSX7	H H V S G T T L E A F E R R L N		
UniRef90_A8U9L9	H V T S I E L T R C L D K Y L D	F P T V C P	
UniRef90_U1RDQ3	H V M S D A V E S R L Q T L L E	E E T G V D P	
UniRef90_R7QV61	H V I S K E S F Q A I K T H V		
UniRef90_UPI00047BD428	H V M S E R V E R R L Y D L L E	R P T E S P	
UniRef90_L1PJW8	H V M S D Q V E Q R L G E I L	H N P T T D P	
UniRef90_UPI000425B5CE	H V I S E D V E E R L K I L N	R P T H S P	
UniRef90_I0I9Q0	H A I S S A F E D R M D E L C	G H P T H C P	
UniRef90_A4ANI5	H I K S E K L I D G L D Q L L	K F P K Y D P	
UniRef90_K2IV36	H H V S E G T L A A F E A Y L	A Q Q N R N	
UniRef90_UPI00046786BC	H V S P V R L T N R L E G F L N	Y P E Y C P	
UniRef90_B8FPA6	H V I S N D S I Q A M E K F L	R N Y K E	
UniRef90_I0S935	H V V S D E S F E K I K K Y I	K K L S S Y	
UniRef90_V4L525	H A A P V V I S R M I D F I A F	L R V C P E L L N G F A Q F	
UniRef90_H1CFR5	H T I S Q R S F E L L K G A V E		
UniRef90_H1KZW1	H A I S E E T V E K L Y D F M	I K I K K E	
UniRef90_NOBFF7	H F I S E E V E E A I C T L L	G H P R F C P	
UniRef90_I3ZBE5	H F I S E H F E Q R I A A K L	G H P D T D P	
UniRef90_G7V6X2	H Y I T P A C R E R L T S F I	K F L S H C P R W L E H F K E F	
UniRef90_UPI000255F056	H V M S E K V E L R L L E L L	D H P V D S P	
UniRef90_J4KA32	H Y I S E E T F E C F K E Y		
UniRef90_D4YF52	H T G T E F F I D Q L D E F L	G K P V Y C P	
UniRef90_D3PDS9	H V I D K D I F E K F E R F L	S F F T E H D I E C L N I K E F I N E	
UniRef90_D3Q6E8	H V M S D A V E Q K V F E L L	N K P T R S P	
UniRef90_S0JM53	H V T S E Q L A D H L E D Y L	N H P K H C P	
UniRef90_UPI000393DD84	H H C S E D T V K A M Q R Y L		
UniRef90_UPI0003611857	H E L S D K V V E Y I D R L L	G Y P E K D P	
UniRef90_B9E992	H R V S D L F I E R L D E M L	G Y P K Y C P	
UniRef90_K9B4Z6	H V M S E Q V E R K L V A L L		
UniRef90_UPI0003B5FFC1	H V M S S E L E Q C I V N L V G		
UniRef90_D3T9Y5	H V L S K E S V D K I I E F A D	K I K	
UniRef90_A6ELK5	H I Q S D E L I K R L D S F L	G T P G F D P	
UniRef90_W0J001	H H V S P E T L A A F E R A L K		
UniRef90_K2AR52	H V I S I Q T F E A L V R F M Q		
UniRef90_G9RN83	H C V S E E S F H K L R K		
UniRef90_M1P121	H V V D P E I T E K V D D L I	E K I E K E P	
UniRef90_UPI0003B6DC51	H V M S D Q V E A R L M V L L	D S P E S S P	
UniRef90_UPI00047A06E8	H H V S D V A L J A A F S R F L K		
UniRef90_B4S5Y1	H V I S D R L T D A L E R M L	D Y P R H D P	
UniRef90_G0LBE6	H I K S E K L T D R L D K L L	G Y P E V D P	
UniRef90_R5FJV5	H A I S D E S F K K W L A Y F E R		
UniRef90_M9VF68	H V I S G E V E K R L T G L L E	N P D V S P	
UniRef90_N9WYH3	H A V S N E S F H A L K K		
UniRef90_X0SR01	H L L S D E V C E R L D A F L	R R P R R R P K A R Q A	
UniRef90_UPI0003B7A888	H H V S T E T L S V F Q K F N R		
UniRef90_M5AFU3	H V T S P K L I D A L D D M L	G N P T H C P	
UniRef90_D4TYT9	H V M S D A V E A R L E E L L		
UniRef90_R7K7B6	H V V S D E L F E I K N F V N		
UniRef90_S0FKV7	H I V S D E T L S H L		
UniRef90_S1QXH1	H V T S D K L A N K L E A F M	H F P D Y C P	
UniRef90_R5K6Z6	H I V S D K L F D N M M K L T	D Y V K S	

UniRef90_K1RUD3 1 T D I G R E V A T S I Y E R H C F F T 20 E Q L I A A G V D P K T A E A D A C R M E E
UniRef90_F4LJL7 T E K G R A E A E R I Y S R H K H G L T S F L E K L I G V D S R A Q A E E N A C R I Q L M E E
UniRef90_UPI0004148EE8 T E F G R Q T A K E D V L R K H H R L W E V F L V R K L G V F A W D R T A R H E V A E E Q L M E E
UniRef90_W7Q349 T E T G R I M A K E S R L K H H D I L V E N F L R A L G V S D A D R T V A R H E V A E E G M E
UniRef90_Q11VC9 T S K G K K Y G T D I L R K H H R L W E T F L Q K L E F T W D E T H E V A E E Q L M E E
UniRef90_F7V1P4 T Q R G L G I A K A T L E K H H F F R N A L L C Q D A G V D D A E R A S K E A A C C R M E E
UniRef90_R7D5L2 T E K G R E L G R A V W Y R H H R L R N A F L Q E L G V D D A E R A S D A K E A A C C R M M E E
UniRef90_S6CCZ4 G R K I A E R V Y D R H H C F F F K V L T N L G I P T E I A Q R D D A E C C R M E E
UniRef90_B5JMV0 P D G W L K A C A V V S R H H R L W E L Y L E N A E Y E P E K H V H D D D A E V I I E E
UniRef90_UPI000466EBB0 T A K G K K T A K F L C S K H H Q T I K Q F V E V L H I D E K L A D K D D A E C C R I E E
UniRef90_R7GL14 T D K G Y E I A S K T Y D K E K L I T K L L T S F G V D S H E Q A Q Q D A A C C R I E E
UniRef90_D6DFF4 T E K G R K T A E T I Y E R H H Y F K N W L I E A G V D E D Q D A E Q E A A C C R I E E
UniRef90_D1B7U4 T E A G R A R A L S I Y R R H H Y N L V F F L E L L G V D D R A G R I A C C C E M E E
UniRef90_U1P876 T E E G E T V A L E V I R H H R L L E T Y L E H L D Y D W H E V H D E A D A L I E E
UniRef90_COM6N6 T S K G R T L A V E L Y E K H H Y L T Q V F K H I G V D E K I A E I E A C C Q I L E E
UniRef90_UPI00047B0502 E G R K L A L M V L R K H H R L W E T F L K I L H F N W D E V H H E V A E C R I L E E
UniRef90_UPI000470A338 T Q S G L E I A S E L I R K H H R L L E V F L V T L D F K L N E V H H K E A E T L E E
UniRef90_B2GFN6 T E S T G R A T A V S V M R K H H R L A E R L L D V V G L D M A H V I H E E A C C R W E E
UniRef90_A0A01PGR7 T E S V G R D L A V S V M R K H H R L A E R L L D V I G L E W H Y I H H E E A C C R W E E
UniRef90_L1MFV8 T D K G R R L A T A V M R K H H R L A E R L L T I I G L E D I H R V H H A E A C C R W E E
UniRef90_UPI000377EF3C T N Q G L T A K G M V R R H H R L A E R M V V V L G L D L H K A H H V E A H R R L E E
UniRef90_M7MS16 T E H G A E V A T G V M R K H H R L A E R L L D V I G L E W E Y V H H E E A C C R W E E
UniRef90_UPI00047DDE34 E K G R L V A L S I T R K H H R L W E V F L V K L N F S W D E V H V V A E C Q L E E
UniRef90_D2PRF7 T E V G R M Q A L R V M R K H H R L A E R L L V V I G L E W E D V H A E A C C R W E E
UniRef90_G8XAK6 T D K G L H T A K M I R K H H R L W E V F L V N L G F A W D E V H H D L A E E L E E
UniRef90_F0PBU2 T E K G L K K A S T L I R K H H R I W E V F L E H L N Y T W N D V H H E E A E E L E E
UniRef90_H5XS48 T R A G K L C A V D V K N R H H R V L R K F L E V L G V D Y Q T A D K D A C C L M E E
UniRef90_UPI00029AAD0F T P K G I E V A E Q L V R R H H R L W E V F L D K L E Y K L A D V H D D A E L L E E
UniRef90_M0PI66 T A E G E A V A E V V R H H R L W E A F L D Q L D Y D W S D V H H E E A D A L I E E
UniRef90_UPI0002555D40 P K G E E K A K S I Y E R H H Q V L S Q L L Q L A A I S N E V A D E E A C C R I L E E
UniRef90_F8ECK5 T E E G Q R L A L L V I R K H H R L W E V F L E K L G Y T T E E V H H E E A E E L E E
UniRef90_I1ZJY9 T D L G S Q L V S D L Y R K H H R L W E V F L E N L G Y T T E E V H H E E A E E L E E
UniRef90_W7Y6B8 T P A G L S L A K V I R R H H R L W E M F L R V L K M D L G E V H H E E A E E L E E
UniRef90_D4LZA7 T D Y G L S V G N D C I Y R H H S I S Q M L Q F I G V N E K T A D Q D A C C R I L E E
UniRef90_UPI0003634A98 T E E G L K K A E E I S R K H H Q V I I N F L L L N I N E E K A N L E A E G I I E E
UniRef90_M9SHY2 T E S G L R E A R L T R K H H V V F R F F T L L E M D H H E Q A A E A S R I L E E
UniRef90_H1BDS8 T E E Q G W Q I A Q Q I Y E K H H Q F F T R Q L I E A G V P H H I A A Q D A C C R I L E E
UniRef90_A0A011QTH6 T E K G L L I A N Q L I R K H H R I W E V F L E K L G Y D W N E V H A D A D L L E E
UniRef90_UPI00031B81FF T K S G L N H T A N I I R K H H R L T E R F L E E L E Y T W D Q V H H A E A E E L E E
UniRef90_UPI00037421C2 T K S G R K A A A L V V R K H H R L T E M F L E Q M G F G W E E V H H A I A E Q I L E E
UniRef90_L0G4K9 T E E G K K S A L Q I I R K H H R L W E V F L E K L M F S W D E V H H E V A E E L E E
UniRef90_C1D3S6 T A A G E S V A L E I L R H H R I T E A Y L H H L G V P L E E L H Q A E A D R I L E E
UniRef90_UPI0003612D3F T E Q G E Q L A D K V A S R H H R V V L Q A L R A L G V P E S E L A R A D S E G I E E
UniRef90_B3QXC9 E G K K I A L N M L R K R R L L E L F L K M A G Y D L Y D V D E E A C C R I L E E
UniRef90_E7NRZ5 T K K G Q T I A K N V R L R H H N A L S H M F L E V L G V E S K K A A A E A C C E M E E
UniRef90_A0A031LMT5 T D D G L R I A E R N V R S H H R L S E R L L T L G I D W R A H E I A H R L E E
UniRef90_B4U486 T E Q G Q R L V A N L Y R K H H R L M E V F L I H L G Y T A R E V H H E A E V L E E
UniRef90_C5EGM6 T E D G Y A L A S K I N D S Y E T F K R F C S I G V E P E E V A E H D A A C C R I L E E
UniRef90_E1Y8F6 P T G K M A A K D V I R H H E V L S D F F K V L A V E A D A D K A A C C L M E E
UniRef90_R9MAR6 K G Q K L A S Q V Y E R Y D F L T K L F C Q F G V P V E I A R K D A C C L L E E
UniRef90_UPI000317470F T Q E G T D Y A K K L I R K H H R L W E V F L K H L G F N I N E V H P E A E E L L E E
UniRef90_UPI00035CAA4F T E K G Q T M V A G L Y R K H H R L T E V F L I H L N Y S P K E V H H E A E V L L E E
UniRef90_HOUR41 T E E G R K R A L S I Y R R H H Q E L A H F F R L L G V H G E R A Q Q V A C C E M E E
UniRef90_S3K824 T E E G C A L A R E C A I R H H G I V L Q F L L K L G V S K E T A L L D D S E G L E E
UniRef90_R2PXA7 T S L G L E K A S T L V R K H H R L W E V F L V H L G Y S W N E V H H D D A E V L E E
UniRef90_A0A022L3Q9 T D E G R Q I A T A V M R K H H R L A E R L L D V I G L D F A L V H H E A C C R W E E
UniRef90_UPI0003B37599 T D H G R L S A V R V M R K H H R L A E R L L M V I G L D P A Y V H D E A C C R W E E
UniRef90_UPI0003821C23 T E A G R L V A L N T I R K H H R L W E V F L E H F G F H W D E V H H D V A E Q M E E
UniRef90_T0TH32 T E T G T I N V A E L Y R K H H R L T E V F L D H L Q Y S C D Q I H H Q E A E T L E E
UniRef90_A8U179 T D A G R E L A N D S R A R H H A V L R E L L A I G V P E A V A F H D A E G I L E E
UniRef90_UPI0004033D04 T E E G R A H A T A V M R K H H R L A E R L L T V I G L E W D R V H H E A C C R W E E
UniRef90_R7L2D3 P K G R Q A A E S V L K K H N I L F Q F L T N L G I P R S A A H H E A A C C K M E E
UniRef90_W6TAK1 T K K G I R Y A A T L V I R K H H R L W E D F L V K L N Y D L P D V H H T E A E V L E E
UniRef90_E4TAW7 T E I G Q K E A A L V I R K H H R L T E M F L E K M G F G W E N V H K I A E E L L E E
UniRef90_D2MM79 E T G L A I A K K I H E R N T V L T D Y F K Q L G V D P D I A Y H D A H K I E E
UniRef90_S3A9A9 T E E G E K N A R V W R A H H R A L R T F L E H L H V D E D T A D A E A C C L M E E
UniRef90_UPI00037D99BE T N E G Q K I A E D I A Y R H H N L S E Y F L C T L G I P W Y E V H H Q H A H R L E E
UniRef90_H6RE05 T Y K G K Q K A E G L V R A H H R L W E L Y V D S M G L L E G Q I H H E E A E E L E E
UniRef90_Q11TH1 T N E G I E R G K R I V R L H H R L W E M Y L K N L L L P S D H V H D D A E T I L E E
UniRef90_U2PW06 T E K G N N F A C D L I R K H H R V W E V F L E K L G Y D K E D V H H K E A E L L E E
UniRef90_R5C1F1 T D F G K T Q G A E C L T R H Q Y L T Q F L Q M V G L D E E Q A Q E D A C C R M E E
UniRef90_G5HPA0 T D K G H E A G R Y L H R H R V L H D F F C A L N H T D C E L E Q V I E K I E E
UniRef90_U3U8A8 T I E G E K L A E A N R M H H I V E T F L L S I G I S I E T A R R D S E G L E E
UniRef90_I3ZYI6 T E E G R K Q A A L V V I R K H H R L T E M F L K V M G F A W D E V H H E A E Q V E E
UniRef90_E8K1B7 T N I G L T L V S E L Y R K H H R L T E V F L H L D Y T S D Q I H H E E A E V L E E
UniRef90_M7ERV7 T Q K G L L V S D L Y R K H H R L I E S F L R D L H Y T A D Q I H H E A E V L E E
UniRef90_A7VT08 T E A G L K I A K A T Y E R H H Q T F Q T L L E E L G V D G K T A A D A S L M E E
UniRef90_F2IDU0 T T L G N S F A L A I T R K H H R L W E T F L V T L H F G W D E V H D I A E Q L E E
UniRef90_F5WQS0 T E K A T L E A K T I R K H H R L W E V F L E H L G Y S W T E V H H E A E V L L E E
UniRef90_J9UU40 T D S G R A I G K D I A E R H H A I F Y Y F L K V L N I D E K I A D E E A C C L I E E
UniRef90_D8J972 P E G E R V A I E V R R H H R L L E A Y L E H L D F A W S E V H H D E A D R I L E E
UniRef90_K7TDZ5 T N A Q O D M A S K A R H H G I V E A F L L A L G I S E E N A R H D A E G I L E E
UniRef90_M2JWH3 G R E I A E K L Y E R H H Q Y F A N Q L T G A G V D A S T A E A E A C C K M E E
UniRef90_W9GSY0 T E D G T R M A N M A R Q R H H R V V F D F L R A I G I D R E T A E A D S E G M E E
UniRef90_UPI00037F42C2 E R G L E L A T Q V M R K H H R L A E R L L I V I G L E W H H E E A C C R W E E
UniRef90_F0SX08 P A G K E L A M L T S N K H H R T I Q Q F F E L K L D V N T A D M D A C C A I E E
UniRef90_I0J11 T S A G K K L A A E C A Q R H H E A V Y R F L R K L G V S K R V A A L D A E G I L E E
UniRef90_C8WH72 T A A G K H L A E E T L S K H H R F F E R L L A N A G V N A E V A S K E D V C R M E E
UniRef90_F3PBG0 T D E G R R R A T D V I R K H H R L A E R L L D V V G M D R R L V H H E A C C R W E E
UniRef90_I0R3M2 T E S G K K R A R A L L T K H H R L W E L F L E Y L G Y S W K N V H E D A K A L E E
UniRef90_D4JAX6 T E K G L L E G M D C L A R H H E K L T Q F F Q M V G M D Q E R A Q E D A C C R V E E
UniRef90_UPI0003B7333A T L A G Q K I A E D V A K R E K I L F H F L E L R V D E A S A R R D A C C R M E E

UniRef90_K1RUD3 H V I S T E
UniRef90_F4LJL7 H I L D D D V F Q G I L N Y M
UniRef90_UPI0004148EE8 H L K S D K L T K E L D R F L D F P K R D P
UniRef90_W7Q349 H H V S E E T L A I M Q R F S E
UniRef90_Q11VC9 H I Q S A K L I E K L D K F L G H P T L D P
UniRef90_F7V1P4 H C L S A D S F E K F S A Y L K
UniRef90_R7D5L2 H A V S E D T M T R W L H Y L E
UniRef90_S6CCZ4 H A M S E E S Y Q A L K K
UniRef90_B5JMV0 H V L G E E T V R R L E R L L D Y P S E D P
UniRef90_UPI000466EBB0 H V I S D E S I K A M R E Y M K
UniRef90_R7GL14 H I S E E S V H C I K R Y L K
UniRef90_D6DFF4 H D I S E Q S F Q K L K R W
UniRef90_D1B7U4 H L L D D D L E G R I F A L S E F I K A S E G W A R E L Q E
UniRef90_U1P876 H H I S E E F E R R V A E A L D N P S V D P
UniRef90_COM6N6 H I L S K D T F N K I K K Y F E
UniRef90_UPI00047B0502 H I Q S Q Q L I D H L D D F L G N P A F D P
UniRef90_UPI000470A338 H A V S D L F I E R L D N F L N H P V E C P
UniRef90_B2GFN6 H V M S E R V E R R L V D L L G D P Q L S P
UniRef90_A0A010PGR7 H V M S E R V E R R L V E L L Q S P V E S P
UniRef90_L1MFV8 H V M S D E V E Q C L V S K L D N I E R S P
UniRef90_UPI000377EF3C H A I S P E I E S K I D E L L G Y P T T C P
UniRef90_M7MS16 H V M S E R V E Q R L Y A L L G K P A A S P
UniRef90_UPI00047DDE34 H I K S D A L T D K L D A H L G Y P K V D P
UniRef90_D2PRF7 H V M S D A V E L R L L K L L D N P T E S P
UniRef90_G8XAK6 H I K S E K L T D K L D E F L D F P A F D P
UniRef90_F0PBU2 H V T S Q T L V N R L A D Y L N H P E F C P
UniRef90_H5XS48 H V V S P V T M K R M A E F I
UniRef90_UPI00029AAD0F H T T S D R L M N H L D V F L N Y P T H C P
UniRef90_M0PI66 H H I S E E F E R R V A E A L G D P A V D P
UniRef90_UPI0002555D40 H M L S D D D V F E G I K T F V Q
UniRef90_F8ECK5 H I R S E R L I E K L D A F L G Y P K F D P
UniRef90_I1ZJY9 H T V S E H F I D R L D H M L G N P K T C P
UniRef90_W7Y6B8 H Q T S D S L L E K I D D Y L G R P K F D P
UniRef90_D4LZA7 H I V T D E S T R A I C Q F I N Y
UniRef90_UPI0003634A98 H V I S D E T L R K I E I L Y N I I K E N S D T E N K I R E
UniRef90_M9SHY2 H S J I S D A S A V R M C N M L G N P
UniRef90_H1BDS8 H V I S E T S
UniRef90_A0A011QTH6 H A S S D F L I E R L N I F L G E P T F D P
UniRef90_UPI00031B81FF H R V S E H F L E K L D K L M D Y P K T C P
UniRef90_UPI00037421C2 H V D S P A F F T R M D E L M G H P N V D P
UniRef90_L0G4K9 H L K S N L L I Q R L D D F L G N P K Y D P
UniRef90_C1D3S6 H I S E S L E A R L F A A L G A P T H D P
UniRef90_UPI0003612D3F H H C S D E T V A A M H R F L D E N P H L I
UniRef90_B3QXC9 H V I S D R L A D A L D K M L G H P K L D P
UniRef90_E7NRZ5 H A I S Q E T A Q K L Y E Y L E K I G K S P
UniRef90_A0A031LMT5 H I W P D D I L Q R I D E V L G F P K T C P
UniRef90_B4U486 H T V S D M F I D R L D K T L G Y P T F C P
UniRef90_C5EGM6 H Y L S P E S I G I R G I M E
UniRef90_E1Y8F6 H S I P R V I L E R F I Q F A E F V E V C P K W I A G F N Y H C D Q
UniRef90_R9MAR6 H D I S N E S F E R L K
UniRef90_UPI000317470F H S T S A E L A D R L E A Y L E F P E Y C P
UniRef90_UPI00035CAA4F H T V S D L F I N R L E S F L D Y P R V C P
UniRef90_HOUR41 H L L D D Q V E M R L F A L S D Y I
UniRef90_S3K824 H H I S S E T L E C M K K F I E N L
UniRef90_R2PXA7 H V T S S Q L E K R L N T Y L E H P A Y C P
UniRef90_A0A022L3Q9 H V M S L A V E E R I A Q Q L E P P Y V D P
UniRef90_UPI0003B37599 H V M S E Q V E K K I L Q L V E
UniRef90_UPI0003821C23 H V D S E L L V R R L D E F L G F P Q L D P
UniRef90_T0TH32 H T V S D H F I N A L D R L L N Y P Q T C P
UniRef90_A8U179 H H V S A T T L K V L E D W I K
UniRef90_UPI0004033D04 H V M S E E V E R K L V K V L D E Y T V S P
UniRef90_R7L2D3 H S I D L D M A E K L S N F I E R L
UniRef90_W6TAK1 H V T S E R L V D S L E S F L G N P T H C P
UniRef90_E4TAW7 H I H S E E F F D K M D E L L N Y P K V D P
UniRef90_D2MM79 H D L S D Q T F S K I K E E Y L K
UniRef90_S3A9A9 H S L S H S T M S K L V Q F L E
UniRef90_UPI00037D99BE H A M T P K V V Q K L A E F L G K P K F C P
UniRef90_H6RE05 H H L S E E I L D Q L D K K L G F P S K D P
UniRef90_Q11TH1 H I L T P E L L E S R L E K S L N F P E V D P
UniRef90_U2PW06 H V T S N K L L Q K L E K F L F Y P K E C P H I F Y D L K D F D E E
UniRef90_R5C1F1 H V V S G G V I Q G V C E F L K Y G N T Y D R V A K N L N
UniRef90_G5HPA0 H F I N R K T V E N M E R L I T F L R E M P
UniRef90_U3U8A8 H H V S D E T L A A F Q K F
UniRef90_I3ZYI6 H I K S K A F F D K M D E L L E H P S I D P
UniRef90_E8K1B7 H T V S D F F V E R L E S M L G F P K T C P
UniRef90_M7ERV7 H T V S T T F I D R L E E N L D F P E F C P
UniRef90_A7VT08 H A V S P E S Y E
UniRef90_F2IDU0 H I Q S T E L T D R L D E F L G F P K V D P
UniRef90_F5WQS0 H G T S E L L A N R L N E F L G F P E H C P
UniRef90_J9UU40 H A M S R D T V H K F K E F L
UniRef90_D8J972 H H I S E A F E E R V A A V L E D P T V D P
UniRef90_K7TDZ5 H Y V G A E T L A V F E K A L K
UniRef90_M2JWH3 Y T I S D D S F Q K L K
UniRef90_W9GSY0 H H A S D Q T L A A M E R L
UniRef90_UPI00037F42C2 H V I S A D V E R R L V K V L G N P
UniRef90_F0SX08 H V I S N E S I Q A M Q E F M R T Y K K
UniRef90_I0I11 H H L S K P T L K A M R A F
UniRef90_C8WH72 H C L S T D S F E K L S S H L G R I Q D
UniRef90_F3PBG0 H V M S E Q V E E R L A A L D D V S V D P
UniRef90_I0R3M2 Y V T S N G L K D R L N E F L N K P K H C P
UniRef90_D4JAX6 H Y I S P E G L K G I E H F L Q Y
UniRef90_UPI0003B7333A H S L S N Q A M E K L I K F I E F M E R

UniRef90_UPI00041FD3CD H I K S P I F F D K I D E L L N H P V A D P
UniRef90_E1QY09 H A L S L D T Q N R L T A Y L D
UniRef90_B4UDV8 H I L S P E A T D S V C T L L G H P P T C P
UniRef90_D2NR21 H V M S D K V E K R I L G M L K D P K F S P
UniRef90_XOPDU8 H A T S G D L T D R L N K F L D Y P T H C P
UniRef90_X1JZU5 H E L E A K T I E Q L K N
UniRef90_I0R3I6 H V M S E S V E R K L I G L L K N P S V S P
UniRef90_UPI00035FBD95 H H V S S E D T L R
UniRef90_D7WFG5 H V M S E E V E R R L L H V L D D P T R S P
UniRef90_UPI00037E3DDE H A L S E E L E D L I A A T L G N P T H D P
UniRef90_E5YAJ8 H V I P P D V I R R L G Q F V L Y L R S R E D W Q E D Y K E I R
UniRef90_X0ZYU7 H G V S K E A A E K L E K L L K S P K T C P
UniRef90_UPI00034AF790 H V M S E R V E R K L L D L D H P T E S P
UniRef90_R5HNR9 H A I S R Q S F A V L K D R L E
UniRef90_F0P0Q3 H I Q S T L F F D K M D Q M L N Y P R F D P
UniRef90_A0A022LGF2 H V M S D D V E R R L I E V L E D P R T S P
UniRef90_A4EAP5 H C L S E E S F E K L R A M L N
UniRef90_G2MI92 H H I S E E L E R R M A A L L E D P E T D P
UniRef90_K6V6T8 H V M S D R V E R K I L A L L D G N S Q S P
UniRef90_UPI00037F431C H V M S D A V E R K V F A L L G E P A V S P
UniRef90_S2Y7D6 H R V S E L F V E R L D E L L N Y P E T C P
UniRef90_A7NQR4 H I T S E R L V A A L K A F L E R D P E
UniRef90_S2WIK6 H V M S D R L E K K L I E L L G E P R V S P
UniRef90_J7IWH4 H V I S N D S L H A M Q E F L
UniRef90_M0MK16 H H I S E R F E T E L A A A L D E P T V D P
UniRef90_R5QHE8 H F I S K K S F Q G I R N F I K Q V I E E
UniRef90_C2CP36 H V M S E E V E K R V V A V L
UniRef90_UPI00042894FC H I K A P L F F E R I D Q I L G F P K Y D P
UniRef90_UPI000476F7DE H I K S P L L V I E R L D H F L G N P Q Y D P
UniRef90_UPI00035C82C8 H V M S D E V E R R L D V L E D V D R S P
UniRef90_UPI00036B6506 H V W P D D V L E R L D E L L G R P R T C P
UniRef90_W8VZQ7 H I Q S R K L I D E L D K H L G F P R Q D P
UniRef90_F3Y9S0 H V T S E T L A D R L S D F L K Q P E F C P
UniRef90_A3XH55 H I K S D K L I R E L S D K F L G Y P K H D P
UniRef90_A9BH76 H H M N D N F Y I S L D G L M L F L K R N P I E L T E A K K F
UniRef90_G5HDS0 H Y L S Q E S V V S I G G L V G
UniRef90_E1R8X3 H V I T P E L A S R F R S L T Q Y I E D E
UniRef90_U2L7A4 H V L S D D S F E K I K N Y I K
UniRef90_C8W8C8 H S L S I D T L A K L T F L E
UniRef90_E1V7K7 H H C S E A T V E A M R R Y L N
UniRef90_D2SBP7 H V M S E A V E R K L L T L L G N P T V S P
UniRef90_M5E0R5 H A L S Q E S F E K M V K Y L
UniRef90_UPI0002490F74 H V T S T K L V N S L D T F L W H P Q H C P
UniRef90_S8YSI8 H I L K E D S F K K I K K F V Q
UniRef90_M1E8T9 H D F S Q S T F R K M E R M I A F I E K H P E I F E E F K K F
UniRef90_X0TXH7 H I L P P E M E R S I C T L L G H P P F S P A
UniRef90_H1CB80 H V I S E S S F Q H L K K
UniRef90_B7C909 H T I S E E S F K K L K
UniRef90_U2N191 H V I S S D S I N A M Q K F L
UniRef90_Q2FNY0 H G L S P D S Y K K L V P F I K F I E E
UniRef90_F2NC58 R A I P G V I V D R L I Q F G E F L D I C P E W L Q D F Q R F C Q
UniRef90_M1IM89 H I W P E D I I E K I D V M L N K P S T C P
UniRef90_UPI00024903C1 H Q T S D R L A S S L D N F L G Y P K H C P
UniRef90_UPI0003702D0C H V M S D A V E Q H V V S V L N S P K R S P
UniRef90_R6RMF7 H F I N E K T I Y N I E N F L K I H E K E
UniRef90_UPI0003697AEA H V N F E E L T E R L A K F L G N P E F D P
UniRef90_M7Y3V9 H V R S Q L V I Q R L D E Y L G Y P K F D P H I P D E F G E V K S R
UniRef90_H3RRJ5 H N T S D R L A T A L D A F L N H P K Y C P
UniRef90_UPI00042237B4 H A G N D E L T E R L Y L F L D K P K
UniRef90_UPI00036FC1CE H L L T A E E I E R L A E L L E
UniRef90_R7LV08 Y A M P C D V L E K F V Q F L T F M E K C P K W V K S F K Y Y S Q
UniRef90_U1PXI3 H V M S D D V E A R L V A V L D D P G V D P
UniRef90_T0LGP3 H T I S P E M E E R L L E I E G K S Q T C P
UniRef90_K2ESX1 H I L T P D M E E K L T R L E E N P K L D P
UniRef90_C0VFN2 H V M S D D V E N L L T T V L S T T K V S P
UniRef90_E7GA49 H F M D R K T I L Q I E K L T L F L E N H H D
UniRef90_G0IWJ8 H V K A P L L V R R L D E Y L G F P K F D P
UniRef90_E4KR76 H A T P D D L A D R L A V Y I N Y P E K N
UniRef90_F9V8J9 H A S S P K L V E Y L Y A L L D Y P A V D P
UniRef90_Q2RIM2 H Y I T P T M C L F R N L V Q Y F R A H P E Y L D E L
UniRef90_G1WVX5 H A I S A E A F Q K L K N
UniRef90_H5UTB7 H V M S E R V E R K I V R L L D E V D V S P
UniRef90_L8JJ24 H I L T P E L E A R L E K L L N Y P K V D P
UniRef90_D1CEB4 H A I T D E T E E K L W I A L G R P T T C P
UniRef90_H1YV1 H S A S D D T I K K L N E Y L I R P G R C H G W R Q
UniRef90_D7GFL1 H V M S E E V A N R L C E M L G T P V S T P
UniRef90_H1X775 H D A D D E F V N A L E K F L D Y P K Y S P
UniRef90_C7RGX8 H V T S E E M F I A L N K F L D Y P K K S P
UniRef90_UPI00037E7B49 H V M S E R V E R K I L A M L K
UniRef90_G9ZTA8 H D T T N E M I D H L D D F L G N P E R C P
UniRef90_R5PZL3 H Y L E G K A A S R F F N M I D F L Y E K E E W M N G L
UniRef90_F2L3P3 H V M D P R V V E R I A K F L A E A L K Q L S E A L
UniRef90_S7J5M1 H V F T D E L E A I V A R L Q D P D Y D P R L I P K R K H H Q E E
UniRef90_U4KP60 H A T S P R L V E K L F D Y L G R P T H C
UniRef90_UPI0003659697 H V M S E E V E R R V I D L L G E P S H S P
UniRef90_D5RGC2 H H A S D K
UniRef90_UPI0003654558 H I T P E L E R Q L D K S L N F P K E D P
UniRef90_F1T6H4 H A L S T D T Q N R W L A Y L D
UniRef90_UPI00046AA04A H S S D K D L M D H L N D F L G H P Q R C P
UniRef90_A0A055LC85 H A V S D R L M A R I D A K L G F P Q R D P
UniRef90_T2A0F2 H V L S Y E S F K Q L K Y I E
UniRef90_D3S1K6 H L I S D E V E E A I C T L L G H P S R C P

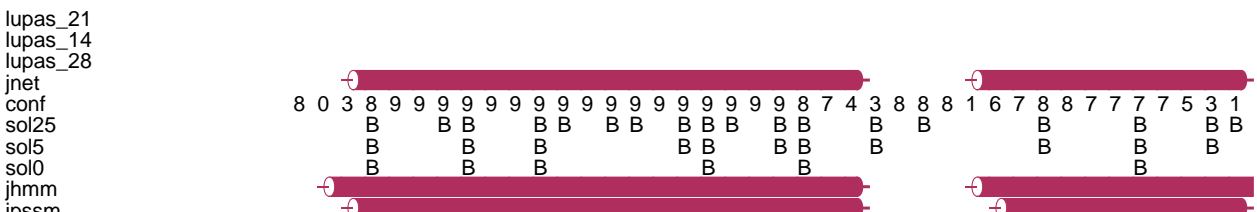
	50	60	70
UniRef90_R7PKV3	H F I N H R T V A N M E Q A L P F L R P K N D I		
UniRef90_L0ABP5	H K I S D N A V K K L K E F V N		
UniRef90_D3RXA0	H V I N E D A L R K I C H F I		
UniRef90_R7FUM5	H V I S K E S F E A I K R H V		
UniRef90_U2JK06	H V T G D E L R E S L N R F L N Y P T K S P K G K T I Y K N I E E		
UniRef90_I7L581	H S S S K R R L V E R L Y T L M H F P K T D P		
UniRef90_R7MNH1	H F I N R R N T V D N I Q N L M K Q I N K		
UniRef90_V4J8B0	H S V S D Q A V R A M T E F V R		
UniRef90_UPI00047B4AB6	H A V S A A F E A R L L E K L G		
UniRef90_K2A654	H S L S D K V V K R M A K I L K N P K V C P		
UniRef90_B5Y9M4	H F L H T E T L E A L M N S L F D P K E		
UniRef90_Q026A1	H A V S A D F E R K L I E R L G V E S E C P		
UniRef90_X1KWT2	H T L K P E V I A R L		
UniRef90_C7RI31	H V I S D E T F E K L K K H F D Y		
UniRef90_D1C3K2	H S I S E E L E A R L D R A L G Y P T T D P		
UniRef90_Q2IUL4	H H V S D A T L A A F A Q F L E		
UniRef90_X0SLL1	H S V S P S T I E A F V D F M E F I E H C P S W L D Y F N E Y R		
UniRef90_R5SID0	H Q T S D M L A E R L D E F L G H P E H C P		
UniRef90_F6GGV7	H E T S D F L A N K I S D Y L G N P K F D P		
UniRef90_M0FQE0	H H L S E R L C R E I E R K L D M P E T D P		
UniRef90_D5E894	H V M S D V V L E R M C S Y L		
UniRef90_K1SCG2	H D L S E E S F Q K L K E L F K N M N		
UniRef90_W4RH05	H H L S R D A I D R I G D L V Q F F E E D Q S R V Q E L R A I Q K K		
UniRef90_G4KY65	H F L D R K T V K N L E L L		
UniRef90_UPI000478ABE8	H F L S P K T I E N L A K L S S R L E N		
UniRef90_J5HSK4	S V T S D E L F E K L N D F L H R P A A C P		
UniRef90_A3ZXJ0	H L N D E A T V D Y L D D R L G H P T R D P E I P E D F		
UniRef90_D1PII3			
UniRef90_UPI0003695520	H L L P E A I L S A V D E K L G Y P Q L D P		
UniRef90_C0C4N1	H Y I D K R T V E N L A R L L		
UniRef90_Q1Q4R0	H F L S E E V T T S I C T L L G H P L T C P		
UniRef90_B3ET31	H I H S D L L I Q R L D D Y L G N P S H S P Q		
UniRef90_U2USR3	H L T D G E M M K R L N A F L N Y P T H C P		
UniRef90_D4H2B6	H Y N D A D A I Q Y I Y E Q M G S P V T D P		
UniRef90_C5CFL3	H I S N I R F F T A L S V M M D F L N E N P E L K K R F		
UniRef90_J2ZK18	H V T S P K L L A R L D K F L G Y P K H C P		
UniRef90_C0D3Z5	H F M D R V T V G N L E R L G K M E		
UniRef90_UPI000248EBA6	H E T S D F L A D K I H E Y L G F P D Y D P		
UniRef90_Q96YD2	Y S V P D E V I E R I Y E Y L G K P E K C P		
UniRef90_E0XX39	H A I T P L V A D R L E E Y L G Y P K F C P		
UniRef90_B5IEE8	V N I E D D V V E L I C N R L G N P K E C P		
UniRef90_R7NI40	H F I D E T T L T N L E K Q I N		
UniRef90_Q8PX90	A F V S R N S V N K I C S S M G H P		
UniRef90_UPI0003F65C06	H L L T P D L E A L L E S R L N F P K L D P		
UniRef90_UPI00035D9168	Q S L P A D V L C R L V Q F N N F Y R N N P		
UniRef90_V5WFW7	N N I S D I F E E R M F K A L G K P Q T C P		
UniRef90_H5SH71	H F L A E G I T R A I C T L L G H P R V C P		
UniRef90_Q12UX2	H T V S D L V V E S M C N Y L G		
UniRef90_F8L6P3	H I L T P E I E E R L T R V L K N P T Q D P		
UniRef90_H1Q482	H R I S D D E R E R I A S L L G N P L F D P		
UniRef90_R9GC42	H V T N H D L A E R L A D F L G H P K R C P		
UniRef90_U1MVK3	H A L S D R L L E S I A A S L G D P E R D P		
UniRef90_K0PAH0	H I D S D T L I D R L D H F L G S P Y C N P		
UniRef90_U5BT65	H I K S K L L I Q R L D E Y L G F P K F D P		
UniRef90_R5SZL1	H V I D N R I L K K L E Q H I K		
UniRef90_Q2FM93	H L V P K V H I D Q I C R S L G H P S R		
UniRef90_H1HSY5	H V I S E D S F H K M Q A H		
UniRef90_R5S894	Y S M P D E V L E K F V G Y L T F M Q N C P K W I K S F Q H Y I K E		
UniRef90_M7A802	H V M T E D V E R S I A A T L D D P R R S P		
UniRef90_UPI00047C3932	H V S N N Q I L D K L Y E F L G E P K		
UniRef90_U2XLZ0	H T I S D R L L A G I A E R L G D P R F D P		
UniRef90_D2Z6N5	H C L D S T T E R R L A A F V D F		
UniRef90_Z9JUQ7	H Q T S L E V E K R I A E R I D A P Y L D P		
UniRef90_H1D081	H Q T N D I L S E K L E A Y L N H P T H C P		
UniRef90_R6S7C7	H V L S E E S I N K L R V Y M E		
UniRef90_D5SYP0	H Y I S S E L R H E L S N D L M R P D Q D P Q		
UniRef90_E1L154	H A I S L D T Q N K W L S Y L E		
UniRef90_G4KWN0	H V I S S E S L N R L E		
UniRef90_S5DLE8	N V L S P L T E K A M L E I L G N P T T G P		
UniRef90_G8P3N4	H A S P R L I E S L Y V L M G Y P E T D P		
UniRef90_E0SPQ1	H L P E E I F D K L Y E F L G K P T R C P		
UniRef90_UPI00035CB0AA	H H V S E A T L R A F A R K L G		
UniRef90_I4AL54	H I L T P E I E A Q L E T R L K Y P Q K D P		
UniRef90_D5E9F0	S F V S L Q A I D T I C S T M G H P		
UniRef90_L0HKU9	S F I S R N A L D T M C R A M G H P Q		
UniRef90_D1R644	H I L T P E L E K E L T V L L K D P K K D P		
UniRef90_A0R805	H V V K K E I E E E I C R L L G H P E T C P		
UniRef90_D8K3D9	H L L D K G L D E N I C V L L G H P K V C P		
UniRef90_R5AGC1	H F M D R R T V E N L D R L T G R M K		
UniRef90_S4M6W0	H V L T D E L D Y A I T E L L D N P H Y D P		
UniRef90_R6HZR8	H F L D R R T V E N I S R F L E		
UniRef90_A8MAJ8	H V N D V V I D R I Y N M L G R P M T C P		
UniRef90_C1D412	H H V S P E F I Q R L K I W I K		
UniRef90_E5WLW8	M H I L G T E V V F K I K S F I E N H K K N		
UniRef90_K6WBZ2	S A A S D R L I D Y L D D R L G Y P T R D P		
UniRef90_Q9Z8J6	H V L T E E L D H T L T E L N D P C Y D P H R		
UniRef90_W9DVX0	A F V S K D A I D T I C G A M G H P		
UniRef90_D4MUU1	H V L D E R I L T G I R M F M E		
UniRef90_R7ZZ28	H I L S S P L L I Q R M D E F L G Y P K F D P		
UniRef90_R6AH91	H Q T N E E L C S K L D A Y L G N P E Y C P		
UniRef90_UPI0003B35B2F	H S S S D K V I Q S L Y H Y L G E P K		
UniRef90_T2KHD5	H R L S H D E A D E L A A H L G H P Q F D P		

UniRef90_W1TN32
UniRef90_B5YKN5
UniRef90_V4L1V5
UniRef90_I5C1Z6
UniRef90_E6QKQ9
UniRef90_S3WZS6
UniRef90_UPI00038155A8
UniRef90_Q12UD0
UniRef90_B5ECZ6
UniRef90_W7UUF9
UniRef90_UPI00035C7EF6
UniRef90_H3NM48
UniRef90_D2MMH5
UniRef90_A9WHC8
UniRef90_D5ANL3
UniRef90_R6BYZ5
UniRef90_T0MW15
UniRef90_C2CJQ3
UniRef90_C4XPN7
UniRef90_X0XLY2
UniRef90_L7WYX3
UniRef90_F4ZYT9
UniRef90_M5SY85
UniRef90_A4G187
UniRef90_M5J9Q5
UniRef90_Q3A366
UniRef90_D3E3S7
UniRef90_Q7UIM8
UniRef90_M5AC36
UniRef90_W0J5G9
UniRef90_R7A273
UniRef90_F0QW26
UniRef90_Q39SV7
UniRef90_F0YXX0
UniRef90_R9STK2
UniRef90_F9YSE2
UniRef90_UPI00029B2CA6
UniRef90_Q1JD70
UniRef90_E1WZA1
UniRef90_I0AGW4
UniRef90_E8N2G6
UniRef90_UPI0003744608
UniRef90_X1S9U1
UniRef90_A6C9P1
UniRef90_X1HRP4
UniRef90_G8R720
UniRef90_T0SWX3
UniRef90_L9XRF2
UniRef90_B8EK93
UniRef90_D7EAJ8
UniRef90_W0JKG1
UniRef90_D5SYP1
UniRef90_A0A031LLH0
UniRef90_M0ANE9
UniRef90_W9DU02
UniRef90_X0ZVV2
UniRef90_B9DKB1
UniRef90_T0Y3S1
UniRef90_W7YE66
UniRef90_X0YRW1
UniRef90_F8D9P1
UniRef90_M0NGF7
UniRef90_J1AWR2
UniRef90_R7DY09
UniRef90_F3KN19
UniRef90_S7TX58
UniRef90_D5EQF0
UniRef90_X0YSQ0
UniRef90_T0MTM3
UniRef90_T0CIY3
UniRef90_H2C904
UniRef90_S0FFV0
UniRef90_S0ATI7
UniRef90_Q28489
UniRef90_UPI00035DBDAF
UniRef90_UPI000367CFFE
UniRef90_D4VUN9

```

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

```



```

8 0 3 8 9 9 9 9 9 9 9 9 9 9 9 9 9 8 7 4 3 8 8 8 1 6 7 8 8 7 7 7 5 3 1
B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
B B B B B B B B B B B B B B B B B B B B B B B B B B B B B

```

UniRef90_W1TN32
UniRef90_B5YKN5
UniRef90_V4L1V5
UniRef90_I5C1Z6
UniRef90_E6QKQ9
UniRef90_S3WZS6
UniRef90_UPI00038155A8
UniRef90_Q12UD0
UniRef90_B5ECZ6
UniRef90_W7UUF9
UniRef90_UPI00035C7EF6
UniRef90_H3NM48
UniRef90_D2MMH5
UniRef90_A9WHC8
UniRef90_D5ANL3
UniRef90_R6BYZ5
UniRef90_T0MW15
UniRef90_C2CJQ3
UniRef90_C4XPN7
UniRef90_X0XLY2
UniRef90_L7WYX3
UniRef90_F4ZYT9
UniRef90_M5SY85
UniRef90_A4GI87
UniRef90_M5J9Q5
UniRef90_Q3A366
UniRef90_D3E3S7
UniRef90_Q7UIM8
UniRef90_M5AC36
UniRef90_W0J5G9
UniRef90_R7A273
UniRef90_F0QW26
UniRef90_Q39SV7
UniRef90_F0YXK0
UniRef90_R9STK2
UniRef90_F9YSE2
UniRef90_UPI00029B2CA6
UniRef90_Q1JD70
UniRef90_E1WZA1
UniRef90_I0AGW4
UniRef90_E8N2G6
UniRef90_UPI0003744608
UniRef90_X1S9U1
UniRef90_A6C9P1
UniRef90_X1HRP4
UniRef90_G8R720
UniRef90_T0SWX3
UniRef90_L9XRF2
UniRef90_B8EK93
UniRef90_D7EAJ8
UniRef90_W0JGK1
UniRef90_D5SYP1
UniRef90_A0A031LLH0
UniRef90_M0ANE9
UniRef90_W9DU02
UniRef90_X0ZV2
UniRef90_B9DKB1
UniRef90_T0Y3S1
UniRef90_W7YE66
UniRef90_X0YRW1
UniRef90_F8D9P1
UniRef90_M0NGF7
UniRef90_J1AWR2
UniRef90_R7DY09
UniRef90_F3KN19
UniRef90_S7TX58
UniRef90_D5EQF0
UniRef90_X0YSQ0
UniRef90_T0MTM3
UniRef90_T0CIY3
UniRef90_H2C904
UniRef90_S0FFV0
UniRef90_S0ATI7
UniRef90_Q28489
UniRef90_UPI00035DBDAF
UniRef90_UPI000367CFFE
UniRef90_D4VUN9

50 60 70

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

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

