

QUERY UniRef90_H9GNZ7 UniRef90_UPI000383C4F6 UniRef90_V9KBC5 UniRef90_F6YG36 UniRef90_V9KGX0 UniRef90_O16152 UniRef90_F1P4J5 UniRef90_G3P063 UniRef90_AA0A16W9I8 UniRef90_F7EE44 UniRef90_V4CGA3 UniRef90_UPI0003ABBD34 UniRef90_UPI0000F501CF UniRef90_T1KUQ4 UniRef90_UPI0003C16B3A UniRef90_Q14184 UniRef90_UPI0002B47BB0 UniRef90_B3SBZ5 UniRef90_W5PUJ6 UniRef90_T1EMC2 UniRef90_H2ST38 UniRef90_H3CL09 UniRef90_Q9U8R6 UniRef90_Q9BQG1 UniRef90_C3XU80 UniRef90_UPI000273DA59 UniRef90_W5UIN7 UniRef90_UPI0002653743 UniRef90_H3CQT3 UniRef90_W5MJ80 UniRef90_UPI00038C27F5 UniRef90_UPI0004402398 UniRef90_T1J5H1 UniRef90_K7G047 UniRef90_UPI0003C8223C UniRef90_K1Q2Y6 UniRef90_Q8IV01 UniRef90_UPI0003B70A73 UniRef90_L7MHA4 UniRef90_D1ZZC0 UniRef90_O00445 UniRef90_W4YAT6 UniRef90_F1RD06 UniRef90_V9LBT8 UniRef90_H0XRK0 UniRef90_B7Z300 UniRef90_UPI0002B48E9F UniRef90_F6X7D4 UniRef90_UPI0003957373 UniRef90_L5KR99 UniRef90_E4WXF7 UniRef90_K1S333 UniRef90_H2LNQ3 UniRef90_Q9R0N6 UniRef90_UPI0003AFA406 UniRef90_UPI0002ADAE97 UniRef90_K8FE10 UniRef90_Q9TZL3 UniRef90_UPI000441FB83 UniRef90_D6X4X4 UniRef90_F7GCT1 UniRef90_UPI000298C209 UniRef90_UPI0004545073 UniRef90_UPI00044412A1 UniRef90_UPI0002A4AA1E UniRef90_UPI0003C26AF1 UniRef90_UPI000441C28A UniRef90_UPI0002A4C5F1 UniRef90_F1L554 UniRef90_G6CVD3 UniRef90_R7VH90 UniRef90_UPI00042C8D12 UniRef90_UPI00046BA449 UniRef90_T1KMI0 UniRef90_F1QYV3 UniRef90_U6PIN7 UniRef90_UPI0003AB84EC UniRef90_UPI0003EC4CAB UniRef90_E4Y6M2 UniRef90_M4A329 UniRef90_UPI00038916BF UniRef90_U3IW92 UniRef90_UPI000383FEC5 UniRef90_G0M9A8 UniRef90_UPI0003D0E7C3 UniRef90_UPI00046B5946 UniRef90_W4ZIW6 UniRef90_UPI0003F05DB3 UniRef90_P91493 UniRef90_J9E9W0 UniRef90_K1QI32

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

QUERY UniRef90_H9GNZ7 UniRef90_UPI000383C4F6 UniRef90_V9KBC5 UniRef90_F6YG36 UniRef90_V9KGX0 UniRef90_O16152 UniRef90_F1P4J5 UniRef90_G3P063 UniRef90_A0A016W9I8 UniRef90_F7EE44 UniRef90_V4CGA3 UniRef90_UPI0003ABBD34 UniRef90_UPI0000F501CF UniRef90_T1KUQ4 UniRef90_UPI0003C16B3A UniRef90_Q14184 UniRef90_UPI0002B47BB0 UniRef90_B3SBZ5 UniRef90_W5PUJ6 UniRef90_T1EMC2 UniRef90_H2ST38 UniRef90_H3CL09 UniRef90_Q9U8R6 UniRef90_Q9BQG1 UniRef90_C3XU80 UniRef90_UPI000273DA59 UniRef90_W5UIN7 UniRef90_UPI0002653743 UniRef90_H3CQT3 UniRef90_W5MJ80 UniRef90_UPI00038C27F5 UniRef90_UPI0004402398 UniRef90_T1J5H1 UniRef90_K7G047 UniRef90_UPI0003C8223C UniRef90_K1Q2Y6 UniRef90_Q8IV01 UniRef90_UPI0003B70A73 UniRef90_L7MHA4 UniRef90_D1ZZC0 UniRef90_O00445 UniRef90_W4YAT6 UniRef90_F1RD06 UniRef90_V9LBT8 UniRef90_H0XRK0 UniRef90_B7Z300 UniRef90_UPI0002B48E9F UniRef90_F6X7D4 UniRef90_UPI0003957373 UniRef90_L5KR99 UniRef90_E4WXF7 UniRef90_K1S333 UniRef90_H2LNU3 UniRef90_Q9R0N6 UniRef90_UPI0003AFA406 UniRef90_UPI0002ADAE97 UniRef90_K8FE10 UniRef90_Q9TZL3 UniRef90_UPI000441FB83 UniRef90_D6X4X4 UniRef90_F7GCT1 UniRef90_UPI000298C209 UniRef90_UPI0004545073 UniRef90_UPI00044412A1 UniRef90_UPI0002A4AA1E UniRef90_UPI0003C26AF1 UniRef90_UPI000441C28A UniRef90_UPI0002A4C5F1 UniRef90_F1L554 UniRef90_G6CVD3 UniRef90_R7VH90 UniRef90_UPI00042C8D12 UniRef90_UPI00046BA449 UniRef90_T1KMIO UniRef90_F1QYV3 UniRef90_U6PIN7 UniRef90_UPI0003AB84EC UniRef90_UPI0003EC4CAB UniRef90_E4Y6M2 UniRef90_M4A329 UniRef90_UPI00038916BF UniRef90_U3IW92 UniRef90_UPI000383FEC5 UniRef90_G0M9A8 UniRef90_UPI0003D0E7C3 UniRef90_UPI00046B5946 UniRef90_W4ZIW6 UniRef90_UPI0003F05DB3 UniRef90_P91493 UniRef90_J9E9W0 UniRef90_K1QI32

90 100 110 120

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

QUERY T G A E L R H W S D M L A N P R R P I A Q W H T L Q V E E E V D A M L A 130 140 150
UniRef90_H9GNZ7 V D L A L E E W R D L Q S A E K E E H E K
UniRef90_UPI000383C4F6 V D L G Q P I E E W R D L Q G G E K E E
UniRef90_V9KBC5 V D F G H V T E E W R D L Q G A E K E E Q
UniRef90_F6YG36 V N L Q I E D W K D L G P A G K T E H E H
UniRef90_V9KGX0 L G Q Q L E E W R D L
UniRef90_O16152 T G A G L R H W S D M L A S P R R P I A Q W H T L Q E P E E G
UniRef90_F1P4J5 V S L Q I E Q W S D L
UniRef90_G3P063 V D W N R E E W Q D L
UniRef90_A0A016W9I8 I D L G Q E E W K D I A P P P D
UniRef90_F7EE44 K G E R L K H W Y E L K N K D K K I E R W H V L Q N E N H V A S
UniRef90_V4CGA3
UniRef90_UPI0003ABBD34 V D L Q H V L E H W Y P L G P P
UniRef90_UPI0000F501CF T G N E L R H F F D L A D F P R E C I
UniRef90_T1KUQ4 T G N E L R H W M D M L A S P R R P I A Q W H S L R D T E G D
UniRef90_UPI0003C16B3A
UniRef90_Q14184 K G E R L K H W F D C L K N K D K R I E R W H T L T S E
UniRef90_UPI0002B47BB0 E S L G R D H W N E M L S Y P R K P I A H W H P L V E E S S G
UniRef90_B3SBZ5 T G Y E L K H W K E M L A S P R R P V A K W H
UniRef90_W5PUJ6 V D L T Q M Q W K D L K P C S D
UniRef90_T1EMC2 V D L G I E E W R D I E K P D N S S D R E N K L
UniRef90_H2ST38 G P G E V K H W K D M L A R P R T N V A Q W H A L K
UniRef90_H3CL09
UniRef90_Q9U8R6 I D L G R E E W K E L
UniRef90_Q9BQG1 Q P P D R P L W R D I V E
UniRef90_C3XU80 V D L G R E E W R D L
UniRef90_UPI000273DA59 F P R E C I L W K D I
UniRef90_W5UIN7 K G E R L K H W F E C L K Y K G K K V E Y W H T L
UniRef90_UPI0002653743 S P A E M S H W N E M M S K P R T N I A K W H V L K
UniRef90_H3CQT3 L G V G A P L W Y W R V L S A G A P
UniRef90_W5MJ80 L T A G Q T K N Y N I C L E R Q Q
UniRef90_UPI00038C27F5 S G Q P L Q H W A D M L A H A R R P I A Q W H H L Q S P R E V D R A L A
UniRef90_UPI0004402398 L K P S Q K K H F N I C L E R Q V P V C
UniRef90_T1J5H1 G V T E S K H W N E M I N K P R Q A I T Q W H R L K P E
UniRef90_K7G047
UniRef90_UPI0003C8223C E G T G G E H W K E I C D Y P R R Q I A K W H V L C D
UniRef90_K1Q2Y6 L Q K G V H M W K P L S P S T K E R H D
UniRef90_Q8IV01 V L D L P L Q P F S G W L Y L Q D Q N K G E I L L S
UniRef90_UPI0003B70A73 Q G D A L R H W M D C L K N K G Q R V E R W H I L T N E
UniRef90_L7MHA4
UniRef90_D1ZZC0 I G I G K D H W L E M L D N P R C P V A Q W Y P L
UniRef90_O00445 G G A G L R H W A D M L A N P R R P I A Q W H S L R P P D R V R L L P A
UniRef90_W4YAT6 I D W Q H G P F N T W L N L K P E N L G D I M F S
UniRef90_F1RD06 V D P
UniRef90_V9LBT8 K G E A L R H W F D C L K S K D N R L E R W H T L T S E
UniRef90_H0XRK0 L V P N R A R S F D I C L E K R R L T K R P K S L L Y E E E V E T E V A
UniRef90_B7Z300 L G R P V Q A W R E L Q A A P R E E
UniRef90_UPI0002B48E9F T P E A L K H W F E T L K T A D K K V I K W H T L
UniRef90_F6X7D4 L V P N Q A R S F D I C L E K W R L T K R S K S L L Y Q E E V E T E V A
UniRef90_UPI0003957373 V D P
UniRef90_L5KR99 X X X E V E K H W K D M L A R P R Q P V A Q W H Q L K
UniRef90_E4WXF7 V D L G Q E E W K E L Q A D N D K P G D I C F S L R
UniRef90_K1S333 L Q P H Q T K H F N V C L E K A I P T D K D D L L S H D R G K I L L G
UniRef90_H2LNQ3 V K P D Q T H F N I C L E H P
UniRef90_Q9R0N6 V D L Q L E S W Y Q L
UniRef90_UPI0003AFA406 X D P G R E H W A E M L A N P R K P V E H W H Q L V E E K
UniRef90_UPI0002ADAE97 L V P N R A R S F N I C L E K R R
UniRef90_K8FE10 L N L P Q E Q W A E M M T S R R P V V Q W H T L Q E R M E K E
UniRef90_Q9TZL3 S E H G Q R H W S E C V N H P E Q P V A M W H K L C P K
UniRef90_UPI000441FB83 V P G S G R L T V D V L E
UniRef90_D6X4X4 T G T A L H H W N E V C N S A R R Q I A D W H K L R
UniRef90_F7GCT1 L S R E A S V W K D I
UniRef90_UPI000298C209 T G T E Q R H W S D M L A N P R R P I A Q W H S L R H Q E E V N S L L
UniRef90_UPI0004545073 R G E A Q K H W S D L H Q P D T A L E R W H T L T S E
UniRef90_UPI00044412A1 S G M G A T H W S Q M L A T L R R P V S V W H T V R
UniRef90_UPI0002A4AA1E X X X X X N V A Q W H A L K P D Q D V D A A
UniRef90_UPI0003C26AF1 T G T E K N H W E M L R N P R R Q I A M W H Q L H
UniRef90_UPI000441C28A S R E R Q Q H W H E W L G R T D H Q L E P W H P L
UniRef90_UPI0002A4C5F1 A G T A G E H W R E I C D H P R R Q I A K W H
UniRef90_F1L554 V D F G A N I D E W R Y L D P P D E G
UniRef90_G6CVD3
UniRef90_R7VH90 S G P E V T H W N R M L Q C Q R S P V A Q W H T L M S R Q H C
UniRef90_UPI00042C8D12 L V P N R A R S F S V C X E R R R L T K R
UniRef90_UPI00046BA449 T G T E L R H W S D M L A N P R R P I A Q W H S L K P E E E V D A L L G
UniRef90_T1KMI0 S E E E M M L W K Q M L D R T D M W V Y G E L C L R S
UniRef90_F1QYV3 S G T G L Q H W K Q M L D N P R K Q I A M W H P L
UniRef90_U6PIN7 K D E R G K Q W S C I E N P G Q T F D S W H Q L E
UniRef90_UPI0003AB84EC S G E L L R H W L E C L G H S D H R L E L W H P L D S K
UniRef90_UPI0003EC4CAB L Q K G I D G W F K L L S Q E E G E
UniRef90_E4Y6M2 S G E E L R H W S D M L A S P R R P I A Q W H T L M Q G E E
UniRef90_M4A329 I D
UniRef90_UPI00038916BF H G E E Q H L W Q T M M D N P G V S V E G I L M L R S
UniRef90_U3IW92 T S D E S A L W E K M I N L P N T W V E D T I P L R
UniRef90_UPI000383FEC5 V D L Q L E L W R P L
UniRef90_G0M9A8
UniRef90_UPI0003D0E7C3 W N F E N Q R D E W F V L Q P K V E I A A D V G L Q Y K G E L T V V L
UniRef90_UPI00046B5946 S G Q P L Q H W V D M L A Q W R P L T Q W H R L Q P A R E V D R Q L
UniRef90_W4ZIW6 R G K E L E H W N D M V S H A K E P I S Q W H S L
UniRef90_UPI0003F05DB3 S I V A Q D H W M E M L R S P R K P V A Q W Y T L K
UniRef90_P91493 S H V V E V L E N P R G Q V A Q W H H L
UniRef90_J9E9W0 G G T G C H W Q D M I Q N N R K P I A M W H V L R
UniRef90_K1QI32 H G E E I S L W Q A M L D R P N I W I D G A L M L R P

UniRef90_F1P2U3
UniRef90_F6WPR6
UniRef90_K1QRG1
UniRef90_M3YC29
UniRef90_V9KH17
UniRef90_S4P6P4
UniRef90_UPI00021A6930
UniRef90_A0A023FZA0
UniRef90_T1JZH5
UniRef90_V4C4S4
UniRef90_W5K3G4
UniRef90_B4JY51
UniRef90_K1QCJ0
UniRef90_Q17FY9
UniRef90_UPI000440FC64
UniRef90_G3SWF8
UniRef90_UPI0003836D6A
UniRef90_UPI00046C2162
UniRef90_J9JN19
UniRef90_G3Q8D3
UniRef90_UPI0003502586
UniRef90_UPI0003EC664B
UniRef90_UPI0003EAABB5
UniRef90_UPI0004435713
UniRef90_UPI0003955D94
UniRef90_UPI000334146B
UniRef90_W2TXU5
UniRef90_H2RXN2
UniRef90_M4ABX5
UniRef90_F1QBP5
UniRef90_F6QSA8
UniRef90_UPI0003F0C30F
UniRef90_A0A034WIE8
UniRef90_H2TXJ7
UniRef90_UPI00034F712A
UniRef90_D2H3K5
UniRef90_UPI0004439C23
UniRef90_Q8C6N3
UniRef90_R7TK74
UniRef90_UPI000350CAFO
UniRef90_W4X3W7
UniRef90_W5J392
UniRef90_W5JAG8
UniRef90_UPI000444556B
UniRef90_Q8TDW5
UniRef90_G1SKH5
UniRef90_V4AE70
UniRef90_U3C396
UniRef90_X1ZGX1
UniRef90_UPI000258D954
UniRef90_UPI000388CBFC
UniRef90_UPI0003C2750C
UniRef90_Q17RD7
UniRef90_UPI0003F0E0B6
UniRef90_F7EBD5
UniRef90_UPI0004444088
UniRef90_I3M382
UniRef90_G3H5Z3
UniRef90_G3WNA9
UniRef90_V8P4U3
UniRef90_UPI000333A5F1
UniRef90_UPI0003870ADA
UniRef90_B4MYV2
UniRef90_P90980-3
UniRef90_Q5TVA9
UniRef90_UPI000440DCBA
UniRef90_I3LF11
UniRef90_UPI00033368A3
UniRef90_UPI000383277D
UniRef90_UPI00046B4CEE
UniRef90_G3VT11
UniRef90_W4VRG7
UniRef90_W5N3P7
UniRef90_U6IMW8
UniRef90_B0XE20
UniRef90_UPI0003318B28
UniRef90_UPI000388AFF8
UniRef90_O61224
UniRef90_K1Q682
UniRef90_G3P0H8
UniRef90_UPI0002C64FDB
UniRef90_G5BAM7
UniRef90_UPI000393FBEB
UniRef90_M4ANL4
UniRef90_UPI000443DCF3
UniRef90_G7Y864
UniRef90_I3JFB0
UniRef90_F6UII3
UniRef90_H2PBJ8
UniRef90_UPI00034F82AB
UniRef90_UPI00033147FE
UniRef90_UPI00046B2F54

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

UniRef90_F1P2U3 A D S R G N H L N S T F V V K I Y L L L P D E R S C Y L Q S K R V K R K T L N P Q F D E N D
UniRef90_F6WPR6 E R G G A S S T Q V R I L L L P T D T S K R R Y K R Q K T R A V G K T T G T S S P T F N E N
UniRef90_K1QRG1 S E R G G A S S T Q V R I L L L P T D T S K R R Y K R Q K T R A V G K T T G T S S P T F N E N
UniRef90_M3YC29 E S E S C S S T L V K L H L L L P D E R K R R F L Q S K K T K R A V G K T T G T S S P T F N E N
UniRef90_V9KH17 D P N G L S D P Y V V K L K L L L P D D K P K H D S K Q S K K T K T M R K N C L L N P H W N D E S
UniRef90_S4P6P4 D V K R N F S D P Y V V K L V L L L P D D K K K A G K R Q R T T K V I K K N T T L L N P V E E E E T
UniRef90_UPI00021A6930 D S N G F S D P F V V K L C L L L P E N V T N N H R K R Q R T T T I K K W K T L L N P V E W N E E T
UniRef90_A0A023FZA0 D M S G T S D P Y V V K V Y L L L P D D K K K K R Y E T T K V H R K A N T L L N P V F N E E T
UniRef90_T1JZH5 D P N G L S D P Y V V K C K L L L P D D G G G E G V K R K T T I K A N T L L N P V Q F H H Q
UniRef90_V4C4S4 S L L G A I N P Y V V K V E M Y V N D G G I R E A K H K R K T K V R K N T Q D P V W H H Q
UniRef90_W5K3G4 D V G G L S D P Y V V K I H L L Q N G K R L K K K K T T V V K K N T L L N P Y Y N E S T
UniRef90_B4JY51 K T N G T C D A F V C K S Y L L Q D D R T R S K K K K T T P V V K N T L L H P S F W N Y E S
UniRef90_Q1QCJ0 D V G G L S D P Y V V K I A L Y Q D D R K R L K K K K T T I K K N T L L N P S F W N Y E S
UniRef90_Q17FY9 K A N G T C D A F C K S Y L L P D D K N R S S K Q K T T V V V K R S T N S P V W N Y T
UniRef90_UPI000440FC64 N R G T I D P F V I K C A V L L P D D T A R S K G R K R V V K R N T A N P V V F N H
UniRef90_G3SWF8 D S N G L A D P Y V V K L H L L P D G A S K S N K L R T K T L R N T A N P V V W N E T
UniRef90_UPI0003836D6A D V K R N S D P Y V V K C Y L L L P D K A K Y G K K K T C V R K K T L L D P T Y N E T
UniRef90_UPI00046C2162 D K K G H S D P Y V V K T Y L L L P E D K Y K L G K K T S V V K N T T L L N P V I Y N E T
UniRef90_J9JN19 K S N G S S D P F C K S Y L L P D K G R S K Q K T N V A R K K T C N P V W N Q T
UniRef90_G3Q8D3 D N N G Y S D P F V V K V Y L L L P G R G A E N K R R S K P A G K S L L N P E W N Q T
UniRef90_UPI0003502586 K S G S S D T F V K G Y L L L P D N N K S T K H K T P V V K K T L V N P E W N H
UniRef90_UPI0003EC664B D L T G F S D P Y V V K A S L I S E D G R R L K K K T S I V K K N T L N P T Y N E T
UniRef90_UPI0003EAABB5 D E K K Q R D P Y V V K T Y L L L P D D R S R Q S K R K T S I K S N T T L N P V Y N E T
UniRef90_UPI0004435713 R K R R S D P Y V V K S Y L L L P D D S R Q S K R K T S A V K K R T L N P V Y N E T
UniRef90_UPI0003955D94 D R K G R S D P Y V V K T Y L L L P D D K A R M G K R K T S V K K R T V N P V Y N E T
UniRef90_UPI000334146B D A N G Y S D P Y V V K T E E A G H S S A G E K T N Q T C I C E T M L L P K P S A E T
UniRef90_W2TXU5 D R N G M S D P Y V V K I C L L L P D R K K K K Y F E T K I L R N S L L N P V I Y N E T
UniRef90_H2RXN2 D V I G S D P Y V V K L Y L L L P D N N K S T K H K T A V E R R T T V N P Q W N H T
UniRef90_M4ABX5 K S G G T S D P F V V K G Y L L L P D N N K S T K H K T A V E R R T T V N P Q W N H T
UniRef90_F1QBP5 E N N G Y T D P F V V K V M V V Q N D S A E N K R R T K Y I T Q K N Q N P E W N Q T
UniRef90_F6QSA8 D E K K Q R Y A V K S Y L L L P D D K S R S N K R R K T S K I R T G T N P E W N E T
UniRef90_UPI0003F0C30F D V K R N S D P Y A K T Y L L L P D D K T K N G K R K T R I K R T L L N P A F D E T A
UniRef90_A0A034WIE8 D D S R N S D P Y I K V A L L L P D D G K K I K K R T R G V T R L N P V Y N E A
UniRef90_H2TXJ7 K L G A T L D T F V K G Y L F P L K A K A S T K R K T R L V K K N L N P H Y D Y I
UniRef90_UPI00034F712A E R S G V D S W Q V H L V V L P S K K Q R G K T T T Q S T K R N T L N P V F N E A
UniRef90_D2H3K5 P Q A T G R D P Y V V K V S L M C D G R R L K K K T S T K R N T L N P V N E A
UniRef90_UPI0004439C23 D A S R V S N P Y V K C Y L L L P D D K S H Q S K R K T S I K K N T L N P V Y N E T
UniRef90_Q8C6N3 P S E T C S T L V K L H L L L P D D E R R F L Q S K T S K H K I C L N P Q F D E N
UniRef90_R7TK74 D R G Q S A D P Y V V K L F L H S S S Q S H V N R S T A T V K N T L N P N F N E T
UniRef90_UPI000350CAFO D R S G V N T W Q V H I V L M P S S K K Q R G K T S T V Q R G P V P L F K D K
UniRef90_W4X3W7 D V K R R S D P Y V V K V Y L L L P D D K S K S G K R K T K V K K H T L L N P E F N E T
UniRef90_W5J392 D F S G T A D P Y A K I R L L L P D D R N N M W Q T R I N H K K T L N P V F D E T
UniRef90_W5JAG8 D P N N I P D P Y V V K L Y L L L P G R S K E S K R K T N V V K D N C D P V F D T T
UniRef90_UPI000444556B K S G G T S D S F V V K G Y L L L P D D S K A T K H K T L V I K K S V N P Q W N H T
UniRef90_Q8TDW5 S D G T L N A S F V V K G C L T L P D D G R Q R L R L K S P V L R Q Q A C P Q W K H S
UniRef90_G1SKH5 D Y T S E S G L Y A R V I Q F Y Y G R R A H K T K K T T M Q R I H S D P E I H E S
UniRef90_V4AE70 K A G G T S D S F V V K G Y L L L P E M R N K A S K R K T P V M K K N N P H Y N H T
UniRef90_U3C396 R A N G F S D S F C K G Y L L L P E M R S R V K K K T P V I K K N V N P L W N H N
UniRef90_X1ZXG1 D V H N I P D P Y V V K L Y L L L P D D R Y K E T K R K T A V M K D N C N P V F D E Q
UniRef90_UPI000258D954 R P S G V D S F V V K C Y V L L P D D T S K S Y Q K T R V I K K R D P N P V F D H T
UniRef90_UPI000388CBFC S E E G S D P Y V R L Y L L L P D D K R S S G R K K T H V S K K T L N P V F D Q T
UniRef90_Q17RD7 A V N R A P D T Y G K L F L L N S V G Q E M S R K T S I R R G Q P N P V Y K E T
UniRef90_UPI0003F0E0B6 D K K K C N P Y V V K T Y L L L P D D R S Q Q G K R K T G V Q K K T V D P T F Q E S
UniRef90_F7EBD5 P D G T L N S F V V K G C L T L P D D S Q Q L R L K S P V L K K Q A C P Q W K H S
UniRef90_UPI0004444088 E R K R R C N P Y V V K T Y L L L P D D R S C Q G K R K T A V H K N T V D P A F H E T
UniRef90_I3M382 D R S G V N S W Q V H V L L L P S K K Q R G R T S I Q R G P H P V F I K E K
UniRef90_G3H5Z3 D E K K R S N P Y V V K T Y L L L P D D K R S Q G K R K T S I K R D T I N P L Y D E T
UniRef90_G3WNA9 D H N G L A D P Y V V K L H L L L P G A S K A N K L R T K T L R N T L N P T W N E T
UniRef90_V8P4U3 S G S C N P L V K I Y L L L P D D E R R Y L Q S K T S K R K N L N P Q F D E T
UniRef90_UPI000333A5F1 E D R S V V I L V K V S L M N H N K F V K C K K T S A V L G S A H P V Y N E T
UniRef90_UPI0003870ADA D A N G F S D P Y V V K I Y L L L P D D R K R K F Q T K V H R K T L N P V F D E T
UniRef90_B4MYV2 Q F S G T A D P Y A K I R L L L P D D K K N F W Q T R L H K K T L N P V F D E N
UniRef90_P90980-3 D P N G L S D P Y V V K C K L L L P E D S G C K K Q K T L R A T L L N P Q W N E T
UniRef90_Q5TVA9 D I K G K S D P Y A I T S V G A Q Q F R T Q T I D N T V N P K W D Y W
UniRef90_UPI000440DCBA D L C G S S D P Y V V K I Y L L L P D R K A E Y K F R T R V H R K T L N P T F N E S
UniRef90_I3LF11 D N N G Y S D P F V V K V Y L L L P D N F S A E Y K R R T K Y V V Q K S L N P E W N Q T
UniRef90_UPI00033368A3 R S G S L D T Y V Q C S V L L P D D S R A S R Q R T R V V R R S L N P M F N H T
UniRef90_UPI000383277D E E K K C N P Y V V K V Y L L L P D D K S P R S K R K T T V K K R T L N P E V N E T
UniRef90_UPI00046B4CEE D K K Q Y S D S Y V K T Y L L L P D D K G K R H K K T S V V K K T L N P V Y N E T
UniRef90_G3VT11 S G S W A R G P F T A T L P L P S Q A S Q L R T R T V R A S R G P R W D E T
UniRef90_W4VRG7 T N S Q E P N T Y V V K V I L K P D D R S K V T K R K T K V R K N C N P S F M E T
UniRef90_W5N3P7 D I K G K S D P Y V V I Q L G N D Q F R S K T V K F R S K T V K N I N P K W N E V
UniRef90_U6IMW8 S A S D Q L D P Y V V K K T K Q K N K Q K I P I N K T D V K Q N C S S A S F N E Q
UniRef90_B0XE20 D A T R S S D P Y V V K V S L H N D D G K R L K K R K T T V A R N T S V A P V Y N E A
UniRef90_UPI0003318B28 K S G G T S D S F V V K G Y L L L P D D D K K A T K H K T T V I K N S V N P Q W N H T
UniRef90_UPI000388AFF8 E K K K C N P Y A K T Y L L L P D D K S R S K R K T A V K N T V D P A F H E T
UniRef90_O61224 D A N G L A D P Y V V K L W L S D D P Q K A T K K K T E T K M K T L N P V W G E K
UniRef90_K1Q682 D R S K M S D P Y V V K L T L L L P D N E G M G E R R T A V V R Q S N D P V F D E T
UniRef90_G3P0H8 A S D K P V N T Y V V K L T M L D S K G K E M K Y K S A V C R G Q A P N P T Y K E T
UniRef90_UPI0002C64FDB S D G T L N S F V V K G C L T L L P D D Q Q K L R L K S P V L K K Q A C P Q W K H S
UniRef90_G5BAM7 Q V Y I L R D T Y V V K L T L L S M G Q E M K C K T S I R R G Q P N P V Y K E T
UniRef90_UPI000393FBEB D K K G K S D P Y G V I K I G T D L F Q S K V I H D T V N P K W N E V
UniRef90_M4ANL4 D F S G T S D P Y V V K I Y L L L P D D R K T K H Q T K V H R K S L E A V F N E Q
UniRef90_UPI000443DCF3 D D G R P R N P Y V V K I Y L L L P D D R S D K S K R R T K V K K S L E A V F N E Q
UniRef90_G7Y864 T P K D G S D P F I R L Y L L L P D D K A K N S K R K T K V L K K T L N P E W N T N
UniRef90_I3JFB0 D P N G L S D P Y V V K L K L L L P D D K N M T K Q K T R T V K S T L N P V Y D Q A
UniRef90_F6UII3 D N F G K S D P Y A K V S I G L L Q H F R S R T I Y R N L N P T W N E V
UniRef90_H2PBJ8 D P T N V P D P Y V V K L Y L L L P D D R T K D S K R K T V V K D S C M P E Y D E Q
UniRef90_UPI00034F82AB E K K K C N P Y V V K T Y L L L P D D R S K S Q G K R K T A V V Q R N T V N P A F Q E T
UniRef90_UPI00033147FE R R R R S D P Y V V K G Y L L L P D D S K Q S K R K T A V K R N L N P V F N E T
UniRef90_UPI00046B2F54

UniRef90_F1P2U3
UniRef90_F6WPR6
UniRef90_K1QRG1
UniRef90_M3YC29
UniRef90_V9KH17
UniRef90_S4P6P4
UniRef90_UPI00021A6930
UniRef90_A0A023FZA0
UniRef90_T1JZH5
UniRef90_V4C4S4
UniRef90_W5K3G4
UniRef90_B4JY51
UniRef90_K1QCJ0
UniRef90_Q17FY9
UniRef90_UPI000440FC64
UniRef90_G3SWF8
UniRef90_UPI0003836D6A
UniRef90_UPI00046C2162
UniRef90_J9JN19
UniRef90_G3Q8D3
UniRef90_UPI0003502586
UniRef90_UPI0003EC664B
UniRef90_UPI0003EAABB5
UniRef90_UPI0004435713
UniRef90_UPI0003955D94
UniRef90_UPI000334146B
UniRef90_W2TXU5
UniRef90_H2RXN2
UniRef90_M4ABX5
UniRef90_F1QBP5
UniRef90_F6QSA8
UniRef90_UPI0003F0C30F
UniRef90_A0A034WIE8
UniRef90_H2TXJ7
UniRef90_UPI00034F712A
UniRef90_D2H3K5
UniRef90_UPI0004439C23
UniRef90_Q8C6N3
UniRef90_R7TK74
UniRef90_UPI000350CAFO
UniRef90_W4X3W7
UniRef90_W5J392
UniRef90_W5JAG8
UniRef90_UPI000444556B
UniRef90_Q8TDW5
UniRef90_G1SKH5
UniRef90_V4AE70
UniRef90_U3C396
UniRef90_X1ZGX1
UniRef90_UPI000258D954
UniRef90_UPI000388CBFC
UniRef90_UPI0003C2750C
UniRef90_Q17RD7
UniRef90_UPI0003F0E0B6
UniRef90_F7EBD5
UniRef90_UPI0004444088
UniRef90_I3M382
UniRef90_G3H5Z3
UniRef90_G3WNA9
UniRef90_V8P4U3
UniRef90_UPI000333A5F1
UniRef90_UPI0003870ADA
UniRef90_B4MYV2
UniRef90_P90980-3
UniRef90_Q5TVA9
UniRef90_UPI000440DCBA
UniRef90_I3LF11
UniRef90_UPI00033368A3
UniRef90_UPI000383277D
UniRef90_UPI00046B4CEE
UniRef90_G3VT11
UniRef90_W4VRG7
UniRef90_W5N3P7
UniRef90_U6IMW8
UniRef90_B0XE20
UniRef90_UPI0003318B28
UniRef90_UPI000388AFF8
UniRef90_O61224
UniRef90_K1Q682
UniRef90_G3P0H8
UniRef90_UPI0002C64FDB
UniRef90_G5BAM7
UniRef90_UPI000393FBEB
UniRef90_M4ANL4
UniRef90_UPI000443DCF3
UniRef90_G7Y864
UniRef90_I3JFB0
UniRef90_F6UII3
UniRef90_H2PBJ8
UniRef90_UPI00034F82AB
UniRef90_UPI00033147FE
UniRef90_UPI00046B2F54

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

UniRef90_F1P2U3
UniRef90_F6WPR6
UniRef90_K1QRG1
UniRef90_M3YC29
UniRef90_V9KH17
UniRef90_S4P6P4
UniRef90_UPI00021A6930
UniRef90_A0A023FZA0
UniRef90_T1JZH5
UniRef90_V4C4S4
UniRef90_W5K3G4
UniRef90_B4JY51
UniRef90_K1QCJ0
UniRef90_Q17FY9
UniRef90_UPI000440FC64
UniRef90_G3SWF8
UniRef90_UPI0003836D6A
UniRef90_UPI00046C2162
UniRef90_J9JN19
UniRef90_G3Q8D3
UniRef90_UPI0003502586
UniRef90_UPI0003EC664B
UniRef90_UPI0003EAABB5
UniRef90_UPI0004435713
UniRef90_UPI0003955D94
UniRef90_UPI000334146B
UniRef90_W2TXU5
UniRef90_H2RXN2
UniRef90_M4ABX5
UniRef90_F1QBP5
UniRef90_F6QSA8
UniRef90_UPI0003F0C30F
UniRef90_A0A034WIE8
UniRef90_H2TXJ7
UniRef90_UPI00034F712A
UniRef90_D2H3K5
UniRef90_UPI0004439C23
UniRef90_Q8C6N3
UniRef90_R7TK74
UniRef90_UPI000350CAFO
UniRef90_W4X3W7
UniRef90_W5J392
UniRef90_W5JAG8
UniRef90_UPI000444556B
UniRef90_Q8TDW5
UniRef90_G1SKH5
UniRef90_V4AE70
UniRef90_U3C396
UniRef90_X1ZGX1
UniRef90_UPI000258D954
UniRef90_UPI000388CBFC
UniRef90_UPI0003C2750C
UniRef90_Q17RD7
UniRef90_UPI0003F0E0B6
UniRef90_UPI0003F7EBD5
UniRef90_UPI0004444088
UniRef90_I3M382
UniRef90_G3H5Z3
UniRef90_G3WNA9
UniRef90_V8P4U3
UniRef90_UPI000333A5F1
UniRef90_UPI0003870ADA
UniRef90_B4MYV2
UniRef90_P90980-3
UniRef90_Q5TVA9
UniRef90_UPI000440DCBA
UniRef90_I3LF11
UniRef90_UPI00033368A3
UniRef90_UPI000383277D
UniRef90_UPI00046B4CEE
UniRef90_G3VT11
UniRef90_W4VRG7
UniRef90_UPI00035N3P7
UniRef90_U6IMW8
UniRef90_B0XE20
UniRef90_UPI0003318B28
UniRef90_UPI000388AFF8
UniRef90_O61224
UniRef90_K1Q682
UniRef90_G3P0H8
UniRef90_UPI0002C64FDB
UniRef90_G5BAM7
UniRef90_UPI000393FBEB
UniRef90_M4ANL4
UniRef90_UPI000443DCF3
UniRef90_G7Y864
UniRef90_I3JFB0
UniRef90_F6UII3
UniRef90_H2PBJ8
UniRef90_UPI00034F82AB
UniRef90_UPI00033147FE
UniRef90_UPI00046B2F54

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

UniRef90_J9ABB2
UniRef90_AOA016U119
UniRef90_A7RY7
UniRef90_AOA034WT17
UniRef90_UPI000334006B
UniRef90_E2C103
UniRef90_B4HH38
UniRef90_U4UA45
UniRef90_UPI000203658E
UniRef90_UPI0003EC0149
UniRef90_UPI00046BD18F
UniRef90_H2RKY7
UniRef90_D6WLV9
UniRef90_M4ADQ2
UniRef90_B3SDG8
UniRef90_G5ALU1
UniRef90_G1PS49
UniRef90_UPI0001EDC859
UniRef90_F6YVS1
UniRef90_Q17P39
UniRef90_F1NFA6
UniRef90_F4WNI8
UniRef90_UPI000265922B
UniRef90_Q4RR75
UniRef90_UPI0003BD4C28
UniRef90_UPI000440B646
UniRef90_UPI0003C8A40A
UniRef90_A9UYF8
UniRef90_H2SAK7
UniRef90_UPI0004407147
UniRef90_H2U3A6
UniRef90_UPI000388AFFC
UniRef90_F7F415
UniRef90_E0VY17
UniRef90_UPI0004445CF8
UniRef90_L5M388
UniRef90_UPI0001CBA7C4
UniRef90_T2M398
UniRef90_UPI000237F69F
UniRef90_UPI00035971B2
UniRef90_G3Q9J8
UniRef90_UPI00022AF405
UniRef90_H2SJ84
UniRef90_C3YVH2
UniRef90_W4XAE9
UniRef90_V3ZWG3
UniRef90_UPI000393D026
UniRef90_U4U462
UniRef90_G1KHA9
UniRef90_UPI0003599BA5
UniRef90_UPI0003503B2C
UniRef90_I3JA22
UniRef90_L8H271
UniRef90_B9IQF5
UniRef90_UPI0003EAD9FA
UniRef90_U5EHK3
UniRef90_UPI00034FCCAB
UniRef90_M7BSD2
UniRef90_UPI000252B55D
UniRef90_H0YR35
UniRef90_E2AYX5
UniRef90_U6NTE7
UniRef90_M4ARG2
UniRef90_UPI00042B8706
UniRef90_E6ZHT7
UniRef90_R7TE74
UniRef90_G3P6L2
UniRef90_UPI0002ADA376
UniRef90_V7ALV4
UniRef90_W5M2W0
UniRef90_UPI0003B5936E
UniRef90_L5LVK7
UniRef90_E2BJ73
UniRef90_U6HXL2
UniRef90_H0ZMP8
UniRef90_I1GYX8
UniRef90_V9KF14
UniRef90_F6YDA0
UniRef90_K7VGI8
UniRef90_UPI0003AE2E7E
UniRef90_UPI000387D685
UniRef90_E0VWR1
UniRef90_A9TQF1
UniRef90_R0FRZ6
UniRef90_UPI0002A4B048
UniRef90_W5NXB0
UniRef90_A8X4B6
UniRef90_UPI0004575E0B
UniRef90_G1KV00
UniRef90_F7HDU2
UniRef90_M4CTQ0
UniRef90_AOA016W4M0

1 10 20 30 40
RGTIQFTLRYS AQQMKLHVRLTGAKNLRAM
QPRGEVEMSI RYADATRKL VVQLRAKQLLPW
KLGQVHFETVQYDLRRRTVLT VRLIKALINLSP
LGRLRHLRVRKYDYHLFDLTVHLIEAHNLCP
LGEIQLSLKNQKKGYLEIEVIVRAKDKLMAK
VALKMPPEGLRRIHVVEAKDKLMMKK
NPEPEGLRRIHVVEAKDKLMMKK
STCSAHSMQHGGELLLGLCYNAITGR LGLVVEVVKGS HFRNL
LYCRLVVEGKELPAK
SGCGSGN GQVVKLSLSYASQERK LVIIVHACRGLLSQ
RGDVVKIGFNFFVNFMEVTVFEAKDILNV
MGDIQISGMVY RKRRLDVEVRRARGLVGLK
NEHRLGRLEISLEYNE PRQKLVTVHRRVSNLPLK
ELGGEVVKLSLSY KNDKLFIMVTHIRNGLQL
PGNLRGRIFWFSWEY QPSDERLTVDSIKLRNLQNR
MGDIQIGME DKKQGLEVEVIRARSLQKPR
QLGMLHFS TQYD LHLNHLTVRVLIEARDLPPR
GGE LRRRLGGEVQLTVRYVCLRRCLSVL INGCNRLT
DAPQVLRGQLSVKLVYDKVGHQLIVNVLQATDLP
S VGGGRVQLKLVGFDPSSQLQIVTLIQAATDLP
LGEIQLSLKNQKKGYLEIEVIVRAKDKLMAK
GGFRA PPLGELMVSISYQVSI EKLVIRARSLPL
LGRIFWFGLDYDAPTERL LVKIVKCRNLP
AASN LAASGRGRKILAIRYLPQNGEHLVWKECRG
GRLSVKLVYDKVGHQLIVNVLQATDLP
MGEIKVALKKEMKTEQLVLEILQCNIT YK
E VQGGELHLLRLEFVPRACNRLRC SVLEARDL
CGVDLQERRRGRFLDLRFRFS DKSNKLTIVYVGD
FGEIHLTIRYATLRNKLTIIVDA CRNLP
SASSTQSLSHGGELLVYGLSYNATTRGR LSVEM
SSGDFGTVEVRGRIRQLQFS LGYDTRREELV
LQQLFILLYQALANRIKVLV RKAENLR
GEIQLQILNYD LIGNLTIHLVQARSLV
ELLIGL LAYNGTTRGR LSVELVKGHFRN
LRFPLPGGVIRIHLLEAENLAQK
E SYGTLSLKLRFYDKVGHQLTVTLI
GQLQIKLVYDELSHRLNVLHRAKSDLP
GRLLQKLGLGYDQNTLQLTVTLVCA
LSTIVTVEGRNLPAK
DFGDIEVQGSIQFALNYIQKLLQEFHIFV
VPRALGQLFLQLYQTLAQRLIKV FV
GDLVQGNMF SINIQKLR EFHIFV
DVMGELKVISIKYKSDQSLLLVKVV
FSRHDALIGEVLVRI NDVDVSR
QGEIKLSLHY KKKDFHVMIHVRN
SEGLLRITLLEAQS LVAK
LGD IQLSLCH QRGVLEVEILRARGL
LRSPLPRGRGIVRVYLMEAKDLQSK
VDTVGELLSLSYLPPTAE RLVVVKAKNL
E VQGGEIHLRVELEEGEGR LRC
MRFPPLR GVVVHLLLEARDLVAK
QVWISVCEARELPRM
KLVEVHDACDMLMPK
SSGEFGTLDVKGSVQFALRYDTQKEEL
VGRVWFTLKYEAATERLQVHIKAKHL
LGLQLQLTAWYHTDERKLVVHSCRKL
QLRHLIRRGMNLVAM
RYSILNTLQRI RDVGH LTVKVVRAQGLAA
K LFFPEPDG VRLKIIEAKNLENR
SELGDVQISLSYSSSLQRLSLVVLGARGL
LIVRVVKAKDLP
R LCFSVIEYRHSSEQLMVSLLRGLNLP
KLESLGSLSVRWFEPNHERLVRVRLS
GELELAVAFNTDTSCLREITVGA
LGGQVKLTVWYYS EERKLVSTVHGC
GEGVFNIRSKVYMS PKLWYL RVNV
ADNGNSAGQVVKLTIGYSAD ESR LFI
NR CGRLSVRYEAAEAEVRLVVEV
EILIGLAVNGTGR LSV EIKGSHFR
DEGVTPSFGELIELLITFDYDQSLTA
LRFVPLVRGVIRVHLLLEAENLVQK
RLLVHVIDARNLPVI
E LQVGT CFQA I NSRIQLQILKAQNL
RLVVRVIEARGLPP
LGR LWF SVIEYRQEAE RLVGLIKARLRA
LKD VIGFLVQVKVIRAEGLMAA
LGD IQLSLCY KKG HLEVEVRRARGLQA
MTVTLIEGENLSP
VEPMEFLFIKIVKARDLPHM
TEGLLRIRIHLVLAGONLVPK
K VGGVVKLSISY KNNKLFIMVHTRGL
QVFLKLVQHN SVKNTLVFVGHVKNL
SSANS LDNRGNLKVAVLRHLPKTGEV
RGLVSVTLIEGRELKAAM
LKVSVMRARNL LAK
VEPMEFLVYVRVVKARNLPTM
KYGLNVRAYYNTSSQTLVLDV LGAQVITPL

UniRef90_J9ABB2
UniRef90_A0A016U119
UniRef90_A7RY77
UniRef90_A0A034WT17
UniRef90_UPI000334006B
UniRef90_E2C103
UniRef90_B4HH38
UniRef90_U4UA45
UniRef90_UPI000203658E
UniRef90_UPI0003EC0149
UniRef90_UPI00046BD18F
UniRef90_H2RKY7
UniRef90_D6WLV9
UniRef90_M4ADQ2
UniRef90_B3SDG8
UniRef90_G5ALU1
UniRef90_G1PS49
UniRef90_UPI0003EDC859
UniRef90_F6YVS1
UniRef90_Q17P39
UniRef90_F1NFA6
UniRef90_F4WNI8
UniRef90_UPI000265922B
UniRef90_Q4RR75
UniRef90_UPI0003BD4C28
UniRef90_UPI000440B646
UniRef90_UPI0003C8A40A
UniRef90_A9UYF8
UniRef90_H2SAK7
UniRef90_UPI0004407147
UniRef90_H2U3A6
UniRef90_UPI000388AFFC
UniRef90_F7F415
UniRef90_E0YY17
UniRef90_UPI0004445CF8
UniRef90_L5M388
UniRef90_UPI0001CBA7C4
UniRef90_T2M398
UniRef90_UPI000237F69F
UniRef90_UPI00035971B2
UniRef90_G3Q9J8
UniRef90_UPI00022AF405
UniRef90_H2SJ84
UniRef90_C3YVH2
UniRef90_W4XAE9
UniRef90_V3ZWG3
UniRef90_UPI000393D026
UniRef90_U4U462
UniRef90_G1KHA9
UniRef90_UPI0003599BA5
UniRef90_UPI0003503B2C
UniRef90_I3JA22
UniRef90_L8H271
UniRef90_B9IQF5
UniRef90_UPI0003EAD9FA
UniRef90_U5EHK3
UniRef90_UPI00034FCCAB
UniRef90_M7BSD2
UniRef90_UPI000252B55D
UniRef90_H0YR35
UniRef90_E2AYX5
UniRef90_U6NTE7
UniRef90_M4ARG2
UniRef90_UPI00042B8706
UniRef90_E6ZHT7
UniRef90_R7TE74
UniRef90_G3P6L2
UniRef90_UPI0002ADA376
UniRef90_V7ALV4
UniRef90_W5M2W0
UniRef90_UPI0003B5936E
UniRef90_L5LVK7
UniRef90_E2BJ73
UniRef90_U6HXL2
UniRef90_H0ZMP8
UniRef90_I1GYX8
UniRef90_V9KF14
UniRef90_F6YDA0
UniRef90_K7VG18
UniRef90_UPI0003AE2E7E
UniRef90_UPI000387D685
UniRef90_E0VWR1
UniRef90_A9TQF1
UniRef90_R0FRZ6
UniRef90_UPI0002A4B048
UniRef90_W5NXB0
UniRef90_A8X4B6
UniRef90_UPI0004575E0B
UniRef90_G1KV00
UniRef90_F7HDU2
UniRef90_M4CTQ0
UniRef90_A0A016W4M0

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

UniRef90_J9ABB2
UniRef90_A0A016U119
UniRef90_A7RY77
UniRef90_A0A034WT17
UniRef90_UPI000334006B
UniRef90_E2C103
UniRef90_B4HH38
UniRef90_U4UA45
UniRef90_UPI000203658E
UniRef90_UPI0003EC0149
UniRef90_UPI00046BD18F
UniRef90_H2RKY7
UniRef90_D6WLV9
UniRef90_M4ADQ2
UniRef90_B3SDG8
UniRef90_G5ALU1
UniRef90_G1PS49
UniRef90_UPI0003EDC859
UniRef90_F6YVS1
UniRef90_Q17P39
UniRef90_F1NFA6
UniRef90_F4WN18
UniRef90_UPI000265922B
UniRef90_Q4RR75
UniRef90_UPI0003BD4C28
UniRef90_UPI000440B646
UniRef90_UPI0003C8A40A
UniRef90_A9UYF8
UniRef90_H2SAK7
UniRef90_UPI0004407147
UniRef90_H2U3A6
UniRef90_UPI000388AFFC
UniRef90_F7F415
UniRef90_E0VY17
UniRef90_UPI0004445CF8
UniRef90_L5M388
UniRef90_UPI0001CBA7C4
UniRef90_T2M398
UniRef90_UPI000237F69F
UniRef90_UPI00035971B2
UniRef90_G3Q9J8
UniRef90_UPI00022AF405
UniRef90_H2SJ84
UniRef90_C3YVH2
UniRef90_W4XAE9
UniRef90_V3ZWG3
UniRef90_UPI000393D026
UniRef90_U4U462
UniRef90_G1KHA9
UniRef90_UPI0003599BA5
UniRef90_UPI0003503B2C
UniRef90_I3JA22
UniRef90_L8H271
UniRef90_B9IQF5
UniRef90_UPI0003EAD9FA
UniRef90_U5EHK3
UniRef90_UPI00034FCCAB
UniRef90_M7BSD2
UniRef90_UPI000252B55D
UniRef90_H0YR35
UniRef90_E2AYX5
UniRef90_U6NTE7
UniRef90_M4ARG2
UniRef90_UPI00042B8706
UniRef90_E6ZHT7
UniRef90_R7TE74
UniRef90_G3P6L2
UniRef90_UPI0002ADA376
UniRef90_V7ALV4
UniRef90_W5M2W0
UniRef90_UPI0003B5936E
UniRef90_L5LVK7
UniRef90_E2BJ73
UniRef90_U6HXL2
UniRef90_H0ZMP8
UniRef90_U11GYX8
UniRef90_V9KF14
UniRef90_F6YDA0
UniRef90_K7VG18
UniRef90_UPI0003AE2E7E
UniRef90_UPI000387D685
UniRef90_E0VWR1
UniRef90_A9TQF1
UniRef90_R0FRZ6
UniRef90_UPI0002A4B048
UniRef90_W5NXB0
UniRef90_A8X4B6
UniRef90_UPI0004575E0B
UniRef90_G1KV00
UniRef90_F7HDU2
UniRef90_M4CTQ0
UniRef90_A0A016W4M0

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

UniRef90_J9ABB2 L K N E E E K F Y N L C L

UniRef90_A0A016U119 L D N W S Q Q W I R L

UniRef90_A7RY7

UniRef90_A0A034WT17 L D K S V E I W S D L L

UniRef90_UPI000334006B S G Q P L Q H W A D M L A H A W Q T V A Q W H H L W P A E E V E R A L G

UniRef90_E2C103 L N L N D P V T G W Y K L

UniRef90_B4HH38 V I K K V D S W L T L E D A K H V R L Q W Y K L T D P N D L Q Q I L

UniRef90_U4UA45 S G E E L A H W M D M K E F Q Q E Q V C R W H I L

UniRef90_UPI000203658E Q L R G I D S W L S L V P H P D Q E V Q G E I H L E V K

UniRef90_UPI0003EC0149 V I N L V S G V T E W F T L K D E A E

UniRef90_UPI00046BD18F I T T S P G S S L T E W Y R L

UniRef90_H2RKY7 L D L S N M V I G W F K L F P A T S V D P A L A

UniRef90_D6WLV9 L S E R Y R E W F D L C P K S

UniRef90_M4ADQ2 L V P G Q H W V D W H R L

UniRef90_B3SDG8 L D T S S K K W K D I

UniRef90_G5ALU1 L D L S S M V I G W Y K L F P P S S L

UniRef90_G1PS49 V D K G G H W W K A L I P S S Q

UniRef90_UPI0003EDC859 L T K G F S Q W Y E L

UniRef90_F6YVS1 L L D D E P H W Y K L Q T H D E S P L P Q P S P F L P R R H I L

UniRef90_Q17P39 Y P L D D E E W F N L Q P H S E N L R D A V Q P G N E L D M I L S

UniRef90_F1NFA6 L T K G F T Q W Y E L T R S R R K

UniRef90_F4WNI8 S G S C Q K E L F Q R V L S G K G A S A Q W L P L S E P E

UniRef90_UPI000265922B L D

UniRef90_Q4RR75 T P A E V A F W E R M K S T P N K W V E D V L P L R

UniRef90_UPI0003BD4C28 L L D D K P H W Y P L K Q T H S S I P L P Q P S P Y L P R R H I D A

UniRef90_UPI000440B646 V D M R K R A W H K L V A S S

UniRef90_UPI0003C8A40A I A D P Q T G W Y K L L D K Q Q E E G W F R L Q P

UniRef90_A9UYF8 V S K G V T Q W Y G L

UniRef90_H2SAK7 S G E E Q D H W E M K E T K G Q Q V C R W H T L

UniRef90_UPI0004407147 W D W T N T Q S V W Q A L Q P R

UniRef90_H2U3A6 P E A G L L H W K E M C R G Q V E S A R W H V I Q P

UniRef90_UPI000388AFFC Y D T S H L D T P R W Y P L K Q T E S I D

UniRef90_F7F415 S G E E L S H W N D M R D A K G E I C R W H V L

UniRef90_E0VY17 V L L D D E P H W Y K L Q T H D V S S F P L P H P

UniRef90_UPI0004445CF8 Y S N E

UniRef90_L5M388 V G T

UniRef90_UPI0001CBA7C4 H I L D D E A E W Y Q L Q P H Q D T S Y L L

UniRef90_T2M398

UniRef90_UPI000237F69F W D F N N T H I N E C A L K S K

UniRef90_UPI00035971B2 S E E G Q K H W R E I C S R G Q I E T T R W H T I Q S

UniRef90_G3Q9J8 W D F G H T R M N Y F P L K S R T P

UniRef90_UPI00022AF405 L E P N Q V L T N W Y P L Q E E

UniRef90_H2SJ84 G G L G Q D Q W T E M V Q T P R K P V S V W H T L R P

UniRef90_C3YVH2 L D L S Q E D T R W H P L Q

UniRef90_W4XAE9 I I S S Q Y L D Q W Y T L N D V K S G R V R L

UniRef90_V3ZWG3 L M Q A L E E W F P L Q D G G R A R V H E W H T L M S D S K L D Q V L

UniRef90_UPI000393D026 L Q A A G H Q E G W F R L Q P D T

UniRef90_U4U462 V K R E M D Q W F P V D G A L H G E V H Q W F S L Q S D T S L

UniRef90_G1KHA9 I K D Q L L H E K F H P I Q P M S E K E

UniRef90_UPI0003599BA5 V P L L S D S E A L D L Q R Y P L E K R G K G D I A L

UniRef90_UPI0003503B2C W D W T N T Q W Y D L S P R V Q M T I D

UniRef90_I3JA22 V T T E L D T W L T L E Q A K H G L V H T W L S L S S K N D L R A A L

UniRef90_L8H271 L D

UniRef90_B9IQF5 V D L T Q S

UniRef90_UPI0003EAD9FA L D L G Q P Q

UniRef90_U5EHK3 L E L N R Q

UniRef90_UPI00034FCCAB M R N G E K R W Y A L K D K K L R G R A K

UniRef90_M7BSD2 I R G L Q L Q H W M D M I N K A Q E P V R M W H G L

UniRef90_UPI000252B55D I P T R V P D S P L A Q W Y R L E D R R R G D V M L A

UniRef90_H0YR35 L G Q G R V L W R D L E T E D D T Q C S E

UniRef90_E2AYX5 R E A E S D H W H K L M Q R P G V E L D S Q H

UniRef90_U6NTE7 W F E D T D S Q L F N W Y P L C P K A E

UniRef90_M4ARG2 L S Q G V A R W Y D L M D D K D K

UniRef90_UPI00042B8706 F E K R L D Q R P V H S R W F S L E

UniRef90_E6ZHT7 K P Q G L D G W V S L T E D P D E E V Q G E I H L Q I A V L G D Q

UniRef90_R7TE74 L D L G V T Q W Y D L I A

UniRef90_G3P6L2 I G G L V R P Q V G G S T R T G Q P I T L H L R R P R A Q V R S A L

UniRef90_UPI0002ADA376 S G E E L Q H W N D M T A R Q P T Q V Q R W H S L

UniRef90_V7ALV4 K E A G Q P H W Y K L

UniRef90_W5M2W0 V M N D R T V D E W F P L S K T T S G H L H L

UniRef90_UPI0003B5936E V L D A D H R S L G T Q W Y Q L Q P K S K

UniRef90_L5LVK7 S P Q G V D S W L C L S E D P D E E V Q G E I H L Q I E

UniRef90_E2BJ73 S S E A A D Q W T D T I Q H P E K V V T K W H K L N P

UniRef90_U6HXL2 V L D A D N R T L G T Q W Y Q L Q P K S K

UniRef90_H0ZMP8 I Q N G E Q K A Y V L K N K

UniRef90_I1GYX8 L D L S V I G W Y K L

UniRef90_V9KFI4 Q S P E

UniRef90_F6YDA0 I P T R V A P D S P L A E W Y R V N I E K G G D I M L A

UniRef90_K7VGI8 I I D A Q D Q W Y D V K S G R V H L V L E W V P T S S E D R L D Q A L

UniRef90_UPI0003AE2E7E L D L A Q E K T G W F A L G S R S P

UniRef90_UPI000387D685 L Y Q A K E S R K S Q R V V E G W F Q

UniRef90_A9TQF1 T E E E A F L W N K M L M E P N V W V E N M L P L R

UniRef90_R0FRZ6 L S R E H T H K L E L

UniRef90_UPI0002A4B048 V P T R V A P D S P L A E W Y V V N V E R G G E I M L A

UniRef90_W5NXB0 V P

UniRef90_A8X4B6

UniRef90_UPI0004575E0B

UniRef90_G1KV00

UniRef90_F7HDU2

UniRef90_M4CTQ0

UniRef90_A0A016W4M0

UniRef90_F2ULH9
UniRef90_I1KTK3
UniRef90_I3M3F9
UniRef90_Q8C8C0
UniRef90_V8P3S0
UniRef90_UPI0004571BC5
UniRef90_UPI0003DED19E
UniRef90_UPI00038BF3BE
UniRef90_W5P888
UniRef90_W6N9L5
UniRef90_S8CSY1
UniRef90_B9N6X2
UniRef90_G7YS30
UniRef90_F6GUA2
UniRef90_E1C1H8
UniRef90_UPI0003596B55
UniRef90_G7ZV87
UniRef90_G1T2D6
UniRef90_Q80TT2
UniRef90_T111Y3
UniRef90_UPI0002BD1272
UniRef90_UPI000333B087
UniRef90_M4AL42
UniRef90_E9IA52
UniRef90_UPI00034F5F3D
UniRef90_H3CVA4
UniRef90_M5XLX5
UniRef90_B9S748
UniRef90_Q9UT00
UniRef90_L5KGX9
UniRef90_UPI000454B181
UniRef90_UPI00044396D4
UniRef90_L5KZG0
UniRef90_UPI0003F0F473
UniRef90_E9FU76
UniRef90_UPI00035933B6
UniRef90_UPI0003F0A705
UniRef90_O76835
UniRef90_M3ZYU0
UniRef90_I1KW96
UniRef90_I1LJ17
UniRef90_M5WFC9
UniRef90_A5AXU7
UniRef90_UPI000457298F
UniRef90_B4N6E6
UniRef90_B0WPS1
UniRef90_H3D1S9
UniRef90_C3YNP3
UniRef90_UPI000359AE2C
UniRef90_UPI00039599DB
UniRef90_A5AVW0
UniRef90_UPI00022B2C07
UniRef90_U6HRZ1
UniRef90_W5FJ27
UniRef90_F7INX0
UniRef90_H2KPI2
UniRef90_F6VKB5
UniRef90_A0A016RUL7
UniRef90_V7B2R9
UniRef90_A0A059CI48
UniRef90_UPI00042B5A73
UniRef90_COM0V2
UniRef90_H3DC69
UniRef90_UPI0002653F04
UniRef90_A0JJX4
UniRef90_B3SBM2
UniRef90_H2VEK3
UniRef90_F1L288
UniRef90_UPI0003595B55
UniRef90_Q9LEX1
UniRef90_UPI00042C2B17
UniRef90_Q5BVG7
UniRef90_G1K875
UniRef90_X1WBE2
UniRef90_UPI00044366BB
UniRef90_U3JE60
UniRef90_UPI0003503BBA
UniRef90_UPI000462B2F65
UniRef90_A9TUU2
UniRef90_UPI0002ADBCFD
UniRef90_UPI0001A46D6C
UniRef90_T1G9G4
UniRef90_B9GPS3
UniRef90_F7E3S7
UniRef90_G0R5B9
UniRef90_G3VWJ9
UniRef90_S2JPE1
UniRef90_E3RID5
UniRef90_B3S2U9
UniRef90_C5DUB4
UniRef90_K3Y3F1
UniRef90_G8ZSR8

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

UniRef90_F2ULH9
UniRef90_I1KTK3
UniRef90_I3M3F9
UniRef90_Q8C8C0
UniRef90_V8P3S0
UniRef90_UPI0004571BC5
UniRef90_UPI0003DED19E
UniRef90_UPI00038BF3BE
UniRef90_W5P888
UniRef90_W6N9L5
UniRef90_S8CSY1
UniRef90_B9N6X2
UniRef90_G7YS30
UniRef90_F6GUA2
UniRef90_E1C1H8
UniRef90_UPI0003596B55
UniRef90_G7ZV87
UniRef90_G1T2D6
UniRef90_Q80TT2
UniRef90_T11Y3
UniRef90_UPI0002BD1272
UniRef90_UPI000333B087
UniRef90_M4AL42
UniRef90_E9IA52
UniRef90_UPI00034F5F3D
UniRef90_H3CVA4
UniRef90_M5XLX5
UniRef90_B9S748
UniRef90_Q9UT00
UniRef90_L5KGX9
UniRef90_UPI000454B181
UniRef90_UPI00044396D4
UniRef90_L5KZG0
UniRef90_UPI0003F0F473
UniRef90_E9FU76
UniRef90_UPI00035933B6
UniRef90_UPI0003F0A705
UniRef90_O76835
UniRef90_M3ZYU0
UniRef90_I1KW96
UniRef90_I1LJ17
UniRef90_M5WFC9
UniRef90_A5AXU7
UniRef90_UPI000457298F
UniRef90_B4N6E6
UniRef90_B0WPS1
UniRef90_H3D1S9
UniRef90_C3YNP3
UniRef90_UPI000359AE2C
UniRef90_UPI00039599DB
UniRef90_A5AVW0
UniRef90_UPI00022B2C07
UniRef90_U6HRZ1
UniRef90_W5FJ27
UniRef90_F7INX0
UniRef90_H2KPI2
UniRef90_F6VKB5
UniRef90_A0A016RUL7
UniRef90_V7B2R9
UniRef90_A0A059CI48
UniRef90_UPI00042B5A73
UniRef90_COM0V2
UniRef90_H3DC69
UniRef90_UPI0002653F04
UniRef90_A0JJX4
UniRef90_B3SBM2
UniRef90_H2VEK3
UniRef90_F1L288
UniRef90_UPI0003595B55
UniRef90_Q9LEX1
UniRef90_UPI00042C2B17
UniRef90_Q5BVG7
UniRef90_G1K875
UniRef90_X1WBE2
UniRef90_UPI00044366BB
UniRef90_U3JE60
UniRef90_UPI0003503BBA
UniRef90_UPI000462B2F65
UniRef90_A9TUU2
UniRef90_UPI0002ADBCFD
UniRef90_UPI0001A46D6C
UniRef90_T1G9G4
UniRef90_B9GPS3
UniRef90_F7E3S7
UniRef90_G0R5B9
UniRef90_G3VWJ9
UniRef90_S2JPE1
UniRef90_E3RID5
UniRef90_B3S2U9
UniRef90_C5DUB4
UniRef90_K3Y3F1
UniRef90_G8ZSR8

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

UniRef90_F2ULH9
UniRef90_I1KTK3
UniRef90_I3M3F9
UniRef90_Q8C8C0
UniRef90_V8P3S0
UniRef90_UPI0004571BC5
UniRef90_UPI0003DED19E
UniRef90_UPI00038BF3BE
UniRef90_W5P888
UniRef90_W6N9L5
UniRef90_S8CSY1
UniRef90_B9N6X2
UniRef90_G7YS30
UniRef90_F6GUA2
UniRef90_E1C1H8
UniRef90_UPI0003596B55
UniRef90_G7ZV87
UniRef90_G1T2D6
UniRef90_Q80TT2
UniRef90_T111Y3
UniRef90_UPI0002BD1272
UniRef90_UPI000333B087
UniRef90_M4AL42
UniRef90_E9IA52
UniRef90_UPI00034F5F3D
UniRef90_H3CVA4
UniRef90_M5XLX5
UniRef90_B9S748
UniRef90_Q9UT00
UniRef90_L5KGX9
UniRef90_UPI000454B181
UniRef90_UPI00044396D4
UniRef90_L5KZG0
UniRef90_UPI0003F0F473
UniRef90_E9FU76
UniRef90_UPI00035933B6
UniRef90_UPI0003F0A705
UniRef90_O76835
UniRef90_M3ZYU0
UniRef90_I1KW96
UniRef90_I1LJ17
UniRef90_M5WFC9
UniRef90_A5AXU7
UniRef90_UPI000457298F
UniRef90_B4N6E6
UniRef90_B0WPS1
UniRef90_H3D1S9
UniRef90_C3YNP3
UniRef90_UPI000359AE2C
UniRef90_UPI00039599DB
UniRef90_A5AVW0
UniRef90_UPI00022B2C07
UniRef90_U6HRZ1
UniRef90_W5FJ27
UniRef90_F7INX0
UniRef90_H2KPI2
UniRef90_F6VKB5
UniRef90_A0A016RUL7
UniRef90_V7B2R9
UniRef90_A0A059CI48
UniRef90_UPI00042B5A73
UniRef90_COM0V2
UniRef90_H3DC69
UniRef90_UPI0002653F04
UniRef90_A0JJX4
UniRef90_B3SBM2
UniRef90_H2VEK3
UniRef90_F1L288
UniRef90_UPI0003595B55
UniRef90_Q9LEX1
UniRef90_UPI00042C2B17
UniRef90_Q5BVG7
UniRef90_G1K875
UniRef90_X1WBE2
UniRef90_UPI00044366BB
UniRef90_U3JE60
UniRef90_UPI0003503BBA
UniRef90_UPI00046B2F65
UniRef90_A9TUU2
UniRef90_UPI0002ADBCFD
UniRef90_UPI0001A46D6C
UniRef90_T1G9G4
UniRef90_B9GPS3
UniRef90_F7E3S7
UniRef90_G0R5B9
UniRef90_G3VWJ9
UniRef90_S2JPE1
UniRef90_E3RID5
UniRef90_B3S2U9
UniRef90_C5DUB4
UniRef90_K3Y3F1
UniRef90_G8ZSR8

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

	130	140	150
UniRef90_F2ULH9	L F E D G H R	E G W F R	L L D A K K G D
UniRef90_I1KTK3	F E K Q L D H	R P V H S R W F N L Q	
UniRef90_I3M3F9	L Q Q	K P P S G W F R L L P	
UniRef90_Q8C8C0	L E L N R S T D V T L T L K D P H Y P D H D L		
UniRef90_V8P3S0	L	K K S P A C G W Y K L L N Q E E G E	
UniRef90_UPI0004571BC5	W D W K N K K M E W Y D L K P R T S S A N S L D N R G N L K V A L		
UniRef90_UPI0003DED19E	K I F	D D P T P K W Y P L Q E R T E	
UniRef90_UPI00038BF3BE	L P R G I D S W I N L S P H P D A E V Q G E I C L A V Q V Q E D A H		
UniRef90_W5P888	L L T P D K E I N G W Y Y L L G E		
UniRef90_W6N9L5	H D W L Q V F E A K D K C I T N W F N L Q P K N K		
UniRef90_S8CSY1	L P K R V L P P D S P L A Q W Y R L E D R K K G E L M L A		
UniRef90_B9N6X2	T T E T L S D W F P L I P		
UniRef90_G7YS30	V Q R R L D H K P I N R W Y N L E K H V L V D G E L		
UniRef90_F6GUA2	N S E A V E Q W E D T I A N P E K V V T K W Y S L G P		
UniRef90_E1C1H8	L L T P D K E I S G W Y Y L L G E D		
UniRef90_UPI0003596B55	V P T R V P P D S P L A Q W Y R L E T R T R G E V M L A		
UniRef90_G7ZV87	L R V G R R E S F S L R A Q G E E R L E V E F R L Q S L T E G A E Q L A		
UniRef90_G1T2D6			
UniRef90_Q80TT2	I K N N E K R W Y A L K D K K		
UniRef90_T11Y3	L R A G E S R R E S F S L N P K E Q L E V E F R L Q N L T D C A E R L		
UniRef90_UPI0002BD1272			
UniRef90_UPI000333B087	L H P V L E G W F R L L L P		
UniRef90_M4AL42	L E R E T T H W R E L		
UniRef90_E9IA52	L R A G Q R Q S F L S T E G E M R L E V E F R L Q S L T D C A E H L		
UniRef90_UPI00034F5F3D	I P T E N P N W N D F V L H P R S H K S R		
UniRef90_H3CVA4	V P L R V P P D S P L A Q W Y R L E D K K R G E V M L A		
UniRef90_M5XLX5	V P P R R E T A K L P D P R W F N L		
UniRef90_B9S748	L Q Q Q Q T N Y E I P L D S K Q G V P K W V L R S K R A G N S S L A		
UniRef90_Q9UT00	V P V A G E D R W F K L E P R S Q G D C Q L A		
UniRef90_L5KGX9			
UniRef90_UPI000454B181	E V L T S D S R P V F W R D L E A E N		
UniRef90_UPI00044396D4	L Q Q P P D G W F R L L P F P K		
UniRef90_L5KZG0			
UniRef90_UPI0003F0F473	A G P T E D H T D D F L G S L N I P I D R W F K L E P R S		
UniRef90_E9FU76	L S R		
UniRef90_UPI00035933B6	L S K E T V K W Y Q L T A		
UniRef90_UPI0003F0A705	V G A G A R A G Q P V T L N L R R P K A Q		
UniRef90_O76835	L M N R Q L S Q R W I P L S V E R K		
UniRef90_M3ZYU0	V K R E K E M D Q W F P L E N L P H G E I H L A		
UniRef90_UPI00011KW96	V P L R V P P D S P L A Q W Y L E D K N N G E I M L A		
UniRef90_I1LJ17	V S P E E T K R F S L		
UniRef90_M5WFC9	F E R R L D H R A V H S R W F N L E		
UniRef90_A5AXU7	V P P R I E P A K L P D A R W F N L H K P		
UniRef90_UPI000457298F	I Q N G E E R A Y V L K N K N		
UniRef90_B4N6E6	L P T E Q E G R T I G D Q S Y T L R P R R S V		
UniRef90_B0WPS1	G S G S A H W Q D L M Q N S R K P I A M W H T L R		
UniRef90_H3D1S9	I P		
UniRef90_C3YNP3	I K N G E R K A F F L K D K K L R R R T K G S I V L		
UniRef90_UPI000359AE2C	I L A G D R H		
UniRef90_UPI00039599DB	V E K E R L L D E W F T L D E V S K G K L H L A		
UniRef90_A5AVW0	L R G G Q R H D M W L P L K N I K I G R L H L A		
UniRef90_UPI00022B2C07	V R T G Y R H		
UniRef90_U6HRZ1	I V R R P V D C W F K L L S K E E G E		
UniRef90_W5FJ27	V		
UniRef90_F7INX0	H P K G F S G W A H L M E D P D E E V Q G E I H L R L E		
UniRef90_H2KPI2	T S T G A K H W E E M I K G P G K T H V F W H L L S V G S E		
UniRef90_F6VKB5	C F E A V N Q W K D T I A N P E K V V I K W H K L N P		
UniRef90_AA0A16RUL7	V		
UniRef90_V7B2R9	I P K R I P P D S P L A Q W Y R I E G E K R G E L M L A		
UniRef90_A0A059CI48	I P T R V P P D S P L A E W Y R L E D E N K G E L M L A		
UniRef90_UPI00042B5A73	F E R R L D H R P V H S K W C N L E		
UniRef90_COM0V2	V P I R V P P D S P L A E W Y R L M G R D R G E L M L A		
UniRef90_H3DC69	V K K A R D D W F N L K D V P S G S V H E W L S L L S S A E		
UniRef90_UPI0002653F04	V P		
UniRef90_A0JX4	I E E G A P K D V W V P L E K I N Q G E I H L		
UniRef90_B3SBM2	V N I A A T T T A W Y A L S P P		
UniRef90_H2VEK3	L E Q Q R T		
UniRef90_F1L288	V D K E M E Q W K N T I E H Q G K E Y K G V H H L K P		
UniRef90_UPI0003595B55	L L M E N R M W N D L H F K P Y K K D L G H L Q V E L L L D S R L A		
UniRef90_Q9LEX1	L E A G V T		
UniRef90_UPI00042C2B17	L K Q G Y R H V H L L S K N G D Q		
UniRef90_Q5BVG7	I G T E G S N C R L M A K S		
UniRef90_G1K875	L N K E T I N W H R L A A V P		
UniRef90_X1WBE2	V P		
UniRef90_UPI00044366BB	I R D G Q Q S C Y V L K N K D L E Q A S K		
UniRef90_U3JE60	L P G L E P E Q D G A E P G R V P Q T R		
UniRef90_UPI0003503BBA	L D L A Q E K M G W F A L G S R G H G		
UniRef90_UPI00046B2F65	N N I E S N Q W K E T V R N P E K V V T K W H K L D P		
UniRef90_A9TUU2	Y R D G K R H D F W L P L E K V K T G R I H L A		
UniRef90_UPI0002ADBCFD	L		
UniRef90_UPI0001A46D6C	L P K E Q E N L S N I V I G W Y K L		
UniRef90_T1G9G4	I E N D R R K W Y A L K D K K L Q Q		
UniRef90_B9GPS3	L E A E T W K E L E F G L L S S F D T L K V K D K K D R		
UniRef90_F7E3S7	V S P G K P I R K I F S L N P Q G		
UniRef90_G0R5B9	L F E N Q S L W Y Q L L D D K G N Q T T Q		
UniRef90_G3VWJ9	L K V G E S R R E S F T L N P K E E L E V E F H L Q S		
UniRef90_S2JPE1	L A E		
UniRef90_E3RID5	L E P F Q Q Q		
UniRef90_B3S2U9			
UniRef90_C5DUB4	I D P E		
UniRef90_K3Y3F1	V M E T D D L S L G T Q W Y Q L Q P		
UniRef90_G8ZSR8	V K A G D T F N W E L		

UniRef90_B9G074
UniRef90_UPI00032A6654
UniRef90_A0A016SZ71
UniRef90_A0A044TT55
UniRef90_J3M1Z5
UniRef90_CONB95
UniRef90_E2BSA1
UniRef90_UPI0003EA842E
UniRef90_UPI00032AF544
UniRef90_Q5BYJ0
UniRef90_F1NH90
UniRef90_W4GKQ4
UniRef90_U6J6Z4
UniRef90_UPI0003316409
UniRef90_E4XVA6
UniRef90_H2Z4G3
UniRef90_U6HZH3
UniRef90_UPI0002C35755
UniRef90_UPI0003EBD95C
UniRef90_G1PIL6
UniRef90_B9I8H3
UniRef90_E5S281
UniRef90_UPI00046C1E54
UniRef90_B9IKZ8
UniRef90_I3K991
UniRef90_E6ZIV8
UniRef90_C4JJ82
UniRef90_S4RC05
UniRef90_UPI000440BB62
UniRef90_C7J9R5
UniRef90_M0TEX8
UniRef90_UPI000388BC36
UniRef90_A2FDM6
UniRef90_M4C9T4
UniRef90_Q4SK45
UniRef90_H0YWK4
UniRef90_G3W2K8
UniRef90_UPI000203A906
UniRef90_W9SFG7
UniRef90_B6HM18
UniRef90_D6WUE3
UniRef90_UPI0003AF36C4
UniRef90_UPI0001E480EA
UniRef90_UPI0003339EAB
UniRef90_UPI0004625D63
UniRef90_UPI00034FCCBC
UniRef90_A0A044RZP7
UniRef90_H3B711
UniRef90_R0K7Q5
UniRef90_UPI00032A300B
UniRef90_UPI0002C331AE
UniRef90_UPI000441D99C
UniRef90_T0QTE0
UniRef90_C8VK49
UniRef90_W2T6L0
UniRef90_G4LV54
UniRef90_M4D6U9
UniRef90_W4ZJ83
UniRef90_UPI0003BDC77F
UniRef90_A5C868
UniRef90_U3JTP5
UniRef90_A2X4D4
UniRef90_K7FV29
UniRef90_S4RUD9
UniRef90_UPI00035A2050
UniRef90_J3LAL1
UniRef90_UPI0002C37203
UniRef90_M5WE75
UniRef90_UPI0003505C4F
UniRef90_UPI0003943D6E
UniRef90_UPI00006D0DBC
UniRef90_J0XEP3
UniRef90_G2YDX0
UniRef90_T0RIN9
UniRef90_D0N251
UniRef90_G7I517
UniRef90_F6W790
UniRef90_F2USL2
UniRef90_F4Q703
UniRef90_Q755V7
UniRef90_H0VXX9
UniRef90_M7YMP8
UniRef90_A7SG63
UniRef90_T0SDT5
UniRef90_I1COA5
UniRef90_I7M3G3
UniRef90_R7TZR1
UniRef90_A0A059C3Z5
UniRef90_I1IED6
UniRef90_UPI00021A54B8
UniRef90_H2LGF0
UniRef90_UPI0003C369FC

1

10

20

30

40

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

UniRef90_B9G074 D L V G K S D P F A V L Y I R P Q D K M K K S K T I I N N D L N P I W N E H
UniRef90_UPI00032A6654 D K G R V P Q A S V R V Q L G N Q M R F T R P S Q M R A I I N N D L N P I W N E E
UniRef90_A0A016SZ71 E K S R P P D S Y I K L V A L G E F G F G N E W R K K T H E L V K G S A E P Q Y D H
UniRef90_A0A044TT55 N G Q A P D D S Y F K T Y L H P D P Q R I S K R Q K T H V V V K K N T Q M P T F N E E
UniRef90_J3M1Z5 D M N G K S D P Y V V L S L K K S K T K Y K T R V V V S E S L N P I W N Q T
UniRef90_CONB95 D R N G F S D P Y C K F K L N G K D V F K K T K V Q K K T L H P A W N
UniRef90_E2BSA1 S S L D K F N P Y V R V L M L N G R K K M K K K T R F L H A V A Q P E F N E T
UniRef90_UPI0003EA842E Y A R T S I S C N Q C R L K T Q K T P Q K S K Q D V T V F N E I
UniRef90_UPI00032AF544 D S N G S S D P Y I Q L T L E G P R H E F P E P R E K T Q K H R K D L H P L F D E T
UniRef90_Q5BYJ0 D S S G L A D P Y V E I L T V G H H K V N S K D K Y I P N T L N P E F G K M
UniRef90_F1NH90 D R C G T S D P Y V K F K L N G K T L Y K S K V V Y K N L N P V W D E T S
UniRef90_W4GKQ4 D S G G T S D P L V I V S C N K T K M S T T T K Y K T L S C M W N E S
UniRef90_U6J6Z4 D P T G L A D P Y L I V S M G K E V F N E K S N Y I P K T L R P T F G K M
UniRef90_UPI0003316409 T T A M F R P F V E V C I L G P N L S D K K R K T K T K S N T W S P K Y N E T
UniRef90_E4XVA6 W K A A F K Y I E L N I L G G P A L K P Y K R T T K A K K N Q K S P K F N E T
UniRef90_H2Z4G3 S R K G L P D S Y V K V A L Y K G K Q R L K K K T T D T V H S T C N P V F N Q A
UniRef90_U6HZH3 D P S G L A D P Y V E I R L G K Q K I S S K D N Y I P N N L N P E F G R M
UniRef90_UPI0002C35755 D F M G K A D P Y V E V L M K K S E A K Q K T R V I T N N L N P V W N Q T
UniRef90_UPI0003EBD95C T A G M F R P F V E V T M V G P H Q S D K K R K T T K S N N P K Y N E T
UniRef90_G1PIL6 S S Y G D T P A I S I K G V L T L P K P V H F K S S A K E G S N T I E F M E T
UniRef90_B9I8H3 D K N R F P E A Y V K V Q I G N Q V L K T K M A Q S R T M N P V W N D E T
UniRef90_E5S281 D A K R R P P N P F R R T K F L A R S N N P V W N Q T
UniRef90_UPI00046C1E54 C S S P E K S V Y A R I D I S C H L H K Q K N Q K S S P R A R T S V I I F N E T
UniRef90_B9IKZ8 D L V G K S D P F A V L F L R P L R S R M K T S K T I S N K N L N P I W N E H
UniRef90_I3K991 T S G M F R P F V D V S M V G P F L A D K K R K F T T K S Q N W T A K F N E A
UniRef90_E6ZIV8 N H K S I V D P L V R V E I T H G V P G D I D S Q E T R H I D N N F N P M W N Q R
UniRef90_C4JJ82 D R N G S D P Y C K F K L N G K E V F K T K V Q K K T L H P A W N E W
UniRef90_S4RC05 G S K S P A P Y K L Y L L E S G T C L A K K K T K V A R R S L D P V A Y Q H
UniRef90_UPI000440BB62 D F N G L S D P Y V K L H L P G A S K A N K L K T K T V R N S L D P V W N E T
UniRef90_C7J9R5 D A N G S L D P Y V E V K F G A Y N R G V T R C F K R N K N P E W N E T
UniRef90_M0TEX8 D I I G K S D P Y A V L Y I R P L R D R M K T S K T I N N D L N P I W N E H
UniRef90_UPI000388BC36 Q T T A M F R P F V E V C I L G P N L S D K K R K T K T K S N T W S P K Y N E T
UniRef90_A2FDM6 D K N G L A D P Y C I L T L D N G E G E Q L E T K V I K E T L E P Q W N Q E S
UniRef90_M4C9T4 D K Q N S C S P F V E L K F D N Q I F H T T T K P N D P N P V H E S
UniRef90_Q4SK45 S E N G T D S Y V R L Y L L P D Q S W R H R K K T H V K K R T V N P V F N E K
UniRef90_H0YWYK4 E C R A C D S Y V K M S I V P D A D W K C R Q K K T K T V P D S K N P V F H E Q
UniRef90_G3W2K8 G S K S L P A T Y I K V Y L E N G A C L A K K K T R V A K K T C D P L Y H Q A
UniRef90_UPI000203A906 D F S G K S D P F C L L E L G N D R L Q S Y T V Y K N L N P E W N Q V
UniRef90_W9SFG7 E K N R F P D A Y V K V Q I G H Q V L K T K P V Q A R T L N A L W N E D
UniRef90_B6HM18 D R N G F S D P F C K F R L D D E T V F K T K V Q K K T L H P A W N
UniRef90_D6WUE3 D K N G L S D P Y V K F K V G G R L I Y K S R T V Y R D L N P T W D E S
UniRef90_UPI0003AF36C4 T Q G I F R P F V E Q I I G S P H L S D K K R K T K S K N N S W A P K Y N E T
UniRef90_UPI0001E480EA D V K M A S D P Y C E Q I Q V I G S Q F Y R T K T I D N N L N P I W N E Y
UniRef90_UPI000339EAB T P L T L S F F V K V G M F S S G E L I Y K K K T R S L K A S N G R V W G E T
UniRef90_UPI0004625D63 D L F S Q S D C Y F V I E L I P T A S F E R V Q T K S L K D C K N P V W N E T
UniRef90_UPI00034FCCBC T S G I F R P F V I E V N I G P A Q L S D K K R K T K S K N N S W A P K Y N E S
UniRef90_A0A044RZP7 D V M N K S N P F V V V E L V N A L L Q T H T E Y K T I N P E W N K I
UniRef90_H3B711 D L F G A S D P Y V R V S Y D P V S G E L T S V Q T K T I K K T L H P K W N E E
UniRef90_R0K7Q5 K P N G K S N P Y C E I S M G S Q S Y T T R T M Q D T L N P K W N F N
UniRef90_UPI00032A300B D N N G S C D P Y I K I S L G K N T I D D R D H Y L P N T L N P V F G R M
UniRef90_UPI0002C331AE D V V G K S D P Y A L L Y V R P L K D R M K S R T I N N D L S P I W N E H
UniRef90_UPI000441D99C D K D S F S D P Y A I V S F L H Q S Q K T V V A K N T L N P T W D Q T
UniRef90_T0QTE0 Q T F G K Q D P Y C K V T V G H R T F K T R V H D N G G R N P V W N D K
UniRef90_C8VK49 D R N G Y S D P Y C K F R L D G K E I F K T K V Q K K T L H P A W N
UniRef90_W2T6L0 D K T G K S D P Y V T A Q V G K V K R R T R T I H Q E L N P V W N E K
UniRef90_G4LV54 N I S P I C K I T C W K E S K D T R V R N C T N S P F W D Q T
UniRef90_M4D6U9 D L L D G S D P Y V K L T L S G D K V P G K K T V V K H S N L N P E W N
UniRef90_W4ZJ83 D L G G K S D P F C V L E L V N A R L Q T Q T V Y K T L H P E W G K V
UniRef90_UPI0003BDC77F D K D S F S D P Y A I V S F L H Q S Q K T V T V R N T L N P T W D Q T
UniRef90_A5C868 D L I G K A D P Y V E L X M K T S B T K H R T R V V N N S L N P I W N Q T
UniRef90_U3JTP5 D L W S Q D C Y V K L W L P T A S C R E A Q T R T V H N C R N P V W N E T
UniRef90_A2X4D4 E G K H H T N P Y V R I V F R G E E R K T K H I K K N R D P R W E Q E
UniRef90_K7FV29 D K T G S S D P Y V T V Q V I G K T K R R T K T I F G N L N P V W D E K
UniRef90_S4RUD9 K P H G V D A F V K C Y I L P D L S R K S R K R T R T V K S M N P V F N H T
UniRef90_UPI00035A2050 M Y D G R Q L K K S K T S A K G N D L N P V Y N E T
UniRef90_J3LAL1 D M S S S D P Y V V L T L G Q Q K V Q T S V I K A N L N P V W N E D
UniRef90_UPI0002C37203 D R C G T S D P Y V K F K L N G K T L Y K S K V I Y K N L N P V W D E V
UniRef90_M5WE75 D V I G S L D P F V E S V R I L G N Y R G I T K H F E K Q Q N P V W N Q V
UniRef90_UPI0003505C4F D V L S Q T D C Y F V S L W L P T A S A D K F Q T K T I Q N C K D P V W N E T
UniRef90_UPI0003943D6E T S G M F R P F V E I T M I G H D K K R K F Q T K S K N N S W S P K F N E T
UniRef90_UPI00006D0DBC D V I F D E S D P F V K V T F N F C K V N F I T P V I D N N P N P L W N F Q
UniRef90_J0XEP3 L K P E E I H A F C K I S L I P G G K S Q N S L V K R G R D V A F N Q E
UniRef90_G2YDX0 D K S G T S D P Y L V L T L G D E K S T H T I Q K T L N P E W N V T
UniRef90_T0RIN9 T L R A T T S L Y C K L A S S G M T Y K T A I K A R T I D P V W N E T
UniRef90_D0N251 D M N G K S D P Y C I L V K S L I G K D G K P I E K R T D V I S S T L E P V W K A S
UniRef90_G7I517 D L L G T S D P Y V K L S L T G D K L P A K K T T I K R R N L N P Q W N
UniRef90_F6W790 D R S E L T D A F V E V K F G S I T Y K T E V F G K S L N P V W N E W
UniRef90_F2USL2 D Y G G V S D P Y V V L E L G N F K Q R T R T I H K T I N P D F D Q L
UniRef90_F4Q703 D S N G F S D P Y V S L A L G P Q K K K T K V Q K K T L N P K W A E T
UniRef90_Q755V7 D R N G K S D P Y V K F Y L D N S D E V I Y K T K T Q K K T L E P V W N E N
UniRef90_H0WXX9 V Y G E T P T P Y V K G I L T L P K P V H F K S S A K E G S N A I E F M E T
UniRef90_M7YMP8 D G S G S C D P S V E I K L G N Y R C T T R Q F E K N T P E W N Q V
UniRef90_A7SG63 D I T G K S D P F V T F R V G D Q E K F R S R V H Q K T L N P V W M E S
UniRef90_T0SDT5 D A T G T S D P V V Y V S V L G E Q E H T A V Y K K Q L L S A V W D D T
UniRef90_I1COA5 D K S G T S D P F V A V S V N G E K V Y K T E T Y K K Q L N P T F K N E
UniRef90_I7M3G3 D T I G K S D P Y V T V Y L S N N Q K Q P L K T K P L K D D L N P V W N F T
UniRef90_R7TZR1 T T S M F P F E V N L I G P H L N D K K R K H S T K S K S N N W S P K F N E T
UniRef90_A0A059C3Z5 E M I G T S D P Y A V V H I R P I F K F K T H V I D N N L N P V W D Q T
UniRef90_I1IED6 D M L T S D P Y V V L T L G E Q K A Q T T I K P S D L N P V W N E V
UniRef90_UPI00021A54B8 D L N S K V D P Y A V I N Y K G K E L N T P T L K K T R F P R W N Q T
UniRef90_H2LGF0 D K D S F S D P Y A H V S F L H V S K N T E K L K A T L N P T W D Q T
UniRef90_UPI0003C369FC D K N G L S D P Y V K F K M G G R L L H K S R T I H R D L N P V W D E V

UniRef90_B9G074 Y E F V V E D T S T Q R L T V K I Y D E G L Q A S E L I G C A R V D L S D
UniRef90_UPI00032A6654 V M F V V A A D P F E D F T V T V E D K F G L P N N V E I L G R E V M S L V R N S
UniRef90_A0A016SZ71 A S I Q L H R P D L D V C F T V R I E V W S G S G V L R R N S Q L L G S W L A L G L N R S
UniRef90_A0A044TT55 L N Y Q L S D R I N L V D R A L E I S V W N C G S L L V E V I G S V L H I L T L T K Q
UniRef90_J3M1Z5 F D F V V E S D G L H D M L V L E V Y D H D T F R R D Y M G R C I L L T L T E Q
UniRef90_CONB95 E F F E L C I K S R I D A N L R L E V Y S D W D F G D R A D H L G G Q T D I N G L K V Q
UniRef90_E2BSA1 L T F D L A V T Q L D T V Q F L V L V L C Y S K F R K S A D V S I G K V V L R K G K Q
UniRef90_UPI0003EA842E M T F S L P E P H I L R E C A V I A V T V F E T S T K R R K S K I G Q A V V R K R K
UniRef90_UPI00032AF544 F E F L V P P C Q K D G A C L L M T V L D H D A L G A D D L E G E A F L P L C
UniRef90_Q5BYJ0 F Q M K C I L L P I E K E L H V M V K D Y D A V G A D D L I G K T D I D L L E N E
UniRef90_F1NH90 V V L P V V Q T P L D Q K L W V K V Y D R D L T S S D F M G S A F V D A L L E S E
UniRef90_W4GKQ4 F K L P V D D P S Q F V Q F V E D F D T A F N D F M G Q A K V P L L E S
UniRef90_U6J6Z4 F Q F E V E F P T T T L H I E V M D H D L L G S N D D V I G Q T V I N L L Q N
UniRef90_UPI0003316409 F Q F T L N E N R P G V Y E L H L S V K D Y C F A R E D R I I G M T V I N L L Q N
UniRef90_E4XVA6 A T F T L P H P T E E A G S E L I N L S C K D W W V M G L D K L V G S T S I L G
UniRef90_H2Z4G3 L T F S V P H E Q S P D A R L I C H V V H H D F K L G Y N E Y L G Q L D I N G P N S
UniRef90_U6HZH3 F Q L K A F I P I E K D L I I K I V D Y D L M T R D D V I G E T V I D L L E N R
UniRef90_UPI0002C35755 F D F M V E D A L H E M V I E V W D H D T F F G K D R I G R V I M T L T R D
UniRef90_UPI0003EBD95C F H F L L G N E E G P E Y E L Q I C V K D Y C F A R E D R V L G L A V M P L L R D
UniRef90_G1PIL6 F V F A I K L Q S L Q S V R L V F K V Q T Q T P R K K T I G E C S L S L R T
UniRef90_B9I8H3 L M F V A A E P F D D H L L V V E D R T G F N K D E S I G K V V I N L N T
UniRef90_E5S281 V V Y D L N L E Q A L G K M L E F T V V W E D R T G F N K D E S I G K V V I N L N T
UniRef90_UPI00046C1E54 F L F H L A E P V A G A C T V L V S V Y E M S R G S S R Q L I G Q A V L A G K R
UniRef90_B9IKZ8 F E F V E E D A S T Q H L T V R V F D D D E G V G A A E L I G C A L V A Q L K K D
UniRef90_I3K991 F Q F L L G K E S P D C Y E L Q V T V K D Y C G F R A D R V V G M A V V A Q L R D S
UniRef90_E6ZIV8 F E F E I H V P E L V M V R F V V E D Y D S T S Q N D H I G Q Y C L P L T S
UniRef90_C4JJ82 F E C A I L S S R I A A D F K V E V W D W D F G E K A C D Y L G G A T I A L L D D Q
UniRef90_S4RC05 F I F E N P H G K V L Q I V I V W D Y G R M D N K C F M G G A A Q V L L E D D
UniRef90_UPI000440BB62 L T Y I T E E D M H R K T L R L S V C D E D K L T H N E F I G E S R V A L L R R N
UniRef90_C7J9R5 F A F S F Q H D A K T P S P T V D I V V N D K D L V R D D F V G K L H L D S L K K D
UniRef90_M0TEX8 F E F V E D A S T Q N T L I K V Y D D E G L Q P S E L I G C A H V G M T V I S L Q N
UniRef90_UPI000388BC36 F Q F I L S N E E G R A Y E L H L S V K D Y C F A R E D R I V G M T V I S L Q N
UniRef90_A2FDM6 F H F E I N D K S N D T L Y V T C Y S Y D W D H D H D I G V A K V S L S E
UniRef90_M4C9T4 F Y F A V S D P N S F S T L T L E A H V Y S Y D G T D A K P F L G K V R V N
UniRef90_Q4SK45 T M I D V E D F H N R I D P I E L F A F Q K M I S M R V D H V R G I L L N
UniRef90_H0YWK4 F V F P V K E E D E D Q K R L L V T V W N R E K N S R A L I G C K S F G L L P
UniRef90_G3W2K8 L L F D E G P Q G K V L Q V I V W D Y G R M D H K C F M G M A Q I V L L E
UniRef90_UPI000203A906 F T F P V K D I H D V L E V T V F D E D G D K P P D F L G K V A I P L L S
UniRef90_W9SFG7 L L F V A A E P F E D H L V L T V E D R V G P G K D E F L G R V I P L N L
UniRef90_B6HM18 E Y F E T P I K S R I G A N F H V D V V D W D F G D K A D F L G A T A I D L L E S
UniRef90_D6WUE3 F T V P I E D P F I P I Q I K V F D Y D W G L Q D D F M G S A T L D L L T T
UniRef90_UPI0003AF36C4 F T F T L S N E V P E C Y E L Q V C F K D Y C F A R E D R T E L G M A V L D L K D
UniRef90_UPI0001E480EA F E F V V D Q V N G Q K L R I E L C V D Y D K T S S D E L G T L T I D L L
UniRef90_UPI000339EAB M I F P L I Q N E K D V F L F K L Y S R S S V R R K H F V G Q V W L S E D S
UniRef90_UPI0004625D63 F S F R I Q S Q V K N V L E L M V H D E D N C I A D E H L L T V L F D Q L Y K
UniRef90_UPI00034FCCBC F Q F T L S A D A P E C Y E L Q V C F K D Y C F A R E D R T V L G L A V L D L R E
UniRef90_A0A044RZP7 F T F A V K D I H S L E I T I Y D E D P N K K A E F L G K I A I P L H Q
UniRef90_H3B711 F L F R V F P R Q H R L L F E V F D E N R L P R D D F L G K V D V P L H H
UniRef90_R0K7Q5 C Q F F I K D L Y Q D V L C I T M F D R D L Q F S P D D F L G R T E V P L A K
UniRef90_UPI00032A300B F E M T C F L P Q D K D L K I S V Y D Y D L L T R D E K V G E T V I D L E N E
UniRef90_UPI0002C331AE F E F V V E D E S T Q H L V V K V F D D E G L I G A S E L I G C A H V R L L S E
UniRef90_UPI000441D99C L I F E I E L F G A P Q N S I V I E L Y D H D T Y G A D E F L G R C I C P S L
UniRef90_T0QTE0 F V F E V A D M Q L S Q L V I E I W D S N F T S D D Y I G T C R L P M S
UniRef90_C8VK49 E F F E T P I K S R I G A N F R C D V Y D W D F G D K A D F L G G V P I N L E M
UniRef90_W2T6L0 F F F E C H N S T D R I K V R V W D E D N D L K A D D Y L G Q T V I E V R T
UniRef90_G4LV54 F F F N F S A A E M L D Q Q L V F T V Y D S R R L R R D S L I G S F K F D L S I
UniRef90_M4D6U9 E E F D L V V K E P E S Q E L Q L T V Y D W E Q V G K H D K I G M N V I P L K D
UniRef90_W4ZJ83 F T F Q L K D I H S V L E V T V Y D E D K H G S P E F L G K V A I P L L K
UniRef90_UPI0003BDC77F L I F D S E V T M A S P P N I V E L Y D Q D T Y G A D E F M G R C V C Q P S L
UniRef90_A5C868 F D F V V E D G L H D M L L D V W D H D T F G K D K I G R C I F T L T R
UniRef90_U3JTP5 F H F V L Q S E V N K M Q I E V I S R P P S I G I H S K E N L M T V R F D V L A K
UniRef90_A2X4D4 F Q F E E P P I N D K M Q I E V I S R P P S I G I H S K E N L M T V R F D V L A K
UniRef90_K7FV29 F Y F E C H N S T D R I K V R V W D E D D D K D D F L G Q T I E V R T
UniRef90_S4RUD9 M V Y D F Q D E M R E A C V E L T V W D E M F G G M S Y G K P I V D W M S
UniRef90_UPI00035A2050 F V F D V P A Y Q L D K V Y F S I A V I E K D K E D G R H L L G R L Y T G V N F
UniRef90_J3LAL1 L K L S V P Q E Y V P L K L Q V F D H D M L S K D L M G E A E I D L Q P
UniRef90_UPI0002C37203 V L L P I Q S L D Q K L R V K V Y D R D L T S D D F M G S A F V L S D
UniRef90_M5WE75 F A F S K D R M Q A S V L E V V I K D K D L I K D D F V G L V R F D I N E
UniRef90_UPI0003505C4F F Y F R I Q S Q V K N V L E L G L Y D K D V T Q D D H L F T V Y F D I A R K
UniRef90_UPI0003943D6E F H F V L G N Q D F E C Y E L Q A C V K D Y C F G R A D R V L G V V L Q L R D
UniRef90_UPI00006D0DBC K E I E V E Y Q P S K L K N A E V M F T L Y D Y I T T N D F L G Q M I I N I D H
UniRef90_J0XEP3 F F F D V E D L S E K C L A I T V C H Q S P Q K L Q K D V V I G D L Y V S L S K S
UniRef90_G2YDX0 L Q L P I T G T N S L L A I D C V C W D K D R F G K D Y L G E F D L A L L E D
UniRef90_T0RIN9 F S F R A S D Y M T T V T I V V A D K V N V K K R V
UniRef90_D0N251 F E L G R V V D M N T V K L V R F V L K D H D T F Q R H D S L G S Q D V P F S R
UniRef90_G7I517 E K F K I V V K D P N S Q V L Q L Q V Y D W D K V G A H D K L G M Q L V P F S R
UniRef90_F6W790 F K F E V D D E H L Q D E P L Q I R V L D H D T Y S T H D V I G K V Y L P I D P
UniRef90_F2USL2 F M F P V T D V F D V L R V R V Y D E D R G S S D D F L G A V D I P L L E
UniRef90_F4Q703 F L M R I S P M D T R L H I I V L D W A L S S D D F L G E V F L D L S T
UniRef90_Q755V7 T S L Q L N N R I N N Y L R I K V M D W D A G N S D D D L G T A T I A L A E
UniRef90_H0VXX9 F V F A I K L Q S L Q T V R L V E K I Q M Q T P R K K T I G E C S L S L R T
UniRef90_M7YMP8 F A F P K E C I Q S S Y I E I T V K D K D I L G R V I F D L N E
UniRef90_A7SG63 V A L S L P A D D D K L E L D V W D K D A L S Q E R M G S V T F N P N T
UniRef90_T0SDT5 L I F T F R N L D K T E V E I K L S I M D A N T L T R A E L I G E L Q F D V I S
UniRef90_I1COA5 I I F T V P L L R R T Q A K E L V R I M D A N T Q F G S D E L L A E G F I P I D Q
UniRef90_I7M3G3 G V I P I N M C Q L K Q A E L Y L D V Y D E D N V T D E L I G R V C I D V I S
UniRef90_R7TZR1 F H F I L N E D D P D A Y E L H I C A K D Y C F A R E D R L I G I T V L Q L R D
UniRef90_A0A059C3Z5 F N L I V E D K E T Q S L I E V L D E D I G Q D K R L G I V K L P L I G
UniRef90_I1IED6 L N L S V P R N Y G P L K L E V Y D H D T F S A D D I M G E A E I D L Q P
UniRef90_UPI00021A54B8 Y E L P I P L E E F D N R T V R I T L Y D S A K F H H D A F L G E V I D L A E
UniRef90_H2LGF0 L I F D P Q K I A H R P D V V L E F Y D E D Q V G K D E M L G R I C T P L V K
UniRef90_UPI0003C369FC F V V P I E D P F E P I I V K V F D Y D W G L Q D D F M G S A K I D L T Q

UniRef90_B9G074 L Q P G K E V W L D L V K D L E I Q R D K 130 140 150
UniRef90_UPI00032A6654 V P Q R Q E T G K L P D A R W F N L H R P S E V
UniRef90_A0A016SZ71 S S P D Q E H W E Q M L Q G A G I T V S K W H P V H P P E
UniRef90_A0A044TT55 L L D L P M D R K G I K L L D G W F N L
UniRef90_J3M1Z5 V L I E E D
UniRef90_CONB95 L E P
UniRef90_E2BSA1 R G P E R L H W F S V L Q N P R K L V T V W H I L K
UniRef90_UPI0003EA842E A S E D E H W S L M M Q C L R Q P I A K W H S L
UniRef90_UPI00032AF544 V P G L S G S E E P S E V P Q T R L P L T Y P E P N G D P I L
UniRef90_Q5BYJ0 R R
UniRef90_F1NH90 L E L N R T
UniRef90_W4GKQ4 L G K P Q T L T L E L L D K K F R Q K N K L G T L
UniRef90_U6J6Z4
UniRef90_UPI0003316409 I A E S Y G A W Y P L L K N
UniRef90_E4XVA6
UniRef90_H2Z4G3 T D E E S N H W S E M M T Q H N R P I A R W H R L K
UniRef90_U6HZH3
UniRef90_UPI0002C35755 V L M E G E
UniRef90_UPI0003EBD95C V
UniRef90_G1PIL6 L S Q E M D Y S L D I A P P S K I P V C H
UniRef90_B9I8H3 V E K R
UniRef90_E5S281 A L H T L P A S Q W H P L Q
UniRef90_UPI00046C1E54 P R E A N D H W A L M M Q S V Q Q P V A K W H P L
UniRef90_B9IKZ8 L E P G K V K D V W L K L V K D L E I Q R D N K N R G Q V H L
UniRef90_I3K991 V A D R K S C V C W C P L G P R I H T D E T
UniRef90_E6ZIV8 V Q N G Y R H
UniRef90_C4JJ82 L
UniRef90_S4RC05 L D L S S A V I G W Y K L F P T S L V D P T L A
UniRef90_UPI000440BB62 V K P D Q T K F Y T C L E H P
UniRef90_C7J9R5 I P K R S L D D V P L E P T W Y P L L D Q D
UniRef90_U0TJEX8 L Q P G K V K D V W L K L V K D L E I Q R D K K D R G Q V H V E L L F C
UniRef90_UPI000388BC36 T A E K G S C W Y P L L K N
UniRef90_A2FDM6 L E Y E E T T E K D L E L K K E
UniRef90_M4C9T4
UniRef90_Q4SK45
UniRef90_HOYWK4 S P Q E I S G W Y Y F L
UniRef90_G3W2K8 L D L S N V V T G W Y K L F P T S S V D S T L G
UniRef90_UPI000203A906 I R N G Q Q S C Y T L K N K
UniRef90_W9SFG7 V D R A D D R M I H S R W Y N L E K P
UniRef90_B6HM18 L E P
UniRef90_D6WUE3 L D L G R A T E V T M L Q D P D R P
UniRef90_UPI0003AF36C4 V A P K G S A A C W L P L G K R I H M D E T
UniRef90_UPI0001E480EA L Y I K E K R N L D D W F P L D A C K H G D I H I
UniRef90_UPI000339EAB N S I E V N Q W K E T I T N P E K V V T K W H K L N P
UniRef90_UPI0004625D63 I H L G E T V C F P L D P K V Q E Q L E V E F S L E S
UniRef90_UPI00034FCCBC L
UniRef90_A0A044RZP7 I Q N C E P K W Y A L K D R K L E T R A K G Q I L L
UniRef90_H3B711 I P T E N P N F K D F L L H P R S
UniRef90_R0K7Q5 I R T E Q E
UniRef90_UPI00032A300B L Q P G K D V W L K L V K S
UniRef90_UPI0002C331AE D R T P R L S W C P V V K G S R
UniRef90_UPI000441D99C I F A S G Q V V D Q W Y P V R N Q Q R G E I N L
UniRef90_T0QTE0 L E P F Q A Q E V S L T L D G K S
UniRef90_C8VK49 L S G E M D V W Y N L E K R T D K A V S G A I R L H V E I K G E E K L A
UniRef90_W2T6L0 V Y E C D R H A M L N K W L L L C N P E D
UniRef90_G4LV54 L T P E
UniRef90_M4D6U9 V K C G E R R P Y T L K D K K L K R R A K
UniRef90_W4ZJ83 T R S P R L A W F P I
UniRef90_UPI0003BDC77F V I L E G E
UniRef90_A5C868 I Q P G E K V H L N F E L N P E N Q
UniRef90_U3JTP5 V
UniRef90_A2X4D4 L S G E M D V W Y N L A E K
UniRef90_K7FV29 R E G E V A V W H N M I T R P G E W T E A L L P L R P
UniRef90_S4RUD9 D P D A R A Q W L E M V H N A R K Q V A C W H K L Q S
UniRef90_UPI00035A2050 M I N A T A A F G D P E L L G D M Q I G R W L K
UniRef90_J3LAL1 L E L N R T
UniRef90_UPI0002C37203 V P L R V P P D S P L A E W Y R L E D K K K S E L M L A
UniRef90_M5WE75 L S L G E Q
UniRef90_UPI0003505C4F I M E
UniRef90_UPI0003943D6E M I Q D P K I W F N
UniRef90_UPI00006D0DBC L S E
UniRef90_J0XEP3 I F S N D S H E Q E P A W Y P L R S K R P G
UniRef90_G2YDX0 V G Q L R L V A S D I M A E P T M R S T R W Y T L
UniRef90_T0RIN9 E R M S P T S P A Q S E L I D E W F R V E P P
UniRef90_DON251 L K P Y E N K E F T L D L L K D T N V
UniRef90_G7I517 L L D P Q S S H S L C G W F P I
UniRef90_F6W790 I
UniRef90_F2USL2 L D D Q P T W H T L Q P R
UniRef90_F4Q703 V D P D S E
UniRef90_Q755V7 L S T
UniRef90_H0WXX9 V P K R V P P D S P L A E W Y R L E G R K E G E L M L A
UniRef90_M7YMP8 L K E S L T I S H C F L L F I Q D P S A Q W F K L N N T K S G E V Q L A
UniRef90_A7SG63 I Y S H I N H
UniRef90_T0SDT5 L E S F S A Q N V E V P L T G G K L R L K W E P L S R K R E G T S L I S
UniRef90_I1COA5 I K P N Q E Q F Y E
UniRef90_I7M3G3 I
UniRef90_R7TZR1 L E A E T E
UniRef90_A0A059C3Z5 M I T A A M A F G D P S R R S D M Q I G R W F
UniRef90_I1IED6 L F L G Q R Y K T W Y R L Q Q Q D K
UniRef90_UPI00021A54B8 L S P E M D Q S P R L F W H P
UniRef90_H2LGF0 L E L G I A E D V N L V N H P D R P
UniRef90_UPI0003C369FC

1 10 20 30 40

UniRef90_Q9LXU2 G P E G V T H I R S K V Y L S P K L W Y V R V N V T E A Q D L I P H

UniRef90_A0A016U1X4 L G L L H C T L Q H F P V R K R L R V N I L K E A L A G Q

UniRef90_B7PGV5 R L G E L K L G F I M T K G Q L E V E V L S A R G L V P L G

UniRef90_A8XGC7 S D I G T L L T V K L L F G A E D L V A K

UniRef90_H2MJ76 L S I N L K E G H N L V I R

UniRef90_UPI0004629D85 L S T F G Q L K L S I H T E G R D L V L Y V M E A R G D L G K

UniRef90_A2E8X1 P K E T L L D A T V V N A R D L V P M

UniRef90_H2TFJ5 P R G V V R I Y L L E A Q N L E A K

UniRef90_W5NED0 L L I K V I E S G Y N L P V P

UniRef90_S8C1H0 S K T G R R I V V T V V E A K N L P A K

UniRef90_L1IXQ0 T S G N F T L Q V C K A E H L P K M

UniRef90_F1R4M9 G F L Q V K L T R A T D L P S T

UniRef90_S2JLU5 A G I V T I D I L E A R G L R G V T

UniRef90_UPI000395CD37 R L Q L S L W Y H Q E Q R K L V A T V H S C R E L R A A

UniRef90_G3X289 Q A L H I K I T S G Q N F P A C

UniRef90_S8BVA5 G T L K I K V L K G T N L A I R

UniRef90_K1RGX4 G R L L V V L L E G C D L Q A S

UniRef90_UPI0003F08BD3 Y Q R T S Q L C R V T V H Q A R G L L C K

UniRef90_W4WC53 D T G Q L A N S V I S A Q G L I A K

UniRef90_C5Z714 W F S V D E K P P A Y A R V E I L E G A D M K P S

UniRef90_G1TFQ6 L S P C H L L T V R V L R M K N V R Q A

UniRef90_L7M4U6 E V Q G K A H I S V R L E P S T K K L V R V T E C S D L N L V

UniRef90_F6PPP8 S L S E E E G S R L V R I Q V L S G H N L A K K

UniRef90_G7XMR5 L L K V S V L R G R N L A A K

UniRef90_W6UYH7 L Y I K Y E K Q T W Q L N A Y I F Q A R G L L A A

UniRef90_G1NWE2 L K Y P L P Q G V L H I N V I S G R N L K A G

UniRef90_Q5C2C6 P S K Y T F T I K V V E A E D L K A C

UniRef90_E9DTV6 N S E V Q G K L H L E L K E N G S V Q Q L M V H I L E C E G L P L V

UniRef90_A0JP93 D N S L V S S R R S L F G S S N F L P R T G R V N I T V L E G K D L V S K

UniRef90_M5WE96 K L S C T Y D E Q M Q Y L Y V R V V K A K D L P G K

UniRef90_K7M3I9 E V Q G K A H L E L A L Q P Q S G K L T V R V I E C N D L T L K

UniRef90_UPI00045724B4 D P I R V L V R V Y I V K A N D L H P M

UniRef90_UPI000258D4D5 P P D V S L Q L G V L Q A R N I K G K

UniRef90_U4U8X3 S K G T L E V E V I C A R D I C P G

UniRef90_UPI0003C458A3 Y L A G K T L V E L T I L Q G K D L V A M

UniRef90_E9GDJ5 L F I K V I S G Q Q L P K M

UniRef90_UPI0003DEA5B7 V S K G G R V R L S S E Y L Q P Q G R L R I R L V S A E A F Y P S

UniRef90_V4CHK2 E L L I S L C C N A G H V V V G V E K G S S F T H N

UniRef90_UPI000462AB57 K L S I L V I S G Q Q L P K V

UniRef90_H9G3U5 K A Q M L L V Q V I S G Q Q L P K V

UniRef90_F1L8X0 K A Q T L L V Q V I S G Q Q L P K V

UniRef90_F6QRZ6 S V Q V D L F T H P G T G K I T V K V V A A N D L K W P

UniRef90_UPI00032AFF9C E L K M G F V K I K G N V E V E L I C A R N I V N E

UniRef90_UPI00038BE18A S G A F G D A I D D K D K I Q L K L Q N S S A Y L I K L E L L A A K N L I G A

UniRef90_UPI000265873A K I A I N V V S A Q G L Q A K

UniRef90_UPI0002BCED77 L G Q L W F S V E Y Q P E A E K L L V G L I K A Q Q L X A

UniRef90_B4IXU5 E K Y G A V T I K A L Y R P S E Q K L R V E V L N A V N L I P L

UniRef90_M5XV59 R N S P V K V L V R V Y I V K A T G L A P T

UniRef90_H2UKU4 G K V K V R V V I V A G R N L P V M

UniRef90_UPI00038EC74F Q T L H L R I L S G Q H L P S N

UniRef90_U3J6G6 Q D C L V R V Y I V Q A F G L Q P K

UniRef90_UPI0003EFF51 G R L L V T I L E A T E L K A A

UniRef90_M5WEA8 D P I N V L V R V Y V V R A T D L H P A

UniRef90_UPI0003EC03FA L R N P A P I G L L S V S L S A R N L R I A

UniRef90_UPI00046BB692 P Q G T L E V S L V G A K G L E A T

UniRef90_K7GXC6 P P Q T T L T I K V L T A Q Q L P K L

UniRef90_UPI0003C13577 T V D Y S D K E N Y L V V T L L E A K G L L A L

UniRef90_UPI00032A091F S G K L F V T V V E A A D L I A S

UniRef90_UPI0003AFB1D8 E A G A G A P C G R I X L G L R E E G L V V Q I G E G R G

UniRef90_I2CP21 M G D V Q I G L L S E R N G Q L E V E I T Q A R G L P K P

UniRef90_V7CSY0 L V S T T G V E S M G K L T V T V V Q A T D I P S V

UniRef90_G3WAG3 L I E I E Y S V V G D Q I H V R V I R C K D L R R

UniRef90_K3WXL3 V I G S D K L T L V E Q R Q F L Y V R I V R A N G L P V N

UniRef90_UPI00021A519E D P E E C L I R V Y L I K A V D L Q P Q

UniRef90_UPI0004403CCD T L E V P I L K A M K L K K K

UniRef90_H3AQI9 N S G I G R L L V T V L E A T E L K P C

UniRef90_X6MRP8 R L T V Q V I A G R H L S R R

UniRef90_UPI0003DF5592 D P I N V L V R V Y I V R A T D L H P A

UniRef90_U5FVB1 K L I V N I I S A R Q L P K T

UniRef90_UPI0001CBA4FC Q L R V H V Y Q G R R L P A

UniRef90_B9HR67 G K L K A K I V A G R H L P V M

UniRef90_A7MBY8 G R L M V N I V E G I E L K P C

UniRef90_A0A016VNA3 R G V L E V H L V E D A K G L F G S

UniRef90_UPI0002B44B19 D T G I L E L D I V S A E N L P A H

UniRef90_F4PW60 R G V L E V H L V D A K G L S G S

UniRef90_K3X523 V R V Y V V K A T N L A P A

UniRef90_UPI0003298C6F N S G I L T C T V V R A E N L I S A

UniRef90_H2SVR0 E V Q G K V H L E L R L S E V N H K L A T R V L E C Q G L P I V

UniRef90_W5CF35 G G I P G K N C G T I I L T A E E L G N C R D C A T M Q F C A N K L D K K

UniRef90_G8JMN6 G T L E V L L I G A K G L E N T

UniRef90_I1HTA1 P K K F E V R V L I W R A E N I T D K

UniRef90_UPI000223485C L I I Q I I S G Q Q L P K V

UniRef90_A5DKA9 K V R I Y V I R A F E L A P Q

UniRef90_M4AXV3 N Q G V L R V T L D G R D L R A A

UniRef90_UPI000383625A L Y K A Q L L K V Q V I S G Q Q L P K V

UniRef90_I1IBZ5 V M D K G G M L R L S A E Y C S E N E R I R I R L I S A E G L Y D

UniRef90_K3WDA2

UniRef90_W5UFN0

UniRef90_H2ZAE5

UniRef90_V2XZE8

UniRef90_Q8K3R3

UniRef90_UPI00039927BD

UniRef90_Q9LXU2 D K T K F P E V Y V K A M L G N Q T L R T R L S Q T K T L N P M W N E D
UniRef90_A0A016U1X4 L K P D L E M M A M C K V A I P G L K T G K E Q T S E I K R G R D P F N Q E T
UniRef90_B7PGV5 A A G T P P D T Y V K T I Y L K E G D R Q M Q K R R Q T R N V V R H A C P S Q Y R Q T
UniRef90_A8XGC7 D F G G K S D F A I L E L V L V N T R V I Q T N T I Y K T L S P S W N K I
UniRef90_H2MJ76 D R C G T S D P Y V K L K V D G K T F Y K S K V V Y K S L N P V W N E S
UniRef90_UPI0004629D85 Q C Q R C D S F V K V S L V P D A G R H C R Q Q T T Q I V P D S K N P V F H Q R N
UniRef90_A2E8X1 D K N G K S D P Y V I L K L N R N R G L P Q Q T T V V K A S L N P D I L N E N
UniRef90_H2TFJ5 D M A G L S D P Y A I T R V L G P Q H F T S K H M D N T D S P K W N
UniRef90_W5NED0 K H S K G L N P Y V R V L E H G A P A D N C R K Q T D P V K R T S N P R W D E N
UniRef90_S8C1H0 D N N K K S N P Y V K L Q Y G K A L H K T K P V T Y S T N P T W N Q K
UniRef90_L1IXQ0 D T F G S C D P Y C V I Q Y G G Q T K K T S V K H G Q Y D P V W M E N
UniRef90_F1R4M9 D L S G K S D P F C T L E L G N S K L Q T H T I C K T L N P E W R T A
UniRef90_S2JLU5 D K S G T S D P F V R V K V G R S Q I Y K T K V I P K T L A P E W N E T
UniRef90_UPI000395CD37 G K E L P D P Y V S L V L L P D R S R G T K R K T G V Q R R S L N P D F N E R
UniRef90_G3X289 A K G D V L D P Y V C I E I H G I P A D C S E Q R T K T V Q N S D N P I F D E T
UniRef90_S8VA5 D M L S S D P Y I L L E L G K Q K L S S V V K S N L N P V W N E S
UniRef90_K1RGX4 D V N G K S D P Y C E V S M G I Q E H K T K V I Q A T L N P R W N A S
UniRef90_UPI0003F08BD3 S R S H G H D A Y V I M S T I G R D K Y Q T S V V E K T V H P H W D E Q
UniRef90_W4WC53 D N N K T S D P Y V T V Q V G K A V K K R T R T M P R E L N P V W H E K
UniRef90_C5Z714 D P N G L A D P Y V K G H L G P Y R F H T K I H K K T L N P K W L J E E
UniRef90_G1TFQ6 D V V S Q T D C Y V S L W L P T A S H E K L R T R T I S N C P N P E W N E A
UniRef90_L7MU6 N G S C N P Y A Q V T L C H G N T K Q E T R K K V R R K T V C P R F E D T
UniRef90_F6PPP8 D I F G A S D P Y V K R S A S G S S K T I T C V N T K T K R T L N P S W N E K
UniRef90_G7XMR5 D R G G T S D P Y L V V T L G D A R Q S T P T I P K T L N P E W N V T
UniRef90_W6UYH7 D Q S G L S D P Y A R V C F I P D K Q S K R K T A V K K R N L N P V F N E T
UniRef90_G1NWE2 D K N N T S D P Y C V V R V G A R S F T T S V V K E T L E P V W N Q H
UniRef90_E9DTV6 D A N G L S D P Y V V F G D E Y Q K R L H K T R I I Y K E N L N P R W D E S
UniRef90_A0JP93 N G Q S C D P Y A S V S V V G P S R N E Q K R T K V K K K T S N P Q F N E K
UniRef90_M5WE96 D R S G K C D P Y V K L Q Y G K S L Q R T S T S K R I S D K E N Y I S K Q L N P V W N Q K
UniRef90_K7M3I9 D V T G G V D P Y V E V K L G N Y K G L T K H F E K N S N P Q W N Q V
UniRef90_UPI00045724B4 K Q G S I V D P L V R V E I H G T P G D C A R Q E T K Y I D N N F N P V W Y E T
UniRef90_UPI000258D4D5 N G G C D P F A T V T I Y S N G K Q I L K R T K I K K T V S P Y F N E T
UniRef90_U4U8X3 D L N G K A D P Y V V L Q L P D R S A Q G K R K T G V Q R N T V D P T F Q E T
UniRef90_UPI0003C458A3 D V N G M S D P Y C S L W I S D N R Q K F Q D T S M K P R T L D P I W N E T
UniRef90_UPI0003DEA5B7 E K E E P D T Y V K T Y L S R D G D R W L Q K R K T R V V R H S R N P Q Y R Q T
UniRef90_V4CHK2 D R N G Y S D P F C V V L L D K N K V F T T G V K K K T L F P K W N E T
UniRef90_UPI000462AB57 P N S K I V D P L V R V E I H G V P G D N A K Q E S K Y I D N N F N P K W N E S
UniRef90_H9G3U5 H C P R H I H C C V S L R L R V G L R Q R Q R S A V V K R S R D P I F N E D
UniRef90_F1L8X0 A K L P D T F V I Q V S A V T Q Y G K K V G R N R T A V V K L S S E P C Y D R K
UniRef90_F6QRZ6 N K S K N S D P K V T V E V I L G T P K D S T S Q Q T P M V G N N F N P Q W N W D
UniRef90_UPI00032AFF9C N E K S I V D P F V K V E I F G V R P D T T R Q E T N Y V E N N F N P Y W G Q T
UniRef90_UPI00038BE18A N N T K E R D P L V R V E I Y G I R P D T T C Q E T N Y V E N N F N P Y W G Q T
UniRef90_UPI000265873A N T S M F R P F V E V N L I G P R L H D K K R K F A T K S K N S N P K Y N E T
UniRef90_UPI0002BCED77 D C E T P P D T Y V K C Y I K D G D R L R H K K K T R V V R H A A E P F Y K Q T
UniRef90_B4IXU5 N L N G T S D P Y A M I T C G T E K R F S S M V P G S R N P M W G E E
UniRef90_M5XV59 D R T G S D P Y V T I Q V G K T K K R T K T I Y G N L N P V W E E K
UniRef90_H2UKU4 P S E I C R P L V R L H L P D E W Y F P Q S R I P K L D E H
UniRef90_UPI00038EC74F D S N G S S D P F V Q L L L P R H E F P E V R T T Q C K R R E L H P L F D E A
UniRef90_U3J6G6 D S N G S S D P Y V S L L L L P D K N R G S K R K T S Q K R R T N P E F N E R
UniRef90_UPI00038EFF51 E S P D P Y V K L Q V R R H K S K T R L R N T N P V W N E E
UniRef90_M5WEA8 D P N G K A D P Y L V I Q V G E Q N M D T K D R Y I P K Q L N P V F G
UniRef90_UPI0003EC03FA D R S D T T D A Y V E V K L G S T T Y K T D V C R K S L N P Q W N E W
UniRef90_UPI00046BB692 A K G D S A D P F V V E I F G L P G D C A E E R T R T V R N S M N P S F D E S
UniRef90_K7GXC6 D S N G K C D P Y I K I S L G K K S I N D Q D H Y I P C T L E P V F G K L
UniRef90_UPI0003C13577 K P N G K S N P Y C E V T M G A Q I F T S R V I N D T L N P V K W F N
UniRef90_UPI00032A091F D I N G K A D P Y T A I R L G K T D I R D K E N Y I S K Q L N P V F G K
UniRef90_UPI0003AFB1D8 D I R S S D P Y V Q I K Y G L N Q E W E S T K V R S T L N P V W N E E
UniRef90_I2CP21 D Y L A N M D P Y V I F T C R T Q E Q K S V A T G K G S N P K W N E N
UniRef90_V7CSY0 N P N S I V D P L V W V E I Y G V P R D C A R K N T N Y V N N G F N P Y W G E T
UniRef90_G3WAG3 D G T G L S D P F V K I H C T R N Q S Q R T R T Q K Q T L H P R W R Q R
UniRef90_K3WXL3 S A D G K S D P C V I R V G D N Q S A T P V I K N D L N P K W N Y T
UniRef90_UPI00021A519E P D F V W P G R R G W W A W C L S P F L A H P L X V H R K T L N P V F N E T
UniRef90_UPI0004403CCD G S K T H P A V I T K A Y L L E N G V C I A K K K T K V A R K S L D P L Y N Q V
UniRef90_H3AQI9 D S N G K A D P Y V K V L I H D T L F Q T P T Q K N T L Q P Q W N A K
UniRef90_X6MRP8 A Y E G P V H A V Y V K A S L K N T N G E G V V K R T A V H R A T P N P V F H E T
UniRef90_UPI0003DF5592 N M T V T C V F V E L K N G N Y K R I T R C F E Q T S N P E W N E V
UniRef90_U5FVB1 D P S G L A D P F I K L K L G N Q T I S D V D N Y L P N T I N P V F G K M
UniRef90_UPI0001CBA4FC D L M G A S D P Y V K I K L T E D K L P A K K T T V K H K N L N P V W N E E
UniRef90_B9HR67 K P N G K S D P Y C E L T M G A Q C Y T S R H Q P D T L N P K W S F N
UniRef90_A7MBY8 D H K G L C S P F V E V E V I G L P C D E A I F K T R T I S N G L N P T W N Q T
UniRef90_A0A016VNA3 D I N G K A D P Y I A I K L G K T D I K D K E N Y I S K Q L N P V F G K
UniRef90_UPI0002B44B19 E G G E V T D P Y I T I S M H G A E F D K Q E F K T K V I D N N F N P H W G E E
UniRef90_F4PW60 D S N G L L D P F L V V R C L G E K P K E T S K K K K T R D P L W Y E T
UniRef90_K3X523 D R S D L T D A F V E V K F G N T T F K T D V C P K S L N P Q W N E W
UniRef90_UPI0003298C6F R S H G K S D P Y C E V T M G S Q C H I T K T L Q D T L N P K W N S V
UniRef90_H2SVR0 D F L G K I D P Y V I A Q Y R S Q E R K S T S R D E G R N P S W N E V
UniRef90_W5CF35 D R N G M S D P F T V I K V D G T K L F K T E T I K K S L S P V W N A N
UniRef90_G8JMN6 D F L G K I D P Y V I V Q Y R S Q E R K S S T A R A D Q G R N P A W N E V
UniRef90_I1HTA1 D P N G K A D P Y V V V S T G R E R R D T K E R Y I P K Q L N P I F G E V
UniRef90_UPI000223485C D R N G K S D P Y I K L H L N T E K E H F M K T K K I K R T L D P T W N E S
UniRef90_A5DKA9 N G Q C D P Y A A V S L L G P S R S E A K K T K V K R K T N N P Q F E E T
UniRef90_M4AXV3 D F F G R S D P F V F Y R S N E D G T F T I C H K T E V V K N T L N P I W Q P
UniRef90_UPI000383625A D Y L C N M D P Y A V L K C R S Q E Q R S S I A S G K G S N P E W N E N
UniRef90_I1IBZ5 D N S E I N D Y F V K A W M E G G K A D S T D V H W R C S S G K P C Y W N Y R
UniRef90_K3WDA2 S K K E W S D P L V R V E I Y G V P L D Q T H Q E T K Y I E N N F N P Y W N E T
UniRef90_W5UFN0 D S N G L A D P Y L K I K V G K K R I V D R D N Y I P N S L S P T F G R M
UniRef90_H2ZAE5 D S N G K S D P Y V V F V L N G Q R V H K S E T V K K T L N P D W N E D
UniRef90_V2XZE8 D R T K E T D P L V K V E L Y G V P E D T K E Q E T S H V E N N I N P Y W G E T
UniRef90_Q8K3R3 D S V E P K N I N C C I T F A L V P G K T Q K Q R S T V I K R S R N P I F N E D
UniRef90_UPI00039927BD

UniRef90_Q9LXU2 L M F V V A E P F E E A L I L A V E D R V A P N K D E T L G R C A I P L Q R N
UniRef90_A0A016U1X4 F F F D V T L E E D L D T K N L V T V A A Y H H G K L G K D L M L G E A T V P L Q R N
UniRef90_B7PGV5 L K Y T A A D V L G R S L L V T I V W E D R K G F N E H R N Q F L G G A V L V P L Q R N
UniRef90_A8XGC7 Y T F A V K D I H T Y L L Q V T I F D E D P N N R N R F E F L G G R V R I P L Q R N
UniRef90_H2MJ76 I S I P V R D L N Q K L D I K V Y D R D L T T D D F M G S A S V L L R S E
UniRef90_UPI0004629D85 F L F P L R E E D E Q K R L V V T A W N R T R G S R R Q L I G V G M S F G L V L E A
UniRef90_A2E8X1 F D F T L I D P K T D V L L V Y C Y D W D H H N N H D L I G V G E I P L Q R N
UniRef90_H2TFJ5 E T Y E V L V H E V P G Q E L E V E V Y D K D T D Q D D F L G R T T L D L G I
UniRef90_W5NED0 M N F A I Q V P D L V L V R F V V K D Q N S I L S D D M I G S Y T T L P F T S
UniRef90_S8C1H0 F E F D E E G N G E Y L K I K C Y T E E T F L S D D M I G S A R V N L E G
UniRef90_L1IXQ0 F R L W Y Q E K V E L V V K V Y D H D L V G S H D E I L G E A V I S A S L
UniRef90_F1R4M9 L T F P I R D I H D V L V L T V Y H E D G D K A P D F L G K V A I P L L T
UniRef90_S2JLU5 F T H G V I G G E P F M F D F K V K D H N K I K S A V D L G Q S R V N I W D
UniRef90_UPI000395CD37 F E W E L I S P E E A A R R R L E A T V D D Y G D E F I G Q Y T I P L E C
UniRef90_G3X289 F E E Q I N L P E L A M I R F V V L D D D Y G D E F I G Q Y T I P L E C
UniRef90_S8BVA5 L K L K I P Q D Y G S I K V Q V V D R D L F S P N D F L M G R E T E M R V I N D P
UniRef90_K1RGX4 M Q F T I K D L E Q D V L C I T V F D R D L F S P N D F L M G R E T E M R V I N D P
UniRef90_UPI0003F08BD3 C D L H F S N T E D N V E L Q V V W H E R N K L L D D D F L G Y V A I P L R T
UniRef90_W4WC53 F Y F E E E N S S D R I K V R V W D E D N D L K D D D F L G Q T L I E V I R T
UniRef90_C5Z714 F K I P I T S W E A L N L S L Q V R D K D P I F D D D T L G D C S L S I N K
UniRef90_G1TFQ6 F N F Q I Q S Q V K N V L E L N V C H E D R V T P D D H L L T V L I P L R K
UniRef90_L7M4U6 F A F D L K P Q E F S N L E R V C L Q H D G G M F G S S F L G E V R I P L R D
UniRef90_F6PPP8 F L F R V V P R E N E L L F E V F D E N R L T R D D D F L G Q V D I P I N A D
UniRef90_G7XMR5 F E M P V V G V P L L E C L C W D H D R F G K D Y L G E F D I A L E D
UniRef90_W6UYH7 L I F E N V V I Y G N P N V I V I E L F D W D Q I G T S D S F L G C C S L T P E V
UniRef90_G1NWE2 L R Y S V P Q A E L A R R V L S I E L V W H R E S L G R N I F L G E V I V P L D T S
UniRef90_Q5C2C6 F E S L V D I C H G Q S V T I A T I V Y D K D Q G N K D D Y L G R T S I P L E D
UniRef90_E9DTV6 F D V T V Q G P V N V I A T I W D Y D T F G D H D Y L G R T S I K L L P
UniRef90_A0JP93 F Y F E V T R E D I E K L E V R V D L W N N G N L G Q D V F V L G E I R I S V K V
UniRef90_M5WE96 F E F D E I G D G E Y L M I K C Y I N E D T F G D D S F G S A R V N L I E G
UniRef90_K7M3I9 F A F S K E R I Q A S V L E V V I K D K D V V V D D D F V G R V M F D I N E
UniRef90_UPI00045724B4 L T F S I Q V P E L A L I R F V V E D Y D M T S K N D F V G Q F T M P L S C
UniRef90_UPI000258D4D5 F T F E P E I T E S K E K D I S Q C P L J E H G E V G E V V V D L W H
UniRef90_U4U8X3 F F E I E A T F P Q D S L L T V Q I F D W D L V G S D D M V G E T K I P L E N
UniRef90_UPI0003C458A3 L K Y Q V E L A Q L V T R R L Q V S V W H V G M L T R R V L G E V I V P L A T
UniRef90_E9GDJ5 L N F A V K D V N E D L Q L E I W D Y D P E D E T V K E K M L K Q L A V A S K A
UniRef90_UPI0003DEA5B7 I K Y S S C D A L G R N L V M L W E K K Q F E S N O G L G G A E V S D L
UniRef90_V4CHK2 V T I E L P S D K S E I E I D V Y D K D L G K D F M G K L F V E L D
UniRef90_UPI000462AB57 F R F Q V W V P E L A L R F V V E D Y D K A T W R D F V G Q Y T I P L T S
UniRef90_H9G3U5 F F F E L S V D D L P R L S L R L K V L E N Y K G S G M R N D V L G E C D I P L D S
UniRef90_F1L8X0 F L F Q V S S D L D S I T I L I N V Y A V G V W R K K V Q L G W I S L G S S S
UniRef90_F6QRZ6 L Q F N V T V P E L A L V R F V V D Y D L S S K N D F V G Q C T I P F T S
UniRef90_UPI00032AFF9C L C F R I L V P E L A M V R F V V K D Y N W K S R H D F L G Q Y T L P W C
UniRef90_UPI00038BE18A F H F I N D E Q P A S Y E L H I C V K D Y C F A R D D R L V G V A V M Q L K D
UniRef90_UPI000265873A V I Y S L S M E Q L K K K T E L E V T V W D Y D R F S N D F L G E V L I Q L D S
UniRef90_UPI0002BCED77 I K Y Q S A D V F G R N I V I M V W Q R C V F E H N Q G L G G T E V N L D K
UniRef90_B4IXU5 F N F S V D E L P I K I N V T L Y D W D I T W K S T V L G S V T V P V R T S
UniRef90_M5XV59 F S F E C H N S D R I K L R V W D E D D L K S R D D D F L G Q S I J E V R T
UniRef90_H2UKU4 F I F Q V S G K S I T Q R V L W F S V Y H V D R Q R R H Q L L D Q V L F P L S E
UniRef90_UPI00038EC74F F D L Y S P P Q K C R Q A C L L L T V F D Y D T L G A N D L E G E A F F L P
UniRef90_U3J6G6 F E W E L P L D E A L R R K L D V A V K S S S F M S R E R L G K V Q L D L A E
UniRef90_UPI0003EFF51 F V F K V H D M N E E L L V S V F H H D D F N G D D L V G R V R I P V C S
UniRef90_M5WEA8 E V F E L T V S F P L E T E L V I T V M D H D L V G A N D R I G E T R L D L E N
UniRef90_UPI0003EC03FA Y K F E L T D D I E L Q D E P L Q I R I M D H D T Y S A N D A I G K V Y F N
UniRef90_UPI00046BB692 F Q F Q V C V P E L A L V R F L V L D D D Y I G D D F I G Q Y T I P F D C
UniRef90_K7GXC6 Q F E L T C T L Y D K D L K I T V Y D Y D L L S K D E K I G Q T V I P L E N
UniRef90_UPI0003C13577 C Q F H I K D I Y Q D V L C I A I N E K D Q F S P D E F L G R T E V P L A T
UniRef90_UPI00032A091F S F D I E A C F P M E S M L T V A V Y D W D L V G T D D L I G E T K I D L E N
UniRef90_UPI0003AFB1D8 F Q L K V Y A I D Q P V L F K V L D H D L V G K N D D L G D Y S L S R I D D
UniRef90_I2CP21 F V F N I S E G V N E L R V K I M D S D S M S A D D L V G E V I T I S L D A
UniRef90_V7CSY0 L K F T L R A P E L A L V R F V V K D Y D A I S S D D F V G Q F T L P L C S
UniRef90_G3WAG3 F Y F Y L A K S G P Q Y L E L V E L D Q D Y S N D F L G R C V I N L N E
UniRef90_UPI00021A519E M E F L I S D P N D T V L E L T V F D S D L F S P N D F L G C A K L S L K Q
UniRef90_UPI0004403CCD F Q F S V P L A E L A Q R K L H F S V Y D F D R F S R H D L I G Q V V L D L A E
UniRef90_H3AQI9 L V I F T E N P Q G K L Q V I V W N Y G R I D R K C F M G V A R I L L E
UniRef90_X6MRP8 F V F E G V N I H D D I T L E L W D W N R
UniRef90_UPI0003DF5592 L I L P C P V N N N H C T S L D I A V W H R D R R R R S E L L G C M T L P L P L
UniRef90_U5FVB1 Y A F T R D R L W G G R L E I L V R D K E S A Q V N E I I G C L S F D L G D
UniRef90_UPI0001CBA4FC F E M K A M I P V H K D L K V T I R M D Y D R F S Q D D I I G E T V I D L E N
UniRef90_B9HR67 F N L V V K D P E S Q A L E L R V Y D W E Q V G K H D R M G M N V V P L K D
UniRef90_A7MBY8 C Q F F I K D L Y Q D V L C L T V F E R D Q L S P D D F L G R T E V P L A T
UniRef90_A0A016VNA3 A V F D V T C P E V A L L R F H V E D G D F G P K T D P F I G Q A V F P L D C
UniRef90_UPI0002B44B19 S F D I E A T F P M E S M L T V A V Y D W D L V G T D D L I G E T K I D L E N
UniRef90_F4PW60 F E F P L H D Q V A M L I R V D D K D K F K R Q N R I G H Y C I K V L S N D
UniRef90_K3X523 I Y F D I L P E L Q V A M L R V D M D Y D E F D S N D F V G L A A L N L S D
UniRef90_UPI0003298C6F F K F E V D D E D L Q D E P L Q I T V L D H D T Y S A N D A I G K V Y I N L D P
UniRef90_H2SVR0 C Q F F I K D L E Q D V L C V T V F E R D Q F S P D D F L G R T E I R L A E
UniRef90_W5CF35 F R F Q I S S A A N G Q H K L F R I M D H D N F S S D D F L G Q A T I N V T D
UniRef90_G8JMN6 T K V P I A S R T R S T L J A E V Y D W D R S G S N D L L C T V R F P L S D
UniRef90_I1HTA1 E R F Q I S S A A N V Q H K L F F R I M D H D N F S S D D F L G E A S V N V T D
UniRef90_UPI000223485C L E L S I S L P A E P E L T V A V F D H D L V G S D D L I G E T H I D L E N
UniRef90_A5DKA9 G E V E V N M Y D S V I K V V C N D W D L G P Q D D P L G I G Y I K M S D
UniRef90_M4AXV3 F Y F E V T R P D V D K L A L R V D L W A S N L F G D E F L G G V R V P L R V
UniRef90_UPI000383625A F T I P S N G D Y D R S I K V E V Y D W R D G S H D F L G E F T S Y R E
UniRef90_I1IBZ5 F V F T V S D Q A T E L S V K L M D S D S G T G D D F V G E A T I P L E A
UniRef90_K3WDA2 F K F P V P L R T P E F G R L H I Q L W D K D V L K W N D F L G E A Q L D L Y K
UniRef90_W5UFN0 L Q F V V R T P E L A I V R F V V E D Y D K T S K N D F L G Q Y T L P F S C
UniRef90_H2ZAE5 F E L E L K L P M E K D L H V E V F D W D L I G T D D K I G E T V I D L E N
UniRef90_V2XZE8 F T M S V P S R V H A E F Y C E V Y D W D Q V G R P D F L G N T L I N L A E
UniRef90_Q8K3R3 F Y F R L Q V P E L A M L R F V K D Y S R K R N N F I G Q Y T L P W T C
UniRef90_UPI00039927BD F F F D I A E E E L Y S L S I R M K A L N K G C S M K R D Y L G E Q E L S L M S

	130	140	150
UniRef90_Q9LXU2	V Q R R L D H	R P L N S R W F N L E	
UniRef90_A0A016U1X4	I R E		
UniRef90_B7PGV5	L	L T L A W Y A L Q T P	
UniRef90_A8XGC7	I R N E L S H	K L K K R V K G E V L L L	
UniRef90_H2MJ76	L E M D K V H		
UniRef90_UPI0004629D85	L	L S P G K A Q E L S G W Y Y L L G K D	
UniRef90_A2E8X1	L D V P V E K Q V E L K K E G G H R K E R		
UniRef90_H2TFJ5	V K K S V D D W F A L K D T E S G R V H E W L S L L P S T E L E Q V L		
UniRef90_W5NED0	M K K G Y	R W V P L K S R E	
UniRef90_S8C1H0	L T E G		
UniRef90_L1IXQ0	L S Q		
UniRef90_F1R4M9	I S N G Q Q I T R M L K T N N		
UniRef90_S2JLU5	L K V D V P G G D E F N Q W L P L F P P G S G E L R V S		
UniRef90_UPI000395CD37	L Q P G Y R H		
UniRef90_G3X289	M I T S A T A F G D A G M F S D M Q L G K W L K		
UniRef90_S8BVA5	I L T E S R		
UniRef90_K1RGX4	I	E F H G I P I R R W H K L H N K R	
UniRef90_UPI0003F08BD3	L S G E M D V W Y N L E K R T D K		
UniRef90_W4WC53	L R G G K R H	D I W L A L K N L K T G K I H I A	
UniRef90_C5Z714	L C F R K K T H V K F P L N P E		
UniRef90_G1TFQ6	L G L E R	G C S H Q A W Y L L Q P R S E G	
UniRef90_L7M4U6	S		
UniRef90_F6PPP8	I F Q N G D V	H Q Q P K W Y T L K S K R K	
UniRef90_G7XMR5	V T D P A E F K K V M L	Q W Y P I K K Q R D G G E L L A	
UniRef90_W6UYH7	W D W D S E	A I W L P L Q P R	
UniRef90_G1NWE2	V		
UniRef90_Q5C2C6	V H F G R E F W L D L D S Q G R L L I		
UniRef90_E9DTV6	L R N D S S H R A	W Y L L Q P K D N G S	
UniRef90_A0JP93	L V I E G	S L R D V W I P L E K V N S G E L R L A	
UniRef90_M5WE96	I P K R V	P P D S P L A Q W Y R L E D R R K G E L M L A	
UniRef90_K7M3I9	V Q Q G Y R H		
UniRef90_UPI00045724B4	L G E V R I T L R G L Q K Q P T N A T T A W Y F L Q P R		
UniRef90_UPI000258D4D5			
UniRef90_U4U8X3	W D F E D S T T Q S L	R W H P L R A K	
UniRef90_UPI0003C458A3	P G K P A H K F L G L L N V G L K S I E R W Y Q L E G R D K		
UniRef90_E9GDJ5	L P L A	Q L T V D W Y P L F P	
UniRef90_UPI0003DEA5B7			
UniRef90_V4CHK2	V K P G Y R H I H L L S K D G T R		
UniRef90_UPI000462AB57	L L P		
UniRef90_H9G3U5	T E D E Q E H W H E M I Q G M G T T V S K W H H L M		
UniRef90_F1L8X0	L K M G Y R H I H L L S K N G D Q		
UniRef90_F6QRZ6	M Q Q G Y R H		
UniRef90_UPI00032AFF9C	M K Q G Y R H		
UniRef90_UPI00038BE18A	I V I E Q G S C W L P L G R R I H M D E T G W T L L R		
UniRef90_UPI000265873A	T S	P R W Y P L K E Q T E	
UniRef90_UPI0002BCED77	V	H L D N M N I G Q H I T G W Y P L F P	
UniRef90_B4IXU5	E G Q T G A V W Y T L D S S S G Q		
UniRef90_M5XV59	L S G E M D V W Y N L R K T S N M Q D E I W		
UniRef90_H2UKU4	T L A G N I H W R D L E P K S L E P L S E S G D L Q		
UniRef90_UPI00038EC74F	R R P P L		
UniRef90_U3J6G6	L S Q G S A Q W Y D L T E D K D K		
UniRef90_UPI00038EFF51	V A A E T N C T L P P	A W Y S L E S P K T G	
UniRef90_M5WEA8			
UniRef90_UPI0003EC03FA	L		
UniRef90_UPI00046BB692	L Q P G Y R H I Y L L N N E G D P M E		
UniRef90_K7GXC6			
UniRef90_UPI0003C13577	L K K E F E		
UniRef90_UPI00032A091F			
UniRef90_UPI0003AFB1D8	L P P		
UniRef90_I2CP21	L F R E		
UniRef90_V7CSY0	L K Q G Y R H		
UniRef90_G3WAG3	W R E R F D R W L A L E H K P K E		
UniRef90_K3WXL3	L R D E		
UniRef90_UPI00021A519E	Q P P D R P L W R D I V E		
UniRef90_UPI0004403CCD	L D L S S M G W Y K L		
UniRef90_H3AQI9			
UniRef90_X6MRP8	S Q D K E A T W H P L E A G T G R		
UniRef90_UPI0003DF5592	N P T R F	P P D S P L A R W Y K L E D R N G G E L M L A	
UniRef90_U5FVB1			
UniRef90_UPI0001CBA4FC	L T P E		
UniRef90_B9HR67	I K K D Q D		
UniRef90_A7MBY8	I R C G F R		
UniRef90_A0A016VNA3	S Q T Y S I H G Y N T W R D P M K P S Q I L S K L C K E G K V D		
UniRef90_UPI0002B44B19	I R N G Y R		
UniRef90_F4PW60	A H I R T S Q Q L A D G K L S T L P D P K W Y P V M Y Q E P G D S		
UniRef90_K3X523	L	L Y S E A A S V I S G W F P I	
UniRef90_UPI0003298C6F	L		
UniRef90_H2SVR0	I K K D Q		
UniRef90_W5CF35	L		
UniRef90_G8JMN6	L V P L E Q Q V F T L P L V P Q G R I		
UniRef90_I1HTA1	L		
UniRef90_UPI000223485C			
UniRef90_A5DKA9	V D L E S D E E V P V K L R L D E E		
UniRef90_M4AXV3	L G Q A G V H	D A W Y F L L P R E N G	
UniRef90_UPI000383625A	L S R G Q S Q F Y E V V N P K K K L K K R R Y		
UniRef90_U1IBZ5	V Y A E		
UniRef90_K3WDA2	W		
UniRef90_W5UFN0	L Q P G Y R H		
UniRef90_H2ZAE5			
UniRef90_V2XZE8	L E P		
UniRef90_Q8K3R3	M K Q G Y R H		
UniRef90_UPI00039927BD	M		


```

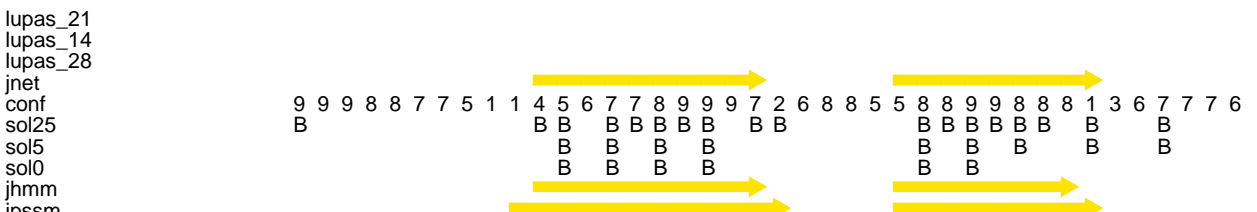
UniRef90_M3YYM5
UniRef90_UPI0001D5D832
UniRef90_A0MZ33
UniRef90_R7UMD0
UniRef90_UPI0003C107F6
UniRef90_J3PPS7
UniRef90_R7US78
UniRef90_V4LD63
UniRef90_G1LTM8
UniRef90_H3D2W8
UniRef90_G3WSY4
UniRef90_E6RB83
UniRef90_U4U2F4
UniRef90_W5LBR1
UniRef90_M4E815
UniRef90_C4LTE8
UniRef90_L8WLS8
UniRef90_UPI00046DADDC
UniRef90_W6QD46
UniRef90_J5PVI0
UniRef90_J9EUZ4
UniRef90_G3W237
UniRef90_F6SWG4
UniRef90_A0A017SB54
UniRef90_G7Y4U6
UniRef90_UPI00046BE139
UniRef90_B7PCK6
UniRef90_UPI00032AE275
UniRef90_A0A059A5H1
UniRef90_UPI000457264B
UniRef90_A8N179
UniRef90_V9KNS3
UniRef90_Q6K295
UniRef90_D2VT46
UniRef90_E5SD09
UniRef90_G8Y9V9
UniRef90_UPI00046D2DE6
UniRef90_F6HAX4
UniRef90_E2B1D3
UniRef90_H3GYJ2
UniRef90_F9X9G2
UniRef90_UPI0003EE2190
UniRef90_M0T499
UniRef90_A6RGU6
UniRef90_B9RC69
UniRef90_M1AVA0
UniRef90_W9S4A9
UniRef90_K4DEX4
UniRef90_H2UXR1
UniRef90_H2MT99
UniRef90_C3ZX34
UniRef90_UPI0002B4BF8B
UniRef90_D0R6I8
UniRef90_T2MIP2
UniRef90_UPI0003C4D2DD
UniRef90_F6YHR5
UniRef90_H3A2R7
UniRef90_M3ZSG9
UniRef90_UPI0003346073
UniRef90_D8UDC3
UniRef90_V5GRX9
UniRef90_A8Q3V0
UniRef90_D6X3H8
UniRef90_H3CR59
UniRef90_H3CJJ6
UniRef90_C1HC23
UniRef90_UPI0003344C42
UniRef90_V8NJH1
UniRef90_W5K3S9
UniRef90_T1PME8
UniRef90_A9NSH0
UniRef90_F0ZRA2
UniRef90_V9G1H5
UniRef90_UPI000443915A
UniRef90_UPI0004628AEB
UniRef90_V8PFE7

```

```

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

```



UniRef90_M3YYM5 MQ Q G Y R H 130 140 150
UniRef90_UPI0001D5D832
UniRef90_A0MZ33 [L][L]A E [I]K G W S E [L]A P R M Y Q [V]L A H K [L]Y F K G E [I]E [V]
UniRef90_R7UMD0
UniRef90_UPI0003C107F6 [L]
UniRef90_J3PPS7 E [I][I]K N P N Q [L]S R R T D R [L]Q G F Q D A D D M
UniRef90_R7US78 [I]F N E T R
UniRef90_V4LD63 [I]E R R [I] N D R P [L][L]G R W F H [L]E D
UniRef90_G1LTM8 [I]F E D K Q R R K T E W F R [L]E S K Q
UniRef90_H3D2W8 [I]R H G Q A [V]T Y [L]K K
UniRef90_G3WSY4 [V]Q Q G Y R H [I]H [L]L S K D G T H P A S [I]F [V]H [I]Q [I]R E E [L]D E
UniRef90_E6RB83 [L]I D S [C]R Q
UniRef90_U4U2F4 [I]
UniRef90_W5LBR1 R F E G Y N A W R D [C]I K P T D [L][L]I K [L]C K D N R [L]D S
UniRef90_M4E815 [L]
UniRef90_C4LTE8 F Y Q G Q [V]S D [L]W [L]Q [L]S K K G Q [I]
UniRef90_L8WSL8 [L]M K D [L] P A R D P N T G [L]Y P [L][L]A E
UniRef90_UPI00046DADDC [L]
UniRef90_W6QD46 [L][I][I]P G G S Q N D H W H P [L]Q Y R G K G D [I]R [I]
UniRef90_J5PVI0 [L]E A G K T Y D W N [L]N [L]N
UniRef90_J9EUZ4 [I]R Q G Y S
UniRef90_G3W237 [L]
UniRef90_F6SWG4 [L]P F S N E [L]W Y N [L][L]P S K Q M P
UniRef90_A0A017SB54 [V] [L]H F S D F [L] P R E Y W [L]D [L]D T Q G R [L]
UniRef90_G7Y4U6 M [L]P [L]K D Y K W N D T S R K R K Q [L]T
UniRef90_UPI00046BE139 [L]D R [C]I S G [I]F E [L]T D H K K H P [L][L]K W F A Y [L]P P S E [C]
UniRef90_B7PCK6 [L]D [L]E R G S H Q A W Y [L][L]Q P R
UniRef90_UPI00032AE275 R [L]L S G F H
UniRef90_A0A059A5H1 F [I]D A [L]R
UniRef90_UPI000457264B [V]
UniRef90_A8N179 [L]
UniRef90_V9KNS3 [V] R K D R [V]V E E W F P [L]N D [V]D H G K [I]H [L]
UniRef90_Q6K295 [V]
UniRef90_D2VT46 [V]
UniRef90_E5SD09 [V] R S K G Y [I]S D W Y A [L]N A [V]K H G N [V]N [L]S
UniRef90_G8Y9V9 [L]Q P
UniRef90_UPI00046D2DE6 [V]G [V]E E [L][L]A N P S Q R Q [I]P [L]Q A R
UniRef90_F6HAX4 E G Q T G A [V]W Y S [L]D S T S G Q
UniRef90_E2B1D3 A S P G M G E Q S [V]F [L]G E P T S T T T A W Y F [L]Q P R
UniRef90_H3GYJ2 F P Q M S S E Y S K I R A S G E P R P K W Y P I [C]Y E K A G D
UniRef90_F9X9G2 [L]N H F N D Y [L] P R E Y W [L]D [L]D S Q G R [V]
UniRef90_UPI0003EE2190 M M P G Y R H [V]Y
UniRef90_M0T499 [V]
UniRef90_A6RGU6 [V]I P G G G Q N D F W H S [L]Q [C]K G K G D [I]R [I]
UniRef90_B9RC69 [L]F [L]E
UniRef90_M1AVA0 [L]R P G [I]R
UniRef90_W9S4A9 E G Q T G A [V]W Y T [L]D S P S G Q [V]C [L]H [I]K T [L]K [L]P
UniRef90_K4DEX4 F [V]E A [L]K
UniRef90_H2UXR1 [L]C R G Q G Q
UniRef90_H2MT99 F S [I]G S [L]V S R S Q [L]T D W F Y [L][L]N E D F G R S K
UniRef90_C3ZX34 M Q Q G Y R H
UniRef90_UPI0002B4BF8B [L]T A E K T H D [I]E [L]
UniRef90_D0R6I8 [L]
UniRef90_T2MIP2 [L]S G E M D [V]W Y N [L]G K R T D R A [V]S G A [I]R [L]K [I]E [I]E G E E K [L]
UniRef90_UPI0003C4D2DD [L]V [P] N R A R S F S [V]C [L]E K R R [L]T K R
UniRef90_F6YHR5 [V]P E R M Y [L]D K W [I]Q [L]E N A E S G Q [L]H [I]
UniRef90_H3A2R7 [L]K K G Y R H
UniRef90_M3ZSG9 [L]
UniRef90_UPI0003346073 [V]P
UniRef90_D8UDC3 [V]R E
UniRef90_V5GRX9 [L]K E K Q Q D W F P [L]K N S K N G R [V]A Q W K P [V]Q
UniRef90_A8Q3V0 [I]R T G F R
UniRef90_D6X3H8 [I]D
UniRef90_H3CR59 [L]K M G Y R H
UniRef90_H3CJJ6 [V]
UniRef90_C1HC23 [L]F D N K Q R K K T D W Y F [L]E S K
UniRef90_UPI0003344C42 [D]F [V]P R E Y W [L]D [L]D T Q G R
UniRef90_V8NJJH1 [L]E [L]G Q P H R H T F [L][L]N
UniRef90_W5K3S9 [L]K D A S R H
UniRef90_T1PME8 [L]Q P G Y R
UniRef90_A9NSH0 F N P D D S K W Y N [V]L S S K F M P
UniRef90_F0ZRA2 [L]F Q E E E G K K [V]V A K S N N N F [L]E K D S N [I][L]K H E D G R R A
UniRef90_V9G1H5 [V]L R G Q K E F
UniRef90_UPI000443915A F G E K Q T F W [L]A [L]E Q Q P E S
UniRef90_UPI0004628AEB [L]D H H A N K S R K K T D W Y K [L]V D K T
UniRef90_V8PFE7 [V]P [L]G E S [I]F F E [L]N S Q K H E [V]L E [V]E F T [L]E N
[I]

lupas_21
lupas_14
lupas_28
jnet
conf 7 6 4 1 7 8 9 9 9 8 7 1 0 5 7 7 7 3 3 2 2 1 1 1 3 6 7 7 7 6 2 0 0 3 8 9
sol25 B
sol5
sol0
jhmm
jpssm