

1 10 20 30 40

QUERY
UniRef90_Q5BJ68
UniRef90_F1NZY9
UniRef90_H9G8P3
UniRef90_H3AUE0
UniRef90_S4RM45
UniRef90_B9EL14
UniRef90_A0A016W7W5
UniRef90_C1C153
UniRef90_UPI0002C2DF62
UniRef90_F1QJ75
UniRef90_T1JT43
UniRef90_UPI00033306BB
UniRef90_F0WGH4
UniRef90_G6CZE4
UniRef90_K8Z5N2
UniRef90_C4WS55
UniRef90_A0A022T4H8
UniRef90_A5AB91
UniRef90_W4KNM9
UniRef90_L1JWN9
UniRef90_A9SBU4
UniRef90_P39865
UniRef90_Q86ZC6
UniRef90_UPI0004623C80
UniRef90_H1VL01
UniRef90_F9X9C0
UniRef90_B8NNN6
UniRef90_W9WZE8
UniRef90_G1X4J3
UniRef90_M2UFW6
UniRef90_S5DFH9
UniRef90_P11832
UniRef90_DONJC7
UniRef90_A5DQE4
UniRef90_I2FW31
UniRef90_V7AMZ8
UniRef90_G3XTN4
UniRef90_G5B7C7
UniRef90_I1HCH9
UniRef90_F7W9R6
UniRef90_S2JBJ2
UniRef90_P11035
UniRef90_A7TNL7
UniRef90_I0YXX2
UniRef90_A7THS1
UniRef90_Q5PY87
UniRef90_A9S9K7
UniRef90_G8IRI3
UniRef90_R9AK70
UniRef90_C5DBN0
UniRef90_F6F400
UniRef90_L8GJL0
UniRef90_UPI0004411499
UniRef90_M3K4N8
UniRef90_D5SWI9
UniRef90_G8YBZ4
UniRef90_M2RA66
UniRef90_G8BRA1
UniRef90_A8N1Y9
UniRef90_K8EMU6
UniRef90_UPI0003D741EA
UniRef90_B7K6A1
UniRef90_C4R6Z9
UniRef90_A0A011SUV9
UniRef90_UPI000262651E
UniRef90_Q6BZ95
UniRef90_D2UY67
UniRef90_F8NVT4
UniRef90_UPI000373481E
UniRef90_B8MJW2
UniRef90_J9MS38
UniRef90_W8U0R0
UniRef90_A1CPH9
UniRef90_A1DEE2
UniRef90_H1VUZ3
UniRef90_K2RR67
UniRef90_W8X926
UniRef90_A0BEH5
UniRef90_Q53028
UniRef90_G2G904
UniRef90_F2G4N4
UniRef90_M7XKB8
UniRef90_U2YQD5
UniRef90_UPI0003735C8C
UniRef90_M5SYA1
UniRef90_S0FZJ4
UniRef90_C5FNV6
UniRef90_V9ZV10
UniRef90_UPI00036F6CF9
UniRef90_UPI00037EFB4B
UniRef90_UPI00047EE34E

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

QUERY UniRef90_Q5BJ68 UniRef90_F1NZY9 UniRef90_H9G8P3 UniRef90_H3AUE0 UniRef90_S4RM45 UniRef90_B9EL14 UniRef90_A0A016W7W5 UniRef90_C1C153 UniRef90_UPI0002C2DF62 UniRef90_F1QJ75 UniRef90_T1JT43 UniRef90_UPI00033306BB UniRef90_F0WGH4 UniRef90_G6CZE4 UniRef90_K8Z5N2 UniRef90_C4WS55 UniRef90_A0A022T4H8 UniRef90_A5AB91 UniRef90_W4KNM9 UniRef90_L1JWN9 UniRef90_A9SBU4 UniRef90_P39865 UniRef90_Q86ZC6 UniRef90_UPI0004623C80 UniRef90_H1VL01 UniRef90_F9X9C0 UniRef90_B8NNN6 UniRef90_W9WZE8 UniRef90_G1X4J3 UniRef90_M2UFW6 UniRef90_S5DFH9 UniRef90_P11832 UniRef90_DONJC7 UniRef90_A5DQE4 UniRef90_I2FW31 UniRef90_V7AMZ8 UniRef90_G3XTN4 UniRef90_G5B7C7 UniRef90_I1HCH9 UniRef90_F7W9R6 UniRef90_S2JB2J UniRef90_P11035 UniRef90_A7TNL7 UniRef90_I0YXX2 UniRef90_A7THS1 UniRef90_Q5PY87 UniRef90_A9S9K7 UniRef90_G8IRI3 UniRef90_R9AK70 UniRef90_C5DBN0 UniRef90_F6F400 UniRef90_L8GJL0 UniRef90_UPI0004411499 UniRef90_M3K4N8 UniRef90_D5SWI9 UniRef90_G8YBZ4 UniRef90_M2RA66 UniRef90_G8BRA1 UniRef90_A8N1Y9 UniRef90_K8EMU6 UniRef90_UPI0003D741EA UniRef90_B7K6A1 UniRef90_C4R6Z9 UniRef90_A0A011SUV9 UniRef90_UPI000262651E UniRef90_Q6BZ95 UniRef90_D2UY67 UniRef90_F8NVT4 UniRef90_UPI000373481E UniRef90_B8MJW2 UniRef90_J9MS38 UniRef90_W8U0R0 UniRef90_A1CPH9 UniRef90_A1DEE2 UniRef90_H1VUZ3 UniRef90_K2RR67 UniRef90_W8X926 UniRef90_A0BEH5 UniRef90_Q53028 UniRef90_G2G904 UniRef90_F2G4N4 UniRef90_M7XKB8 UniRef90_U2YQD5 UniRef90_UPI0003735C8C UniRef90_M5SYA1 UniRef90_S0FZJ4 UniRef90_C5FNV6 UniRef90_V9ZV10 UniRef90_UPI00036F6CF9 UniRef90_UPI00037EFB4B UniRef90_UPI00047EE34E

50 60 70 80

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

QUERY G P P P M I Q Y A C L P N L E R V G H P K E R C F A F
UniRef90_Q5BJ68 G P P P M I Q F A C C Q D N L T K L G Y P E A G R F A Y
UniRef90_F1NZY9 G P P P M I Q Y F A C C I P N L D K L G Y A K D M R F A F
UniRef90_H9G8P3 G P P P M I Q F A C C Q P N L E K L G Y A K E S T F A Y
UniRef90_H3AUE0 G P P P M I Q F A C C N P N L D K L G Y Q Q D M R F A Y
UniRef90_S4RM45 G P P P M I Q F A C C Y P S L D K L E Y T Q A M R F S Y
UniRef90_B9EL14 G P P P M I Q H A C C L P N L S T L G Y K T E N T F T Y
UniRef90_A0A016W7W5 G P P P M I N C A C C I P S L D K L G Y D S E N F L F
UniRef90_C1C153 G P P P M I K F A C C I V N L E K L G H T E D Q M F S F
UniRef90_UPI0002C2DF62 G P P A M V Q L A C C H P N L D K L G Y S Q R M R F T Y
UniRef90_F1QJ75 G P P P M I Q F A C C N P N L D K L G Y R Q S Q R F A Y
UniRef90_T1JT43 G P P A M I R E T C C Q P L L D K L G Y N E S K R H V F
UniRef90_UPI00033306BB G P P A L I Q S A A H P N L E L L G Y T K D M I F T Y
UniRef90_F0WGH4 G P P P M L T Y A V Q P A L E R L G F E K S M L F A F
UniRef90_G6CZE4 G P P P M I N F A C N P A L E K L G Y S E N L R F A Y
UniRef90_K8Z5N2 G P P A M L K L A V I P A F E K E G I A E N Q Y Y T Y
UniRef90_C4WS55 G P P P M I N F A C I P N L D K L G Y D A
UniRef90_A0A022T4H8 G P P A M I N F A C T P N L D K L G Y D
UniRef90_A5AB91 G P P G M V N A A K K G L A G L G F Q A D Q I F S F
UniRef90_W4KNM9 G P P P M M A A M K K Y L D E L K Y A A D Q V F L F
UniRef90_L1JWN9 G P P P M I D F A V R P N L D K L G F S K S Q M L A F
UniRef90_A9SBU4 G P P P M N R A I A G H C E A L G Y T K E M Q F Q F
UniRef90_P39865 G P P P M I Q F A V Q P N L E K L G Y D
UniRef90_Q86ZC6 G P P G M V N A S K K G L V D L G Y Q S D Q I F V F
UniRef90_UPI0004623C80 G P P P M I T A M K K H L A E L N Y A E D Q V F C F
UniRef90_H1VL01 G P P G L M N A V L V G A L K E L G Y S P D Q V Y K F
UniRef90_F9X9C0 G P P G M V N A T K D N L V E L G F E D D Q I F C F
UniRef90_B8NNN6 G P P P M V A A M K K T L Q G M G W A G D Q V F L F
UniRef90_W9WZE8 G P P G M Y K A I L T G I L K E L G Y A K D Q V F K F
UniRef90_G1X4J3 G P P P M V S A M K N H C K A L G Y E P A Q V F C F
UniRef90_M2UFW6 G P P G M Y K A I S G Y L K E L G Y S K D Q V Y K F
UniRef90_S5DFH9 G P P P M I Q F A V Q P S L V K I G Y D
UniRef90_P11832 G P P P M L Q F A L Q P N L E K M G Y
UniRef90_DONJC7 G P P P M M Q G E L Q G L L K D M N Y T S T Q V F K F
UniRef90_A5DQE4 G P P G L Y K A E V T G V L A E L G Y T K E N V Y K F
UniRef90_I2FW31 G P P P M Q N S V K K H L A E L G Y N E D Q V F F F
UniRef90_V7AMZ8 G P P G M N I A M A T H L D E L G Y T S N M Q F Q F
UniRef90_G3XTN4 G P P P M V G A M K K V L L D L G W T M D Q V F L F
UniRef90_G5B7C7 G P P P L L Q T A A H P S L E Q L A Y T K D M I F T Y
UniRef90_I1HCH9 G P P G L M N H I V S G L L K D L G Y T A D M V Y K F
UniRef90_F7W9R6 G P P P M V A A M S K N L V S L G F K A D Q V F L F
UniRef90_S2JBJ2 G P P P M V K S I A E G V L K E L G Y S Q E K V F K F
UniRef90_P11035 G P P P M I Q F A V Q P N L E K M Q Y
UniRef90_A7TNL7 G P P L P M V S A I K R S A V A L G F P K D Q V F V F
UniRef90_I0YXX2 G P P G M N V A V K K A L D G L G Y T R E M Q F E F
UniRef90_A7THS1 G P P P F M N A Y S G D L L K E L G Y T I D Q V Y K F
UniRef90_Q5PY87 G P P P M N K A M A A H L D A L G Y T S Q M Q F Q F
UniRef90_A9S9K7 G P Q E L I Q E A C I P C L L K H K Y E K S A C L E F
UniRef90_G8IRI3 G P P P M L K F A C D P A L D S L G Y D K S L R F C F
UniRef90_R9AK70 G P P P M I N A M K K H L D D L K Y P A D Q I F C F
UniRef90_C5DBN0 G P P G M V S S V K K N A V A L G F E K D Q V F V F
UniRef90_F6F400 G P P A M M G A M R G V L A E L G V P D A Q L H T
UniRef90_L8GJL0 G P T P M V N A Q I G N L Q K L G Y S E N Q Y F K F
UniRef90_UPI0004411499 G P P P M M T A M
UniRef90_M3K4N8 G P P A L Y K A I C G D A L K D L G F E K N H V Y K F
UniRef90_D5SWI9 G P D A M M D A T R E L L T E L G V P A E Q I F T
UniRef90_G8YBZ4 G P P D M K K S L I D I T H S M G W P K D Q V F C F
UniRef90_M2RA66 G P S A M I S D T L R P G L R R L R W D V Q Q
UniRef90_G8BRA1 G P P L P M V S S V K R C A V A L G F A E D E V F V F
UniRef90_A8N1Y9 G P P P M V N A M K K N L D E L K Y P Q D K V E V F
UniRef90_K8EMU6 G P P P M M K F A V N P A F E K L E I G K E H V L T
UniRef90_UPI0003D741EA G P P P L T I Q A A A H P S L E Q L S Y T K D M I F I Y
UniRef90_B7K6A1 G P P D G F M K G V K S L V E S M G F P M E N Y H Q
UniRef90_C4R6Z9 G P P P M V S S C K K N A V L L G Y P K D Q V F V F
UniRef90_A0A011SUV9 G P P L M I Q A V Y A M L D D C G V D P E D I H Q
UniRef90_UPI000262651E G P P E L M D T V R A V L A E L G V P G T L I H Q
UniRef90_Q6BZ95 G P P E M K R S L I D I S A E L G W E D Q V F C F
UniRef90_D2UY67 G P P P M L A A M K K V L E E L E M K R D H F F S F
UniRef90_F8NVT4 G P D A M L S H T V K P G L T R L G W D E D S L V V F
UniRef90_UPI000373481E G P P P M M N A V I K M L E D L G V E P E N I
UniRef90_B8MJW2 G P P G L E T A L T G K I L G E L G Y K K D Q I F K F
UniRef90_J9MS38 G P P A M E E A L V G K W L G E L G I E K G K I H K F
UniRef90_W8U0R0 G P P P M M N A V I K M L K D L G V E D D N I
UniRef90_A1CPH9 G P E P M E K S A K T I L L A Q G W E E S N L H F F
UniRef90_A1DEE2 G P P A M I Q K A V L P V L K K W G Y D E D N L F G F
UniRef90_H1VUZ3 G P P T M I Q K A V L P A L K D W G Y E E D N V F G F
UniRef90_K2RR67 G P P P M V S A M K K A A E S L G F D E D Q V F C F
UniRef90_W8X926 G A P A M V E A A R R D F V Y Q Q G L P P E A F H A
UniRef90_A0BEH5 G P K T M N K L V I Q L Y E Q F G V K K D N I V K F
UniRef90_Q53028 G P P P M I D A A V P L L V E R G V R P R N I Y
UniRef90_G2G904 G P H G M V Q D A Q R V L S G L G V P R E R V H Q
UniRef90_F2G4N4 G P P A M M D A T K K M L A E L G M P D T H I
UniRef90_M7XKB8 G P E G M M E I A L D L L A E R K E N P E R I H K
UniRef90_U2YQD5 G P P L M I A A V M S A L E R G A G V P P E R I F
UniRef90_UPI0003735C8C G P E P M M S A T I S S L R S L G V D E A Q I H T
UniRef90_M5SYA1 G P P P M M N A A V F K M L D D L G V E P E N I
UniRef90_S0FZJ4 G P P P M I D A V I E S L Y D L G V E D D M I F
UniRef90_C5FNV6 G P P A M L Q K A V M P A L T Q W G Y K E E N L F G F
UniRef90_V9ZV10 G P L G F M K A I K A Q L L A L G I P A D R M H
UniRef90_UPI00036F6CF9 G P D P F M R A V R D M L Q A A G F D M A H Y H Q
UniRef90_UPI00037EFB4B G P P M M N S A V I G M L T N L G V E K E N I
UniRef90_UPI00047EE34E G P P M M T A A V F K M L D E L G V P P E N I

UniRef90_UPI000466A053 1 G P Y G N A F P V E T K G E N L L F I A G G G G L A P L R S V I N Y V 40
UniRef90_A9L278 G P F G G E F F V K E T D A E M V F I A G G G A G M A P M R S H I F D Q
UniRef90_UPI0004668FE6 F V E G P Y G V F T W V P R D S P E E G A V F V A G G G A G M A P F L S M L F R T A
UniRef90_G9ZGF5 G P F G E F F A K V R D T D A E M V F I A G G G A G M A P M R S H I F D Q
UniRef90_S5YZ89 A Y G P S G G L F H N Q C Q T G K K Y L F I S A G G S G I T P V M S M T T W A
UniRef90_L7X5W3 G H F T Y E G K G K Y V N G K N K A K Q M S M L A G G G T G I T P L L Q V L E A V
UniRef90_UPI000472B50F P Y G G L S L D P A A Y R P L L M I A G G G T G L A P M M A M L N T L
UniRef90_C8X745 P Y G G L S L D P A A Y R P L L M I A G G G T G L A P M M A M L N T L
UniRef90_C9SPN0 G P K G A F V T P N M V R H F G M I A G G G T G I T P M L S M L K T L
UniRef90_UPI000463C3BF P Y G E F T P D L K A K Q P L V L I S A G G V G I T P M L S M L K T L
UniRef90_C5DP66 F M G P V G K L N Y Y C N S S T A I G L V A G G S G L T P I L Q V L N E L
UniRef90_Q7NRJ7 G P M G S F F L R E E S D K P I V L I A S G G T G F A P V K G I I E H A
UniRef90_UPI00037F44B4 G P F G V F T L R D A P G A E V V F V A G G G A G M A P V L A L L R S M
UniRef90_F4S0N5 G P P K W A Y K A N E F K T I G M I A G G S G I T P H W Q I I Q E I
UniRef90_UPI000372B9EC P A G D F F L A D Q P A R P V V L L A G G V G L T P M V S M V E H L
UniRef90_V8CYU2 A L R P A G S F V P S R W D K P L V L V A G G S G I T P V L S I L K T A
UniRef90_J3D2W4 G P L G T F F L R E D S S K P L I L V A S G G T G Y A P I R S M L Q Y A
UniRef90_K0C4M0 P T G A F Q Y D P E S D R A L L L A G G V G I T P M L S M A R H A
UniRef90_V9DMV7 F K P L H E F T D Y K P N E Y S A M T F V A G G S G I T P L Y Q L I R A I
UniRef90_L0P8A5 G P V P K Y L W S Q N M H E H V I L I A G G T G I T P M Y Q F I R K I
UniRef90_L8JNG8 V M E P M G V F T Y K A E R Q K N H L V M F A G G S G I T P M M S I T K S T
UniRef90_UPI00046EAB16 G R F G Y Q P T G T E R N Q N Y L A I A A G S G L T P M L S I I K S T T
UniRef90_UPI000376E3D5 A E G P Y G S F F L R E D S D K P M V L L A S G G T G F A P I K A L I E H M
UniRef90_Q01012 G E F S T L N P A T G V V S K K A C K N I A M I A G G T G I T P M L Q V I R Q I
UniRef90_B8N5W0 P F G D F V L D V N A T T P V V L I A S G G V G L T P M M S M L K T L
UniRef90_I5CJB2 F E G P Y G A F F L R E A T G K P V I L L A G G T G F A P V K A I V E Y A
UniRef90_S6EPY1 P T G N F L L I D S Q K P N V F I S G G V G L T P M L A M L N Q L
UniRef90_UPI0004688A51 P A G D F F L D M S S R L P V V L I S G G V G I T P M M S M L Q T L
UniRef90_H3G914 G H F T Y N G G S S F S L E T T H A G K F G F I A G G T G I T P V Y Q I M R A I
UniRef90_Q0A5T8 G P H G A F Y L R E P E G P L V M V A G G T G L A P M M A M L D T V I
UniRef90_M4B822 R G Q L K L T N L R H V V M V A A G T G I T P M M Q L I R A L
UniRef90_H0TH16 G P Y G T C F R R E R R T G P M I L V G G G S G M S P L W S I L Q D H
UniRef90_C9ZSH7 G P W K T M D I K S G Q V E H I G M L A G G T G V T P M Y Q I A R N F
UniRef90_W6KHZ8 P T P S T T R R F H V D R F A M I A G G S G I T P F L Q I I H A I
UniRef90_S7Z9T9 G R F E Y L G N G Q V L G K K R H V K S F K M I C G G G T G I T P I F Q V L R A V
UniRef90_UPI00025562B9 G P F G E F F A K D T D A E M V F V A G G G A G M A P M R S H I L D Q
UniRef90_G0V8U9 G P A G N Y H Y E P N C R N K L G M I A G G T G I A P M F Q I M K A I
UniRef90_UPI0003B57C04 G P V G K F T F T G T E A D S I V L L A S G G V G V T P M M S I S R Y L
UniRef90_N4UZ73 G P K G A F V T P N M V R H F G M I A G G T G I T P M L Q L I R A V
UniRef90_D0DC61 V L G P G G R F T A F E N P A E K Y L F I S A G S G I T P M M S M A T E F
UniRef90_B8M2D4 G K L I Y L G H G R L N D K E R T V K S F R M I C G G S G L T P I Y Q V L R A V
UniRef90_A6CW45 L P A G D F F Y K E V N K P V V L I S A G V G C T P M Q A M L Q Q L
UniRef90_R5EK01 G P F G E F F A R D T D N E M V F I G G G A G M A P M R S H I F D Q
UniRef90_UPI000427B404 P T G S W R A D P A T G E R H L C V A A G S G I T P L L S V A S T V
UniRef90_UPI00047590D5 A F D P A G A F T P V G H R T A K M L F L A S G S G I T P V M S M A R T Y
UniRef90_K2D3E7 Y Y L G P F G T F G L K G D D A K T L L F L A T G S G C A P F R C M I E H A
UniRef90_D4H1M0 G P F G E F F A Q D T E N E M V F I G G G A G M A P L R S I V F D Q
UniRef90_R7V832 G P L G Q F D H T P N K F Q H L V L V A A G T G I A P M L S I I D H V
UniRef90_Q3ADK3 G P Y G N H F P Y E M M G K D L L F I G G G L G L A P L R S L I D F V
UniRef90_Q47JE3 G P H G T F Y L R E D S K K P M I L L A G G T G F A P I K A I V E H A
UniRef90_N9VIR8 G P F G E F N L S A L P C D R P L L L A S A G S G I T P M W A M L R D E
UniRef90_UPI0003455A06 P T G R F S P D L G R A G R H V L V A A G S G I S P V L S M A S S L
UniRef90_K9E0C8 F R G P F G N T F P T D E K G K N L L F V A G G T A L P P M R C V I W N A
UniRef90_B4SHA0 F R G P Y G N R F P L E E F Y K N L L F I S G G I A L P P T R S V I W S C
UniRef90_M7NSE6 G P Y G S F T P E P K H L F L V M G G I G V T P A M S M L R W C
UniRef90_A4INU4 P A G D F T L D L A K E T P V V F I S G G V G I T P L L S M A N T L
UniRef90_C0G1K6 G P Y G K G F P R D F M G K D I L F I A G G I A L A P L R S L I N Y C
UniRef90_UPI000374A1B6 P A G E F F L E A L P Q R P V V L L A S G G V G L T P M V A M L E W L
UniRef90_UPI0002FD6C8E P R G R F T F D M S S P R P A V L I S A G V G L T P M I A M L E R A
UniRef90_D9QUC1 K F T G P F G H F Y L D E E S D R E L I L I G G G A G M A P M R G L E R L
UniRef90_UPI000366B935 L G P A G E F T C A R R S P A G K Y L F L S A G S G I T P L M S M S R A F
UniRef90_B0SVE8 P A G D F F L A D Q P A R P V V L L A S G G V G L T P M V S M V E H I
UniRef90_A0A031GCQ6 F E G P M G T F F L R E D S D K P V V L L A S G T G F A P L K A I V E H M
UniRef90_UPI0002F139A0 P D G A F Y L E Q N P K H P L L L L A S A G S G I T P M L S M L R Y L
UniRef90_A3YCM6 P A G D F V F K N K G K P V V A I S A G V G L T P M Q A L E S L
UniRef90_UPI000382F4A3 P S G L F A I P V D H D Q P V V L L A A G V G I T P F L G Y L E T L
UniRef90_UPI00035EFD5F G S F T Y L G E R Q I R W K P R R V R K L A M I A G G S G I T P I W S T L K A I
UniRef90_UPI00036D51FD A V G P M G E F S C T P S P A P K Y L F L S G G S G I T P V M S M A R T F
UniRef90_UPI0002DB4D20 G P L G N F Y L R E D S D R P L L I L V S G G T G F A P L K A M I E H A
UniRef90_I3CXQ8 P V G N F N C I D N P T D K A L L L A S G G V G I T P V I S M A R W W
UniRef90_UPI00040ADFEF G P A G D F T L D T A T D R P V V L L A A G V G I T P M M A M L R H L
UniRef90_UPI000425F650 G R F Y V G P Y G R F F V K K S A H V P V L F F A G G S G L A S P K A M L L D L
UniRef90_J7S1D6 G P L G L M N Y A P N S K E F G M V A A G S G I T P A L Q L L N E I
UniRef90_V8QYU3 P A G D F Y L S D N S T P E R P V V L L S G G V G L T P M V S M L E T L
UniRef90_B7QVP4 A F G P A G L F T N A D S N A N K Y L F I S A G S G I T P M M S M T T C M
UniRef90_T1DS97 G P Y G D F H I Q D T N A E M L Y L I G G G A G M A P L R A H I L H L
UniRef90_E9EFU4 P F G D F V L D V N A T T P V V L M S G G V G I T P M M A M L K T L
UniRef90_A5V4A8 P H G S F T W T F D P D R S A V Y F A G G S G I T P L L S L L K T A
UniRef90_B1Z4R7 G P L G S F Y L R D V A R P L L F L A G G T G L A P F L S M L E V
UniRef90_S2L1Z5 R L T L T G P M G S F Y L R D V K R P L L M L A G G T G L A P F L S M L E Q L
UniRef90_U5T1K1 F E G P L G N F L R D D S D R P M L L I G G G T G F S P V K G I V E Q A
UniRef90_UPI0002EB71C2 P A G D F T I D V N D S K P V Y F I A G G V G I T P F M S M L Q A T
UniRef90_C9YAY0 T L T I S T P R N L F P L D S A A P H H L L L A G G V G I T P M L A M A E H L
UniRef90_V2XIP2 G S F I W K G S S T Y K T V S R V V K D V G M V C A G S G I T P L F Q I L T Y I
UniRef90_S9TXH5 G P L G T F F L R E E S D K P I V L L A S G T G F A P L K A I V E H A
UniRef90_B2JE11 V L A P S G T F V P K T L D T D F L L L A A G S G I T P M M A I L K S A
UniRef90_I4BQ20 V L A P S G T F V P K T L D T D F L L L A A G S G I T P M M A I L K S A
UniRef90_V5AQN7 G N Y T V K D G K G K L K K M H T D A F T M V A G G T G I T P M M Q L I R A I
UniRef90_T1XLE0 P H G T F C Y H A E D Y R P L T M V A T G T G L A P I K S I L E S L
UniRef90_F8UHK3 G S F G T F F L R E D S D K P I V L V A S G T G F A P I K S L E H A
UniRef90_A0A017T2A5 P A G D F V L D R T S D R P V V L L A S A G V G L T P M V S M L N A L

UniRef90_UPI000466A053 L D N R E N Y G S V D I L L Y G S R S A D D L V Q L K E I Q E V W C K T E G V N 80
UniRef90_A9L278 L K S K K T T R K M S F W Y G A R S T R E V F Y Q A D F D A L A A E N D N F W H
UniRef90_UPI0004668FE6 A A R G V I R E K I L W L V Y A G A N L S K R D E A I A R Q E E F D D A L A A R R L P L T
UniRef90_G9ZGF5 L K R L H S K R K I T F W Y G A N L S K R E I F Y Q E E F D D A L A A K E F P N F W H
UniRef90_S5YZ89 W D S G E M P D I V F V H A A N R T S P S D L I F R Q R L E G M A D R E V P G Q L H
UniRef90_L7X5W3 L A R G D K E A P T C M S L I Y A A N R S Q A S V H A M R D E I N E A A R Q H A N L R R K
UniRef90_UPI000472B50F L K A R G E A A R E L R F V H A C N N S Q A S V H A M R D E I N E A A R Q H A N L R R K
UniRef90_C8X745 I D S G G R P T H L F H G V R T G R E A Y D Q A W L A A T A A E H H T W L S
UniRef90_C9SPN0 I R G R G D T T Q V D L I F A N R S L Q Q D I L L K E D L D A L A K E D S G F R
UniRef90_UPI000463C3BF V R D Q S T R D V W F L H A G R S L Q H V P L H D E L I A S T E Q L P T L N
UniRef90_C5DP66 I T T P E D V T K I S L L Y A N E T E N D I L L K D E L D E L V D K Y P H F E
UniRef90_Q7NRJ7 L H H G I T R P M Q F Y W G A R T K A D L Y M S E L A E G W A A A H P N F R Y
UniRef90_UPI00037F44B4 A E R G I D R K A T F Y G A R R R H D L C F E A E L A I A G L K N F R Y
UniRef90_F4S0N5 A S N P E D Q T K V I L F F S N Q K E E D I L L R E E F E K L Q K E K P H Q F S
UniRef90_UPI000372B9EC A Q A H R P E L E A H F V H G A L N S A D V H A L D G S T V R A L A K D R Y H G G V T V
UniRef90_V8CYU2 L E V H R R P E V V L V Y A N R S A E S V M F A S T L A D L L Q R Y P T R L E
UniRef90_J3D2W4 F E A M P N R D I H L Y W G G R T R A D L Y L A D P A Q W D A Q H R F H F I
UniRef90_K0C4M0 L S E G L T R K M R F I G G A R S H Q H R A F F D E F D K I A E A S Q N Q I Q
UniRef90_V9DMV7 L D N P E D K T K I A L V Y A N N S E E D I L L K K E F D D L A A Q K F P D R F N
UniRef90_L0P8A5 F G N K E E K T R V I L I T A N E R L I F M L F E F E Q L R K K Y P D R F N
UniRef90_L8JNG8 L T Q E P E S I L S L I Y C N R D I D S I F K E Q L E A L Q T D Y E G R F H
UniRef90_UPI00046EAB16 L L L E P K S E F T L Y G N R T S R S I M F K E A L C D L K N R F P Q R L Q
UniRef90_UPI000376E3D5 Q H R G I T R P A T L Y W G G R R S P S D L Y M A D W V I E A R L A E M P H L R Y
UniRef90_Q01012 F S D V G D T T R V S L L F A N V R S A D I L L K K E L A D L A A A H K N L S
UniRef90_B8N5W0 V D Q G G S R R V V F I H A V R N S G R V H A M K D R L A K I L S E N P Q V Q R
UniRef90_I5CJB2 L Q R G S A R E F H I Y W G G R R R R D L V L A D L P Y K W A E D H P N V H F V
UniRef90_S6EPY1 V E S Q N V P S P V F I H A C N N A D V H A M K A H V D G V K A Q Y K N V S T
UniRef90_UPI0004688A51 V E S Q S R E V T F I H A A I N G D Y H A M R D D V E N L A V D H P N V K S F
UniRef90_H3G914 L E N P S D K T K V A L I Y C V R L E R D L L L R K E L E A L Q K L R P G Q C R E
UniRef90_Q0A5T8 R V I Q G S R A K T L L S F G C A T P D N L F H G D E L E L R C F W M S K L E
UniRef90_M4B822 V E N S K D M A K I T L V D C N Y S L E H I A R T Q L E P I L A N M F Q E R V K
UniRef90_H0TH16 L A S G E D R Q V C F F Y G A R T R N D L F Y L D R F A I A A A C P S F S F
UniRef90_C9ZSH7 L G R P S N T T K F S L V C S A N H S K A E M L L A D R F G Q L A N D N E G G K L F
UniRef90_W6KHZ8 R K D P S D R T E V D L I Y A N Q S P E D I L L R E E F D I T F V R E G E G R V R
UniRef90_S7Z9T9 M Q Y S S D P T R C V V L D G N R S L E E D I L C R D E L D T Y T A Q D S E K C T
UniRef90_UPI00025562B9 L K R I G T K R K I S F W Y G A R S L K E L E Y K E E F D K E A E E Y P N D F W
UniRef90_G0V8U9 Y L N P K D T T E V T L Y G N V Q E A D I L R K E L D E M V K M R P D Q F K
UniRef90_UPI0003B57C04 T E L S W P G D I F F V Y S C S T P A D V I F A D K L P A L Q R L N P K L H L
UniRef90_N4UZ73 I R G R G D K T E I D L I F A N V T P Q D I L L K E D L D A L A K E D S G F R
UniRef90_D0DC61 Y D R G R S C D I V F V I C A N R V P S E L F R E R L E H M A S R E E G L D L R
UniRef90_B8M2D4 V T N T Q D P T E C V V L D G N R M E E D L L C R E E L D S Y A S M N D M R C T
UniRef90_A6CW45 A K D G K S D P V T Y L H A C G E N S Q Q H S F I D E V D T V S A K G N H R V
UniRef90_R5EK01 L K R L N S K R K I S F W Y G A R S L Q E V F Y A D E F D Q L A K E H P N F W H
UniRef90_UPI000427B404 L A H P S A Q V S L V Y G N R T S R T V M F A E E L G D L K N R Y G P R L Q
UniRef90_UPI00047590D5 A D L G I H Q D I V F V H N A R S P D D I F H Q E L T R L A G E N P H F R L
UniRef90_K2D3E7 L R E K G Y T K P I T L Y I G L N H S Q D V F W I D Y L E N L K R E F T N F N
UniRef90_D4H1M0 L K R L N S K R K I S Y W Y G G R S K K E L F Y L K D F E E L Q K E F D N F W H
UniRef90_R7V832 L N N D V D E T R V V I F C A R S S S D V L C R S L T R D F T D Y W N F S V T
UniRef90_Q3ADK3 L E N R K D Y G K V E I L Y G A R S S A D L C F K Y D L F D N W P K Q P D T K
UniRef90_Q47JE3 I A E Q C E R P M F I Y W G A K A R V D L Y Q N A L P E Q W T A E H G S I K Y
UniRef90_N9VIR8 L A K R P D A D I R E I H S A R S S A E D V I F G H E L A S L A E A H P G V R H
UniRef90_UPI0003455A06 L A R T D S T V T L L Y G N R S S A S V M F A D E L A D L K E Y G A R L E
UniRef90_K9E0C8 L D L R E N F N D I T I V Y G A K S V G D L V Y K E E L K E W D N R P D V R L I
UniRef90_B4SHA0 L D Q R E K F G H V T I V Y G A R T V A D L V Y K H E L E E W E N R A D V D L V
UniRef90_M7NSE6 R D T K D P R K A L I Y G S E K Y K D I T F R D E L E E Q Q L D L Q
UniRef90_A4INU4 A I R Q P N R P V T F L Q A A L N G R V Q A F D Q E L Q T L A K N P V F S Y
UniRef90_C0GIK6 M D N R D D F G K I D L I Y G S R S D D L I Q K V E I F E N W P K V R D T D
UniRef90_UPI000374A1B6 V E K G A E Q P V H Y I H G T H R D R T H A M R A H V R A L A E Q G S D R V
UniRef90_UPI0002FD6C8E L A D D N P S R R V V F V H G A R T A A D R P F A A E L M Q R A A V D A R L S
UniRef90_D9QUC1 D E L G M P R P T R Y Y F G A R S S D E L I Y G D R F A E L E A E K Y D N F E Y
UniRef90_UPI000366B935 H E L G E D R D I V F V H S A R T P D D I F A R E L D L I A A Q R F R T S
UniRef90_B0SVE8 A K Q H P E L E V H F V H G A L N S D V H A L D G H H V R A L A K D H G G V T V
UniRef90_A0A031GCQ6 I N E R S T R P I L T F Y W G G R R P H D L Y M D A L C R Q W A A D L P Q F T Y
UniRef90_UPI0002F139A0 A D H G Q I D D L V F Y H Q C S E E D I P Y Q A E I D Q I A N E H P G L Q
UniRef90_A3YCM6 A E Q R S E A E I H Y L H A C E N H E Q H S F K K R V K Q L A S K L N
UniRef90_UPI000382F4A3 A S T G G S P E V V L H Y G N R N R E T H P F A D R L K L G T A V P R L T V
UniRef90_V5EXA5 A D E A E D P I Q I W V Y G N R S E Q D I L R R E E L K L R V A L K G N L H
UniRef90_UPI00035EFD5F H D L G T P R D I V F V H A A R S P A D I I F R D E L E L M A R N Q P G A F R
UniRef90_UPI00036D51FD F F I G L I E R P M Q L Y W G V A R R D L Y L P D L P A W T R A H P Q E T
UniRef90_UPI0002DB4D20 Y D T N G T V D I K F V H S A Q T P R D I F L K E L E L M N A R I D N F L S
UniRef90_I3CXQ8 V Q E G L R R Q R M R L F Y A A R T M G E R A F D A E L A E L V A A S R G A V R
UniRef90_UPI00040ADFEF L E D G F D L S I T L V Y G Q R T R A E L Y Y H E E F L E L A Q R Y P N L R Y
UniRef90_UPI000425F650 L G R E P H S R F T L L Y A N R S L Q S T M F K E E L E D L K N R Y L T R V A
UniRef90_J7S1D6 V T V P E D L T K V S L I Y A N D T E N D I L L K D E L D E M A E K Y P Y F Q
UniRef90_V8QYU3 R Q Q H P G L P V H Y V H S T M S S Q T H A M G S H V I Q T A S H L P H S R V
UniRef90_B7QVP4 W D E G Q A L D V V F I N C A K R P S S E I L F R Q R L E N M A S R T P G L D L K
UniRef90_T1DS97 F K T L K T G R K V S Y W Y G A R S K K E I F Y E E D F R E I E R E F P N F F H
UniRef90_E9EFU4 V D Q A S W R K V V F V H A V R N G R S V H A M K A A L S E I V A N N P Q V R R
UniRef90_A5V4A8 L R E E P K S R F V L F Y G N R A S S I M F L E E I A A M K N F D R L E
UniRef90_B1Z4R7 L A R G S Q Q R V H L I Y G V T R D L D L V L V D A I E A Y V A K L P N F S F
UniRef90_S2L1Z5 V E K G C D Q P V H L I Y G V N K D D H L V K T D T L D A F A E W L P T F T Y
UniRef90_U5T1K1 L H T G V K R P M H I Y W G A R A P D L Y L D A L P R F E W A Q H S N I A Y
UniRef90_UPI0002EB71C2 A S S N P E R K V S V L H A M K N P S L Q P F A N E L M E M K K T L A N L E T
UniRef90_C9YAY0 A A T G G A F T L H H C S R S R V R A A F V E R L A A A P F A A H
UniRef90_V2XIP2 V N G E D A N I R L W V L Y A N R T E N D I L C R E Q L E S F V A J A P K R F K
UniRef90_S9TXH5 L N P P D S F E T I R L I Y A A E D E R E L T Y K H L L R S Y Q R Q T P D K F T
UniRef90_B2JE11 V F K N I T R P M T L Y W A R R K K D L Y M M E L A E Q W A R E I P N F K F
UniRef90_I4BQ20 L T E G S G K V T L Y G A N R D E K G N V I F A R A L R D L G A K Y P D R L S
UniRef90_V5AQN7 M T N K E D R T N I F L V Y A N Q T E D D I L L R K E L D D C A K D P R M K L
UniRef90_T1XLE0 M D D E D C P P V S L Y W G M R T E A D L Y L H D E L Q A W A G R L C D F R
UniRef90_F8UHK3 F H N R H Q R T M T L Y W G A R T P R D L Y L A D L P R Q W A H Q H A N F T Y
UniRef90_A0A017T2A5 V H D H P E R R V T F I H A T T S G Q T H A M A E H L T E V A S A H P Q V R S

UniRef90_UPI000466A053 V Y L T I D R E Q E G W N G H V G F V P S Y L K E L E L A 110 T D K T V L V C
UniRef90_A9L278 V A L S E P L P E D N W T G Y T G F V H N V I Y E N Y L K N A P E D C E Y Y M C
UniRef90_UPI0004668FE6 V I H V L E A P P E D N W T G E T G F V H D A A L L E R C H L K P G E V A E R M H C Y Y L C
UniRef90_G9ZGF5 V A L S D A L P P E D N W T G Y T G F V H N V V Y E N H L K P A P E D E C E Y Y M C
UniRef90_S5YZ89 F T V E Q Q D P F Q S W H G Y R G R L N Q I M L G I M A S D Y L E R E E V Y C C C C
UniRef90_L7X5W3 V W Y V L A R P P E N D W T G T K G H V T E A L M R E R F F D A S P Q T L G M M M
UniRef90_UPI000472B50F H V I F Y E H V A E G D R Q G F T D Y D Y A G R I E W R Q A D D L P E A D Y Y L C
UniRef90_C8X745 V C T A T S H D E R W A G P H G R I V G E L A A A Q R A D W A G Y D V A V C
UniRef90_C9SPN0 V H Y V L D K A P E G W T G G V G Y V T A D M I T K W L P E A A P D V K E Y L C
UniRef90_UPI000463C3BF L A L Y I E D K P G F A T E R L V Q A G R M R L A E W P F N A A L N A K E Y L L C
UniRef90_C5DP66 V N Y V V N R P S S N W K G L R G Y V T K E M M Q R C L P S P S V D H R L L I C
UniRef90_Q7NRJ7 I P V S E A L P E D D W T G R T G F V H Q A V L E D F A D L S G A G Q V Y A C
UniRef90_UPI00037F44B4 L P A L S E P G D E D W D G E T G F V T D V L K R A G P D L R G A D A Y V C
UniRef90_F4S0N5 I N F V L D N P P K G W S D L K G Y L T A S L L K S K L P S P G S D T K I F V C
UniRef90_UPI000372B9EC T T F Y S E P L A R D R A G E T H D V D G F V T V D W L K A P S L A D A D F Y L C
UniRef90_V8CYU2 V I H Y S E P L A R D R A G E T H D V D G F V T V D W L K A P S L A D A D F Y L C
UniRef90_J3D2W4 P V L S D P A P R D A W Q G R T G F V H Q A V M A D Y P D L S S M Q V Y A C
UniRef90_K0C4M0 A Y W S P D L K K P G K D F G H V G H I S K D L L Q A I L L P L D E N D E Y D C Y L C
UniRef90_V9DMV7 R T Y V V S K T T P E N E G A T E R L V Q A G R M R L A E W P F N A A L N A K E Y L L C
UniRef90_L0P8A5 V V Y V L D N P P E G W K G A S G R I D K D L L K T H L P D P S R N I K I F V C
UniRef90_L8JNG8 V I H I L D D A P P M N W Q G H S G L L N D G M L E R I P N W G P D D N T T Y L M C
UniRef90_UPI00046EAB16 I L Y L F S Q E S L D S P L L N G R I V T D G E R L N K S L L D F T T D Q A F I C
UniRef90_UPI000376E3D5 V P V I S N E A Q D A W T G R T G F V H Q A V L Q D F P D L S G H Q V Y A C
UniRef90_Q01012 V H Y T I E D K P E N W T G D V G Y V S K D M I E K L L D D D A N D T A D V Y L C
UniRef90_B8N5W0 A V I F Y E E V S K K D K Q G R A D L H K I K D Q V V L P P D L S G Y E V Y A C
UniRef90_I5CJB2 P V L S E P G M D C D W T G R T G W V H Q A V V D D F P D L S G Y E V Y A C
UniRef90_S6EPY1 F T V Y E E V E D A Q A D A T G R I D L D L S Q I P T A L L P S K D A D Y Y L C
UniRef90_UPI0004688A51 C T Y E A P T E K D R V D G K F Y D Y I D L A W L K E I L P S N E A D H I G M C
UniRef90_H3G914 I F Y T K A P G A R A W A Y G K S R L N F A M V Q N I I G S D A D H I G M C
UniRef90_Q0A5T8 V R T S V D D E A S P E G Y A G R I G T P V D A L Q A A D V A A P S G T T A Y L C
UniRef90_M4B822 V H H V L H E A S D D D I R E G K R L D K E M L A E L L P K P S P D V A A F H C
UniRef90_H0TH16 I P V L S H A A D D Q A W E G Q R G F V H E V V H A H L V G G D D A D V Y A C
UniRef90_C9ZSH7 V F H S L T S P P W Y W R G Y R G H I T K K V I E E T M P S P S N D K A I L V S
UniRef90_W6KHZ8 V W Y T V D R S P S D W A Y D V G Y V T E E M L R A H L P P S K S V L A L V C
UniRef90_S7Z9T9 V V H T L T K C S A N W K G R G R I S A Q L I H E W A S P E E S S M V L I C
UniRef90_UPI00025562B9 H V A M S D P P E D N W T G Y T G F V H N V L Y E N Y L K K A P E E C E F Y M C
UniRef90_G0V8U9 V I Y L D K T D R D D W E G I G Y V T L D L M E K Y M P S P E E G V Q M L L C
UniRef90_UPI0003B57C04 L I T M S R P S G T D W K G A R G R I T K E W L T Q M V P D L A S R R C H L C
UniRef90_N4UZ73 V H Y V L D R P P E G W T G G V G Y V T A D M L Q K L L P K P A D D V K I L C
UniRef90_D0DC61 W V V E A R D K Y P W T G Y Q G H F N Q L M L G L M A P D Y L E R E V F C
UniRef90_B8M2D4 I V H T L T R P S G D W K G L K G R I G E G L L R Q Y A A P A A G D S L A L I C
UniRef90_A6CW45 W Y R E P L N A E G I N N S S T G L M D L A Q L K D S L N F G H F Y T
UniRef90_R5EK01 L A L S D P Q E D H W T G F I A N V L Y E Q Y L R D N P E D V E Y Y M C
UniRef90_UPI000427B404 L V H V L S R E P R D A E L F S G R L D R D R L H R L R L A P A E V F D H V W L C
UniRef90_UPI00047590D5 V T L C D N W P D N S Y G L T G F I D A Q V L Q K N I P D F T E R E V F V C
UniRef90_K2D3E7 Y K I A V N W P S D N S W K G H V G F I T D L V K Q D Y P D A S Q C S A Y L C
UniRef90_D4H1M0 I A L S D P L P E D N W D S Y T G F I H K V V L D N Y L K E A P E E I E Y Y L C
UniRef90_R7V832 Y F L T Q D T M R Q R D K V V Y S R L S R E L L R R E L P E N L N Q T R V V I C
UniRef90_Q3ADK3 V V Y T I D R P E E G W D G H V G F V P A Y L E E L N P N Q K V T I T C
UniRef90_Q47JE3 V P V L S E P A S G E W A G R S G F V H Q A V L A D F A D L S G Y Q V Y A C
UniRef90_N9VIR8 L V L E E A P V D H P W V G R L T P D M L R E L A P D L L G R H V Y L C
UniRef90_UPI0003455A06 L V H V L S R E P R E S E L F T G R L D A D K L D Q L L V A P D A V D H W W L C
UniRef90_K9E0C8 T T V D P G G E T P D W K G Q V G F V P S V L E E V A P D S T N T V V V C
UniRef90_B4SHA0 L T V D P G G E S P D W K H R V G Y V P T V L E E A A P S P E N C L A V I C
UniRef90_M7NSE6 V V H L L S D P E D W E G E K G Y T H E L L K K Y L P E N P Q D Y M Y F I C
UniRef90_A4INU4 H I C Y E S P S D E D R K H P H F R I D L E W M Q T V I P S K D A D F Y F C
UniRef90_C0GIK6 V H L T V D V A S D D W D G N V G F V P A F L E E L N T P D P A G K V T V I C
UniRef90_UPI000374A1B6 T D F H Q T P L A D E V A G R D Y D I A G L I T D E W L N T P A E T A D Y Y I C
UniRef90_UPI0002FD6C8E L H W F D S R G D G G I A R P G R V E V A Q L K R I L P F D D Y D F Y L C
UniRef90_D9QUC1 I P D P T P E D K K N W G P T G F V T D V L D E R E G S L E N A E S Y L C
UniRef90_UPI000366B935 F V I C E R I G Q R T N W H G V T G F L N L A L L K L V A P D F M E R E V F T C
UniRef90_B0SVE8 T T F Y S D P L Q G D R V G E S H D I D G L I T L D W L K A P F A D A D F Y L C
UniRef90_A0A031GCQ6 V P V V S D A P E D A W E G R T G F V H Q A V I A D L E E L S G H Q V Y A C
UniRef90_UPI0002F139A0 V I Y S L S Q P T K E W G L S G R L S V S H V A K I L E L H K R Q A F V C
UniRef90_A3YCM6 L T H H T W Y N Q D H D P E E S V H H G L M D L S T I T T L P L E E G D F Y L C
UniRef90_UPI000382F4A3 I D H Y S R P D A E D V I G V H Y R V T A E H L D E E L I R R R A R F Y I C
UniRef90_V5EXA5 V W H V S K S A D E A W S M G R G H I S T D V M K E H L P P P E R T L A L V C
UniRef90_UPI00035EFD5F F A P V C D S P R A P W H G L R G R V S L G V L E H V A P D Y A E R E I F V C
UniRef90_UPI00036D51FD Y T P V L S E P D P D W Q G R T G F V H E A V A A N H P D L S G V D C Y M S
UniRef90_UPI0002DB4D20 I I C E R Y D P G S W H G Y R G F L T K E V L L I A P D A L Q R E V Y C
UniRef90_I3CXQ8 L V R V L S D T T G A R E G D A F R I D M N L L S R S L P F G D Y E F Y L C
UniRef90_UPI00040ADFEF V P L S D E P E D S E W D G F R G Y V H E A A Q A A L A N D F R G H K A Y L C
UniRef90_UPI000425F650 L H H V I F S E G E D T A P I N M G L M D R A K L G D F L V P A R S D E V F V C
UniRef90_J7S1D6 I H Y V V R N P S E Q W T G D T G V V T K E Q L E K Y L P V A T D E N R L M I C
UniRef90_V8QYU3 S T F Y S E P A A I D Q P G Q N H D V S G M V S L D W L E Q P V Q D A D Y Y I C
UniRef90_B7QVP4 F V V E E P D Y R P W T G Y Q G M F N Q L M L G L M A P D Y L E R E V Y C
UniRef90_T1DS97 I A L S D P Q P E D N W T G Y T G F I H Q V I L D N Y L K D A P E D I E Y Y M C
UniRef90_E9EFU4 A V I F Y E E V T D D Q Q G F D Y R V E L S K L K D M V L L P G A D F Y I C
UniRef90_A5V4A8 V Y H F L E D E D E D D I T L F N G R L D T A K T A E L L I D P A I D A A F I C
UniRef90_B1Z4R7 A T V V A D A A S N H A R K G W T Q H I P A D A L N D G D V D V Y L C
UniRef90_S2L1Z5 T T V V V D E A S R N S R K G Y V T H H M D A E V M H D G D V D V Y L C
UniRef90_U5T1K1 T P V S D P A A E D E W S G S T G F V H E Q V V R D H P D L S G F D V Y M S
UniRef90_UPI0002EB71C2 S Y F F D E V D T E N T P T F S Y K M G R I Q L Q D V N E L N Q E G V F Y V C
UniRef90_C9YAY0 T H H H F D D G D A A Q K L D I A A T L Q S A P A G T H L Y V C
UniRef90_V2XIP2 L H Y T I S G I P R N W R Y G K G K V D E V M L R K H L P P S Q N G V I L A C
UniRef90_S9TXH5 C D F V L N S N P P E G W T E G V G Y I D K A V L Q H A L P P P S K D L L I A I C
UniRef90_B2JE11 V P V S E P D A D A W T G R T G F V H R A V I E D L P D L S A Y Q V Y A C
UniRef90_I4BQ20 I V H S E L Q L P G E A A L A E L I A P H A R E A F I C
UniRef90_V5AQN7 W Y M L D R E T S P Q W K Y G T G Y V D E A T L R A H V P S D H N R V A L M C
UniRef90_T1XLE0 Y V P V L S R A G A G W N G R G H V Q D A V L A D V D D L S E H A I Y V C
UniRef90_F8UHK3 V P V V S E P P P D S W Q G R T G F V H Q A V L D D F A D L S G F Q V Y A C
UniRef90_A0A017T2A5 F L I Y S R P T D A D R T R G H F H K E G R I D L D W L V L P E E H A D V Y L C

UniRef90_UPI000466A053 G P P I M I K F V L A A L E E M G F N K T Q V Y T
UniRef90_A9L278 G P P I M N S S V I K M L E S L G V E P E N I
UniRef90_UPI0004668FE6 G P P M A D A V E P A L L A R G V P A R N L Y S
UniRef90_G9ZGF5 G P P M M T K S V I G M L H N L G V E D E N I
UniRef90_S5YZ89 G P P E P F M Q A V R D M L V A L G Y D M E N Y H Q
UniRef90_L7X5W3 G P P G L L N F V A V P G F D K M G Y I K Q N Q V S F
UniRef90_UPI000472B50F G P P L P F M R D Q H D A L R A R G V P A E R I H A
UniRef90_C8X745 G S P E M V E A T V K A L V A R G V P D E R I
UniRef90_C9SPN0 G P P P M L S G L K K T A V T L G F E K D Q V F A F
UniRef90_UPI000463C3BF G P P L P F M I E Q W Q A L L A L G V P Q H I H
UniRef90_C5DP66 G P P D M N S L V L E L A N N I G W R N D Q V F V F
UniRef90_Q7NRJ7 G A P V M V E A A H G T F I R E R G L P E D E F F S
UniRef90_UPI00037F44B4 G P P P M V E A A L E L L P S L G V A E K R V F
UniRef90_F4S0N5 G P P G Q V Q G E L G G L L K E L G Y T Q D Q V Y K F
UniRef90_UPI000372B9EC G P T P F L K S F V Q G L A G A G V P A D R I H
UniRef90_V8CYU2 G A P V F M D L A H D A L V A A G L S P D A L H
UniRef90_J3D2W4 G A P I M V N S A R R D F V E T G L P A D E F F A
UniRef90_K0C4M0 G P A G F M Q A S Y D L L R S L G V S D S R I H A
UniRef90_V9DMV7 G P P P M I E A V A G A L L G S L G Y S K E E V H K F
UniRef90_L0P8A5 G P P G F Y K G E L E G Y L K E L G Y T K E Q V
UniRef90_L8JNG8 G P E G M M K N V E N L L E E Q K I N K D H I F K
UniRef90_UPI00046EAB16 G P E S M M D D A H T T L E A A G M A E N L H S
UniRef90_UPI000376E3D5 G A P T V V D S A K R D Y V A Q G G L P E E E F Y A
UniRef90_Q010I2 G P P V M L E K A V S P A L D A L N V P S E
UniRef90_B8N5W0 G P K L F M N A Q S N S L K D M G V K E D R H
UniRef90_I5CJB2 G A P A M V N A A R E D F T G T G L P P A A F H A
UniRef90_S6EPY1 G P M A F M Q A Q Y K S L V D L G V P A E Q I H
UniRef90_UPI0004688A51 G P L P F M K A I R Q A L L D W N V P Q E N I H
UniRef90_H3G914 G P E G M L E Y A C K P A L L K L N Y D K T Q I T V F
UniRef90_Q0A5T8 G P P P M L E A A R A R L L E L G L P A D R I F A
UniRef90_M4B822 G P P A F D D A V S A M L K D I G Y K D T Q V F K F
UniRef90_H0TH16 G S P M I D A L T P V L Q I S G V D A E R I F
UniRef90_C9ZSH7 G P P G F M K T I S G E Y L K E L G Y P E A M V Y K F F
UniRef90_W6KHZ8 G P P A M N Q V A V K P N L K I G Y A E E D I F I F
UniRef90_S7Z9T9 G P Q A M E Q S A K D I L L T Q G W A E S D L H I F
UniRef90_UPI00025562B9 G P P M M T K S V I N M L H D L G V E D E N I
UniRef90_G0V8U9 G P P R M V I G S A K R N A V T M G Y A E D Q V F I F
UniRef90_UPI0003B57C04 G P P A M M D S V K A I F A E L G I P A D H L
UniRef90_N4UZ73 G P P P M V S G L K K T T E S L G F K E D Q V F A F
UniRef90_D0DC61 G P E G F M T A V R E A L A G L G F D M D H Y H Q
UniRef90_B8M2D4 G P K G M E K A V R E G L L K M G W D E N D L V F F
UniRef90_A6CW45 G P V V F M D H V V K L E S I G V E R D R I H
UniRef90_R5EK01 G P P M M S K S A V D M L H S L G V E D E N I
UniRef90_UPI000427B404 G P H P M V E D A R A V L A G L G V P P D R V H V
UniRef90_UPI00047590D5 G A P A G Y M D Y V K K L L E H G F P E A H Y H Q
UniRef90_K2D3E7 G A K P M I D S A T E L L K Q L G C L E K R I Y
UniRef90_D4H1M0 G P P M M I D A V K V M L D G L G V E P E N I Y
UniRef90_R7V832 G T R S F D K D M M N Y L A L S G F P P D C V H K F
UniRef90_Q3ADK3 G P P I M I K F V L Q A L E K M G Y S E D Q V
UniRef90_Q47JE3 G A P V M I E A A K R D F M A R G L P E E E F F A
UniRef90_N9VIR8 G P A P Y M E A V G A M L I E L G L P A G Q L H Q
UniRef90_UPI0003455A06 G P Y G M V T D A Q I L A D H G V E G E R I H Q
UniRef90_K9E0C8 G P P V M I K F T F P V L E K L G F R D E N I Y T
UniRef90_B4SHA0 G P P I M I K F T L I S L K K L G F D E A N V Y T
UniRef90_M7NSE6 G P R P L M D V T E L E L R K L G I D W R S V Y T
UniRef90_A4INU4 G P V P F M K T V Y R A L K Q W G V P E E R I H
UniRef90_C0GIK6 G P P I M I K F V L Q S L E K M G Y Q P E N I T
UniRef90_UPI000374A1B6 G P R P F L R A A V S A L S L A G V P A A R I H
UniRef90_UPI0002FD6C8E G P S A F M R D L Y E G L R A L N V A D E R I
UniRef90_D9QUC1 G P P P M L D A A E R I L V D H G M P E E K V
UniRef90_UPI000366B935 G P A P Y M K A V R E M L A E A G F D N A H Y H
UniRef90_B0SVE8 G P K P F L R A F V N G L T G A G V P A D R V H
UniRef90_A0A031GCQ6 G A P V M V D S A N R D F V Q L C Q L P A D E F Y A
UniRef90_UPI0002F139A0 G P D G F M D N A K K L L I Q M G L N P Q H Y H Q
UniRef90_A3YCM6 G P V G F M Q F A K Q Q L L N L G V D S D R I H
UniRef90_UPI000382F4A3 G P Q A M I D A V T A G L T A R G V P K F D L F A
UniRef90_V5EXA5 G P P L E Q A V S K G L K E L G W D L D R T V V F
UniRef90_UPI00035EFD5F G P A P F M K A V R E M L K G A G F D M A R H H
UniRef90_UPI00036D51FD G P P P M V E A G R R A F E A R G L P R D H L F S
UniRef90_UPI0002DB4D20 G P E P Y M A A V R K M L M E I G F D M R Q Y H
UniRef90_I3CXQ8 G P G G F M Q G L Y D G L R G F G I G D E R I H A
UniRef90_UPI00040ADFEF G P P L M I D A S L S A L M Q G R L F E K D I Y T
UniRef90_UPI000425F650 G P F Q M N D E A Q A L E A A G V P A E R I H
UniRef90_J7S1D6 G P E V M K D M V L R H A V A L G W K D D Q V F V F
UniRef90_V8QYU3 G P S G F M R A F V T G L A A K G V P A D R L H
UniRef90_B7QVP4 G P E P F M Q A V R E A L A G L G F D M D R Y H Q
UniRef90_T1DS97 G P G P M A N A V K V M L D N L G V A R E Q L F
UniRef90_E9EFU4 G P L P F M K A Q S K A L M L M G V D E E R V H
UniRef90_A5V4A8 G P G P M M D A V E A G L K A A G V P G E R I
UniRef90_B1Z4R7 G P P P M V D A V R Q Y F D D Q G V K P N S F H
UniRef90_S2L1Z5 G P P P M V D A V L R H F D D E G I V P Q S F H
UniRef90_U5T1K1 G P P P M I N A A K T A F A E A G L P A D R L F
UniRef90_UPI0002EB71C2 G P V P F M K S M V N E L T Q L G I A S E Q I H
UniRef90_C9YAY0 G P Q G F M D A V L S A G R A A G W P E E R L H
UniRef90_V2XIP2 G P D P M M E K T L K P C L G R I G W D
UniRef90_S9TXH5 G P P V M Q R S A K R Y L H E L G Y S D K L V H T
UniRef90_B2JE11 G A P V M V E S A Q R D F T Q H H R L P E D E F Y A
UniRef90_I4BQ20 G P G P F M A A A E E A L K T S G F P D E R I H
UniRef90_V5AQN7 G P P P M L Q K A V K P
UniRef90_T1XLE0 G S P A M I G D A K R A F L A R G A S I D H L Y S
UniRef90_F8UHK3 G A P P M V A A A R E S F T G L R G L P Q G E F F S
UniRef90_A0A017T2A5 G P A P F L K D V R N A L L V H G V P P G H I H

UniRef90_V2JFH4
UniRef90_K9VA87
UniRef90_X1L311
UniRef90_M3CN21
UniRef90_U1I2Z0
UniRef90_R4T229
UniRef90_R8AMA7
UniRef90_R1DYL8
UniRef90_UPI0003A95FCB
UniRef90_L8GGN4
UniRef90_UPI00027FC15F
UniRef90_N8ZGC6
UniRef90_T0EZU6
UniRef90_D6Z5A4
UniRef90_C1DBM5
UniRef90_UPI00035FBDFC
UniRef90_UPI000474A2D0
UniRef90_UPI0002FOECC6
UniRef90_I3UBN6
UniRef90_G0UVX1
UniRef90_K4MMD4
UniRef90_G3XZIO
UniRef90_L8WU70
UniRef90_W0MVF4
UniRef90_UPI00036211E2
UniRef90_UPI000443FE56
UniRef90_J3BTW3
UniRef90_M2PT65
UniRef90_N0B1Z1
UniRef90_M4X3V7
UniRef90_UPI0003A452A4
UniRef90_W0A0V5
UniRef90_E4TFY9
UniRef90_UPI0003813722
UniRef90_A1BBH3
UniRef90_B8K422
UniRef90_Q8ZCR0
UniRef90_C6B4R5
UniRef90_W8HZS2
UniRef90_A8HRE6
UniRef90_I2JQ82
UniRef90_UPI0004108E85
UniRef90_Q2BY81
UniRef90_H5UI19
UniRef90_A0A017SVL6
UniRef90_UPI00037B2934
UniRef90_A0A028V689
UniRef90_Q390N9
UniRef90_UPI000469244E
UniRef90_Q1QYU6
UniRef90_A0L029
UniRef90_H7C0R7
UniRef90_L0LVX9
UniRef90_E4TQX8
UniRef90_J9E3G9
UniRef90_B9CELE6
UniRef90_N8RZF9
UniRef90_C3AJJ1
UniRef90_UPI00046F6DCE
UniRef90_I3VT84
UniRef90_A3QBU3
UniRef90_A1ZKH9
UniRef90_K8PSM3
UniRef90_M5DUJ8
UniRef90_L8MDH4
UniRef90_L0E461
UniRef90_B1Y2W0
UniRef90_UPI00047CB039
UniRef90_UPI000345C66D
UniRef90_UPI00047DF184
UniRef90_UPI0003B3BA7E
UniRef90_M4S4N5
UniRef90_D5H6Z5
UniRef90_O85675
UniRef90_W9GY55
UniRef90_S5YA32
UniRef90_A0A024IMJ4
UniRef90_W4LIM4
UniRef90_UPI00030B49B5
UniRef90_F0LYA5
UniRef90_N6USP9
UniRef90_A5FYA9
UniRef90_D8NVH5
UniRef90_V9ZJU6
UniRef90_E4RQ48
UniRef90_M4K3U5
UniRef90_W4Q2J8
UniRef90_H2FYU6
UniRef90_L0MGS2
UniRef90_B1JTP6
UniRef90_U7GH67
UniRef90_G9Z7D0

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

UniRef90_V2JFH4
UniRef90_K9VA87
UniRef90_X1L311
UniRef90_M3CN21
UniRef90_U1I2Z0
UniRef90_R4T229
UniRef90_R8AMA7
UniRef90_R1DYL8
UniRef90_UPI0003A95FCB
UniRef90_L8GGN4
UniRef90_UPI00027FC15F
UniRef90_N8ZGC6
UniRef90_T0EZU6
UniRef90_D6Z5A4
UniRef90_C1DBM5
UniRef90_UPI00035BDFDC
UniRef90_UPI000474A2D0
UniRef90_UPI0002FOECC6
UniRef90_I3UBN6
UniRef90_G0UVX1
UniRef90_K4MMD4
UniRef90_G3XZIO
UniRef90_L8WU70
UniRef90_W0MVF4
UniRef90_UPI00036211E2
UniRef90_UPI000443FE56
UniRef90_J3BTW3
UniRef90_M2PT65
UniRef90_NOB1Z1
UniRef90_M4X3V7
UniRef90_UPI0003A452A4
UniRef90_W0A0V5
UniRef90_E4TFY9
UniRef90_UPI0003813722
UniRef90_A1BBH3
UniRef90_B8K422
UniRef90_Q8ZCR0
UniRef90_C6B4R5
UniRef90_W8HZS2
UniRef90_A8HRE6
UniRef90_I2JQ82
UniRef90_UPI0004108E85
UniRef90_Q2BY81
UniRef90_H5UI19
UniRef90_A0A017SVL6
UniRef90_UPI00037B2934
UniRef90_A0A028V689
UniRef90_Q390N9
UniRef90_UPI000469244E
UniRef90_Q1QYU6
UniRef90_A0L029
UniRef90_H7C0R7
UniRef90_L0LVX9
UniRef90_E4TQX8
UniRef90_J9E3G9
UniRef90_B9CELE6
UniRef90_N8RZF9
UniRef90_C3AJJ1
UniRef90_UPI00046F6DCE
UniRef90_I3VT84
UniRef90_A3QB03
UniRef90_A1ZKH9
UniRef90_K8PSM3
UniRef90_M5DUJ8
UniRef90_L8MDH4
UniRef90_L0E461
UniRef90_B1Y2W0
UniRef90_UPI00047CB039
UniRef90_UPI000345C66D
UniRef90_UPI00047DF184
UniRef90_UPI0003B3BA7E
UniRef90_M4S4N5
UniRef90_D5H6Z5
UniRef90_O85675
UniRef90_W9GY55
UniRef90_S5YA32
UniRef90_A0A024IMJ4
UniRef90_W4LIM4
UniRef90_UPI00030B49B5
UniRef90_F0LYA5
UniRef90_N6USP9
UniRef90_A5FYA9
UniRef90_D8NVH5
UniRef90_V9ZJU6
UniRef90_E4RQ48
UniRef90_M4K3U5
UniRef90_W4Q2J8
UniRef90_H2FYU6
UniRef90_L0MGS2
UniRef90_B1JTP6
UniRef90_U7GH67
UniRef90_G9Z7D0

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

UniRef90_V2JFH4 I D V V S T L P G S D R D L R T G L V T E A V E Q D Y 110 G D L T G W R A Y L 120
UniRef90_K9VA87 V T V T R K K P G Q T W L G Y S G R L N Q A I L Q L M V P D L G S R T A Y I C C C
UniRef90_X1L311 M V T T V D K G D E T W T G R E R F V P T V L L E Q V V A P S A R G E A M V L I V C C C
UniRef90_M3CN21 L V T T L T Q A G E G W E G R R G R I S R E L V L G E F V G R R D S Q A D A M V L I V C C C
UniRef90_U1Z20 L I Y T L T K A P D D W L G L R G R I D A N V V D Q H C V K S Q A D A L V L V C C C
UniRef90_R4T229 V V H R E P L A S D R P A E D Y Q H Q G L M D L Q P L R A T L D Q A Q H E A F I C C C
UniRef90_R8AMA7 W L A F S E P E L S K D Y D S A G Y I D T A V F K K Y L P E D L D A D V Y M C C C
UniRef90_R1DYL8 H L A F S E P E L S K D Y D S A G Y I D T A V F K K Y L P E D L D A D V Y M C C C
UniRef90_UPI0003A95FCB T R V I S V D H H A S G E L L A G N P V D A I S E G D L A H E S A V A Y L C C C
UniRef90_L8GGN4 V H H L L S Q P S E E W A G H R G R I S Q E L L A A S L P P G E V I S A V L L C C C
UniRef90_UPI00027FC15F L W Y I P A L N A P K A E D Q W Q G F T G F H H E A V A D Y F E N K C S R G H K A Y L C C
UniRef90_N8ZGC6 V V N C Y N Q P A G E D L P G R D F Q L H G Y L S A D V V A D D L R R A R F Y L C C
UniRef90_T0EZU6 L S L S R P R P E D N W T G P V G H I H K T L Y Q N Y L K D A P E A D I Q Y Y A C C C
UniRef90_D6Z5A4 L P V S E P A A A D N W T G R S G L V H Q A V L D D F A D L S A R H E V Y A C C C
UniRef90_C1DBM5 R H F D A A P E T R L D L D Q A L A N P S S A R H E V Y A C C C
UniRef90_UPI00035BDFC H L W Y R T P E I N D S G R F D Q Q G L M D L S Q V S A A I A G E N Q Q F Y L C C C
UniRef90_UPI000474A2D0 H L W Y R T P E I N D S G R F D Q Q G L M D L S Q V S A A I A G E N Q Q F Y L C C C
UniRef90_UPI0002FOECC6 V P V I S D T P E D A W T G R I G F V H K A V I Q D Y P D L S S E P L I A I C C C
UniRef90_I3UBN6 C D F V L N N P P E G W T G G V G F V D K K S L Q K V L Q P P S S E P L I A I C C C
UniRef90_G0UVX1 V F Q T L T R A S E N W T G C R E R I N E N E L R K E V P D Y A T R E V A Y I C C C
UniRef90_K4MDM4 I T H V I S K P D E N W H G L S G H V N E S L L R K H M F E P S D E N V A I L C C C
UniRef90_G3XZIO V I Y T V D K G D K N W T G S T G F I T K D F L K K E T A P A S D K V M V F V C C C
UniRef90_L8WU70 L D E Q P E T A L N A P Q V L A N P E P D T H D Y I V C C C
UniRef90_W0MVF4 H I F Y D K P A A S P G Q E Q G H Y Q G I V D L N T L N G L P A G A D D Y Y I C C C
UniRef90_UPI00036211E2 V E Y I L S E P S A S W T G R K G R V D E T L L N D L L R P H G S K Y V C V C C C
UniRef90_UPI000443FE56 L V R L L S D T P E D V A G E G R I V D M L S L N R V L P F N D R Y D F Y L C C C
UniRef90_J3BTW3 V D H Y S R P A P E D R Y D A R G R I S A E S V D A A L L R R K R A R F Y L C C C
UniRef90_M2PT65 V P V A S E S A P D D W H G E R G R V D E A M V M K Y V P D L N R P I Y Y L A C C C
UniRef90_N0B1Z1 T R V I Q C H F D D G D P A R R L D M A A L L A P Q A S D A Q R R Y T C C C
UniRef90_M4X3V7 F I V T E L E R T Q L W S G L K G F I D R A K I A L V P D F L E R R V F C C C
UniRef90_UPI0003A452A4 L I L E E A P A A H P W V G R L N P G M L K E L A P D L L G R H V Y L C C C
UniRef90_W0A0V5 Y L L S E P L P E D N W H G V V G R I H Q V V F E H Y L K P E P E S V E Y Y L C C C
UniRef90_E4TFY9 L H H F L T R P Q T D R P C H Y V G R I D A A R I R E I L P A T P S I E A Y L C C C
UniRef90_UPI0003813722 V T H V L E Q E G Q E I D L F T G R I D M A A M F Q H W L D A E A V D T A F I V C C C
UniRef90_A1BBH3 V F I S L T Q A P I D W F G L K D Y R L S L H L K Q I K N P D Q R Q V F V C C C
UniRef90_B8K422 H V W Y R E P D L Q D K H G E D Y H S Q M D L S S Y Q W L A D D P P K R H Y Y C C C
UniRef90_Q8ZCR0 F L P E T V A G E P S W P G L T G R I S K D Y M R L A V P D I A E R T V M C C C
UniRef90_C6B4R5 F V V E G H E S R H G W H G L R G R I S L A H L E A A V P D F R A R E V F V C C C
UniRef90_W8HZS2 A I C E A D A P F E P W H G L R G R I S L A H L E A A V P D F R A R E V F V C C C
UniRef90_A8HRE6 F V P V D E P E D S D W Q G L R G F V N T A I E P V I A G Q Y L S A D T Q V V F I C C C
UniRef90_I2JQ82 V V H R I V L T Q P K R D W Q G E S G R L S I G H L A M M S D L D R K R Q V F V C C C
UniRef90_UPI0004108E85 L R I V L T Q P K R D W Q G E S G R L S I G H L A M M S D L D R K R Q V F V C C C
UniRef90_Q2BY81 W E H C V S D P A S S A P N K G Y V M S L I E P A H L N D G D V A I Y L C C C
UniRef90_H5U119 V R H V L E V A P K G W T G G V G R L D V E G C G A E L D A L A D E A E V F L C C C
UniRef90_UPI00037B2934 V P A L S N E A D G S A W E G F R G F V H D A A K A H F G S D F R G H K A Y L C C C
UniRef90_A0A028V689 V H R A L S A P E Q D A V L G R D Y E Q R G R I Q K A A L S F D D Y D F Y L C C C
UniRef90_Q390N9 V P A L S E G A A D A G G I A Q G F V H D V A N A H F D G D F S G H Q A Y L C C C
UniRef90_UPI000469244E L T C V A S E V S Q S P H K G Y V T Q H L D A S R L N D G D L D V Y L C C C
UniRef90_Q1QYU6 V C E R G D E S G E P W A G F R G Y L A Q A M L E L M V P D Y L E R E I F C C C
UniRef90_A0L029 V W Y R E P T K A D M L G Q D Y D F E G T M N L T S V A D K I V A N A H Y Y F C C
UniRef90_H7C0R7 L W F V L H I L E S E A Q E I D L F T G R I D A E K C K A L F K D V K S V A T A F I C C C
UniRef90_L0LVX9 V A L S E P L E E D N W D G Y T G F I H N A L Y D N Y L K H H P G S E V E F Y L C C C
UniRef90_E4TQX8 W Y T I D Q A K P G W L Y S T G F V N A E M I Q K H L P G P S G T V I L M C C C
UniRef90_J9E3G9 F I C E A P G S E P D W R G P T G R L S L E L L R Q H V P D Y R D R E V F T C C C
UniRef90_B9CELE F T A Y E S P H S G D V I G E D Y D V A G R L D L A T V D T A P A H A D Y F L C C C
UniRef90_N8RZF9 Y T C Y S S P T E Q D L Q M K N F I D L D W L Q S I I P T S E A E F Y F C C C
UniRef90_C3AJJ1 Y F G Y E K P L D P N G D Y Y T G Y L N K E F L E K V I D S N T I C Y V C C C
UniRef90_UPI00046F6DCE V L Y L E A R A S C E E G F S C F D G R I N L E M L V K A V P D Y L D R T V F V C C C
UniRef90_A3QBU3 L A L S E P M E E D N W D G Y Q G F I H Q V L Y D N Y L Q D H P E E I E F Y F C C C
UniRef90_A1ZKH9 F T P V V S N P S T Q W G G R T G P V H R A V Q T D H P D M S G L E V Y A C C C
UniRef90_K8PSM3 F I P V A E P E E S D W Q G E R G F I T E S L K R F A G P N K Q A Y L C C C
UniRef90_M5DUJ8 V P L S Q A A E D S E W T G F R G Y V H D A A K Q H F D N R F A G H K A Y L C C C
UniRef90_L8MDH4 F T P V L S E A T D P E V A G F P A R S G W L H D A V C A P D L S D F D V Y M A C C C
UniRef90_L0E461 V P L S N E A E G S G W T G A R G Y V H D A A K A H F G S F Q G Q A Y L C C C
UniRef90_B1Y2W0 P V L S D P E Q A A S G L R M G L V H E A V L E D L P D L S G H D V Y M S C C C
UniRef90_UPI00047CB039 L I N V L S R E V G E S P V S S G R I D A D L L F T H L I A P D E V D H F Y L C C C
UniRef90_UPI000345C66D H V F Y S L P G P E D R A G R D F H T G R L S A S L L A E P R D A E A Y L C C C
UniRef90_UPI0003B3BA7E I F L R E T A N N G A A Q A V E H H L N L A A I Q E Q L P L S T G D Y Y L C C C
UniRef90_M4S4N5 A T T C S G A G S D H P L T G H V T D H F G A A D L N G G D A D I Y L C C C
UniRef90_D5H6Z5 L E V L Y S L S D E D W D G P T G H V Q T H L G D V V D E R F E D P H Y Y L C C C
UniRef90_O85675 Y H P I S K A S E Q W Q G K S G F I H E H L D K N Q L S E Q S F D M Y L C C C
UniRef90_W9GY55 V P A L S D A A P E D G W T G E T G F L H E V V R R H L G E D A S A I D V Y S C C C
UniRef90_S5YA32 V I H I L D S E A Q E D L F T G R I D A K M A L F K N W I D P T T I Y L C C C
UniRef90_A0A024IMJ4 L A S P T L R V H W H F D D E A G G P P D L R E R L T P F A K D S H L Y A C C C
UniRef90_W4LIM4 I V H F W R W G E V A W E V R K G R I D A P A V Q W F L R P V A Q D V Q Y F I C C C
UniRef90_UPI00030B49B5 V R V V S D E P T S I D G V L T G N P V S V L T A D D V R D P R T T A Y L C C C
UniRef90_F0LYA5 V W Y L D G Q Q G E S R R G A M D L N V V D L P L A E A D F Y L C C C
UniRef90_N6USP9 F L P E T V A G E T H W P G L T G R I S V E Y V R L A V P D L A E R L V M C C C
UniRef90_A5FYA9 P V L S H A S G D A G W E G E R G F V H E C V D A R L K A L G D G E G D V Y A C C C
UniRef90_D8NVH5 T H I V V A T S N A D A R L R S G V V T E A V A S D W P A L Q G W R A Y L A C C C
UniRef90_V9ZJU6 L P V V A D E N S T C P Q R G F V T D H L D D A M L N N G D V D I Y L C C C
UniRef90_E4RQ48 I R H Y W S D G R K F W S K F H R L N P E R K E I L R E V G P E T A F Y L C C C
UniRef90_M4K3U5 L I C E K H G L G E P W A G Y R G Y L N H K M L E L M V P D F L E R E V F C C C
UniRef90_W4Q2J8 L A Y E S P T E Q D K E T K N Y Q Y V D L A W L Q S I L E N N D A E F Y F C C C
UniRef90_H2FYU6 K T V V A S P D S A H P R K G Y V T N H M E D A P L Q H G E V D V Y L C C C
UniRef90_L0MGS2 L T C V A S D A S Q A A R K G Y V T Q H L D D A L L H D G D V D V Y L C C C
UniRef90_B1JTP6 L Y H V L S D D L Q D V E L F N G V L D Q A K C A E F L A P A D A D E A F I C C C
UniRef90_U7GH67 L N I L A T H E G K E P R F L C D T D L E A I D P L K E R E V Y L C C C
UniRef90_G9Z7D0 L V C L F S Q E S L D G D L L E G R I D A E A L S Q R L I N F T Q F D A F I C C C

UniRef90_V2JFH4 G A P P M V E A A T E L L R D R G I R P D H L Y A
UniRef90_K9VA87 G A D G F M A T V K T Q L Q N L G L P M Q N Y Y
UniRef90_X1L311 G P P L M I R F T S P V L L E K L G F A P E E Q M L T
UniRef90_M3CN21 G P E A L E K S C H T A L R E L G W R D E E L M F F
UniRef90_U1I2Z0 G P E A L E K T M H K V F L D K G W S D D Q L L F F
UniRef90_R4T229 G P G P F M D A A R A V L K E L G L P R K R L H
UniRef90_R8AMA7 G P L G F M Q H V A A Q L Q Q W G V P E E R M H
UniRef90_R1DYL8 G P P G F M D A N Y A A L R D L G V A K E R T
UniRef90_UPI0003A95FCB G P P R M I E A A T T K L V N L G L R P E N I Y A
UniRef90_L8GGN4 G P T G F E V F V E S S L L S L G Y P V Q Q L F K F
UniRef90_UPI00027FC15F
UniRef90_N8ZGC6 G P P P M L D A A I S T L M Q S R L F E R D I H T
UniRef90_T0EZU6 G P E P M M E A I T A G L I A R G V P P F D I F K
UniRef90_D6Z5A4 G P P A M T A S L I E M L Q E L G V E R D H I F
UniRef90_C1DBM5 G A P V M V E A A H R A F T G E R G L P G E A F H S
UniRef90_UPI00035FBDFC G P R G F M D F V V A G A R A R G W T E A Q I H Q
UniRef90_UPI000474A2D0 G P L G F M Q F V A G Q L R D A G V A A E R I H H
UniRef90_UPI0002FOECC6 G P A P F M S A I R A L A S S L G W P E D S V H
UniRef90_I3UBN6 G A P V V N S A R N E Y T G L C G L P E D E F F A
UniRef90_G0UVX1 G P P P M Q R D V T N E L L G M G Y N K E L V H T
UniRef90_K4MMD4 G P P S M T E S M T E M L H S M G I P D V R V
UniRef90_G3XZIO G P T M I E K A V L P A L D
UniRef90_L8WU70 G P P G M K Q G P L G G A L K E L G Y T S E Q V F K F
UniRef90_W0MVF4 G P S G F M Q H I L D T A R T A G W P E D H L H
UniRef90_UPI00036211E2 G P A F F U P I 00036211E2 L A A L G V P R E A I H H
UniRef90_UPI000443FE56 G P S A F T E Q T L G L L K Q L C F S E E E C H H A F
UniRef90_J3BTW3 G P T G F M Q S V Y D G L R G L N I A D G R I H A
UniRef90_M2PT65 G P E T M I E E A T A G L V A R G V P R F D I F S
UniRef90_NOB1Z1 G P E G M V K A M R E L L I R L N V N E D N I
UniRef90_M4X3V7 G P A G F M A H V L D S A R A L G W E E S R L H
UniRef90_UPI0003A452A4 G P D F M A T V R D S L E S S S F D M E N
UniRef90_W0A0V5 G P A P Y M A A V S T M L A E L G L P A A Q L H Q
UniRef90_E4TFY9 G P P P M L K A V L E M L D N L G V E R G N I
UniRef90_UPI0003813722 G P Q P Y M D L I A D T L R A M G I A D H A I H S
UniRef90_A1BBH3 G P E P M M L T V A A S L R E H G L R D E Q L
UniRef90_B8K422 G P D G F M Q K A K N M L L R Q G L P E S C Y H Q
UniRef90_Q8ZCR0 G P L P F M Q F I G R Q L L A Q G I A P E Q I H
UniRef90_C6B4R5 G P A P F M A A A R G I A A E L G V A A S N Y
UniRef90_W8HZS2 G P E P F M R G V R E L L K A A G F D M S R Y H
UniRef90_A8HRE6 G P A P Y M A A V R E M L R A A G F D M A R H H
UniRef90_I2JQ82 G P P P M I D A V T A T V L E L D I V I E K N I H A
UniRef90_UPI0004108E85 G P G P F M Q A A R E A L D A C K V P A E Q V H H
UniRef90_Q2BY81 G P D E F M S S A K K L L L N M G M A P S R Y H Q
UniRef90_H5UI19 G P P P M V E A V R Q H V A Q A G I E P
UniRef90_A0A017SVL6 G P E G M M A A A R E A L T A R R V P L S R V
UniRef90_UPI00037B2934 G P P V M I E A S I R A L M Q G Q L F E R D I Y T
UniRef90_A0A028V689 G P A A F T Q A I Y D G L R D L N V A D A R I H A
UniRef90_Q390N9 G P P A M I D A C I T A L M K G R L F E R D I Y H
UniRef90_UPI000469244E G P P P M V E A V L S D F Q R R A F T P A S F H
UniRef90_Q1QYU6 G P T P Y M K A V K Q V L K S N G F D M S H Y H
UniRef90_A0L029 G P I G F M A S I K Q Q L L A F G V P S E Q M H
UniRef90_H7C0R7
UniRef90_L0LVX9 G P E P M M L A I A A A L R D H G M R D D Q I
UniRef90_E4TQX8 G P P P M M N A A V L K M L D D D M G V P P E N I
UniRef90_J9E3G9 G P P M K F A C T P N L D K L G Y P E S D R L I F
UniRef90_B9CELE6 G P S G Y M D A A R A L L A Q G G H D P A R Y H Q
UniRef90_N8RZF9 G P I P F M Q Q H Q A L V A R G I K P E Q I H S
UniRef90_C3AJJ1 G P V P F M K H I N A A L V E W G V S P E H I H
UniRef90_UPI00046F6DCE G P V P F L K G V V T S L A A L G I P E E N I
UniRef90_I3VT84 G P P M M M K F T C L E F L K R N I P D E N L W V
UniRef90_A3QBU3 G P P P Y M Q A V K A M L Q D A G F D M S R Y H Q
UniRef90_A1ZKH9 G P P P M M N A A V I K M L D D M G I P D E N I
UniRef90_K8PSM3 G A P M I E S A Q R D F R T E A G L K D D A F F S
UniRef90_M5DUJ8 G P P P M L D A A E A V L N D A G I S I N D V F S
UniRef90_L8MDH4 G P P P M I D A A V T A L M Q G R L F E R D
UniRef90_L0E461 G P P P M I Q A A K P C F F A A G L P E D R L F
UniRef90_B1Y2W0 G P P P M V E A C I G T L M Q G R L F E R D I Y T
UniRef90_UPI00047CB039 G P P A M I D A G R K L F L D A G L P E E R L Y
UniRef90_UPI000345C66D G P S G L V R L V R D D L R A R G V R G D H V H S
UniRef90_UPI00047DF184 G P S P F M D E I S A G L V P V L G I D A S R I H S
UniRef90_UPI0003B3BA7E G P V A F M Q F A K Q Q L L E L G V N N E R I H H
UniRef90_M4S4N5 G P P E M V E A V R A H V A S C G V T V A N L Y
UniRef90_D5H6Z5 G P P P M V V D S E E M L Q E E G V D D G R I F T
UniRef90_O85675 G P P P M I E A V K T W L D E Q A I A D C H L Y S
UniRef90_W9GY55 G P P P M L D A L L P V L Q I A G V E P E H T H
UniRef90_S5YA32 G P E P M M L A I A Q S L R D H G L K D E Q I
UniRef90_A0A024IMJ4 G P G P M L D A F L S A C E A L G L P N A H I E R F
UniRef90_W4LIM4 G P E G M I D T S A T L Q Q L G A L P E R I H V
UniRef90_UPI00030B49B5 G P P A M L A A A H D R L V E L G L P A E R I H A
UniRef90_F0LYA5 G P L A F M E S I V K Q L M S L G V S G E R L H
UniRef90_N6USP9 G P A P F M A A A R N I T A E L G V P P S N Y
UniRef90_A5FYA9 G P P P M I D A L Q P V L F M N G F E N E R V F
UniRef90_D8NVH5 G A P V M V D A A S L L L R Q R G V L A E H L Y A
UniRef90_V9ZJU6 G P P P M V N A V A T A L R D R G I T P A
UniRef90_E4RQ48 G P Q G L M K M A S S T I A G L G F S K D K I H Q
UniRef90_M4K3U5 G P T P Y M S A V K R L L E A A G F D M T R Y H
UniRef90_W4Q2J8 G P V P F M K A I N K A L Q D W N V P Q E R T H
UniRef90_H2FYU6 G P P P M V D A V L G Y F R E Q G I Q P T S F H
UniRef90_L0MGS2 G P P P M V E A V L H D F R R R A F T P A S F H
UniRef90_B1JTP6 G P A P M M D A A E A A L K A A G V P Q E K V H V
UniRef90_U7GH67 G P K G L M D L A A E L L Q Q R G L A E S Q M H S
UniRef90_G9Z7D0 G P T V M M D E A E A A L L A L G V P K K S V H

UniRef90_A3K7C0
UniRef90_D7I3E2
UniRef90_UPI0001E2884B
UniRef90_UPI0004630555
UniRef90_F8JBL9
UniRef90_Q5LT33
UniRef90_UPI00046E5735
UniRef90_B5WS21
UniRef90_M9WCY0
UniRef90_A1CN79
UniRef90_UPI00036F0941
UniRef90_U3HRJ9
UniRef90_C9P7C6
UniRef90_UPI0003B63AC3
UniRef90_W9AR48
UniRef90_UPI00046AA512
UniRef90_L7L8Z4
UniRef90_X0RYL0
UniRef90_E2SEK4
UniRef90_I1G874
UniRef90_F0GAG2
UniRef90_W0TLG6
UniRef90_D6TQY2
UniRef90_UPI0002E8B92E
UniRef90_F8EEK7
UniRef90_A1WR56
UniRef90_C4LA03
UniRef90_UPI000329B54A
UniRef90_R6W1F0
UniRef90_Q3SJU2
UniRef90_A1UJH0
UniRef90_E8WMA3
UniRef90_A0A014M4M2
UniRef90_Q8XK66
UniRef90_J2IUF1
UniRef90_L7F1R1
UniRef90_E9UZF0
UniRef90_W9BV83
UniRef90_M5U5U8
UniRef90_L8MBM7
UniRef90_N9CYH4
UniRef90_B6B4E4
UniRef90_G2PDQ4
UniRef90_F7NTS2
UniRef90_G3LGX1
UniRef90_Q51603
UniRef90_UPI0004706C8B
UniRef90_I2IY89
UniRef90_S6AJB9
UniRef90_X7G8Z3
UniRef90_W1YVY0
UniRef90_UPI000471E726
UniRef90_H1QLS3
UniRef90_M1VBW0
UniRef90_B3E0W6
UniRef90_G2J3J0
UniRef90_UPI00036321D0
UniRef90_UPI0004658AC8
UniRef90_G7DKE1
UniRef90_D5X4U3
UniRef90_E3IE82
UniRef90_A0A023RTT1
UniRef90_UPI000369F037
UniRef90_D3IHN7
UniRef90_NOATU0
UniRef90_C6VK98
UniRef90_J2YDR3
UniRef90_A5VZP8
UniRef90_F5S5G1
UniRef90_Q1LH74
UniRef90_Q47CC1
UniRef90_H5U3H3
UniRef90_B1YXE8
UniRef90_I4Y3F9
UniRef90_I3D8N5
UniRef90_D9SD88
UniRef90_UPI0003FACE99
UniRef90_N8ZH70
UniRef90_A0A059IPC6
UniRef90_K4QT36
UniRef90_H0W5V3
UniRef90_N1W854
UniRef90_W9G314
UniRef90_UPI0003683526
UniRef90_A0A038GAZ4
UniRef90_H6R5G2
UniRef90_Z5XIN2
UniRef90_UPI0001E89FAA
UniRef90_D3D7N7
UniRef90_D9QRP5
UniRef90_U5VGX2
UniRef90_H1Q3N0

1 10 20 30 40

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

UniRef90_A3K7C0 L S R E P K A T F T L V Y A N R Q V S S M F R E E L E D L K N T Y L G R F S
UniRef90_D7I3E2 L E S G E R P V T F I H Y A R N G S S A H A F S V L L R D W Q Q R Y P L F H V
UniRef90_UPI0001E2884B L R T G N S E R V I F I H Y A R D N A S V Q G F Q T A L R D E W R A G R Y P L F H A H
UniRef90_UPI0004630555 L G A G A N S E R V I H F W Y G A R D L R E A P Y V D E M R R R L A R E H A N F S W
UniRef90_F8JBL9 Y D L G E D R D V V F V H S A R T S P R D I I F R N E L A T I A H G M N R F R T A
UniRef90_Q5LT33 E R M G G A W E L H Y S C R S R E L G T Y V D E L E T Y K K P N K V H
UniRef90_UPI00046E5735 L E T E P Q S S V S L F L E Y G N R T V S S I L F L E D L S K N K Y P N T R M N
UniRef90_B5WS21 I D L G L D R D I A F V H S A R T P A D L V F R A E L L Q R L A K L S P Q K L F
UniRef90_M9WCY0 F R A G K S F A I H Y C G R R R S Q A R A F K D H V L A Q E L E K F P N L Q V
UniRef90_A1CN79 A G S S T V Q R K I H F I H C Q C A R S E A D I P A R D E L L D A L R S A H S G L T
UniRef90_UPI00036F0941 Q F K G S T R A V T L Y W G G R R P Q D L Y L H D W V L A R T A E M P Q L R Y
UniRef90_U3HRJ9 L K T E R P I H F I H C Q C A R S E A D I P A R D E L L D A L R S A H S G L T
UniRef90_C9P7C6 A D H Q M M Q D I V F I H C Q C A R S E A D I P A R D E L L D A L R S A H S G L T
UniRef90_UPI0003B63AC3 S R S G P R E R K L D F F Y G G R R S A D L C A S T M I E R D A L L R K R L V S C
UniRef90_W9AR48 S E P E T M S T F T L V Y A N R A N S D T H A F A D R E L L E N T L A H R M P K L H V
UniRef90_UPI00046AA512 L M R G E P E Q S T F T L V Y A N R A N S D T H A F A D R E L L E N T L A H R M P K L H V
UniRef90_L7L8Z4 L A D G T G P I T F F Y A N R S E N D V I F A A D L L R A L Q Q K H P G R L L T
UniRef90_XORYL0 F D R R P D Y G K I K I L Y A G A K T P D S E I C F K E E L K A A W K K L P D T E L L
UniRef90_E2SEK4 L A R G S D G R V L F Y H G S R T S Q A R A F K D H V L A Q E L E K F P N L Q V
UniRef90_I1G874 L E N E D D F T K L R L L Y A S K T Q H D L L K N L I N E F S D Y W N F S V M
UniRef90_F0GAG2 L S R A S H R R V H F I H A C E H G A V H A F A D E V L F R A L A A T R D G L D V H
UniRef90_W0TLG6 F E N G E M R D V T L I Y H G A R N Q D E L Y Y R E L F E L A K E H S G I D F R Y
UniRef90_D6TQY2 L D T R E K R D I L F Y V N K T A N E F V Y V D V L F Q A A Q A Q L G A K V Y
UniRef90_UPI0002E8B92E L E T E P H S R V T L L Y G N R A S S A A L F R E Q L E Q D L K N A Y L Q R L N K
UniRef90_F8EEK7 L Y T A P E T S V T L L Y G N R T A S E S T I Y F R E Q L E Q D L K N A Y L Q R L N K
UniRef90_A1WR56 V Q S G E E R P I R F F Y G A R S R R D L F Y L D D F A E L E D K L P D F R F K
UniRef90_C4LA03 L D N Q R E T E L L F H S A R H A E R D L I F A D E V L M A L A A K Y P Q F S K
UniRef90_UPI000329B54A A E Q G H P A Q V T W L H A A E N G R V D A F A D E V L A A R G Q R L P H F S S
UniRef90_R6W1F0 L R T R N C R R E M H Y F Y G A R A L E E T P F L D D F L Q L E K E Y P N F H F
UniRef90_Q3SJU2 R D A G L G T Q A H L V Y S V S D S R E I L F R D E L E A A V R N H R N L H
UniRef90_A1UJH0 L A T S A R S I R L F L Y A N R N D S G S V I F A D D L A R L V E H N A D R L V
UniRef90_E8WMA3 L R H R D S Y G D I T L M Y G A R Q P K L M L F R E E L T A L A A E G G L R L F
UniRef90_A0A014M4M2 Y A T G S A R P V L L S L H A D R A S P A D H A L R A D T R R L V A K L P E A R A
UniRef90_Q8XK66 Y D E P N Y V E T L S L V F G F K N S E G I L F K N D L D R W N E Q N T I Y T
UniRef90_J2IUF1 L A E N T Q R K I Y I Y W G M Q H S T H F Y S S L P Q Q W A D A N P D I H
UniRef90_L7F1R1 Q G G H A V Y I Y R V A R D Q D A V L Y E E L R D L A H A K G A E L H
UniRef90_E9UZF0 E V D G C D R G G R V I Y G V S T D D D L V K L E E V L G E L V S R L P G F S
UniRef90_W9BV83 V F E G R T T R Q T W L V H S A R N R A E R A F D A E I D A L V E A A Q G A V K
UniRef90_M5U5U8 V A A A N K T P V Y F L Q A A R N S D G A S H A F R D E V R G L A D R E A P V D V T R
UniRef90_L8MBM7 L K T S R R R I K L V Y A N R S D E A S V I F R D E L R V L A K A H V D Q L E
UniRef90_N9CYH4 L E E K G A E H P V R L V F G V T N D F D L V A L E E Q L N A L Q A K L P W F E Y
UniRef90_B6B4E4 L A R E P D S R F T L V Y A N R S G V N T I M F R E E L E D L K N T Y P N S G R L N
UniRef90_G2PDQ4 P G K G S D L T L L Y R A R S V G D L A L W S E L K Q I A T E R G A R L L
UniRef90_F7NTS2 A A A G V K R P V F L Y W G V R H E E A L Y H M P E L L Q Q W A A T H H D Y R
UniRef90_G3LGX1 R K K R V E R S C T V L F G A R T T A D L Y A L E Q L A T I G R G W K G Y F N
UniRef90_Q51603 A G Q R N D L P S V R L V Y G V N R D D D L V G L D K L D E L A T G S G F S Y
UniRef90_UPI0004706C8B H A L P G Q A D V V L L Y H G S A P D S F A F S E E L D F L A K A D F R I K V J
UniRef90_I2IY89 I K R R L D R P L T L Y W G A R R V E D L Y L A L A Q K W H D G G Q L K
UniRef90_S6AJB9 A S S D A D F Q L H Y C V R S E E H A A F V A R L E G S P F A G R V K L H
UniRef90_X7G8Z3 Q R S G Q R Y H L H Y C F H S E E H N A F Q Q Q L T Q A P F T D N V S C H
UniRef90_W1YYYO L S D N S K Q N I M Y L H A C C E N T Q Q H S F A H Y L N E L S T A Y N S L Q T I
UniRef90_UPI000471E726 E S L G R S W E L I Y C A R T Q P Q A A F L E V L R N L Q P Y N S G K V R F
UniRef90_H1QLS3 A A A G A T R P V T V V H A D R T P D D H A H R Q E Q F D L V R A L P D A R L
UniRef90_M1VBW0 V E R Q R E P E P E K L I F A N N T E M E L L R E E L E D E M A A S S N G F L D
UniRef90_B3E0W6 K Q Q R G F E K K L L Y G A R T K E E L L F M P F L E K M A Q E K V I D
UniRef90_G2J3J0 V Q D G L A Q R L V L I Y S N R R P E D A A F L A E L Q A L E Q R N H H F R L
UniRef90_UPI00036321D0 Q A Q G R S W S L H Y A T R S H D R C A F H E T L T S
UniRef90_UPI0004658AC8 H A L G R D F T L H Y C T R S R D R T A F R T V I E Q A P W A S V V F H
UniRef90_G7DKE1 R R R S L A P I P A S L I Y S A R S L A D V V Y R D E L D T M A H G D R D L R L
UniRef90_D5X4U3 R A N A D P R E V T L Y W G R K Q Q D L Y L H D W A V Q Q C A A M P H L R
UniRef90_E3IE82 V S R Q P N R Q T F I H A A I N G N V H A F D Q E L R R L A E H P A F S Y H
UniRef90_A0A023RTT1 L F E Q P E A N F T L L Y G N R S W K Q T M F A E Q I M D L K D Q F K E R F Q
UniRef90_UPI000369F037 T K T K I T D R K M S Y F Y G A R A L T E A F Y L E D F Y H E L E R E F P N F S F
UniRef90_D3IHN7 L K T L H T R R E M H Y F Y G A R S L S E A F F L E D F H E L E K E Y P N F S F
UniRef90_NOATU0 A E L G E N T P V L F L F G A R T K K D L Y C L D E I H E L I S F W N A P F H
UniRef90_C6VK98 L A T D A P A R I L S L L R T D R T A Q D E I F A D E L S T L L A R H N P D R L T
UniRef90_J2YDR3 L A L G K S A E L I Y C A R S R Q E A A L V E E L S G L S A K V
UniRef90_A5VZP8 L R T G Q A R R I H L F H G A R S L A D L P F Q Q E L A T L Q Q Q A G E L L H
UniRef90_F5S5G1 A Q T Q N T R H V H V Y H G T R F A N G L Y D E A A L C E V L A Q L P N A K
UniRef90_Q1LH74 M D D P D C P V W L Y W G M R S A A D L Y L H D E I A R W G E R L Y D F Q
UniRef90_Q47CC1 V A D G G S A H A I H L I Y G V N T D T D L V E L D K L A R A F A A T L P N F T Y
UniRef90_H5U3H3 L D H H L V P E L L Y H G G R N E E D L Y D I E Y F T R L S Q R H D N
UniRef90_B1YXE8 A E Y Q E R G D A R L F H G V N R E E N E L F M L D E L A R L R A E L P Q L L V
UniRef90_I4Y3F9 V A D G G C T Q P V H L Y Y G V R N V A D L C E T A R L E A Y A D Q L P G F R
UniRef90_I3D8N5 L K N R P E T N V T H I S V H S P E D V I F K Q E W A E L K A Q F P R L N L
UniRef90_D9SD88 L Y I G I K R P M T H V I Y W G A R K L S D L Y M L E M A K Q W E A Q G I Q N T
UniRef90_UPI0003FACE99 L H D E P K S R V I T L I Y G N R N E G T V I F K N K L T D M V A E Y A G R F A
UniRef90_N8ZH70 L F N Q K D A T F S L I Y G N R S W K Q T M F S E Q I M D L K D Q F K E H F Q
UniRef90_A0A059IPC6 M D T G D L R P A V L L Y G A T R A A D I S Y S E L L D D A R A R G L R T
UniRef90_K4QT36 P G G P G D I T L L Y R A R T A E E L A L R D E L E E I A D E R G A Q L L
UniRef90_H0W5V3 A R S G Y E I G T K L F E Y S A K N T S E L V F K K N I L D L V N E F P E K I A
UniRef90_N1W854 L S S E L F R F H I I Y S N S F E D D V I F I E E L R K L A A H H K N F L
UniRef90_W9G314 I R E R H A V P E I T V Y R V N D E S E A T L R G E L E R L V A A G G H E L L
UniRef90_UPI0003683526 L E E E P N S R F T L V Y A N R D S P E S I M F F G E I T D Y Q F R Y P D R L K
UniRef90_A0A038GAZ4 T L E A D F E L H Y C I R S A E R G A F I K R L R Q S P F A E R V T L H
UniRef90_H6R5G2 T E E G Y T G P V V F L H Y A R S P E Y V P H R A E L D A I A A A N P
UniRef90_Z5XIN2 A E R G S Q R P L W W L H G A H T G T E L P F A A E V R E L L N R L P H S K S
UniRef90_UPI0001E89FAA K E Q G S S F E L H Y S T K T K D D C A F Y S V L K N E Y P Q H
UniRef90_D3D7N7 T R T R P D R R V V V A H A D R S A L S H P V R D E V R M L G R Q L R G F E E
UniRef90_D9QRP5 Y K N Y A D V N S V H F L T G F K D K A S L Y S E E L E K Y R E K F S N
UniRef90_U5VGX2 W S Q G E F E L H Y C A R S H E R A F L E R L T S A A Y A S V N H L H
UniRef90_H1Q3N0 L K T L N T R R E M H F F Y G A R A L S E A F F L E D F W E L E K E Y P N H F H

UniRef90_A3K7C0 I I H I L D G E G Q D I D L F T G R L D M E M L F R L W L D A E T V D T A F L C
UniRef90_D7I3E2 V Y A E R A D H E V Y T P D A I G F P S I T H L E K W L P A D R D V D A Y F L
UniRef90_UPI0001E2884B V Y H S D L M P G D V S A G R L T G L P S L A H L R Q W L P A S R D I E F V Y F L
UniRef90_UPI0004630555 H L V L S L E A A E G D G D W L Q R G L V H E A A G A G L L A P S L H D C D F V Y F L
UniRef90_F8JBL9 F V C E N T G E Q R D W S A P T G F L T L P L L K S M V P D L S E R E I F Y C C C
UniRef90_Q5LT33 V Y F D D Q D Q A L G S L L H I L S R E E Q D S E L F N G R L S A E K C A Q L L D G G P L G T H V Y F L C C C
UniRef90_UPI00046E5735 L L H I L S R E E Q D S E L F N G R L S A E K C A Q L L D G G P L G T H V Y F L C C C
UniRef90_B5WS21 F V C E G T G E E S D W A G A T G R L S L Q Q L S E W L P D F K E R E V F T C C C
UniRef90_M9WCY0 I S E E G E K I R P H T F F T S K P S E Q D Q A G I D Y H H L G R I D L Q K L G D S A D Q T E F Y L C C C
UniRef90_A1CN79 T F F T S K P S E Q D Q A G I D Y H H L G R I D L Q K L G D S A D Q T E F Y L C C C
UniRef90_UPI00036F0941 V P V V S D Q P E D G W S G R T G F V H Q A V L D D F A D L S G H Q V Y A C C C
UniRef90_U3HRJ9 F Y C Y D E H R G D E P Q P D A V D G L I T T E E R L D A W L P A D R D L G A Y F L C C C
UniRef90_C9P7C6 L M L S L T Q P S I D W P A L K G R L S L S H L K K I E N V I Q R Q V F V L C C C
UniRef90_UPI0003B63AC3 F S S I S D S T Y A E P W G G A R G F V H E V A R R S L E A G S D P T D Y Y F C C C
UniRef90_W9AR48 I N H Y N D P L P R D N K G E D Y A T S E L I T A A V V N D L E E Q R A R F Y L C C C
UniRef90_UPI00046AA512 V I H M S G Q D I D L F T G R V D Q D K C A Q L T F K H W I D I K S Q D T A F I L C C C
UniRef90_L7L8Z4 L V H S L T Q P D P A W H G L T G R I D P V K L E S H A L D V P D D D T L Y Y L C C C
UniRef90_XORYL0 L T V D Q P D D A W K E N V G V V T T T L W D K T D M D A S G S V A F V C C C
UniRef90_E2SEK4 V V H W L E S V Q G L P T Q A Q L K A F A G S H A E W D A F V C C C
UniRef90_I1G874 Y F F S S C N E C Y G D C V K F G R I D Q S I L E S E L G N S E S I Q F L I C C C
UniRef90_F0GAG2 V C Y R Q P R E D D L A R G G F D L V T R E L L Q S L L P L D D D Y D V Y L C C C
UniRef90_W0TLG6 V P L S E E P E D S G W E G R G Y V H E V A E H F F E N G R F E G H K A Y L C C C
UniRef90_D6TQY2 V V T D T T A V P R N W P G L V G R L N E Q V I Y A T V P D Y R E R T Y Y L S
UniRef90_UPI0002E8B92E L I F V F S R E Q Q D I D L Y N G R I D A D K C A R L F S R W L D V D A A F I L C C C
UniRef90_F8EEK7 V I F F W G N A K N L R Q A R L D N S M L E E H L L S K D D V L F Y L C C C
UniRef90_A1WR56 I P A L S N A E P G D D W S G A T G L I H E V L G R A L L Q A L A G E I D A Y T C C C
UniRef90_C4LA03 L S L L D N T P T D A F V C Y Q G F L N P V L F D Q L V P D L S D C H A F M C C C
UniRef90_UPI000329B54A H T W Y R V P D A G D R Y D T Q G L M E L A P H K E Q L T D P A M Q F Y L C C C
UniRef90_R6W1F0 H R P D P K A D A A G V K Y T P G F V A P V M G D T Y L K E D P E D C E Y Y L C C C
UniRef90_Q3SJU2 L S I T V T Q P D P A W H G L T G R I D P V K L E S H A L D V P D D D T L Y Y L C C C
UniRef90_A1UJH0 L T H H Y D D D S G V V T P A A I E S F V A G A G D A D F Y L C C C
UniRef90_E8WMA3 L T V D F A Q E T C N G G Y S C A V G L L P D L L K G F R F D A S S S Y A A V C C C
UniRef90_A0A014M4M2 E F W Y E Q D A A E E A G A R T G L M D L D G L D L P D A D A D V Y L C C C
UniRef90_Q8XK66 L D N D T E K E W E T G L V T V H L N K L P L E S F G D N Y E V I L V C C C
UniRef90_J2IUF1 F I P V V S G E E S N W Q G R K G F V H N A V V E D F E N L A D F D V Y A C C C
UniRef90_L7F1R1 L V S G P V V P D R L A P A A L A E L V P D I A D R D V F L C C C
UniRef90_E9UZF0 W D H C V S D P A S T A N K G Y V M S L I R E Q D L H D G D V A I Y L C C C
UniRef90_W9BV83 V Q P G P D E R T G R D H Q G V G R L T A D T F R Q I L P F G D Y D F Y L C C C
UniRef90_M5U5U8 F I Y D A P L P T D E S D G K C D D V G L V T K E Y L A E P T A D A G L Y F C C C
UniRef90_L8MBM7 V V H V L D S V I Q F L S E G E V R Q L V R G H A G A E F Y L C C C
UniRef90_N9CYH4 R T V V A S P D S A H E R K G Y V T G H I D N E W L N G G D V D V Y L C C C
UniRef90_B6B4E4 V I H I L E S D A Q D I E L F K G R V D C G A L F A N W I D I K S V D T A F I L C C C
UniRef90_G2PDQ4 Y A V N G P D G A R P E I T A E R L G H L L P D I A D H D V Y L C C C
UniRef90_F7NTS2 L M P V V Q S P T D N W Q G R S G L V H Q A V L D D F V S L D A Y D I Y L A C C C
UniRef90_G3LGX1 F V P V H E P E D S A W T G A R G L V T D Q F I A P S L S R E P N D K S E M Y M C C C
UniRef90_Q51603 I T T V V D K D S A Q L R R G Y V T Q D I T N D D M N G G D V D I Y V F A C C C
UniRef90_UPI0004706C8B Y C L G D R E C G E E W T G R T G R L S Q E L L E E L V P D A N G R Q V F A C C C
UniRef90_I2IY89 F V P V L S E P N A D W H G R R G F V H E T V L E S D L G S L L A A Q P G D T Q L Y T C C C
UniRef90_S6AJB9 F D D G A R G R L D L A R T L A D V E P G A H I Y L C C C
UniRef90_X7G8Z3 V S S L N G R L D L A R T L A D V E P G A H I Y L C C C
UniRef90_W1YYYO T W F N Q S S E G A D F T G L M D L A A I K T Q L P L T N G D F Y L C C C
UniRef90_UPI000471E726 N F D G E P G G S I L D I A A V V N E A A P G T H F Y L C C C
UniRef90_H1QLS3 H L W Y E E P G D R A T E A S T G R A D L S G I D L P E N L T V Y L C C C
UniRef90_M1VBW0 I H Y L V R E A P L V P G P Q L M Q V S R R Y L E E R L V P P P E Q N Q T L I F V C C C
UniRef90_B3E0W6 L H L S L D R A P S P G W N G H V G T V I T L V S T V Q P P F D P Q Q T V V F C C C
UniRef90_G2J3J0 V A T M T Q M E Q R P W T G E A G K I D E T L L K R V I S E L P A P I C Y L A C C C
UniRef90_UPI00036321D0 S S L A S S H L Y F D D G A A N R R L D L A R Q T I A S A P A G A H L Y V C C C
UniRef90_UPI0004658AC8 F D D G D D A Q R L D L A R D L P P L P G K N H L Y V C C C
UniRef90_G7DKE1 V Y A L T R E H P S D W N G H R G R V N E A L L A E S S F T R E Q N P T F F I C C C
UniRef90_D5X4U3 F T V Q S D A D A D W S G R T G F V H R A V M D D V P D L S G Y A V Y A C C C
UniRef90_E3IE82 V C Y V L S D R K H P Y F G K E G F I D L P W M Q T V I P A K E A D F Y F C C C
UniRef90_A0A023RTT1 L T N T F S R E F N D S E L M N G R I D A E K L K Q L F D L E T N F D H V F A C C C
UniRef90_UPI000369F037 H L A L D K P D P Y T P G F V H Q V I H D T Y L K D H D A P E D I E Y M C C C
UniRef90_D3IHN7 H R P D P K A D E A G V P Y A G V I H E V M Y N T Y L K D A P E D I E F Y M C C C
UniRef90_NOATU0 F I P V L S E E S L G S D W I G A R L V I T D Y I K D F P G I R L S S C K A Y L C C C
UniRef90_C6VK98 V T S A R T A E Q G R L D A T R V L G A W L T A P S E R A H Y Y A C C C
UniRef90_J2YDR3 V Y H F N D E K G M P D L S A Y L A G P P D D T H F Y C C C
UniRef90_A5VZP8 I H R A L S Q P E G H A Q V G R D Y L G I E Q V K A T L A L D D Y D F Y L C C C
UniRef90_F5S5G1 Y T P V L S R P N D D W T G A T G Y I T E H V L R D Y P D L S A H E V Y A C C C
UniRef90_Q1LH74 Y V P V L S R A D D T W Q G R R G Y V H D A V A D I G D L S A H E I Y L C C C
UniRef90_Q47CC1 A L V V V A A D S A Q P K K G Y V T Q H I E P A Q L N D G D V D I Y L C C C
UniRef90_H5U3H3 F H Y R P A L S E E T W S G A T G L V T D V L D D F S S C K G M S A Y L C C C
UniRef90_B1YXE8 D V C V W R P G V E W T G L R G T P V D A L R A A L A H A P V L P D V Y V C C C
UniRef90_I4Y3F9 Y T A V I S E P T A D W P G K R G Y I A E H F D C S E L R D S P V D M Y V C C C
UniRef90_I3D8N5 V M N A S V D A T P G F E S G R I S K E M I A K A V P N I A D Y T V M T A C C C
UniRef90_D9SD88 P V L S D A L P E D H W Q G R T G F V H C A V L E D Y S D L S A H V V Y A C C C
UniRef90_UPI0003FACE99 V E H V F S Q P H K Y T G R L N R K M L I Q I L E N L N F S G A P N T E Y Y L C C C
UniRef90_N8ZH70 L N I F S R E M N D S E L F N G R I D A D K I K Q L F N S D L Q D H C F A C C C
UniRef90_A0A059IPC6 V Y A L S D P E P E V D P G H A G R I D C A L I A R E V P D F R D R I F Y V S C C C
UniRef90_K4QT36 Y A L N S P D G R R R A I T A K M L R K I L P D I A H H D V Y L C C C
UniRef90_H0W5V3 C S L H V T K Q T T Q L S A E F Y R I T E E E I K D H I S N E T L F Y V C C C
UniRef90_N1W854 T E F L S R E S T P N F K G Y R R L T L S V L Q E L P E A S K M Y Y V C C C
UniRef90_W9G314 L L S G P P V Q G S W L P P D S R S V S D V T R L Q E L V P H L S A H E A Y L C C C
UniRef90_UPI0003683526 V I H V L E Q G G D S G P G F V G R I D A E K L S D L A T K G D V G N W F M C C C
UniRef90_A0A038GAZ4 L D E Q P D T A L D A S R V L A N P D A E T H L Y V C C C
UniRef90_H6R5G2 V S V Q M R Y P E L D G S A F D Y D E L E R T A P W F A D A H T Y L C C C
UniRef90_Z5XIN2 R I F F S S P G P S D R S G V D F D E R G R L T A Q A L S A L P S Q A Q V F V C C C
UniRef90_UPI0001E89FAA T F S L R K S T T Q L S A E F Y R I T E E E I K D H I S N E T L F Y V C C C
UniRef90_D3D7N7 L T W Y E Q H D G A P E P G V E A G L I D A D K L P V P D G V R A Y L C C C
UniRef90_D9QRP5 T I Y S L D N E E I D G F E T G F V T E Y I D Q V F A D F A D Y Q V I V C C C
UniRef90_U5VGX2 F D A H P N T R D L A Q V L A N P G A Q D H L Y V C C C
UniRef90_H1Q3N0 L S L D R P D P K A D E A G V K Y Y I R D T Y L K D H E A P E D C E Y Y L C C

UniRef90_A3K7C0 G P E P M M [] T [] A E S L R E A G L A D E Q [] []
UniRef90_D7I3E2 G P T P F M A F M K R A L K D L G V P E N Q [] []
UniRef90_UPI0001E2884B G P Q P F M A F M K R A L H E L G V P D D R Q S H
UniRef90_UPI0004630555 G P P A M [] A A T R Q L L Q R L G V Q D D R [] []
UniRef90_F8JBL9 G P E A Y M A N V R A M L A A A G F D M A R Y H S
UniRef90_Q5LT33 G P K G M [] D W V H A T A A A H G W P D E N V H S
UniRef90_UPI00046E5735 G P E G M T L D V K S C L I S K G V D K S N L H S
UniRef90_B5WS21 G P A G Y M S A V R Q L L H E G G H D P D R Y H Q
UniRef90_M9WCY0 G P E G F M D G L A D A A R G G G Y P P E Q L H Q
UniRef90_A1CN79 G P E G F M T E M E D C L K A R G V G D D R L []
UniRef90_UPI00036F0941 G A P [] V V E S A R T A Y S A Q R G L P A E E F Y A
UniRef90_U3HRJ9 G P K P F M A A [] R R Q L R A L G V P E Q Q [] []
UniRef90_C9P7C6 G P D G F M Q K A K N L L L K L G V P E T A Y H Q
UniRef90_UPI0003B63AC3 G P P A M T D A V Q R M L L D L K V P V S Q M F S
UniRef90_W9AR48 G P E P M M Q A I T E Q L I E R D V A K F D I F S
UniRef90_UPI00046AA512 G P E P M M [] A I S D A L K T H G L E P D Q I []
UniRef90_L7L8Z4 G P G P F M E A V H Q G L A K A K F D H R E V H T
UniRef90_XORYL0 G P [] M [] K F S V Q R L Q Q S G F K A R D L Y
UniRef90_E2SEK4 G P A P F M A A A V A A L K E L G F P R S R R H Q
UniRef90_I1G874 G T K S F D K D M I K Y L L K L N F N Y E Q I F K F
UniRef90_F0GAG2 G P P G F M Q A N W R L L R G L G V A R E R L []
UniRef90_W0TLG6 G P P E M I D A C V T T L M K G R L F E R D M F
UniRef90_D6TQY2 G P P E M V R A S V E M L G H M H I R P N Q I []
UniRef90_UPI0002E8B92E G P Q A M T E T V R D S L K A H G M A A E R I H
UniRef90_F8EEK7 G P L H F M [] M V Q I T L L T M G F E K A R I H
UniRef90_A1WR56 G P T P M I D A V I P V L Q M A G V A P E R L Y
UniRef90_C4LA03 G P T P Y M D S L E S C L R D R Q F P M H N S H K
UniRef90_UPI000329B54A G P V G F M Q S F A K Q L I G L G V G A D R I H
UniRef90_R6W1F0 G P P M M A K T V L D L L H S L G V E D D M I []
UniRef90_Q3SJU2 G P R G M V E D M S T L L H D L G V P M N R I []
UniRef90_A1UJH0 G P G P F M D T V E G A L A T R G A P R D R V H
UniRef90_E8WMA3 G P P P L Y R C L V S D L E K A G V P A E R I []
UniRef90_A0A014M4M2 G A L P F M R A V R A Q L L Q A G I P A R R I []
UniRef90_Q8XK66 G P P V M M H F T A L E F L K L G V P E E K L W V
UniRef90_J2IUF1 G S P V M I D A S R K D L M T L G L P A K H F Y A
UniRef90_L7FIR1 G P P P M M N A V L R S L R E L G V P R S Q T H
UniRef90_E9UZF0 G P P P M V E A V R T H V A G A G I E P []
UniRef90_W9BV83 G P G G F M Q D L Y D G L R D L D V A D K R I H A
UniRef90_M5U5U8 G P K P F M [] S I E R S L N E L G V D S D R L H H
UniRef90_L8MBM7 G P G P F M D T V E R A L R G A G E D A A R I H V
UniRef90_N9CYH4 G P V P M V D A V R G W L D S E G V K P A N F []
UniRef90_B6B4E4 G P E P M M [] G L A A A L K D H G L S E E Q I []
UniRef90_G2PDQ4 G P P G L A E H A Y G A L R E A G V P D R R I H
UniRef90_F7NTS2 G P F P M V G V V R D A F L D Q G A K R E Q M F A
UniRef90_G3LGX1 G P P G M I D R A I E T A V G H G I A I E Q I H
UniRef90_Q51603 G P P M V E A V R S W L A A E K L N P V N F Y []
UniRef90_UPI0004706C8B G P E G Y L N S A T E L L R S V G V D D T S V F
UniRef90_I2IY89 G N P A M T T A A H E S F L K A G L P D D D F F S
UniRef90_S6AJB9 G P G G F M Q H V L D S A R E L G W E E S R L H S
UniRef90_X7G8Z3 G P A A L N E A V Y R T A A E L G I D A A R L H S
UniRef90_W1YVY0 G P A G F M A F V K S Q L L A L G V K N E H I Y
UniRef90_UPI000471E726 G P T P M I E A F E R A T D N Y P A E Q V H V
UniRef90_H1QLS3 G P V P F M R A T R G D L L R R G V P A E A V H H
UniRef90_M1VBW0 G P P G M M E L V L A G I L R D L G Y T E S H V W K
UniRef90_B3E0W6 G P E I M M R F A A R E F E R W K V P K K N I F
UniRef90_G2J3J0 G P P A M V E D M H R V L N L A G V D D D D I []
UniRef90_UPI00036321D0 G P T G F L D A A L D A A R A Q G W A E S R L H S
UniRef90_UPI0004658AC8 G P E G F M D W L I G Y A E A N G H D G T V H
UniRef90_G7DKE1 G P T G F V I E G I S S M L V K L G F D P []
UniRef90_D5X4U3 G A P V M V E A A Q R D F T Q L C Q L P E D A F F A
UniRef90_E3IE82 G P L P F M K T V Y H S L K E W G V A D E N I H T
UniRef90_A0A023RTT1 G P D E M M N A V E N T L P N F G I A K E R I H
UniRef90_UPI000369F037 G P G P M A N A V Q R M L D N L G V P P E M I []
UniRef90_D3IHN7 G P G P M S K A V Q V M L D N S I G V D R E N I []
UniRef90_NOATU0 G P P G M I T D A A I G K L S D Y G I N N N Q I F
UniRef90_C6WK98 G P D P L V A L F R E S L L T T R G V P P E H V H
UniRef90_J2YDR3 G P T P M L D A F E S T C E G L G Y P H A H I E R F
UniRef90_A5VZP8 G P G S F T Q Q L Y E G L R G V H V P D A R L H A
UniRef90_F5S5G1 G S P D M V R D S K A A L V A Q A K L P E Q A F Y S
UniRef90_Q1LH74 G S P N M I H D A [] [] [] [] [] [] [] [] [] []
UniRef90_Q47CC1 G P P P M V E A V A Q N L R E R A I Q P A S F H
UniRef90_H5U3H3 G P P P M I T A A V K A L K R R R M A P R L [] F
UniRef90_B1YXE8 G P P P L V E G A R E V A I A A G V P D A Q F []
UniRef90_I4Y3F9 G P P P M V E S I R N W L Q D Q Q L E S G Q L Y
UniRef90_I3D8N5 G P E S Y M N A L K D I V L S L G V T E D R F F T S
UniRef90_D9SD88 G A P V V V E A A H T D F T S T R G L P N D A F F T S
UniRef90_UPI0003FACE99 G P E G M M T E A R E A L N I L K V A P E R I Y K
UniRef90_N8ZH70 G P E E M M N A V E S V L P E F G I E K S K I H T
UniRef90_A0A059IPC6 G P R S M V R H F Q K S L A E L G V A R R R I []
UniRef90_K4QT36 G P P G L A E E S Y A A L R E A G V P H R R I H
UniRef90_H0W5V3 G P P P M T E F F S K Q L E S N H V P K E H I F
UniRef90_N1W854 G P T P F N E N C S A L L S D L G V K S G R I []
UniRef90_W9G314 G P G P W M D L V R P T L L E G G I P A S H I H
UniRef90_UPI0003683526 G P G P M T E G I Q A A L A D L G V E K Q K V []
UniRef90_A0A038GAZ4 G P G G F M Q H I L D S A G A A G W T E D N L H H
UniRef90_H6R5G2 G P A P L M D S V R R V F A E Q L G D R L H H T
UniRef90_Z5XIN2 G P E R F M D A V S G A L I A S G V D A L N I H S
UniRef90_UPI0001E89FAA G P E G F T S F S R A A T I I G Y P K A S I H
UniRef90_D3D7N7 G P L P F M R D V R A S L L R R G V P A E N I []
UniRef90_D9QRP5 G P Q P M M D A A A E C L E Q G V A E D R I W V
UniRef90_U5VGX2 G P G G F M Q H V L D S A R S H G W P D A R L H
UniRef90_H1Q3N0 G P P M L T K T V T D Y L D S L G V D Q D A []

1 10 20 30 40
UniRef90_UPI00036B99EA G P Y G R F Y I R E S A P E P M L F L A G G S G L S S P K S M I L D L
UniRef90_HOTMW2 G P F G T E W P V I T A E G S D I L I I A G G L G L A S P L R S P A I T H V
UniRef90_UPI00036C058 F E G P L G S F G L H E D S Q A N V V L L A A G G T G F A P I L K S I V E H A
UniRef90_H6R155 P E G R F F L L N P E V H K N Y I G F A A G S G I T P I L K S M L K S V
UniRef90_F5RHA9 I G A P R N L F A L Q E P A R R T L L F A G G T G I T P M L A M A Q Q L
UniRef90_S6JVE0 R L R I S E P R N L F P L V H E A G A R S L L F A G G T G F A P I L K S I V E H A
UniRef90_Q5P6H3 F E G P L G S F G L R E D S T G A A L L I V G G T G F A P I L K S I V E H A
UniRef90_E0IEV8 P A G D F Y M D R E D S R P V V L I S G G V G L T P M V S I V E H A A
UniRef90_W4NHE3 A F G P S G F T P S A G S P E A L L F M A G G S G L S P L R M A M T R A A
UniRef90_UPI00035FF349 G P Y G R F F V R K S A P E A L L F M A G G S G L S P R S M I L D L
UniRef90_M2ZWZ1 G P L G Q F A L V R P Q G E P A I L T G G G T G L A P L K S I V R H A
UniRef90_UPI00047DC19D G P M G S F F L R D I K R P A L L L A G G T G L A P L L S M L E K M A
UniRef90_G9C9M3 V L P P A G R F T L A R H G Q P V L L Y A G G S G I A P I F A L A R Q A
UniRef90_Q4CMU8 F L R G P Y G N G F D L E N K G K E L I V V I A G G T G V A P M L Q I I R A A
UniRef90_A6LR18 P Q G E F F L D L N T D S P V V L I S A G G V G L T P M V S I L N T L
UniRef90_B0JFC8 G R F V L E S P Y G R F F L L T E A A D P L L F L I A A G S G I T P L F S L L K Q A
UniRef90_UPI000415D612 P P A G D F T L A A S D K P L V L I S A G G V G I T P T L A M L D K A
UniRef90_L1LV11 G P Y G R F S L L T E A A D P L L F L I A A G S G I T P M L S M L R H L
UniRef90_S7U288 L T L R G P H G S F F L R E S M R P A L L L A G G T G L A P I L A L R K L
UniRef90_L7LPU1 P R G D F F L D V Q S D T P V T L I A A G T G L T P M M S M L Q H L
UniRef90_D3V8J6 P E G S F R L S Q M K G K E L L L L A A G T G F T P M I N V I R F A
UniRef90_V9KPJ0 P A G D F T L G A A D Q S L L V L L A A G G I T T P L L A M L R H L
UniRef90_H0JGD6 R A P E G R G F P L D Q K G R D L L L F A G G T G I S A I R S V I E S L
UniRef90_Q09DN2 F L R G A Y G K G W P V E Q F A K H V V L I T G G T G L A P V K S M L N M F
UniRef90_C0D1V8 P F G D L V L Q D D D A P L L L V S A G G I G C T P M I G M L S H L
UniRef90_C1B0M1 P Y G E F S L D E E K D H P L L L V G T G T G M A P L K S I I E D Q
UniRef90_A0A024E833 G P L G T A Y L R R K H T G P M L C V G G G T G L A P V L S I V R G A
UniRef90_U6C0H5 G P D G G F V L P E V I D H D M V M V C T G T G V A P F R S M L Q H I
UniRef90_F4L5R9 I S A P R N H F S L E P T A E R T L I A G G I G I T P L M C M A E S L
UniRef90_UPI0003EDAA5E T V D P R R N F P M S Q S D G K C I F L A G G I G I T P L L S M A R H L
UniRef90_K8NY08 P A G D V T P A D G D H P L V L I S A G G I G C T P M V A T L N H L
UniRef90_J7LE57 G P W G D F F H D A D A D G P M I L L A A G G T G L A P L K S I A L H A
UniRef90_K6X433 F E G P L G S F F L H P K N D T P L I F L A A G G T G F A P V K S M L E Y L
UniRef90_Q0AH85 Y P P A G D F F L R N N T S P A V L I S A G G V G Q T P M V A M L E T L
UniRef90_Q3IJR0 G S F Y L R P V I G S M I V D H T T R P V L L L A A G G T G I A P F L S M L D V L
UniRef90_Q46SX7 G E F E I G E P R N H F P L D W T A N H S I L L A G G I G I T P I L S M A E Q L
UniRef90_L8PEU2 G P Y G R F F T R K S A N L P M I F L A A G G S G L S S P K A M I E E L
UniRef90_K0DMU1 F W R G P F G A F C Y K P N Q H G E I L M L A A G T G L A P M V P I L Q N I
UniRef90_R4IU12 T I T L R G P Y G K Q F G L R H E S D K T V M V C V A G G T G M A P I K C L L Q S M
UniRef90_K6DS03 G P Y G K M Q L R D R D K D L V F V A G G S G M A P I K A L I E S V
UniRef90_J2VED9 P M G H F N L P L D A A K H Y L A F A A G S G I T P M L S I I K T T
UniRef90_UPI000375E38B G P F G N G F P F A T K G K N I V V A A G G I G L T P L R S S I V H A
UniRef90_M2VJD4 P F G D L V L E E G D A P L L L I S A G G I G C T P M I G M L N H L
UniRef90_UPI00034B0137 P T G R F A H A P D D A R I H V G F A A G S G I T P I M S T I R G V
UniRef90_C9Z3J7 A E G P Y G A F T A N R R T A P K V L L L A A G G V G I T P L R A L F E T L
UniRef90_M5TCL4 G E F T V D P A P A G V F V P E S L D G E F L L F A G G S G I T P V F S I L R S V
UniRef90_UPI000255A15B G P Y G N S W L D E A E G K Q L V L I S G G L G L A A I K W I M E E A
UniRef90_C0QP85 A M P P A G D F F F K D A K Q T Q V V L I S G G V G L T P M Q A M L N T L
UniRef90_W1RRL3 F I G P L G S F F L R D A P E D A I I F L A S G T G F A P I K S I L E H V
UniRef90_F9ZCV3 P A G D F V L P S T L S R P V L L V T G G V G I T P A L S M L N D C
UniRef90_M5DQW7 L A Y G P S G A F T P T G S R A A K S L Y L S A G S G V T P L M S M T R A S
UniRef90_B2JTG4 F L R G P Y G N G F D I N N K D K E V I V V A G G T G L S P V K G I V D Y F
UniRef90_R9BTR0 T L T V G A P R N N F E L D E S A A H T V L V A G G I G V T P I V C M A R R L
UniRef90_Q0K388 G T F A L P A Q R P A E I V L I S G G S G I T P V L S M L R T L
UniRef90_M3TIJ0 F L R G P Y G N G F P L I E S F Y K H L I I A A G G T G L A P V K S V I N H F
UniRef90_I4D0Z9 P L G S S Y F L R R Q H H S N P L I C T A G G S G L A P V N S I V E T A
UniRef90_A0A021XEA6 F T G P Y G S F T R R S R G G T Q I F V G G S G L S P K S M V L D L
UniRef90_UPI0004660D82 G V L E V A P R G D F V L T E G A G P V L I S A G T G V T P T L S M L H A L
UniRef90_S2YZB1 P C G E G F H L K D S A K P A I L V S G G V G I T P M Q S M L E T L
UniRef90_F3KD88 G P Y G N G F D I Y K G R E L V V I A G G T G L S P V R G V I E D Y F
UniRef90_UPI00047D75DC G P L G T F V P R E D S E R P M I F M A G G T G F A P V K A I V E H F
UniRef90_I4VPY2 G D F V S V S S P E G N L K I S K F Q D L F L L A A G T G F T P M V K I L N Y A
UniRef90_UPI000462BFD G S F H H N P L F H G F D I V F L A G G S G I A P A M S M L K A F
UniRef90_A0A024G5P8 P A G D F V L N T A G D L P V V L I A G G V G F T P L M S M L N S L
UniRef90_B0SDU7 P A G D F F M D N T A P Q T P V T L I S A G V G Q T P M L J A M L D T L
UniRef90_UPI00030D4604 G P L G G F T L N G E S R P M I F L G T G T G F A P L K S L L A H L
UniRef90_V5XT8 P T G S F P L D P L T R R D N V A V A A G S G I T P L L S L M R T T
UniRef90_UPI0004249632 G P L G G F G I R E G S L R P R W F V A G G T G V A P M L S M L R R M
UniRef90_L2TQG1 I G M P R N Q F P L A R D A S H H L L L A G G I G V T P M L S M A E Q L
UniRef90_G8M9A1 G K F E Y R G V C T I S G K Q R N I K R E I M I C G G S G I T P I F Q V L R A V
UniRef90_A4JUN4 R D I L V A G G A G I T P I Y S J A R G I
UniRef90_W3XAM2 P E N Y F P L H D D D R P A L L I A G G T G I T P L K A M A E A L
UniRef90_F9XQ54 G D F T L Q K N E A V P V V L I T G G I G I T P V R S I A Q A
UniRef90_UPI0003743A36 P F G D L L P E G D G P L L L A S A G I G V T P M L J A M L E H L
UniRef90_Q0AI51 L G P T G T M V P A D T G R D I L C V A D G T G L A P M K A I E H A
UniRef90_Q9KZ38 G W F V W R P P A A T E P V L L I G G S G I V P L M A M V R A
UniRef90_D6YB43 P Y G H F F L R K S D D K P T V F F G G S G L A S P K S M V L D L
UniRef90_A4FD83 G K F A I C P D K K S N P I I K M V K S V G V T M G G M G I I Q M L Q V I H
UniRef90_S5T9M0 S I E I S P P F G D F F L D D T N S A A V L I S A G V G V T P L A S M L H T L
UniRef90_UPI0001DEBD99 G E F F F D P Q M E A S R N L V L I A G G V G L N P L L S I L R H A
UniRef90_K5W0S2 G P L G T F A L Q E D D G S P L I L L A T G T G Y A P V Q S L L H R L
UniRef90_UPI0003F1889C G W F V W R P D V Q R E P V L L V G G S G L V P L M A M I R T R
UniRef90_L1NPJ1 E P A G N F V P R T W N R D L L C A A G S G I T P I V M S I L K S A
UniRef90_UPI000465C9AA P S G H F Y I D L D P A R E Y L A V A A G S G I T P I L S I I K S T
UniRef90_W7ZUP1 G D F Y F D P L P S G P A V D L L L V A G G V G I N P L Y S L L Q S S
UniRef90_K0C6I9 R L R I S E P R N L F P L E H G A G Y S V L F A G G I G I T P L L C M A E R L
UniRef90_M3ZFH9 V L T P S G V F V P R S L D S D F L L I A A G S G I T P M L S I A K S V
UniRef90_V9QVB7
UniRef90_I6ZGL2

UniRef90_UPI00036B99EA F E R G E Q R P I T 50 F I Y G A R N Q A E L Y Y R D L F E E L A A E H S N F T Y Y
UniRef90_H0TMW2 L A N R A R Y P G R V A I L Y F G C R N H P A E D I L F H D Q L A A W R G R L D I A V E Y
UniRef90_UPI000363C058 I L R A G I T R A T M T L I Y W G N R S N R A A G L Y M D Y E L L A R S W E K E T F P G F R Y
UniRef90_H6R155 L I K E P T A T F T L I Y W G N R S N R A A D T I F Y K E L L N Q K E T Y I G D R L K
UniRef90_F5RHA9 A H G Q A D F T L H Y C S R T S P S R T A F F I D R L R D A P W A D R V R L H
UniRef90_S6JVE0 A H S G A D F E L H Y C A R S D S E R A A F V I Q R L R K S D S F A E R V F L H
UniRef90_Q5P6H3 I R T G E R R P M T L Y W G A R S D R A G L Y L D D L A R S W E T L P G F R Y
UniRef90_E0IEV8 A A D Q H P Q R T V T F L H A A V N G N V H A L R D E V L E T A K R L P G K V R
UniRef90_W4NH3E3 F D L G G Q N C D V F E V H S A R T P E D I I F A D E L A A L E R S S A F R V
UniRef90_UPI00035FF349 L A A G D A R P M T L V Y G Q R T S R A E L Y Y H D E F V A L A A R H A N F R Y
UniRef90_M2ZWZ1 L S E D L V P G I D L Y H G G R G Q A D L Y D V D F F R A L E A A D S R
UniRef90_UPI00047DC19D T T T A P A H P I H L I Y G V T T D R A T A M L L A E L L E H Y A G G I D N L T F
UniRef90_G9C9M3 L L Q G A P Q V R L F Y A C R D R A T A M L L A E L L E Q A L Q A G S G Q R L E
UniRef90_Q4CMU8 L K K P E N I E S I R L I Y A A E D V S E L T Y R E L L E H H Q R D S K G K F R
UniRef90_A6LR18 A K N A G E A E S F T L A A G F K S P N D V L F K D D I K E M W K S N I N L T L T
UniRef90_B0JFC8 V E R G S A R P I S Y I H A A R S K E V D A F H D H V E L A T S N S N L V R S
UniRef90_UPI000415D612 L V I Q E K E S N I T L V Y A S R N V R H A L F H D Q I R Q W Q E Q F P E R L N
UniRef90_L1LV11 L E S G R Q I H F I H C A R N G Q V H A F R E H V L D S L A A A R H P Q L K R
UniRef90_S7U288 V A N G N G R R V R L I W S N R E Q A D V A H A A E L E S L A A E S L P G L S V
UniRef90_L7LPU1 R H D G S A R R I H L I Y G V S T D D D L V E T E T L D R S M Q S E V A G F T
UniRef90_D3V8J6 H N Q H H V I G T V N W F H H G G Y H A F A D K V N T I T Q Q S M T N L H T Q V W Y
UniRef90_V9KPJ0 L K E S C C L R K I R L I F N K K E E D L W R D Q L S S K D N R F E
UniRef90_H0JGD6 V H E G Q R Q R I T L F Y G A R S K A E R A F D A E L A E L V A A A G G S L R
UniRef90_Q09DN2 R R D R D A Y G R V T L Y F G V R T P S A F A Y A R D F Q R S W E Q A R I R V
UniRef90_C0D1V8 Y D Q P D F V K S V H L C G V F T E E G I I F K S D R E R W K E K F N T I R A
UniRef90_C1B0M1 A D T D D S R P I S V L L H A D R S A S S H A H R A E L T E L V E R L P F A V M
UniRef90_A0A024E833 L E K R G G S R P M H L Y W G A R S Q Q D L Y L A D L P A Q W A K R L P A F I
UniRef90_U6C0H5 I A G G M D N P I H L Y F G V R S Q Q D L Y D V E R L Q A L A A R H P N L K
UniRef90_F4L5R9 Y T H N I P H R K L H L I F G T R S A E G V L Y Q E E F V A L A Q K H L P N F R Y
UniRef90_UPI0003EDAA5E T Q S H G A F E M H Y C V R S Q E R C A F Y R R I Q D A P Y R D R V H L Y
UniRef90_K8NY08 S K L N R N F E L H L F A R S S D L V P F K N E L E S Q L E A
UniRef90_J7LE57 A E R G V E R R V V L H A D R S P L D H A H R E E I A E L I D R L P G A E G
UniRef90_K6X433 L E L D P E R E L H L Y H G V R Y R S D L Y D V E F W E S L A D R H P G
UniRef90_Q0AH85 F Y T E N T R F K H N L Y W G A R T R D G L Y L N D L A K K W E E N K N F S Y
UniRef90_Q31JR0 L S D T A N Q N I M Y L H A C E N T Q Q H S F A N Y L N E L S T V I Y P
UniRef90_Q46SX7 A S N G N P H P V R M V Y G V T N D I D L V E L P R I D G A A Q Q L T G F E Y
UniRef90_L8PEU2 A E H G E R R P V E V F Y G A R S N Q D L Y D I D T M L R L Q Q A H P
UniRef90_K0DMU1 S Q A G A S F E L H Y C V R D E A R A A F R Q R L D K S D L S R N W K L Y
UniRef90_A6F029 A S D K L K G R Q I D F V F G G R A T R D V C G H R E F L E E L P G F G D R L R F
UniRef90_J9Z559 F N D G C T L P I T L V Q G A R N E A E L Y Y H N Y F V E L A A K H P N F T Y
UniRef90_UPI00032B1F88 T D N A E D E T F V T L V C C F R T F E G I Y L K T F L Q E Q A R F W N V R T F
UniRef90_R4IU12 T E I Q R E R V V F L F F G A R Q Q R D L Y C L D E L K A L Q R D W L G R F E
UniRef90_K6DS03 F S A S F D H E A W F F Y G A R T E Q D L Y L V E D W L E L E R K Y P N H F I
UniRef90_J2VED9 L H S E P H S R F T L V Y G N R A S S S V I F K E E L T D L K D T Y L Q R L N
UniRef90_UPI000375E38B L Q H R Q D F G R I T L L Y G A R S A G D L L Y Q A D I E S E W K L I D G F E
UniRef90_M2VJD4 A E T G A E R N V S V L H A D R S P D H H A H R A E L S E L V E R I P S A T M
UniRef90_UPI00034B0137 L A R E P K S R F F L F Y G N R T T A G M L F R Q Q L E E L K D R F I G R L S
UniRef90_C9Z3J7 P G Q V T L V F R A R R A A D L A L R G E L D A I A A R R R A T V H
UniRef90_M5TCL4 V H A N P D A R Q V T L Q A V R N S Q A H A F A D E I R N L A E Y G S N V H T H
UniRef90_UPI000255A15B L L R G R G Q V R L V Y A N R D E Q S T I F R E A L I Q E L L E Q Y A G R F D
UniRef90_C0QP85 I K Q K D R F R G I L S L Y G S K S Y D S L L Y R Y N Y E K W S S Q I D
UniRef90_W1RRL3 A K Q G Y T Q P H Y L H A C A N Q G Q H S F K E H V N G L K G T L N
UniRef90_F9ZCV3 L Y Q E N D R R K M I L Y W G A R T R A D L Y L T E L A D S W Q Q H K N F T F
UniRef90_M5DQW7 I A S G Q K V T F I H A A I T N G R H Q A F Q E L L S E L E R Q H D N L K C
UniRef90_B2JTG4 V D L G L D R D I A F V H A S A R T P A D I I F R D E M K R L A R L S P R L R L
UniRef90_R9BTR0 S N N T N D C K S F T L I S G F K S P K D L L F R E D I K T W E K N I N V I L T
UniRef90_Q0K388 A E L G R S F T L I Y C A R S R A E A A F V E Q L A S H G D A V H
UniRef90_M3TIJ0 V S E G H T G P I T F V H Y A R S P Q D V P Y S V E L D A L A R S V P G V E
UniRef90_I4D0Z9 Y A P E L L K R C E I L T G F K T P T D V L F K S D L E K W S Q T F R V E V T
UniRef90_A0A021XEA6 L A H G M K Q P I V H V Y F G A R S E R D L Y L L D H L D A L V R H G N L T F
UniRef90_UPI0004660D82 L E S G W D E P I V L F Y G A R G L K D L Y Y R D L F E T L A A E H G N F R Y
UniRef90_S2YZB1 A A A R S D R E I W W I H G A R G P R E H P A E A R T L L A S L P H S R E H V F
UniRef90_F3KD88 I A R D P E R D V H F V H G T E N G G H S F S H R L Q Q L S R E G K V I P H
UniRef90_UPI00047D75DC S K H T D E V E S L T L I S G F K K P N D I L F S E D L A R W K E S M N V I L T
UniRef90_I4VPY2 I G L G S R R P I D V Y W G A R S A A D L Y L R P L A E R W A A S T Q N V R
UniRef90_UPI000462BFBDB L T N P S L R T K V K L M F F N K T E D D I W R N Q L E K L A F K E R F D
UniRef90_A0A024G5P8 F E S Q D H R T V M L L Y C N R T I Q D V I A F D Q L E A L T N M F P S R I S
UniRef90_B0SDU7 L A A E N P F R F H I Y S N S Y E N D V I F L D E L R N L S L L H K N F I L
UniRef90_UPI00030D4604 V E R Y P G R K V T F I Q A A T G S S T H A M K E H V A K L V E N N S Q V T S Y
UniRef90_V5TXT8 A S A Q H P A Q V N W Y H A A E S G D V H A F T D E V A Q L G A K L P F T R H
UniRef90_UPI0004249632 A D T A P Y R P V H L Y H G V R H A D E L Y D E S E L N N L S R L Y G A R
UniRef90_L2TQG1 M E I E T E S R F T L F Y G N R T A E S T M F A A E L D E L E S R Y A D R L R S
UniRef90_G8M9A1 A D F Q E I Q D A R L F F G V N E E S E L F L E D E L T L R T L L P Q L S
UniRef90_A4JUN4 S A A G E S F D L H Y C A R S L E R M A F V E Q I N T A A F R D R T R L H
UniRef90_W3XAM2 M K D P E D S T Q C L V M G N R L E E D L C R E E I D A M V L G N E H K C R
UniRef90_F9XQ54 L Q D A N D N T R I Q L L W G I N G T R D I V L K S E L E A L G R T H P D R L Q
UniRef90_UPI0003743A36 A A R G A D F Q L H Y T G R V P Q E M A F V N D L R R H F P D R C R
UniRef90_Q0AI51 T H D K T N H K I T L I Y A N R T P V I Q A A Y T D D L K W L A G E N K N F T S
UniRef90_Q9KZ38 A T A A P D R P V T V V H A D R S P A L H A H R L E L T A L V E R L P H A S
UniRef90_D6YB43 L Q S G G A S R I H L L L C A R R A A E F Y D M A E L K R M T A A H P K L R V
UniRef90_A4FD83 R R A A R S R T P F R L L Y S V R S P A D V Y Y A R E L A P T R G D D G L D V
UniRef90_S5T9M0 L E S G D T R K I L Y Q G A R N L E E L Y Y K G L F E L D T K H D N F T Y
UniRef90_UPI0001DEBD99 L E T P D P R P V S W V Q V V R S R A A H P L H K D E V R R L L G L P D R V R
UniRef90_K5W0S2 A D L H R R E R T N I K L Y S V A K N T S E L F K N D I L D L V N E F P E K I A
UniRef90_UPI0003F1889C A E Q Q S P R P V H L Y W G R T E S E L Y F A R E A A A L I G R L K N A R
UniRef90_L1NPJ1 R A A G S R V P F R L L Y S L R G P E S Q L F V S D L R T D D P G L D K
UniRef90_UPI000465C9AA L P L G R A N J A L L Y A N R D P A S I I F S A R L Q Q L V A R H P R R L T
UniRef90_K0C619 L E T E P K S R F T L L Y G N R S S N S T L F R E A L S D L K N A W L G R L N
UniRef90_M3ZFH9 A G R H F N I G S A H L C Y S A K N T Q E L F E S S I E K C G E F P N K F T
UniRef90_V9QVB7 A R I G A P F E L H Y C G R S V G R M A F I E Y L R H S A F A D G V H V H
UniRef90_I6ZGL2 L L G G A G T V Y L F Y A N R D A Q S V I F G A E I D D I M V E F P D R L R

UniRef90_UPI00036B99EA I P V L S D E P T E S N W Q G M R G F V H E A A K T H F N G K F N G Y K A Y M C
UniRef90_HOTMW2 V T V L S D H A A D S N W H G H V G V V P A L T P R H V S F S P H D T V A L V C
UniRef90_UPI000363C058 I P V S E A G A A D D W H G R S G L V H R A V I T E D L S P D L S A H E V Y A C
UniRef90_H6RI55 L H Y I F S R E N V K N N L R G R I D G N V T N Y F F V K N M Y K E T A A Y C
UniRef90_F5RHA9 F D D G D P R Q K L D V A A V L A A P S P D A R L Y V C
UniRef90_S6JVE0 F D E Q S P Q T A L D A A K V L A G P A D N V H L Y V C
UniRef90_Q5P6H3 V P V S E S G P D D S W S G R T G L V H H A V M Q S D L P D L S V H E V Y A C
UniRef90_E0IEV8 F V Y E H P T A E D R A E E R F H H E G R I D A A Y L A A E A P V D G V F Y I C
UniRef90_W4NH3E I H I C E Q G S H G S D W Q G P I G R L S L D L L K A R V P D Y R E R E V F T C
UniRef90_UPI00035FF349 V P A L S D E P A S S G W E G F R G F V H D A A K A H F D G D F R G H K A Y L C
UniRef90_M2ZWZ1 F R Y H P V L S E E Q W D G A T G M V T D V V L D D F A S C R G R S A Y L C
UniRef90_UPI00047DC19D D Y C V A D P E S S A P N K G Y V T S L I K P E H V N D G A D Y D Y L C
UniRef90_G9C9M3 I R H W Y D A E Q L P T Q A L L E A Q T Q G L E A A D A Y L C
UniRef90_Q4CMU8 S I F V L N R P P P I W T D G V G F I D K K L L S S S V Q P P A K D L L V A I C
UniRef90_A6LR18 V D N A E E G Y N G N V G M V T K Y I P D L L I K N L N N A A V I V V C
UniRef90_B0JFC8 W V F V K N L P A D N Y G H P V K D L A G R M D D A A L H L D D S T T V Y F I C
UniRef90_UPI000415D612 V V H I H S Q P L D D W N G L R G R I N N T R L E Q L V N K S P R N A R F L I C
UniRef90_L1LV11 F Y C Y D V D D G V S L P G D A L G P L S Q D Q L D R W L P A E R D L D A Y F L C
UniRef90_S7U288 R H V L T R G P D G G E R L D A E G L A G M I A A V P S A R V F L C
UniRef90_L7LPU1 W D H C V S D P G S S A A N K G Y V T S L I A P R H L Y G G D V A T Y L C
UniRef90_D3V8J6 R E P R N E D Q Q G A D Y Q H M G R L M D L S V V K D S L T E E G M Q F V C
UniRef90_V9KPJ0 V D Y I L S D P H P E W T K M R G R I E M S H C S E L R S K C T E E T D L V C
UniRef90_H0JGD6 L V R A L S D T H E A V A D T D Y R I D L G V L G R F L P F G D H A F Y L C
UniRef90_Q09DN2 V A T V S P G A S G W G L T G Y V Q A H L A E A L A P G T A A F L C
UniRef90_C0D1V8 L D R D R Q K E G W S T G F V T E F V D K I P F D S F D G N Y A V V I V C
UniRef90_C1B0M1 H R W Y E D L G A R R P E G G L R E G R A D L G E V T I A P G T R A Y L C
UniRef90_A0A024E833 F T P V L S E P E P G W S G R T G W V H R T V L J E D Y P D L S A H Q V Y A C
UniRef90_U6C0H5 V N L V I A T G P I E P G Q R S G L V T D V I K Q D F G S L S A G W R A Y L C
UniRef90_F4L5R9 S V A L S R E Q N L D P A Q F P F E V Q H S F Y L N E Y A T P R S D V K F Y L C
UniRef90_UPI0003EDAA5E F N D R P E T P R F D I K A L L T R A D P H A H L Y L C
UniRef90_K8NY08 T L H L G L V P P K L N E T I A N L L S N R D A N T Q V Y I C
UniRef90_J7LE57 H T W Y E R D H G D A G V D G I E V R P G T L D L D P I E I P E T A E V Y M C
UniRef90_K6X433 V H Y T P C L S R E E G F G R H G Y V G D V L V E D F D S L R G F S A Y L C
UniRef90_Q0AH85 I P V S E P L L T D N W Q G K N G L V H Q A V M E D M D T L S D C Q V Y A C
UniRef90_Q3JR0 R L Q T M T W F N Q G D A G A D F T G F M D L H A V I Q A Q L P L S N G D F Y L C
UniRef90_Q46SX7 R T C V A S A E S G H D R K G Y V T Q H V E P E W L N G G D V D I A Y L C
UniRef90_L8PEU2 P E I W L E V R P V V D R H G L L Q L P D A I R E F G P W N E Y D A Y V S C
UniRef90_K0DMU1 T D T G P S A S R I S F D E V F G S P A D D K H V Y V C
UniRef90_A6F029 H I S N P G P E D A D W D G H T G F V H D V A H E I F G D S T R G K E I Y F A C
UniRef90_J9Z59 I P A L S D A D I G E W T G A K G F V H E A L K A H F N N D F R G H K A Y M C
UniRef90_UPI00032B1F88 F V L S Q E N W S Y R D K T R F G R L G R E L V E E L L G D C R K K P F A L V C
UniRef90_R4IU12 L I P V I E E P A T S S W K G R G M V T E H F Q E F L Q G G P C E S G Y L C
UniRef90_K6DS03 P A L S N L S D D S N W S G E R G M I A D V I K K M E S C S G M D A Y L C
UniRef90_J2VED9 V V Y V M S R E Q Q D V E L F N G R I T R E K C D Q F F A D L D D I D A A F L C
UniRef90_UPI000375E38B S F I T I D R P E P G W G Q V G Y V P N L I E K A K V P V I E D T V A F V C
UniRef90_M2VJD4 H R W Y E D L A D L T E Q D T L H L G R T D L S K I E L A D G T R V Y L C
UniRef90_UPI00034B0137 V F H V L S Q E E Q D L P L N G R L D R D I L L R A M V P A R A I D H V F I L C
UniRef90_C9Z3J7 Y V V D E P A G Y S S P L T A G A L S A L V P D L R A H D V Y L C
UniRef90_M5TCL4 V H Y D S P L E G D V E A G K C D L V N T Q L L R D W T P F A D A D F Y L C
UniRef90_UPI000255A15B V I H L L D S V I Q G R P T V I S L L K R L A R G M K Q A Q A F I C
UniRef90_C0QP85 F K I T I D H P D K R W K G D V G L I T E L I K K S D I D K D A V F M C
UniRef90_W1RRL3 L S V H T W Y E Q A D N A E D G V I E G N M A L D P I K D P L T N G E F V Y L C
UniRef90_F9ZCV3 V P V S E P L P I D G W G R T G L V H E A V M Q D F K N L I E K Y Q I Y A C
UniRef90_M5DQW7 V T I Y E Q P D E I D T P D A T G Y I D F S I L G Q H L P A D R N A E V F C
UniRef90_B2JTG4 F F L C E G V G D T G E T G E T G R L S L P L L A R W I P D F A E R E V Y T C
UniRef90_R9BTR0 V D G A Q E G Y Q G K V G L V T K Y V P E L D I K D I L N A M L A G Q E V Q T H F Y C
UniRef90_Q0K388 F H F D D E A G V P P D L N A M L A G Q E V Q T H F Y C
UniRef90_M3TIJ0 V R L H Y T R T A S P E H F A A D H I N D V A E R D G A Q V Y M C
UniRef90_I4D0Z9 V D F G N L I E V I A D S C T R R T G L I T S L I P D V Q I P S L E D V R V I V C
UniRef90_A0A021XEA6 T A V L S E A H S A R Y R H G F V T R A V A E D F S N L D G W K T Y V A C
UniRef90_UPI0004660D82 V P A L S E P D P G D G Y Q G T F T H E A L Q R A F P D G F A D T T A Y L C
UniRef90_S2YZB1 Y S A A T A E E R D R H G A S A G R L T K D E L T A L K V P A D A T A Y I C
UniRef90_F3KD88 I F Y A N A S E A D R A E Q R F Q Y E G Q T D L T A I E A E P N D E A E F Y L C
UniRef90_UPI00047D75DC V D Y A D G D T E C Q V G L V T E Y I P K L K L N N K N N T T A I V V C
UniRef90_I4VPY2 F H A V I S G A D V A G E R P G L V H E A V L A D H P D L S G H D L Y M S C
UniRef90_UPI00046B2FBD V E F V L S A P T S E W N G K L G H I S P A L L S E F L Q R S V G D K S R V L C
UniRef90_A0A024G5P8 V R H I T K C Q T E S W A R H R G R L D D S I M H E F I G Q F V G K E A F F I C
UniRef90_BOSDU7 T E F I S R E V I S P E F K G F K G R L D I V T L Q T F L L S D V S S K M F Y V C
UniRef90_UPI00030D4604 T C Y S A P S A E D L K R N F D F V D L P W L K S I L P S N K A D F Y E C
UniRef90_V5XTT8 V W Y R V P T D A D R S A G R Y D S E G L M A L R D R E A H T T P G M Q F Y V C
UniRef90_UPI0004249632 Y T P V L S R P D A A W T G A T G Y V Q Q L E R D Y P D L T G C E A Y A C
UniRef90_L2TQG1 I F H I R S G E A R H P A S G F R V R I D L A M V Q R L L A S D L P I D R W Y L C
UniRef90_G8M9A1 V E L C V W R P G D A W Q G R G T P V D A L R A A L A S A N A Q P D I Y V C
UniRef90_A4JJN4 V D D G D A A Q R F D L P A A L D A S A P A G T H L Y V C
UniRef90_W3XAM2 L L Y S L S K P G P D W T G L K G R M S K E L F E A E A G S P Q G E Q L V L C
UniRef90_F9XQ54 V T Y A V S G A D N E K Y K K G Y I N K S M L Q E A F A G D A K I K V W L C
UniRef90_UPI0003743A36 F Y F T Q A P T P N R L D V P A L L N G T S A D T V I Y V C
UniRef90_Q0AI51 V P V Y T S T Q G H V N A E L K Q H V P D I T A S R Y Y L S C
UniRef90_Q9KZ38 L H L W Y E D T A D H P D A S A D H V N E G W A D L T G L S P V P G T T A F L C
UniRef90_D6YB43 V P V V S D D P S F P G M R A T P P E A V E R L G P W E E H E V Y L C
UniRef90_A4FD83 T Y V Y T R S A P G G W S G K P G R I G I A D L N R G G W P P E F E P S C F V C
UniRef90_S5T9M0 V P L S G P G I E P E W D G P T G F I H E V A R E H M G K F E P S R A Y M C
UniRef90_UPI0001DEBD99 L W Y M V E R T P E A L D Y S X G F M N X E M I W D H L P P P G V E P L L L C
UniRef90_K5W0S2 R A V F Y S A P A G S D L Q G Q D Y D F A G R L E D T L R L D D P A A H Y Y V C
UniRef90_UPI0003F1889C C S L H V T K Q T T Q I T A E E G R I M E N E I R D H I S K D T V F Y L C
UniRef90_L1NPJ1 F T P V L S R A P E N R Q G A R G Y V W Q Q A L A D Y P D L S G H Q V Y A C
UniRef90_UPI000465C9AA T F L Y S R S A P E R W P R P P G R I T A N D L T A A G W P P D F R E P T C Y L C
UniRef90_W7ZUP1 V H H W L E S D R G L P T P H A I A G W A R P Y R H D V Y L C
UniRef90_K0C619 I T Y L F S R E Q Q D V D L Y N G R L D A D K C D A I F S R W L D T H A A F L C
UniRef90_M3ZFH9 C N F H V T Q Q R A G V E P H L Q R I T A E E L Q A N L S A P Q R T L C Y L C
UniRef90_V9QVB7 V D D G E A S Q R L D S A G V L S A P T R D R H L Y V C
UniRef90_I6ZGL2 V V H W L E A E R G L P T R D A M S E L F A A Y T R Y S T Y L C

UniRef90_UPI00036B99EA G P P P M I D A C I I T T L M Q G R L F E R D M F
UniRef90_HOTMW2 G P E I M M R F T A N A L R D A G V A S N Q I Y
UniRef90_UPI000363C058 G S P A M I D A A R S E F T A Q N C S L P P
UniRef90_H6R155 G P E E M I K D V I S K T L E K N N I A K E N I H
UniRef90_F5RHA9 G P S G F M A H V I D S A R A A G W A D A N I H S
UniRef90_S6JVE0 G P G G F M Q H V L D S A R A Q G W R E E C L H
UniRef90_Q5P6H3 G A P A M I D A A R R D L V A E R H L R E E A F F S
UniRef90_E0IEV8 G P V A F M R S I V E S L R A Q G V A D E R I
UniRef90_W4NHE3 G P A G Y M D A V R K L L L E G A H D P A R Y H Q
UniRef90_UPI00035FF349 G P P M M I D A C I I T T L M Q G R L F E N D I Y T
UniRef90_M2ZWZ1 G P P A M V T A A V K A L K R R R M A P R S I F K
UniRef90_UPI00047DC19D G P P P M V E A V K G Y L K S E G I E P A N F Y S
UniRef90_G9C9M3 G P E A F M H S V L A A L A A A G I E P S R V Y
UniRef90_Q4CMU8 G P P I M Q R V V K T C I L K S L G Y D M Q
UniRef90_A6LR18 G P P L M M K F T V A E F L K R G I D E N N I W
UniRef90_B0JFC8 G P G G F M D D M S K V L Q T F G V S E D R I
UniRef90_UPI000415D612 G P Y E L M R S V E I T L H F M G F S S L Q I
UniRef90_L1LV11 G P K G F M A A V K R H L K A L R V P E G Q R H E F
UniRef90_S7U288 G P P G F M R M A R A A L D K R G F A H E R V H
UniRef90_L7LPU1 G P P M V E S V R R H F V E A G I E
UniRef90_D3V8J6 G P V V F M Q Y I A Q Q L L A I G I D K Q H I H A F
UniRef90_V9KPJ0 G P A S F T E L A F G F F K Q I G F S D E E I H A F
UniRef90_H0JGD6 G P A A F T Q A L Y D G L R G Y G I E D A R I H A
UniRef90_Q09DN2 G P Q K D M A Q K V I E T L L A R G L S A A D I H Q
UniRef90_C0D1V8 G P P P M M K F T G L K A V E C G V P E E K I W V
UniRef90_C1B0M1 G P L P F M L G I T R E A L L A K D V P A E N I H
UniRef90_A0A024E833 G N P I M T A A A L N D L T A E G Q L S P D A F Y
UniRef90_U6C0H5 G A P A M V T A A L N L L A T S L G M E P G O V H A
UniRef90_F4L5R9 G W Q N M V D E A V L N L Y D K L G Y D K R Q I T
UniRef90_UPI0003EDAA5E G P A G F L D H V L D S A R E A G F A E A Q L H
UniRef90_K8NY08 G P G F F M E L S R Q S A E D A G W E D S R I H
UniRef90_J7LE57 G P L P F M R E V R A G L L R G G L P A R R V H
UniRef90_K6X433 G P P A M V D A G V K A C K R R R M P G R S L H
UniRef90_Q0AH85 G A P A M V K A A F D N F T S Q R N L Q E E N F F S
UniRef90_Q31JR0 G P A N F M A F V K K Q L L E L G V N N G H I H
UniRef90_Q46SX7 G P V A M V D A V R N W L K E S G V E P A G F Y
UniRef90_L8PEU2 G P P G M I R S G V D A L R D I G I P S D R I
UniRef90_K0DMU1 G P G G F L E A A L N S A T Q L G W R D A N Q H
UniRef90_A6F029 G P P P M A Q A V Q K L L F D L K V P P E Q T H
UniRef90_J9ZX59 G P P M I E A C I S T L M Q G Q L F E R D L Y T
UniRef90_UPI00032B1F88 G S A D F T T D M A R C L E D A G L T Q D S Y F L F
UniRef90_R4IU12 G P P P M V D A A E S E L L R L G V A R E C I Y A
UniRef90_K6DS03 G P P I M C E T V T D A L Y G K G L R G N H I Y
UniRef90_J2VED9 G P E D M L Q A A S Q S L Q A H G L D K A S I
UniRef90_UPI000375E38B G P P V M F N A V I T A Q L L K R G M S E D D I S
UniRef90_M2VJD4 G P L P F M H S I R D T L I D R Q V P A D S I
UniRef90_UPI00034B0137 G P T A M S E E I A A T C G E L G I A D E R I H V
UniRef90_C9Z3J7 G P P G M A R A A I E A L R A A G V P A R R I H
UniRef90_M5TCL4 G P K P F M K N I H A C L Q E L G V D E H R V
UniRef90_UPI000255A15B G P G P Y M D A A E T A L R E L K L P D N H I H V
UniRef90_C0QP85 G P D P M V K F S V I E L C K K G V S T E N I F V
UniRef90_W1RRL3 G P V G F M M F V K Q Q L L T L G V G A D R L H
UniRef90_F9ZCV3 G V P A M I K A A Y H D F T L Y C N L P K N A F F S
UniRef90_M5DQW7 G P T P F M A C V K Q I C S E L Q V P P S L L H
UniRef90_B2JTG4 G A P A G Y M S A V R A L L R E G G H D P A R Y H Q
UniRef90_R9BTR0 G P P M M M K F T V L E F L K L G I K E E N I W
UniRef90_Q0K388 G P G P M L K A F E A A C E A H G Y P N V H I E R F
UniRef90_M3TIJ0 G P A A L M S A V R E Y A D T V G I S D R I H S
UniRef90_I4D0Z9 G P P V M M K F T A Q E F L C R G L A K E N L W V
UniRef90_A0A021XEA6 G P P P M V D A A M A V A F A R G L R R E D M H A
UniRef90_UPI0004660D82 G P P M I E A T I R T L M R
UniRef90_S2YZB1 G P T A F M T D M T D A L V A A G I D P A R V H T
UniRef90_F3KD88 G P L A M M K A M Y L Q L K M L K V P D T N I F
UniRef90_UPI00047D75DC G P P A M M K F S V Q G L L N I G I P E E N I W V
UniRef90_I4VPY2 G P P P M I D A G H R L F M E A G L P E E R L Y
UniRef90_UPI000462BFB0 G P A P F T E Q G L R F L H D L N F S E D E I H D F
UniRef90_A0A024G5P8 G P P A F D A D V E K M L K S L T V S D S C I Y R F
UniRef90_B0SDU7 G P T P F N E H C A N L L A D L G V K S G R I
UniRef90_UPI00030D4604 G P I P F M K A V Y R A L K E W E V P Q E Q I H
UniRef90_V5XT8 G P V K F M Q F A A E Q L V S M G V N K E N I H
UniRef90_UPI0004249632 G S P A M I A A A R S V C L A R G L D D A A F Y S
UniRef90_L2TQG1 G P S D L A T T M R D D L A S E G V P T D R I H
UniRef90_G8M9A1 G P P A L I R A A E Q L A A A S N L P A E Q F
UniRef90_A4JJN4 G P R G F M D A V L D A A R A R G W P D A R L H
UniRef90_W3XAM2 G P E A L E K S V H S T F T A M G W R D E D L L F F
UniRef90_F9XQ54 G P P T M E S A L T G K A L A E L G V I G K E L H K F
UniRef90_UPI0003743A36 G P A R L T I Q S V R Q T A G R L G I A D E R V
UniRef90_Q0AI51 G P E G M V K A M R A L L I E I L G A D E D N I
UniRef90_Q9KZ38 G P L S F M K A V R T D L L A H G L S P R A I H
UniRef90_D6YB43 G P A A T V A E T V R R L R R A G V P R E R I H
UniRef90_A4FD83 G P T G F V E T A A N I L V A L G H A P K R L
UniRef90_S5T9M0 G P L M I D A C I I T M L M R A R L F E K D M F
UniRef90_UPI0001DEBD99 G P P M S Q Y P C L S N M D P M G H S K E C C F T F
UniRef90_K5W0S2 G P P P F M A D V I R S L K A R G V N T D K I H A
UniRef90_UPI0003F1889C G P P M T D F F S K Q L E N S H V P K E H I
UniRef90_L1NPJ1 G S P A M I A D A Q R V L C E K G R L K R E A F F S
UniRef90_UPI000465C9AA G S T G F V E T A A G L L V A L G H D P G R I
UniRef90_W7ZUP1 G A P A G F A A T V K Q G L S Q L R I P D R A I H Q
UniRef90_K0C619 G P Q S M T E T V R D R L V A N G L E K S R V H
UniRef90_M3ZFH9 G P P P M I E A I S K T L M D G L P K D R I
UniRef90_V9QVB7 G P N G F M E H V L G T A R A Q G W A E T Q L H
UniRef90_I6ZGL2 G P A P F M D E A R A A L S A V G M P A N H I H

1 10 20 30 40
UniRef90_O05617 L L S E P R N L F P L E E G V E R S L L L F A G G I G I T P L L C M A Q E L
UniRef90_C8XA23 P F G Q M V L D P A S R R P L L L V G G S T G L T P L K A V I D Q L
UniRef90_I7DLM0 A M A P M G S F F T P L L N S A K H Y L G F A G G S G L T P V L L S L K K T T
UniRef90_A0A059MLX0 L D D S S D P L L L I S A G I G C T P I I G M L K Y L
UniRef90_V5HMF5 G D F H L N L V D Q Q P L L M L S A G S G V T P V Y S M L Q A R
UniRef90_I2JM98 P Q G S F S V A L D P A K N Y L F I A S G S G I T P V L L S N I K S V
UniRef90_F5YMW5 F M R G P Y G N G F A V D Y A G R E L V V I A S G G T G V S P V R G V I T H F
UniRef90_UPI000371F242 G P Y G N Y W P F K E Y D R I L L A L A G G I G L P P M I G M L N H L
UniRef90_UOFBY9 P F G D L T M P D D N S P L L L A S A G I G C T P M I G M L N H L
UniRef90_UPI0003023736 G P L G G Y F W R S G G A Q P V Q L I A G G S G I V P L V A I A R A A
UniRef90_N9RFE4 L S E P K N L F P L A A D G E K H I L I A G G T G I T P F V P Q M D E L
UniRef90_R0ELG8 P R N N F N L V P T T G R S I L L V A G G V G V T P L L S M A E E L
UniRef90_A0A059IUM5 P A G E F F L D P A G K R E V V L L S G G V G V T P M L S M L E S F
UniRef90_S3DDI3 G P K G A M R Y R K G M V K E I G M V A G G T G I T P M Y Q L I R A I
UniRef90_C5EVG4 F M R G P Y G N G F V D D D K D S E L V I A G G T G V S P V R G V V E Y F
UniRef90_F9RFF4 L A L P P S G E F N T I D H P K K A L L L S A G C G I T P V Y A M A K Q W
UniRef90_B2AZ63 G K F L Y L S P G S V N S K Q R N V T K L V M I C A G S G I T P I F Q V L R A I
UniRef90_UPI00042B46FE G P K G R F R Y Q P G Q V R A F G M I A G G S G I T P M
UniRef90_J2HJ19 L S E P R N H F Q L E H S A Q R T L L F A G G I G V T P L L C M A E R L
UniRef90_I7DWX5 P A G D F V L K D R P E G E V V L L S A G V G L T P M V A M L E T L
UniRef90_N9VE28 S A G S G V T P M L S M A R F
UniRef90_UPI00047CBA25 R P S G Q F Y L T D S N R P A V L I S G G V G V T P M M A M L E Q R
UniRef90_U1MXZ2 L R R R T D R P A V F I G T G T G I T P L T G L L Q A Y
UniRef90_W9GM82 G P Y G A F T T E S R T R A K V L L L A A G I G I T P V R A L L E E L
UniRef90_UPI0003B5F034 G T F A L P E T R P S R V L L I S G S G I T P V M A M L R T L
UniRef90_UPI000374A41B P F G D L V L S E G D A P L L L A S A G I G N T P M L A M L D H L
UniRef90_V6SC72 G K F T F E P K A D A K N Y A A F A A G S G I T P I M S I L K S V
UniRef90_J1R1U8 G V H V L P S G T F E P H R L D Q G H F R L F A A G S G I T P V M S I L K S V
UniRef90_M4VEW6 P M G N A T L A P G C V K P I I A I A G G M G L S P M K A I V E S A
UniRef90_F4F6H6 L H L G P P T D T G L S L G D G R D L L V A G G T G L A P L R A L V E Q V L
UniRef90_U7DRR7 P R N G P L V Q T G K H P I L L V A G G I G I T P I L C M A Q E L
UniRef90_A4AP32 P E G R F F K R A D E P K N I A A F A A G S G I T P I M S I L K S V
UniRef90_D5NWS7 F E G P M G S F F L R E P L Q P V L L L A G G T G L A P V M S I L M E S L
UniRef90_A4XDP3 P F G E V N A V G D E G P L L L V S A G I G L T P A M S A L H H
UniRef90_S2K633 P M G S F T L D S D S D R P L V L I G A G V G M T P L V S M L R E Q
UniRef90_H5UUD9 L D D D D A P L V L V S A G V G I T P M A A L D D D L
UniRef90_A3VW14 N L F P L D L R A R K H V F F A G G I G I T P F M A M I A Q L
UniRef90_UPI00034F5AA7 G P Y G K Y E L V P N R F D R I I M I A Q G T G L A P F I S I Q Q I
UniRef90_A4ATH2 G P Y G E F F I N E S E M L Y V S G G A G M A P M R S H L Y H L
UniRef90_C7N7B5 G P Y G N W W P V I N E S E M L F V S G G I G L P P V R S F L L Y C
UniRef90_J9VG18 S H F P I T Q P R S V L L V A G G G G I T P I Y S L A R E Y
UniRef90_W5TPU6 G L F R M P A Q R P E K V V L I A G S G S G I T P V L S M L S T L
UniRef90_A0A011PQD1 F E G P M G D F T L R E S A R P I V F V A G A T G F A P V K S M V E D A
UniRef90_UPI00047A660C P P A G D F F L R P Q T R S P K V L I S A G S G I T P V I A I A R T V
UniRef90_U1KRK6 P M G T F T H D P F H G D D L V F L A G G S G V A P M M S M L H T L
UniRef90_A8M4N7 N L F S L H S Q A Q H H V F I A G G T G I T P F M S H M R Y M
UniRef90_S3P3C3 P C G L F T L E H K K D K P T V F I A G I G I T P L L S M F Y D S
UniRef90_B1QVZ5 V G P F G S S Y L R E K H C G P L L G I A G G S G L A P V K A V V E A A
UniRef90_F0L207 A E G P F G T F T A Q R R T R R A L L I A G G S G I A P I R A L L E D M
UniRef90_I0HG22 L A V A P P E N Y F P L A R D A Q R Y L L A G G I G I T P I L G M V H E L
UniRef90_UPI00036A07EC I G V P V N H F A L D E T A P R S L L A G G I G I T P I L G M A E R L
UniRef90_UPI00036D60B1 G P Y G T F I G D P G T D A P V L C L A A G T G L A P I M G L A D A A
UniRef90_UPI00035D3F8E F V E G P Y G T S F T L E E G P S P H L F L I G A G S G I A P L R S M V R T L
UniRef90_T0Z7V8
UniRef90_A3GF86 V S A P R N H F P L K P Q A K S V L I A G G I G I T P M L C M A E T L
UniRef90_E3HNT5 Y A E G P Y G A F T L A Q R S R S G V L L I S A G G I G V T P M L S M L I R A L
UniRef90_I0HCM5 P Y G D F F L D A D A A T P I V L I S G G V G L T P M L S M L R S L
UniRef90_V9LTT5 G P Y G T A W D L P S A E G D V I V A A G G I G L A P L R P V I R E L
UniRef90_D2B6Q5 K V S V R V G G K F V Y Q E T N K K H L V L I A G G I G I N P L F S L Q H R
UniRef90_F6QZF6 P Q G N F V L P D P A P A K V L F I T G G S G I T P V M S M L R T L
UniRef90_G8RJZ8 P R S A F A P V L N A R H H L L V A G G T G V T P I L S H V R A A
UniRef90_W8HGN1 P F G D L T L P E G D D P L L L A S A G I G C T P V L G L V N H L
UniRef90_L7LLG7 G P F G N G W P V I N K K G K N L L I V A G G I G L A P L K P V V E Y V I
UniRef90_L0HJC3 A E G P F G H F T A E H A T R G R T L L V G G S G I G P V R A L A E D L
UniRef90_F8AWZ7 L G P F G E M T L P A R V D R W L F V A A G S G I T P L M A M T R Q L
UniRef90_A0A021W4L3 G P F G T W G L A E A A R D L V M V A G G V G L C P L R P A I L G A
UniRef90_D5PDC1 G P Y G R G W P V I E A E G T D L V I V T G G L G C A S V S I L I E Y V
UniRef90_E6QS74 P M G R L G V D R E S G R D V L M V A G G T G V A P M R A I L D H L
UniRef90_W5WN66 P L G T F H L R A G D S H M V C I A G G S G L A P L V S I L H H
UniRef90_Q143R0 V L S P S G K F V P R S L H Q D M L L V G A G S G A T P L L S I A K S V
UniRef90_H0QXF4 A E G P Y G A L T A D R A A G R H S L L I A A G G V T P L R A L F E T L
UniRef90_H2JLM9 G P Y G L A Y L R E D N P R D I V C I A G G S G L A P M V S I T R A A
UniRef90_G7UPA9 G P Q G T F F V R D N S R P L I F L A G G T G F A P V K A M V E E L
UniRef90_C4S7L6 G P Y G T G W D L R A A A G H V L V I A G G I G L A P L R P V V H E V
UniRef90_V6KYD6 P G G D F Y L A V S P T T P V T L I S A G V G L T P M L S M L H T L
UniRef90_V6MJ42 G S F V F F Y D I F G N R D I M L F S A G S G V T P M M S I A K T A
UniRef90_I9E3X2 Y G P R G K F L L R D N D R T P V F I A G G T G L A P V L A M L R D L
UniRef90_G8RLG1 G P G R W F W K S A D P A P V Q L I A G G S G V V P L M S M I R E
UniRef90_UPI00037FFBC8 G E F V W D S L K E K Q E Q T E H V I F I A G G V G I N P L L S M L E S I
UniRef90_UPI000332EE21 G G F F V L P K T T T G K V F F L A A G S G I T P C Y A I K T L
UniRef90_A0A015JZN1 D P A G D F V L P E V R P R R I L F V S G S G I T P V M S M L R T L
UniRef90_W0F1V2 P H G K A C L A V I P K K V L L I A A G T G F A Q M K S L I E Y L
UniRef90_Z5XA99 T I S K P R N H P L S E D A K K V I M I A G G I G V T P L K A M A H E L
UniRef90_M1F9N6 V I S R P K N N F P L D E N A D L S V L I A G G I G V T P V L C M I R R L
UniRef90_B1FTA3 T L E I L S A P R N H F P L A E Q A Q H S I L L A G G I G V T P I L C M A E L
UniRef90_A3VLQ0 P L G A F Y L R H V S R P L V L V A G G T G L S A L L G M L D E L
UniRef90_R7X330 R P L G H F L F R D H H R P A L F F A G G T G L A P L L A M L E E L
UniRef90_UPI0003492652 G D F F Y D P M G N Y Y P L E K K G K N V V I J G G F A F T N P L R A L Q H V
UniRef90_V4KUI8 P M G N Y Y P L E K K G K N V V I J G G F A F T N P L R A L Q H V
UniRef90_R7V9E1 L F E G P Y G R L T A T V R K G R K L A L F A S G I G I T P L R A L L E E L
UniRef90_H5Y468
UniRef90_UPI0003745EA5

UniRef90_O05617 A A R E Q D 50 F E L H Y C A R S T 60 D R A A F V E W L K V C D F A D H V R F H 80
UniRef90_C8XA23 A R D G G R P T F H L Y F G A N K S V D R E T Y D R K E L L D L L A E R Y P W L T V
UniRef90_I7DLM0 L A A E D P N A S F T L V H Y A N K A G V N T L M F R R E E L E D L K N L Y M G R F N
UniRef90_A0A059MLX0 A R T E T D R Y A S T V L L V H A D R A G P S R H A H R R E E L V E L V D R L P G A K L
UniRef90_V5HMF5 L A A D A D A D I V T V F I H S A S T P S D R I Y V Q E L E A L A E K H S N K L K L
UniRef90_I2JM98 L E V E P E S R K T T L L Y G N Q T R T N T M M F R K T A L E S F L K N R F M T R F H
UniRef90_F5YMW5 A S Q N S D A K K L T V I A G F K T P E D I L F R K D F E A W K K R A A V I L T
UniRef90_UPI000371F242 I H E L E G K K D L W V I Y G A R T P S D L V Y K Y E F D Q W R N K R A N I L T
UniRef90_UOFBY9 V D T G S E R S S V S V I H A D R A P A D H A H R A E I S T L V D K I P A A T L
UniRef90_UPI0003023736 T D A G A A A S V R L L Y S V R A P E N A L Y R D E I Q R L A N D G G V A A
UniRef90_N9RFE4 A A R G A D Y E L H Y A Y R S P E Y A A L L E E L K Q K H G E H
UniRef90_R0ELG8 H A Q S K A F E L H F S A R S P A R A A F R Q R L L A E R S F A K A D V R F
UniRef90_A0A059IUM5 G G G D L R I V H V H H A A R D G D H H H A E R S P R A K A Q E S F H
UniRef90_S3DDI3 C E D P T D N T H V T L L Y G N K S E S D I L L R S K L D E F A Q N Y P D N F N
UniRef90_C5EVG4 S H H P G E R K G M T L I A G F K S P Q G D I L F Q A D E F K E W D K T M D L L T
UniRef90_F9RFF4 L A N G A D V D Q M T L H V A K S A Q Q T I Y F D A L E S M A A T E E Q L L T S
UniRef90_B2AZ63 L S S P P D P T K C L V L D G N R V E E D L L C R D E L D A M A R G N K E R M E
UniRef90_UPI00042B46FE F Q E E L D S L V A R Y P G R F K
UniRef90_J2HJ19 S A L G A D F E M H Y C A R S R A R C A F H D R I R A S T F A E K V H F H
UniRef90_I7DWX5 A A N D R S A T Y L H A A V D G D N L A M E G L S K S L A K R S V I F L
UniRef90_N9VE28 L A D R D E L G E V H F L H Q C R S E S V D I P A R D E L L A L R Q A G M Q
UniRef90_UPI00047CBA25 A A A G L S V A Q L W F L H A S R D S S E V D I P A R D E L L A L R Q A G M Q
UniRef90_U1MXZ2 I A K D G P Q A V F M F G E K N R D Q L L Y K S L L E Q Y E L T N P V E T R
UniRef90_W9GM82 V R Q R D H V R P D I T V I Y R A D H E S Q L T F R S E I E H L V S R H G H R L H
UniRef90_UPI0003B5F034 C D E G H A G Q I T F L H Y S N A A K D Q L Y A A E L A E I A A K H P N
UniRef90_UPI000374A41B A S T G S G R L V I A V H A D R S P A E H A H R A E Q L G L V Q A L P N A R Y
UniRef90_V6SC72 L E N E S P K S T F V L T Y G N R D P E Q T I F Y D Q L H D L Q L K Y V G R L L F
UniRef90_J1R1U8 L E S T G T V A L Y Y A N R D G G S I F A A E L I G L T E R Y P D R L T
UniRef90_M4VEW6 L N T G H P G P V T L Y W G V N H G D D L Y L A N H F R T L Q A T H P T F R F
UniRef90_F4F6H6 A A D P D G R R V T L V Y G A R S V E A L Y D A T L D K L R H D W L T I
UniRef90_U7DRR7 D Q Q S P Y E I H Y F A R A F E Y V P F Q D R L T A L G D R L N V H L T
UniRef90_A4AP32 L T S N T S N K F V L V Y G N K S N A E T M F Y K E L V K L Q L E Y A N R F F
UniRef90_D5NWS7 A N D E L L D V P V R L I Y G A N T S E D L V R L E E L A A Y K D R I E D F D F
UniRef90_A4XDP3 L A T T E T G R E V V L Y H A D R S A A D H A R R H E L P D L A E Q L P N L S V
UniRef90_S2K633 L A R R Q G R R I Y L F Q G A R N L A E L P F Q R E V A E L R Q Q A G T L L S
UniRef90_H5UUD9 A E R P S R R V I L A H A D R S A A S H A L Y E T T A T A A G L A D
UniRef90_A3VW14 E O S N G N W E L H Y A C R N A D L G S Y A D Q L R G K Y S N K A H
UniRef90_UPI00034F5AA7 L E N E D D M T K I L I Y C T K N I E T I L R E E L Y S Y K Q Y W N F S Y K
UniRef90_A4ATH2 F K T L R T N R K I V T Y W Y G G R S K R E L E Y L D H F Y Q L E K E F N S F F Y
UniRef90_C7N7B5 L E H R E D Y G R I D L V Y S G S T Y D D L V F K D Q L F D V W K E P E S D M H
UniRef90_J9VG18 L A H A G D Q K Q V E L L W G V N G M N D I V L K D E L E E L E Q K Y P E R L K
UniRef90_W5TPU6 V A E G Y P G E V V F L H Y A R S P E E V P H R E L L A D I G R R F P N V D F
UniRef90_A0A011PQD1 F R R G L Q R Q I Y L Y W G V R S R K E D L Y L P D L P E Q W A R E H E N F H V
UniRef90_UPI00047A660C L A A N A N V R F D L V Y A N R A A M D V M F L E E L A D L K D R Y P A R F A
UniRef90_U1KRK6 A E Q A F N Q P L C F L H A C R N P A Q Q S F R A E L T S A A Q S L S M L T I
UniRef90_A8M4N7 V E L G L P R R M T L L Y G R N S D D I F Q A E L E A L E R Q H P N I V
UniRef90_S3P3C3 L H A R D S F E L H Y A C R D G I S N A Y E E D L R
UniRef90_B1QVZ5 A D K L N N I T F I Q A V Q N S K M Q P F K N D I K A L C E M S K N K G Y V F F
UniRef90_F0L207 L A T T G R Q R P I H V Y F G A R A E R D L Y M V D R F E E L A V S H G N L S F
UniRef90_I0HG22 P P D T I V I Y R A S R P D E L V F R A E L E E L A E Q R D A W V R
UniRef90_UPI00036A07EC R M R G A D F E L Y C A R S P E S T A F L D E L V A P D L A G R V R I H
UniRef90_UPI00036D60B1 A r r H A D F E L H Y C A R S Q S R A A F V Q R L V R A P F A G R A R F H
UniRef90_UPI00035D3F8E L R R G Y N K P V H L M F S A R K E E D L Y C K G Q L E L W N V R H R R
UniRef90_T0Z7V8 L G T A S P P R I K V V Y G F R K G E D F I F E R E F V G Y A K S V P G F S
UniRef90_A3GF86 R N P A D K T K I S L I Y A N V T E S D L L K S E L D K W A E S V P D N F S
UniRef90_E3HNT5 H A A G T A F S L H Y C A R D Q G R A A F L D R I A Q S P F S E N V V F H
UniRef90_I0HCM5 L E D P A L G S D V V Y L Y R S T A D A V L L G E L R N L A R V R G A R L H
UniRef90_V9LTT5 A D A K A T N P I Y W V H A A H N S R V R A F A K E V R K T Q A V A L P Q L K I
UniRef90_D2B6Q5 A A H G S R Y G R I S L I V I G T R T P A T L I Y P G E L A S W R D R H S I D V Q
UniRef90_F6QZF6 R S N G V N D Q H T A L V Y S A K T L Q E L L F Q E E I R K I C T E I G A Q C D
UniRef90_G8RJZ8 T R R G O T D V V H L H S A P T E S D V L F A A E L A D L Q R D H P G
UniRef90_W8HGN1 L E W G R S F E V I Y S F R D Q S G A H A D E L A
UniRef90_L7LLG7 V S T G D E T P V T V L H A D R S R S R Q P H R G D L A Q L V D R L P Q A E L
UniRef90_L0HJC3 C L H R D F T K D V T L L Y G A R R P S L M L F K Y K F E L K K W M D
UniRef90_F8AWZ7 L A R G D D V V V V H R V I S R A D D L I L W L E F E R L A G N G R
UniRef90_A0A021W4L3 A A Q G M P V P L T L L Y W A R S R R E E L C F V E E L R A I A A A H P N F R V
UniRef90_D5PDC1 L A Q R D R Y G K V T L V V G A R S Q A D F V F A A Q L E K W S H D P Q I E
UniRef90_E6QS74 L R R Q A R Y G R I H I I Q G V K H S N D F I W R E R Y D I W R Q Y P N V E
UniRef90_W5WN66 A Q W G N P R V H L E V G G R T R E D L Y D L E N L Q S I A M G N P W L T V
UniRef90_Q143R0 A R G N R K R D C T L L F G A R T Q A D L Y Q L D A I G S I A S N W Q G D F R
UniRef90_H0QXF4 L I G G T A T I Y F F Y A N R S H D D V I F G S E I E E I L M E F P D R F T
UniRef90_H2JLM9 P G E V T L L Y R A R S A E D L A L G G E L E A I A R W R G G R V L
UniRef90_G7UPA9 A A A G L L G T R K H F F Y G G R T P S D L C G E P F L Q E L A G F G D A I V Y
UniRef90_C4S7L6 I S K N D K R P I H I Y W G M P E S K L F Y S D I A Q K W V A E Y P H I Q Y
UniRef90_V6KYD6 L D R P D H Y G S L A L L V I G A E R T P A D L V A R D E I N E S W C G P A R
UniRef90_V6MJ42 S A H Q A N I N W L H A A E H G G V H A F K D E V N Q S G N Q L S H Y Q Q
UniRef90_I9E3X2 L S K T N K V V F V Y G S K S K E E A L F F D E I E A L R I Q Y P E R F L
UniRef90_G8RLG1 A A D R P A Q R A V L I F G N T N V G D V F G A E E L K V L T E Q M T N L E
UniRef90_UPI00037FFBC8 R E S A A T R V P F R L L Y S L R S P E N G Y R D E L D R L C S A G S L R V D
UniRef90_UPI000332EE21 L T Y V P R L R K V K L M F F N K T E E D I T W R S Q L E K L A F K D K R F D
UniRef90_A0A015JZN1 C Q D K S F L E K I R L E Y S V R T F S E L L F Y K R I E G L N K Q F P E M L E
UniRef90_W0F1V2 L T T T K E K V I L L Y S N R S E K D T I F Y A E L K N L Q A S Y S E R F I
UniRef90_Z5XA99 Q A E G F D G E I A F V H Y A R T P A E A C Y R A E L A A T G
UniRef90_M1F9N6 R S T D Y N Q P V V L F W G V R Q R Q D L Y L Q S L A E Q W A K D W P L F R F
UniRef90_B1FTA3 E E R G I D F V M H Y C A R S A E A A F G P L E R M Q R S G R L R
UniRef90_A3VLQ0 V A T G K A W K L H Y A A R S S A A A F R D E L D A L E Q A S D G K G K
UniRef90_R7X330 S A G D A S F E V H Y C T R E P A R T A F R D R F A R D D L A A K T R L
UniRef90_UPI0003492652 A A N A C E R P V H L Y Y G V R G A E D L C E A A R I E G Y A S T L A D F R
UniRef90_V4KUI8 A S L P A Q H P Q V R V V F A A R D Q Q H L F H R R F L E P I V N R W A I G T S
UniRef90_R7V9E1 A D L K S Q G E M H I L L Y S A K S L E E L I F K V D L K F C S
UniRef90_H5Y468 L K H R G D Y G E M I T V I Y G A R N P G L L L Y K E E L A E W E N N P N I N
UniRef90_UPI0003745EA5 P F A P G E A V L F Y R A G R P A D L L F R Q E L E D L A L R R G I R I H

UniRef90_O05617 F D N G P D Q Q K 90 N A A A L L A 100 A E A E G T H L Y V 120
UniRef90_C8XA23 V L T A I S D D L R W K G P R G L V V G K V V A N A G D W S S H D V M V C C C
UniRef90_I7DLM0 V L H V L E S D A Q E L D L F T T R L G R I D M D E I E I R P L D I Q S V D T A F I C C C
UniRef90_A0A059MLX0 H H W Y E D L G V R P A T D T T R L G R I D M D E I E I R P L D I Q S V D S R V Y I L C C C
UniRef90_V5HMF5 V W A V I S R E H D Q P T L Y H G R L S Q A L L Q S V V P D V T S R T V L M C C C
UniRef90_I2JM98 W V N L L S R E D G Q V D L L N G R I D N A A L S K R L L P L G Q F S S Y Y I C C C
UniRef90_F5YMW5 V D K D E G N G G Y P V G L V T E Y I P K L D I Q D L L P L G Q F S S Y Y I C C C
UniRef90_UPI000371F242 V D R G D E S W N G K V G L V T K Y I P E I P D L K N M A A F L I C C C
UniRef90_UOFBY9 H R W Y E D L G T H V A F G S V H G R A D L Q D L A V E P I P D L K N M A A F L I C C C
UniRef90_UPI0003023736 T W A Y T R R G P A G W A G S V G R V D D D A L R S A V W P A E D D T Q F F V C C C
UniRef90_N9RFE4 I F S Y V D S D G K L D L D Q L I G S Q P K G T H V Y V C C C
UniRef90_ROELG8 Y F D N E G Q K L D L A D I A R S R Q P D D H L Y V C C C
UniRef90_A0A059IUM5 V F Y E T P S E D D L A R G R I D P H W L A Q I S D P T Q A D Y F V C C C
UniRef90_S3DDI3 V H Y V L S D P P N D W R Y G T G Y I T K D V T K D A P S A K A L V V C C C
UniRef90_C5EVG4 V D G A E D G Y G R V G L V T K Y I P D L D L K D A P S A K A L V V C C C
UniRef90_F9RFF4 L L L K D A D G G T M P Q Q R L N K E W L L Q L V P D L M Q R T V Y L C C C
UniRef90_B2AZ63 L V Y S L S R P Q A S W Q G R K G R M D R P F F E S A V P D P E G K T L V L V C C C
UniRef90_UPI00042B46FE V Y Y V L N Q P P E V W D G G V G Y V S K E I T Q I H C P A P A P D I Q I L R C C C
UniRef90_J2HJ19 F D D Q G Q A H A L D I D A V L G E P C L G T H V Y V C C C
UniRef90_I7DWX5 E T P S D A D R A A A R Y D V E G R I T P D W L A A N T N T A L S D Y Y I C C C
UniRef90_N9VE28 L Q L V L S R P D A H W Q G H S G H L S R E L L A T V P E L E A R D V Y L C C C
UniRef90_UPI00047CBA25 H I A L S R P L P Q D R P E I D F D S Q G R L S A D T L K P N G D F D Y Y L C C C
UniRef90_U1MXZ2 F S L S R E E W H G H T G Y I Q D Q L P G V I D T V G D D V D Y Y A C C C
UniRef90_W9GM82 L L V G P P V H G S W L P A A A P G E T P S G R A G D V A P D V A E H E A Y Y C C C
UniRef90_UPI0003B5F034 V Q L L R G Y V I E S A D Q G G E L S G L F G R A H L N D A V P D Y A E A Q T F L C C C
UniRef90_UPI000374A41B H L W Y E V P G D H A P Q A S P G Q A D V S S L E I P A D L T A Y L C C C
UniRef90_V6SC72 I Q F V L T K V N V E D A L F G R V D K S V V N F V L N N K H G Q S D S K F Y C C C
UniRef90_J1R1U8 V E H R L E S E S G L P T S E S L A T F A D G G A D S D V F V C C C
UniRef90_M4VEW6 V P V V I Q D D K S R P A D A K G G M V G D V V I H D H A D L S G A S I Y V A C C C
UniRef90_F4F6H6 V P T F S H D E L A E P G E R G D L T V A L D H L C P E H E V Y V C C C
UniRef90_U7DRR7 L L G P D E T R A K L T D I M E H N A Q D D V Y T C C C
UniRef90_A4AP32 V Y F T N S K T Q E E G S L F G R I D T S T V N Y A L K N K H K D T Q F Y L C C C
UniRef90_D5NWS7 F T V L S Q E E G H E R C G F V T D H M D P T E H L A D G E A D S Y L C C C
UniRef90_A4XDP3 L L W Y E E A A G E A V D G L K A E V T A G R V D P S R I P L P A G A H I H L C C C
UniRef90_S2K633 V H R A L S Q P E G E A I S G R D Y E H A G R L A I E A A L P L G D Y D F Y L C C C
UniRef90_H5UUD9 V T T H L W Y E A I A D D G R G A R P G F M D L S D L D V P A G A H I Y F M C C C
UniRef90_A3VW14 I Y Y D D Q E Q A V A D L D L L S G Q P L G T H I Y V C C C
UniRef90_UPI00034F5AA7 I Y L S E S S D E F P S K Y E E P I I C T K F N F N E L S P F R I S D Q Y L C C C
UniRef90_A4ATH2 L A L S E P M E E D N W D G F V G F L H N C V I D N Y L H G E S P E D I E L Y C C C
UniRef90_C7N7B5 V H V S L Y H S D E R W E G P V D Y T A P F L E T L E L G P E D G N R V A V F C C C
UniRef90_J9VG18 V T Y A V S G T G K M G E G R K G H V S R E M L E E A I K R D A R G M K V F L C C C
UniRef90_W5TPU6 I R L D S G P A W T C A A V P G T K F L D Y D E L V R I A P E Y F A T A H T Y C C C
UniRef90_A0A011PQD1 V P V S D P A P D D S W S G R T G L V H E A L L E D F P E L K E H I Y A C C C
UniRef90_UPI00047A660C V H H V L S R E Q R I S P L L T G R I D E N K L E T M L I R T D E V D E W F L C C C
UniRef90_U1KRK6 H T W M E E N E N D L V C A N N H A G R M R L A P L S T S L P L E H G E F Y L C C C
UniRef90_A8M4N7 V H H L L A Q A D P G W T G A V K P L N A P L I V K L A A P L A G R M T Y V C C C
UniRef90_S3P3C3 Y L F Q D Q V H I Y S E K T Q Q R L D I E Q L S Q Q N L N S H V Y I C C C
UniRef90_B1QVZ5 S D P K E D E L L G K D Y D F K G F V T K D W L K D N L D L N S Q F Y C C C
UniRef90_F0L207 V P V L S N E Y H A Q M R R G Y V G S A V A D D F D D L D G W K A Y L A C C C
UniRef90_I0HG22 Y I V G G R N D P G P Q R L F T P E G L R G L V P D V N R R D V Y L C C C
UniRef90_UPI00036A07EC H S H G D P A R A F A V E P L L A Q Y A G G T H V Y C C C
UniRef90_UPI00036D60B1 F S D E R A E Q R F D I E R V L D S Q S P R T H L Y C C C
UniRef90_UPI00035D3F8E F K F I P T L T Q E E K E G V L S G R I P N I L K D H Y P D L S K H A I Y I A C C C
UniRef90_T0Z7V8 L V V T H S R P E P G W E G L S G R V P E I L P N L P A K H E G E V V Y I C C C
UniRef90_A3GF86 V H Y V L N E A P E N W K G S V G F V T P E I I D S K L P K A S D S N L L C C C
UniRef90_E3HNT5 Y D D K A D E Q K L H P D E L F S Q V G P E E E I L Y V C C C
UniRef90_I0HCM5 V L T G R T G G G N Q P F Q P E N L A T L V P D V T D R D T Y F C C C
UniRef90_V9LTT5 Y N W L S E V T P A D K Q G V D Y Q G H I D L A K I P E L C A N T Q Y Y F V C C C
UniRef90_D2B6Q5 V T V D H P D L A W K G P V G L V T R L I D R I V F E P R R T F A F V C C C
UniRef90_F6QZF6 F H V T Q E V Y L R Q K L S D I S G N F N T E K I S E K S L S F S P D L A D C Y I C C C
UniRef90_G8RJZ8 V R L R S R A T R T Q G R L D L S R L D D E V P D W R E R Q V Y A C C C
UniRef90_W8HGN1 A L C G D R M I T V I S T P G E L A D R L V P K L A D Q P L G T H V Y T C C C
UniRef90_L7LLG7 L Q W Y E H G L A T D E A T R I G Y M D L E G V D I A P D T T A L L C C C
UniRef90_L0HJC3 L L L T V D E A E P G W K H V G V T T L C D K I R H V A G D V T F M C C C
UniRef90_F8AWZ7 L I V H R V V G S R R D L G H D P L A A R F L V A A V P D V A E R D V F V C C C
UniRef90_A0A021W4L3 R F L L T R Q E P R A A D E D A G R I D A S L L D A H V D D L A A R Q V Y A C C C
UniRef90_D5PDC1 L H L I V D A K T P G W A G E V G L V T E P L G R L A L D T E R T A F L C C C
UniRef90_E6QS74 V W L T A D T G D T L W P E R I G P V T Q F F D Q L D I D P K Q T S V M M C C C
UniRef90_W5WN66 V P V V E S E P G L Q G V E H G T L A D V V T R S W S D R D V L V C C C
UniRef90_Q143R0 F I P V L S D E P L D S D W K G A R G L V T D H I A P G F E G G E G Y L C C C
UniRef90_H0QXF4 V F H S L D D R E G V P T V D G L A H A F R P F R T F D V Y L C C C
UniRef90_H2JLM9 Y A L N G P G G E R P P L T A E S L R A T F P G L A R D Y D V F L C C C
UniRef90_G7UPA9 H C V V S D G K A D W S G N V G F V H E W L P R L G G D L A R H E F V F A C C C
UniRef90_C4S7L6 V P V V S G E D R S W H G Q T G F V H K A V I N D F P E L S H Y S I Y A C C C
UniRef90_V6KYD6 V E V T V D R P G P G W R G A V G V T T L L D R L D L R P E R T C A L V C C C
UniRef90_V6MJ42 A I W Y R T P R A E D V Q N T D Y Q V E G L M T L K H V K D W L P D M H F Y F C C C
UniRef90_I9E3X2 V H Y A F S Q Q P W G D H Y T G R I N D R I V N E I F A K D L N W G R Y Y A C C C
UniRef90_G8RLG1 V T S G V L R N P D D S W T G E V I G T A T E A Q K Y I S G T D R S Q F E Y Y C C C
UniRef90_UPI00037FFBC8 Y V H T R S A P D G R R P G R L T Q D E L A S L V I P V E Q K P E F R V C C C
UniRef90_UPI000332EE21 V E F L L S A P T S E W N G K Q G H I S P A L L S E F L K R G Q E E S S V F I C C C
UniRef90_A0A015JZN1 C S Y F L T R D D P L H K Y R K Q R I D K K I N D V I E D Y L E K L K C F I C C C
UniRef90_W0F1V2 I Y F K F S D H E K V L H R R S H Y V L T D F I E N N L G A A K A H T S F Y I C C C
UniRef90_Z5XA99 V R V L H G Y T R A P G G E L D G R F G P E H L R A A M P D A D A V Y V C C C
UniRef90_M1F9N6 V P V V G D N E D N E W S G H H G Q L A H A V L S A D I D L S N V E V H A S C C C
UniRef90_B1FTA3 Y H F D D G E V T N R L D L R A L L H E P T P G T H V Y Y C C C
UniRef90_A3VLQ0 L H Y H L D D E Q N G A L V D I G G I L T A N P T A H F Y C C C
UniRef90_R7X330 Y F D N D G E R A D L D T I L A Q P S G G K H L Y V C C C
UniRef90_UPI0003492652 Y T E V L S D P P P A W P F K R G Y L T E H F D L A E W R D S S A D M Y V C C C
UniRef90_V4KUI8 I D F V S V L S R E P P S S W K G L R G H F F E A L L T A G F E N A D T Y L C C C
UniRef90_R7V9E1 M L L C S M F L Y G R I T Q E V I T S T L K E H F A D S Q S Y I C C C
UniRef90_H5Y468 L V T T I D R P A E G W T K H V G F I P S I T E Q I A P S S V D T Y A V V C C C
UniRef90_UPI0003745EA5 Y L L R S R N R R S W L P A G Y A P V P D D Q A L R H L V P D I A S R D V Y V C C C

UniRef90_O05617 G P G G F M G H 130 V L D T A K E Q G W A D N R L H
UniRef90_C8XA23 G S P A M V K F T V A T L I A S G V P E N S Q I
UniRef90_I7DLM0 G P E P M M L G I A S A L R T A G L N D S Q I
UniRef90_A0A059MLX0 G P L P F M E S V R T S L L A R N V P E G N I
UniRef90_V5HMF5 G P E A Y M E S A K A W F A A L G I A P S Q V H
UniRef90_I2JM98 G P E S M L S E V S R G L R G F G V A D D N I H
UniRef90_F5YMW5 G P P P M M R F S T K G L I E R G F K E S N I W
UniRef90_UPI000371F242 G P P L M M E N S V K D L L K Y G L Q P E N I F
UniRef90_UOFBY9 G P M P F M L A M R A S L L E R D V P A Q N I H
UniRef90_UPI0003023736 G P T G F V E H V A D A L V R L G H S P A R I L T
UniRef90_N9RFE4 G P K P M I D A V I D R C N Y H R Y R D E Y I H
UniRef90_R0ELG8 G P T G F M D F V L G E S E R L G W K K E Q L H K
UniRef90_A0A059IUM5 G P V G F M Q E M V R G L K A A N V P D A R L H
UniRef90_S3DDI3
UniRef90_C5EVG4 G P P A M M R F S V K G L L E R G F L E E N L W V
UniRef90_F9RFF4 G S P Q F M Q D T H D N L Q A L G F D M N N F F Q
UniRef90_B2AZ63 G P E G L E R A I R E T F T G L G W D E G D V V F F
UniRef90_UPI00042B46FE G P P M N K A M A G H L D A L G Y S P E M Q F Q F
UniRef90_J2HJ19 G P T G Y I D L V L R S A A A K G Y A D R Q V H
UniRef90_I7DWX5 G P K G F M A M A I A G L R A A N V D M D R I H
UniRef90_N9VE28 G P S G F M Q L A Q G W L E A L G V P A E R L I H
UniRef90_UPI00047CBA25 G S L A F M R S L Y Q G L L K R G I D R Q R I H
UniRef90_U1MXZ2 G V P A A V V A A K D R L D E L G V P A D R V H T
UniRef90_W9GM82 G P N G W M R L V R S S L H E A G L P T D H I
UniRef90_UPI0003B5F034 G P P G M M K A V Q K L W A D E R I A E R L H
UniRef90_UPI000374A41B G P L P F M R A V R G G L L R H G V P A E R I H
UniRef90_V6SC72 G P E D M L A N V S N T L K E N N V P E K N I
UniRef90_J1R1U8 G P A F M A L V K D T L T G I G Y G R H R V H
UniRef90_M4VEW6 G P P P M V S A V I P Q L L A H K A H R G D I H T
UniRef90_F4F6H6 G P P A M L A G S R L R L L A A G V P G E R I H
UniRef90_U7DRR7 G P Q P M I E T V S A V A L A H G V A E E S I F E F
UniRef90_A4AP32 G P E D M I H L V S N T L Q E N G I N K E K L H
UniRef90_D5NWS7 G P P P M V E A V R K Y F D S H D T P P L N F Y
UniRef90_A4XDP3 G P V P F M Y Q V R A E L L R R G V S K D R I
UniRef90_S2K633 G P S S F T Q D L Y E G L R A V H V P D A C H A
UniRef90_H5UUD9 G P L P F M R D A R R T L I R K G V A P E N I
UniRef90_A3VW14 G P K G M I T W V K T R A T A L G W P D E A V H S
UniRef90_UPI00034F5AA7 G S V T F M E S Y A Q Y L I N E N V Q L A N I V K F
UniRef90_A4ATH2 G P P L M N K A V Q K M G E D F G L P D E H I
UniRef90_C7N7B5 G G P S L S R T V R E S L L K A G Y D E G G I I T
UniRef90_J9VG18 G P P K M E E A G K K G V L R E L G L G G K E I Y K F
UniRef90_W5TPU6 G P P P L M D S V R R L Y A E E L G D R L H S
UniRef90_A0A011PQD1 G S V R M V E A I F P F L K K H G A E D G A C F S
UniRef90_UPI00047A660C G P F D L V Q L C R D T L A E R G V P A E K V
UniRef90_U1KRK6 G P M P F M A D I K Q Q L I T L G V D N S R I
UniRef90_A8M4N7 G P A Y K Y P Y L V G E L E S L G L P G R R I
UniRef90_S3P3C3 G P E R L I Q A V I T T A K K L G W S P N R V H
UniRef90_B1QVZ5 G P P P F M K A L N N A L L E L G V S E E D I
UniRef90_F0L207 G P P A M I E A T V P Q L L A R G I R T A D I H A
UniRef90_I0HG22 G P P G L V N T A V G T L Q D L D V P S S Q I H H
UniRef90_UPI00036A07EC G P R R L M Q A V R E A A R H W P A G T V H
UniRef90_UPI00036D60B1 G P A G F I D A V L C A A R N R G W P E R Q L H H
UniRef90_UPI00035D3F8E G S P E F V D T C I S A A K Q L G A Q D D M I H T
UniRef90_T0Z7V8 G H P D M V S Q T V D Y L R L A G F P E A A V
UniRef90_A3GF86 G P P M I S A M K K A A V G L G F A K D Q V F V F
UniRef90_E3HNT5 G P A G F I D W V C Q A A D Q A G V P K H R V
UniRef90_I0HCM5 G P A P L T R A V V A S L R S L R V P S R Q I H A
UniRef90_V9LTT5 G P D G F M K N V E H Q L H S H N V A H D H I H
UniRef90_D2B6Q5 G P E V M M R A S A A E L V R R G V A A G R V
UniRef90_F6QZF6 G P P K F I E R I E E Y L L Q L G Y N Q D H I F
UniRef90_G8RJZ8 G P E G M L D T A E R T W A A A G I A D Q L H
UniRef90_W8HGN1 G P A P M I A A V A E W A R D C G W P P G R V H S
UniRef90_L7LLG7 G P S G F L G A I R D A L L E R D V P E D R L H
UniRef90_L0HJC3 G P L M M K Y T S M V L I E L G F P P S E M Y
UniRef90_F8AWZ7 G P P G M T R A V V Q A L R G L G L S D K Q H T
UniRef90_A0A021W4L3 G P G G F V A N A
UniRef90_D5PDC1 G P E P M L R F G A E A L L T K G I A A R D I
UniRef90_E6QS74 G P E G M M K A V V H D M Q Q R A V P S K R L W
UniRef90_W5WN66 G S P S M I R S T V S R M L V A G T P L D H I
UniRef90_Q143R0 G P L M I D A A I A S L A K H G I P L E K V F
UniRef90_H0QXF4 G P D Q F M E T A R D A M Q Q V K I S P E K I H T
UniRef90_H2JLM9 G P H G F A Q D V Y R A L R T A G V A D R R I H
UniRef90_G7UPA9 G P P M T Q A I Q E M L M V T H R V P F Q Q L H
UniRef90_C4S7L6 G S L A M I S A A H Q E F I Q Y G L A E D Q F F S
UniRef90_V6KYD6 G P E V M M R H T A R D L L V R G L V A Q R V
UniRef90_V6MJ42 G P L P F M Q S V A K Q L I E L G I H S E K L H
UniRef90_I9E3X2 G P T E L V K N L R E I L L L R G I D K D R I F T
UniRef90_G8RLG1 G P T K M I E A T T Q M L E T I G V A R E L R H
UniRef90_UPI00037FFBC8 G T A F V E Q C A R W L L D L G Y P A N T I
UniRef90_UPI000332EE21 G P T P F T E Q G T R M L H D L H I S R D E I H G F
UniRef90_A0A015JZN1 G P S S M E D D L I K F L N E S G V D E E R I
UniRef90_W0F1V2 G P Y D Y M V M A D I S L K S N G V L K Q Q I F K
UniRef90_Z5XA99 G P P A L V E A V R E H C
UniRef90_M1F9N6 G S P T M V Y T L M D A L K D A G L P A D V F F S
UniRef90_B1FTA3 G P G G F M A A C A D A A N H W P K G T V H
UniRef90_A3VLQ0 G P E A M L A A Y E R A A R G V P R D Q V H V
UniRef90_R7X330 G P A G F I E A V L A R A E A A Q W P E G N V H
UniRef90_UPI0003492652 G P P P M V E S I Q Q W L V D Q A L D G V Q L Y
UniRef90_V4KUI8 G P P G L V D A M K F Y L V K R G F D R T R I
UniRef90_R7V9E1 G P S P M I D A M E Q Y L M S N G I S N Q Q I H
UniRef90_H5Y468 G P P A M L K F T L P V L E K L K F T P E S L Y T
UniRef90_UPI0003745EA5 G P D A W T A A V L E S A R R A G V P A D R A H S

1 10 20 30 40
UniRef90_M7A9P8 P P S G V F T P R A W D H P L H L F A A G S G I T P V M S L L R S A
UniRef90_D1P471 G E F T C A N V K S S Q Y L M L A A G C G V T P I M S M T R W L
UniRef90_M4MJH2 L A I S E P R N N F C L A R R D A L K T I F V A G G I G V T P L R L A M A Q T L
UniRef90_M1PCQ0 G P L G D F C L A E S H E T L V M V A G G I G I T P I R S L I T S L
UniRef90_UPI0002D313C6 Q P E G K F E P K A D R Q K N Y A A F V S G S G I T P V L S L I K S V
UniRef90_V4PPZ3 V S A P R N L F P L H G T A K H R L F A G G I G I T P L L A M A R H L
UniRef90_Q5YNI5 G T F H V D P D G D E V V M I A G G T G L A P M R A Q I L E L
UniRef90_I9MCS2 F L R G P Y G N F N I D L F K S K E V I V A A G G T G L A P V K G V V D Y F
UniRef90_UPI000307F3C3 L T L E G P S G S F F M R E A E Q P V I L L A S G T G F A P V K A L V E D A
UniRef90_Q1YY86 P H G D A W V R D D S D K P L L M I A G G T G F S Y V R S L D N C
UniRef90_G2PFF3 P Y G D M V L D A T D A P L L L A S A G I G C T P I V J A M L E E L
UniRef90_C7NTC0 G P Y G D L V L A D S S P R D I V F L A T G T G V A P F K S M I D Y L
UniRef90_Q5Z018
UniRef90_W3X6Y2 P T G D F F V S I G P T T P I V L I S A G V G V T P M M S L L N S A
UniRef90_C7JEC1 P A G D F T P G T E K N S K I V L L A G G V G Q T P F L S T L G A F
UniRef90_H5XQB7 P M G C L N V D R E S G R P V L M V A G G T G V A P L Q A I L D D
UniRef90_W8R7P0 R L H I G E P R N L F A L D P T A T R H L L F A G G I G V T P I L S M A W R L
UniRef90_A2TQS7 G R F K I D P S A F A K A K N Y A A F A A G S G I T P I L S M I K T T
UniRef90_UPI00047688CC L F L A P P Q G D F V L P E H P R P L L M L T A G S G I T P V M S M I R T L
UniRef90_UPI00037DAE28 G P F G R M T P R A R T Q R K V A M I G A G V G L A P L R A L A E G L
UniRef90_Q6D7A4 G P K G T F F Y R N N S S G P I T E L L A T G T G F A P L K S I V T D L
UniRef90_V5XGK6 V L A P S G T F V P T T L D T D F L L L A A G S G I T P M M A I C E K S A
UniRef90_B5I4Z0 A E G P Y G S L T G D R R T S S K A L L I G G V G I T P L R A L F E T L
UniRef90_UPI000477DC5F P T G R F V L P Q R N E F P V V M I A G G I G I T P F L S Y L R S L
UniRef90_G0VRN6 G H F F M R P Y G N G F V N M N K E I L V L V T G G S G L S P V H G V I D Y F
UniRef90_B2T4P0 E L T I G A P R N L F K L A P D A E E H V L I A A G I G V T P L L S M A Y R L
UniRef90_K0NKY6 G P L G N W Y P W D K E N K N V V I I G G G F A F T T L R S S I T Y M
UniRef90_L0FRP9 G D L T L E G F G N P E A P L Y L F S A G I G T T P M L S F L S E L
UniRef90_D2NPK8 N L F S L D L R A K H L M L A G G I G T T P F L A Q M H Q L
UniRef90_V9VYA2 G K L T I N P S G D A G Y L A G S T R P L L L L A G G T G F S Y T W S L Q A H
UniRef90_F7RXM3 V E G P R N H F P L D A T A A H S I L F A G G I G I T P L L A M A E H L
UniRef90_G8MGG8 R P A G A F Q A P S S N S K V L V L V S A G V I G V T P M L S M L H A A L
UniRef90_Q1YKX0 G P Y G R L H A G V R R S E K V T L M A S G I G I T P L R A L L E G L
UniRef90_UPI000477DA4C T P F G A I T D H G P G V F I A G G A G I T P F I S I L R K R
UniRef90_S9QIQ0 F L R G P Y G N G F D L D N K G K E I L L V A G G T G L S P V K G I V D Y F
UniRef90_H6LIH3 G E A W L R D K S T K P L L L I A G G T G M S Y T F S I L K N S
UniRef90_B2XS41 T L T V S A P R N H F P L A E H A R H S L L I A G G I G I T P I W C M A Q Q L
UniRef90_X7F8H5 D P W G A I Q D K G P G W F I A G G A G V T P F I S L L K A R
UniRef90_Q2KXR3 T L T V S A P R N H F P L A E H A R H S L L I A G G I G I T P I W C M A Q Q L
UniRef90_K4DZB5 K V Q Y K P N K W N H V G M I A G G T G F T P M L Q I I R H S
UniRef90_S6GU75 P F G D T H L A E L P D G P L V L I A A G T G M A Q M Q S L I E H C
UniRef90_D4Z908 T L T I S Q P R N L F A L A R D A R S I L F A G G I G V T P I L A M A E R L
UniRef90_A6SYL6 I S A P R N N F P L E Q S Q G P Y L L L A A G G I G V T P V L S M A R H L
UniRef90_U1YJ06 P Y G E I T L K D E A G P V V L A S A G I G C T P T A S L L R S L
UniRef90_UPI000363AC5D P Q G H F T V A P S A P R P V L L A A G V G I T A S I L S M L R E V
UniRef90_I3BTR5 G P Q G T F V L R D N G L R P R Y F V A G G C G L A S I L S M L R R M
UniRef90_J2V6V9 N Y P L D V D S G R D I A I A G G T G I T P L T G T L R H L
UniRef90_UPI0004630DED G P G S F T L H N N A R I P A V E L T G G V G V T P V R S L V L Q A
UniRef90_UPI00037CAF05 G D F V L E P G E H P L V L M A G G V G I T P L L S M L H E L
UniRef90_UPI0002487FD4 R L K V R Q P R N N F P L V D T D E Y C F I A G G I G I T P L L S M I H W C
UniRef90_D0DDD4 L T V S S P A N L F Q L D L R A R K H V L I A G G I G I T P F L S Q L R Q L
UniRef90_F0GH52 I S A P R N H F P L A T G A A H H L L L A G G I G V T P I L S M A E R L
UniRef90_W9GCQ4 P Q G D F V L P A H P R P L L M L T A G S G L T P V M S M I R T L
UniRef90_F0GAF4 I G L P R N A F A L S D T A A C H L L I A G G I G V T P I L S M A H A L
UniRef90_E2S833 P S G T F V P R D L D H R F L L V A A G S G I T P V L G I A R T V
UniRef90_A0A058XQ90 I S R P R N N F P L R E D A P H H V L I A G G I G V T P I A S M V R R L
UniRef90_I3ZA43 V F I A G G A G I T P F I S I E R S
UniRef90_UPI0003650B1E Y Q Q V F F L A A G S G I T P I F S L I K T L
UniRef90_C4G8C6 G P Y G N G F D V L Y R D G E T V V V A G G T G V S P V R G V I D A
UniRef90_UPI00036C3806 G E I T I S G G H G D A H L Q S D G N P M I L I A G G T G F S Y T Y S I L Q Q A
UniRef90_F7TB17 E H L V L L A T G T G Y A G I H P I L M E A
UniRef90_A8GZW1 P G G D A H L R V E S V R P R L L I A G G T G F S Y I K S I I E Q K
UniRef90_S9U490 K I Q Y K P N R W D H V G M V A G G T G F T P M L Q I I R H S
UniRef90_K1X04 P A G E F H L G A E R S L L L L S A G S G V T P M L S I A R T L
UniRef90_UPI000361A24D G P H G S F T A E N H G G R G L V L V A G G V G I T P M M S M L R T L
UniRef90_U1XVL9 P R G S S Y L R E G H G G P I L C I A G G T G L A P I K S L V E T A
UniRef90_J0B7B1 T V S T P R N H F R L D P H A R R S I L L A G G I G I T P I K A M A H F L
UniRef90_B4MY70 P R G N F Q L K L A A H R N I L L L S A G S G L T P N L S L L Q P L
UniRef90_S0G617 G P M G N G F P L E Q T K K N L L I I G G G F A F T T L R S T I I T L
UniRef90_W1H124
UniRef90_K6W450 G E F R L P T E R P R A A V F L N G G S G V T P V L S M V R T L
UniRef90_S7NDL0 Y G E L L M L A S G T G V L A P M V P L H S I
UniRef90_T1A2G5 R R Y V L I A T G T G V T P Y R A M L P Q L
UniRef90_C1N984 L P E D P A T P V I M V A T G T G I A P M R S Y I R R F
UniRef90_UPI00031C49E5 G P K G T F F V K D N T K P L V L I A T G T G I A P I K A I V E E L
UniRef90_UPI0003A08B63 P T G T A L P A Y N R A R P L L L I A G G T G V A P L R A I I E E L
UniRef90_W7B6H2 K H I V M I A G G T G M T P F F R L I N H L
UniRef90_UPI0002D96876 L P P A G E L T L V A G D E P L L L A S A G V G Q T P M L P I A R Q A
UniRef90_UPI00035F6E1E G P Y G M F S T A A R T R N N V V M I G A G I G I T P L R S L L E S
UniRef90_Q604N1 G P S G D C F Y V P R P E Q E L V L I G T G S G L A P L Y G I L R D A
UniRef90_UPI000375E0A5
UniRef90_C1B3J0 E L S I R L P R N N F P L V E A E S Y V F V G G G I G I T P L I P M I E Q A
UniRef90_W9B8S8 T V R G P R N G F P F I P H P R V L Y L A G G I G I T P I L P M V R A A
UniRef90_A4TEY9 G D F V L P A R P A E N I L F V S G G S G L T P V M S M L R T L
UniRef90_A0B614 G P L G N G F P I D K M H K S I V I A G G S G F A T L R S L I N Y L
UniRef90_I0V822 V R G P R N H F K L D P D A R S Y L F T A G G I G I T P I L A M A D H A
UniRef90_K8XYM2 T L G I R G P R N H F A L S T A P R Y L F L A G G I G I T P L R A M A R E V
UniRef90_S6FC22 F I R S P Q S G F A L P E N P K T P L I M V A G G T G I A P F R G F I Q A R
UniRef90_UPI00046D4A84 P M G H F T D F E S G K H Y A S V V A G S G I T P I T S I A T T A
UniRef90_N8YAM3 V S E P R N L F P L V K A K H S V L I G G G I G I T P L I T M A Y Q L
UniRef90_UPI00035CBF90 T L S I S A P R N H F P L E E A P H S V L I A G G I G I T P L I C M Y H H L
UniRef90_D2I5L6 P E G N F K S Q F Q E L E D L I L L A A G T G F T P M V K I L T Y A

UniRef90_M7A9P8
UniRef90_D1P471
UniRef90_M4MJH2
UniRef90_M1PCQ0
UniRef90_UPI0002D313C6
UniRef90_V4PPZ3
UniRef90_Q5YNI5
UniRef90_I9MCS2
UniRef90_UPI000307F3C3
UniRef90_Q1YY86
UniRef90_G2PFF3
UniRef90_C7NTC0
UniRef90_Q5Z018
UniRef90_W3X6Y2
UniRef90_C7JEC1
UniRef90_H5XQB7
UniRef90_W8R7P0
UniRef90_A2TQS7
UniRef90_UPI00047688CC
UniRef90_UPI00037DAE28
UniRef90_Q6D7A4
UniRef90_V5XGK6
UniRef90_B5I4Z0
UniRef90_UPI000477DC5F
UniRef90_G0VRN6
UniRef90_B2T4P0
UniRef90_K0NKY6
UniRef90_L0FRP9
UniRef90_D2NPK8
UniRef90_V9VYA2
UniRef90_F7RXM3
UniRef90_G8MGG8
UniRef90_Q1YKX0
UniRef90_UPI000477DA4C
UniRef90_S9QIQ0
UniRef90_H6LIH3
UniRef90_B2XS41
UniRef90_X7F8H5
UniRef90_Q2KXR3
UniRef90_K4DZB5
UniRef90_S6GU75
UniRef90_D4Z908
UniRef90_A6SYL6
UniRef90_U1YJ06
UniRef90_UPI000363AC5D
UniRef90_I3BTR5
UniRef90_J2V6V9
UniRef90_UPI0004630DED
UniRef90_UPI00037CAF05
UniRef90_UPI0002487FD4
UniRef90_D0DDDD4
UniRef90_F0GH52
UniRef90_W9GCQ4
UniRef90_F0GAF4
UniRef90_E2S833
UniRef90_A0A058XQ90
UniRef90_I3ZA43
UniRef90_UPI0003650B1E
UniRef90_C4G8C6
UniRef90_UPI00036C3806
UniRef90_F7TB17
UniRef90_A8GZW1
UniRef90_S9U490
UniRef90_K1IX04
UniRef90_UPI000361A24D
UniRef90_U1XVL9
UniRef90_J0B7B1
UniRef90_B4MY70
UniRef90_S0G617
UniRef90_W1H124
UniRef90_K6W450
UniRef90_S7NDL0
UniRef90_T1A2G5
UniRef90_C1N984
UniRef90_UPI00031C49E5
UniRef90_UPI0003A08B63
UniRef90_W7B6H2
UniRef90_UPI0002D96876
UniRef90_UPI00035F6E1E
UniRef90_Q604N1
UniRef90_UPI000375E0A5
UniRef90_C1B3J0
UniRef90_W9B8S8
UniRef90_A4TEY9
UniRef90_A0B614
UniRef90_I0V822
UniRef90_K8XYM2
UniRef90_S6FC22
UniRef90_UPI00046D4A84
UniRef90_N8YAM3
UniRef90_UPI00035CBF90
UniRef90_D2I5L6

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

UniRef90_M7A9P8
UniRef90_D1P471
UniRef90_M4MJH2
UniRef90_M1PCQ0
UniRef90_UPI0002D313C6
UniRef90_V4PPZ3
UniRef90_Q5YNI5
UniRef90_I9MCS2
UniRef90_UPI000307F3C3
UniRef90_Q1YY86
UniRef90_G2PFF3
UniRef90_C7NTC0
UniRef90_Q5Z0I8
UniRef90_W3X6Y2
UniRef90_C7JEC1
UniRef90_H5XQB7
UniRef90_W8R7P0
UniRef90_A2TQ07
UniRef90_UPI00047688CC
UniRef90_UPI00037DAE28
UniRef90_Q6D7A4
UniRef90_V5XGK6
UniRef90_B5I4Z0
UniRef90_UPI000477DC5F
UniRef90_G0VRN6
UniRef90_B2T4P0
UniRef90_K0NKY6
UniRef90_L0FRP9
UniRef90_D2NPK8
UniRef90_V9VYA2
UniRef90_F7RXM3
UniRef90_G8MGG8
UniRef90_Q1YKX0
UniRef90_UPI000477DA4C
UniRef90_S9QIQ0
UniRef90_H6LIH3
UniRef90_B2XS41
UniRef90_X7F8H5
UniRef90_Q2KXR3
UniRef90_K4DZB5
UniRef90_S6GU75
UniRef90_D4Z908
UniRef90_A6SYL6
UniRef90_U1YJ06
UniRef90_UPI000363AC5D
UniRef90_I3BTR5
UniRef90_J2V6V9
UniRef90_UPI0004630DED
UniRef90_UPI00037CAF05
UniRef90_UPI0002487FD4
UniRef90_D0DDDD4
UniRef90_F0GH52
UniRef90_W9GCQ4
UniRef90_F0GAF4
UniRef90_E2S833
UniRef90_A0A058XQ90
UniRef90_I3ZA43
UniRef90_UPI0003650B1E
UniRef90_C4G8C6
UniRef90_UPI00036C3806
UniRef90_F7TB17
UniRef90_A8GZW1
UniRef90_S9U490
UniRef90_K1X04
UniRef90_UPI000361A24D
UniRef90_U1XVL9
UniRef90_JOB7B1
UniRef90_B4MY70
UniRef90_S0G617
UniRef90_W1H124
UniRef90_K6W450
UniRef90_S7NDL0
UniRef90_T1A2G5
UniRef90_C1N984
UniRef90_UPI00031C49E5
UniRef90_UPI0003A08B63
UniRef90_W7B6H2
UniRef90_UPI0002D96876
UniRef90_UPI00035F6E1E
UniRef90_Q604N1
UniRef90_UPI000375E0A5
UniRef90_C1B3J0
UniRef90_W9B8S8
UniRef90_A4TEY9
UniRef90_A0B614
UniRef90_I0V822
UniRef90_K8XYM2
UniRef90_S6FC22
UniRef90_UPI00046D4A84
UniRef90_N8YAM3
UniRef90_UPI00035CBF90
UniRef90_D2I5L6

90 100 110 120

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

UniRef90_M7A9P8 G P A P F M D L 130 V I E Q V V R D R G M H R D S H V
UniRef90_D1P471 G P I P Y M K N V I Q Q F A T E L G V P S D H F F
UniRef90_M4MJH2 G P G P M L E S T R S L A A E A G W P E A A V H
UniRef90_M1PCQ0 G P V M V I E A I K K A L A S I D V L G D H I
UniRef90_UPI0002D313C6 G P E T M I E V V T S V L K E K N V K E S A I
UniRef90_V4PPZ3 G P D G Y L R T V L D L A R Q Q G W T Q A Q L H K
UniRef90_Q5YNI5 G S P A M T R A T V D R L I E T G T P A D R I
UniRef90_I9MCS2 G P P V M I R F T V A E F L K R G I R E E N L W V
UniRef90_UPI000307F3C3 G A P V V V E S A R R R D F T A T C G L P E T A F F A
UniRef90_Q1YY86 G R F E M A G A A R E Q F T A E K G A D R E R M F A
UniRef90_G2PFF3 G P L P F M R S V R T Q L L E R G V H P S A T H
UniRef90_C7NTC0 G I N A M V Y S L V A A V E R L G I P E K R I
UniRef90_Q5Z018 G P A P M V T A V E D A L A L D V P A E R V H T
UniRef90_W3X6Y2 G P T D F M N S M Q K Y L A L N E V D A S R I H H
UniRef90_C7JEC1 G P D S F M R D M I K A L T E A G V P E N Q I H
UniRef90_H5XQB7 G P G M I E A T V T A L L R T G V H P S Q I
UniRef90_W8R7P0 G P S G F M D H V L D T A R Q Q G W A D G V L H
UniRef90_A2TQS7 G P E A M I N E V T K V L K E N E V A D T A L H
UniRef90_UPI00047688CC G P E G F L N
UniRef90_UPI00037DAE28 G P P A W T A A V R K A A E Q A G L P R E Q W H
UniRef90_Q6D7A4 G S Q S M I E S A K A L L I E K G L P A A N F Y S
UniRef90_V5XGK6 G P P F M S A A E A A C K T V D A R H I H
UniRef90_B5I4Z0 G P H G F A R E L Y E E L R A A G V P D R R I H H
UniRef90_UPI000477DC5F A S E G M I E G V T Q D L K T R G V P A F E I F S
UniRef90_G0VRN6 G P P M M I K F S I Q E L I K L G F D E E K I W
UniRef90_B2T4P0 G P A P F M E R V V A I G E T R L S S D A I H
UniRef90_K0NKY6 G P P I M I K F T Q P A L T K L G Y Q E H Q L
UniRef90_L0FRP9 G P P G F M K A V T S S L K T L G A D P
UniRef90_D2NPK8 G P L P F M Q G V R S A L V E A G V P G K N I
UniRef90_V9VYA2 G P K G M I N W V H G T A S E M G W P R E A V H S
UniRef90_F7RXM3 G R F E M V R V A R D A F Y A E G L P K E Q L F
UniRef90_G8MGG8 G P G G F M T H V L T T A Q R A G W D D A H L H H
UniRef90_Q1YKX0 G P E R F L A D L H A G L T A R G V D P G R I H H
UniRef90_UPI000477DA4C G S T A W M D A A A A A R E C G V P A D R I H S
UniRef90_S9QIQ0 G P G P M V D D V R D A L K E I G V S E D N I
UniRef90_H6LIH3 G P M M M K C T L T E L F N V G F K E E N I W
UniRef90_B2XS41 G P Y K M I E V A R D W F C E K K G V E S H Q L Y A
UniRef90_X7F8H5 G P D E M L E D V I E A A L K A I G V P E D D I
UniRef90_Q2KXR3 G P T P M L D A
UniRef90_K4DZB5 G P D Q L L N H V A
UniRef90_S6GU75 G S P A M I Y A T L D A L V S A G M S A H Q M
UniRef90_D4Z908 G P S G F L D F V L G A A S Q L G W S G S C V H
UniRef90_A6SYL6 G P R V F M D L V E S T A A A T W P P E A V H H
UniRef90_U1YJ06 G P L P F M K K I R D E A I E A G I P A T R I H H
UniRef90_UPI000363AC5D G P G G F T Q G L Y D Q L R D L D I R D E Q L H A
UniRef90_I3BTR5 G S P G L I E A V I A V A E A Q G F N R D
UniRef90_J2V6V9 G P A M L N A V L S H A E S V G L A R E Q I H
UniRef90_UPI0004630DED G P R S M V H A M R N L L N E A G V N D D N I
UniRef90_UPI00037CAF05 G P L P F I R D Q R Q R L Q D A G L S T D R V F
UniRef90_UPI0002487FD4 G P N S L M Q S V Q Q A S Q H L E K Q R I H H
UniRef90_D0DDD4 G P E G L T S A V A D Q A A R L G W P K T A V H S
UniRef90_F0GH52 G P R G F M D A V L N E A R A R N W A E E R L H
UniRef90_W9GCQ4 G P S D F L D A A T E
UniRef90_F0GAF4 G P S A F M Q M T V I E L A R A A L G D A N V H Q
UniRef90_E2S833 G P P A F L A V I E S A A E R L G L G P D R F
UniRef90_A0A058XQ90 G P A G L M K G V
UniRef90_I3ZA43 G P Q P M V I E S V S E I L K Q L G A N P D G I
UniRef90_UPI0003650B1E G P D N Y M R L M S F A L R Q I G I P E S N I
UniRef90_C4G8C6 G P P P M M K F T I I E L Q K R G F K D D Q I
UniRef90_UPI00036C3806 G R F E M A K A A R D D F Y E R K L P E N Q L F
UniRef90_F7TB17 G N P A M V R A A R E R L G A A G L A R D R F H A
UniRef90_A8GZW1 G R F D M V G A A R E L F R T M G V E E D H L Y
UniRef90_S9U490 G P D A L L N H I A G T P L Q T L
UniRef90_K1X04 G P R G F M A D A A A K V A A L G V P A T R I
UniRef90_UPI000361A24D G P A S L A T G T L A A L E Q L A V P A S R V H
UniRef90_U1XVL9 G S P S M V D A T M G M V L K R G L K V Q D L H V
UniRef90_J0B7B1 G P A G F M Q A C A Q A S S H W P A G S V H
UniRef90_B4MY70 G P T G F N S A A I E I L A D I G V E A N N I H V F
UniRef90_S0G617 G P P V M I K F T R P V L A D L G Y G D E N I
UniRef90_W1H124 G P A A M M D E A E A T L R E L G V A E K S L
UniRef90_K6W450 G P P A L M N A V T R
UniRef90_S7NDL0 G S T E F T E D M A K G L L R A G L A E D S Y F L F
UniRef90_T1A2G5 G N P N M V D Q S F E A L K L A G L P I Q H I
UniRef90_C1N984 G L K G M M P E M L E G V C K E K G I D Y E
UniRef90_UPI00031C49E5 G S L R M I E D A K A L F L E Y H L P V S A F F S
UniRef90_UPI0003A08B63 G S P T M T Q A T I A A L K A S G I D P D R L
UniRef90_W7B6H2 G P P P M I S S L N L L K E D I K M E N V
UniRef90_UPI0002D96876 G P R G F M S A V D R C L K E L G I P D E R R H
UniRef90_UPI00035F6E1E G P T P W A S V I R E V R A A G V P S E Q V H
UniRef90_Q604N1 G H P E M V S A A K R R A F L A G A A M K D I Y A
UniRef90_UPI000375E0A5 G P P P M V D A A T A L L N Q R G V D E R N L F
UniRef90_C1B3J0 G P G P M I D A V A K E F
UniRef90_W9B8S8 G P P P M I E T V R H G F
UniRef90_A4TEY9 G P P A L V D A V R E L L
UniRef90_A0B614 G P L P M I R A V A N R L L E N G F R G S D I
UniRef90_I0V822 G P Q R L L D A L A E A T S H W P E D S L H V
UniRef90_K8XYM2 G P E P M L R A A R C S A L D R L H V E R
UniRef90_S6FC22 G D G S K M A P A V I E N V L L Q A
UniRef90_UPI00046D4A84 G P Y E L V
UniRef90_N8YAM3 G P N G F M D W V I N L A E T Q Q F P S A N I H K
UniRef90_UPI00035CBF90 G T P M L N A F E S L C E E L D L P H V H I E R F
UniRef90_D2I5L6 G P T P F T E Q G I R

UniRef90_F8ES85
UniRef90_W0VU58
UniRef90_UPI000477B8C5
UniRef90_C7MEL5
UniRef90_G8WKE8
UniRef90_R5J906
UniRef90_A0A024JNN6
UniRef90_W6WEQ2
UniRef90_A4HFJ6
UniRef90_UPI0003644282
UniRef90_W9DFE7
UniRef90_I2ICC6
UniRef90_UPI0003C7DEB4
UniRef90_W2S8F4
UniRef90_S4N8W2
UniRef90_UPI00040B66E3
UniRef90_UPI000368A9E3
UniRef90_B1KK66
UniRef90_K2RTF2
UniRef90_C0VH44
UniRef90_D0CYD4
UniRef90_C1BME8
UniRef90_W5TCM1
UniRef90_M7A1P8
UniRef90_T1MCH9
UniRef90_B8HCM7
UniRef90_UPI000476BEC3
UniRef90_K0TF88
UniRef90_J7U801
UniRef90_G0IVF8
UniRef90_UPI0003FE0E77
UniRef90_D6B6K8
UniRef90_U7DI25
UniRef90_X1GVH0
UniRef90_UPI00045EA6EA
UniRef90_W1J0N9
UniRef90_B7QG32
UniRef90_J2JK58
UniRef90_T2RQB2
UniRef90_UPI000476C5F2
UniRef90_A0A059LEZ5
UniRef90_I0DSU2
UniRef90_UPI00034F91B3
UniRef90_UPI0003815042
UniRef90_D0J436
UniRef90_G9Y173
UniRef90_K6VP35
UniRef90_UPI00046843C9
UniRef90_J4Z511
UniRef90_A0A031LYG5
UniRef90_UPI00046460BD
UniRef90_R6ANN3
UniRef90_Q160Q3
UniRef90_W9ACB6
UniRef90_W7D7M3
UniRef90_I2H173
UniRef90_E7RZ20
UniRef90_N1QF24
UniRef90_UPI0004648B44
UniRef90_D0KH58
UniRef90_UPI00036D0EF8
UniRef90_C3UVE3
UniRef90_W4B8Q6
UniRef90_M5W5N6
UniRef90_Q2NDX9
UniRef90_UPI00036F97B5
UniRef90_K6W438
UniRef90_H3SPT4
UniRef90_UPI0004140644
UniRef90_UPI000308E610
UniRef90_W5WEX8
UniRef90_Q5YXL6
UniRef90_L8K6R3
UniRef90_UPI000400DA1C
UniRef90_I3YGZ8
UniRef90_C8PVV6
UniRef90_A0A052I2Z5
UniRef90_UPI0004701F48
UniRef90_U9IDB1
UniRef90_H2B0F9
UniRef90_A1UF96
UniRef90_M4TP32
UniRef90_W5TXS8
UniRef90_Q7XYP9
UniRef90_UPI00042B37B6
UniRef90_D8KL53
UniRef90_W0P3E4
UniRef90_S5SR69
UniRef90_I7DTW6
UniRef90_U3R217
UniRef90_M7A3D2
UniRef90_UPI000472B188

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

UniRef90_F8ES85 D H Q K K P 50 F V L H Y Y T S S E 60 D F S V F M A R L R K G F S S G Q F L H 80
UniRef90_W0VU58 L E N P S D R T N V R L F F Y A N K T E S D L L R Q E L E D L K K K F P G R F L
UniRef90_UPI000477B8C5 Q A D D Y F R Q Y R G D V L F F G V D Q L K D A F F L D E F S R L R A A Q C G P D K L N
UniRef90_C7MEL5 A A A Q P E R E V R V L H A D A H A A D A A L V R L E A E T V J A A L P G E W F S
UniRef90_G8WKE8 E A E G V P F T L H Y Y L K N R A Q G A F V R E L Q R R F R A E S V V I H
UniRef90_R5J906 Y G H K E E F K S F K L Y Y G F K S P A D V L F A K D L E E R W A E K L D L L V T
UniRef90_A0A024JNN6 T S N P D D K T K I T L Y Y G N I S E D D L L R K E L E E L E K K F S S Q L K
UniRef90_W6WEQ2 A N T D D V D Y E L H Y C A R D A Q C A A F T D E L Q A L V E R E R L H F H
UniRef90_A4HFJ6 L M E R S D E T K L S F L F C N A R T E R G H I L L G S G V F D D L A R R Y P D R F R
UniRef90_UPI0003644282 L A H D A A R P I H L W W A A R T E R G E L Y L E S M A R D W Q A Q F A Q F T F
UniRef90_W9DFE7 V R W G R D V Q L L V Y F R E E A A A H L A D V T A L A R A R
UniRef90_I2ICC6 D A Q G E R Y R L L V Y C T R S P E T T A F L A E L S S L P S S
UniRef90_UPI0003C7DEB4 L A T T S H A R A T L I L G N R S A S S T M F L D E I A S S L K D R Y L D R L H
UniRef90_W2S8F4 C E D E K D D T K I R L L Y A N K S S S D K V M L G P E L D E L A R T Y P D T F Q
UniRef90_S4N8W2 A G S G H R A P V T V L H G D R S P A T H A L L A R A D H E A Y A A K L P E A
UniRef90_UPI00040B66E3 L A G D G S R R L H F F L G L R T E A E L D A A A E A D S L Q D R A T T T
UniRef90_UPI000368A9E3 L A K G S G R I V M F Y A N R S E A D V I F A R E L R E L R A A H P D R L N
UniRef90_B1KK66 I A L L D N Q K L P T T L Y W G C R N Q D A M Y Y E E I A R Q W H D A H P W M Q F
UniRef90_K2RTF2 A A Q G E N V G K T V L F F G C R R R R D E D F L Y Q E E W E Q Y K K D L G D N F
UniRef90_C0VH44 K S A R I P F E L H Y F V R S H D M I A F Y G N L T E H F G S N
UniRef90_DOCYD4 H A L G R D F D L H Y S V P S R E K A G Y L A D L A A A P W A D R V H L H
UniRef90_C1BME8 S D I L G L P V E T H L L Y S A K T E E E L I F K N E L D A L T Q R D S G
UniRef90_W5TCM1 Q R R G I D W R L L Y L G R G R D S M P F L D E L S A R R G G R L D
UniRef90_M7A1P8 L E H E L A P E M F L Y H G G R R R V D L Y D V E Y F T E L A Q A H P G F H Y
UniRef90_T1MCH9 F A A K Q R A D V R L Y Y G A R N L E T M A Y Q E R F A E W S S G L K
UniRef90_B8HCM7 A A T G S D R Q V L V L H A E S T L E T S W A L R G Q M T D D V I E R L D G A E L
UniRef90_UPI000476BEC3 S Q W G N K P R V L H L F V G G R S V R A D L Y D L P Y L Q A V A T T N P W L T V
UniRef90_K0TF88 L S R G E K L G K S F L I F G S R S E E G L F H D E I S D Y S N R G L L N V V
UniRef90_J7U801 E N D G A S G K N W L F Y G N Q H F T E D F L Y Q T E W Q R Y V R D G V L T Q
UniRef90_G0IVF8 L R Q K N E I G N N Q L I F A N K T N D D I L F E E L K T I L G H
UniRef90_UPI0003FE0E77 S T Q G H Q A P L Y W L H A A E N A Q V W A F G A E V E R L S T L P Q A Q A
UniRef90_D6B6K8 A E R A Y Q G H V T V V H G D R T P A T H P L R A L H T E L T G R L P D A E
UniRef90_U7DI25 A E T G Q P W R L H Y F A R S P Q Y A A F A E L A S T F A G H
UniRef90_X1GVH0 V E D K L D A K L T L L Y G S S E E D D I Y Y N E F K E L E F A K Y P D K I K
UniRef90_UPI00045EA6EA A L D G R G G R P A T L V R R V R S A E R Q P L Q A D I D R Q S G A L Q V V D L
UniRef90_W1J0N9 R Q K N S E Y E L H Y C R Y P N E N A F S K E L M T A E F K D K L Y C Y
UniRef90_B7QG32 L F V S K Q V D V K L M T F N K T V K D I I W K E E L D H L Q E H N R L R
UniRef90_J2JK58 L H N E P R T R L F L F F G N K N S E E L I Y R D L L D N L A R T C G D R L Q
UniRef90_T2RQB2 A A R G A D W R L V Y T G R S R D S M P F L D E L A A L D P A R V W
UniRef90_UPI000476C5F2 A R R P G T A P D I L L L H S A P T P A D C L F R T E L R F L E S R L P
UniRef90_A0A059LEZ5 L A L G Q V V G E S W L F F G C R H P D H D Y L Y R D E L E S F A R S G A L T H
UniRef90_I0DSU2 L M E N P S R D I T F Y W G G R Q L E H L Y D L G E L Q A L S E R Y P N L K
UniRef90_UPI00034F91B3 M K D P D D H T V C H L F A N Q T E K D L L L R P E L E L R N A H S T R F K
UniRef90_UPI0003815042 A A R G A S G R N W L F F G D R N R E T D F V Y E D E L S E L R T R G V L T E
UniRef90_D0J436 K A E G L R D F K L Y Y L A R D P E G T A F L D E L S S D E W R S L V K I L K
UniRef90_G9Y173 L A Q K P E R E I A I Y W G G R S K Y L Y D L A E L E A L Q E Q H P Q L K
UniRef90_K6VP35 S K R A D T P A T H I F Y G V R Y P G E L Y D L T V L R R I A A T N P W L T I
UniRef90_UPI00046843C9 H A L G R P F D L H Y S A T R R A D A A F C D I L S D M P W A A N V H L H
UniRef90_J4Z511 Q A E P E R A P Q A A L Y Y C A R N E A D A P F A R K L E T L C A Q V P
UniRef90_A0A031LYG5 Y Q R I E S K A E A H L F Y F N H D E N S L F E N E I R Q I A K Y S N L N V H
UniRef90_UPI00046460BD N E D K S Q K F P I Y S V F W G N R H V E D F V W K P V L K K L N V E
UniRef90_R6ANN3 V Q K D P T R K I Y S V F V G C R N K E A I P F R E E L A L V V K E G N V S F E
UniRef90_Q160Q3 H A A G R S F E V H Y S V S H Q K T A A F V P
UniRef90_W9ACB6 I S R G L T Q P I L F I Y W G G R D L C Q L Y A N D E M Q Q L A Q Q Y P N L S Y
UniRef90_W7D7M3 T K P E G L E L I H C V R S E E Y A A F S K D F Q T Q L G G H Y H Q F
UniRef90_I2H173 L K N E P N F G K Q L L F Y G S R N E D D Y L Y K N E W P K Y S E S L G N T F E
UniRef90_E7RZ20 Q A S G V K R E N C L I F G E K R R A E D F L Y Q E E L E A I Q Q E G V L G
UniRef90_N1QF24 A K N G E K V G K T I L F F G C R N R A E D D F I Y K E D W E Q W S D L G E N F
UniRef90_UPI0004648B44 V D E G F A G R I T F L H Y A N A E S D V A Q L A E L R S L A A A H G N V I E L
UniRef90_D0KH58 R A T G A Q G K N W L F F G E Q R A A T D F Y R E E L E K L Q R D G Y L H
UniRef90_UPI00036D0EF8 Y T Q G Q I G N N R L F F S N R T A D I L R E E L E A M L G D H
UniRef90_C3UVE3 L A Q G A A R V R L F Y T N R D R A T A M L L A E L Q A L Q D A A A G R L E
UniRef90_W4B8Q6 R A E G Q K L G P A H L Y F G C R N P E H D Y L Y R E E F E Q A A R E N L V A
UniRef90_M5W5N6 L E N P S D R T N V H L I Y A N V T Y E D I L L K E E L D N S S N F P N R F K
UniRef90_Q2NDX9 Q E D G A V L G E A M L F F G C R H P D I D Y L Y R E E L D D Y D Q R G V A T V
UniRef90_UPI00036F97B5 E A A G A D W S L Y G G R T R T S M A F L D R L A P H G D R V L
UniRef90_K6W438 A A T N A G G E N W L F F G D R H S D H D F L Y A D E I E R F G I E G V L H R
UniRef90_H3SPT4 K R K G V Q L G S A H L Y F G C R D E A D H I Y L E E L E Q F Q Q E G L V T
UniRef90_UPI0004140644 K R Q G A L R D V H L H S A R T D T G T I F G A E L R A L D T D T D N N Y R
UniRef90_UPI000308E610 K E Q G A L R D G E A H L Y F G C R N E A D E I Y R E E L G Q F E Q E G L V T
UniRef90_W5WEX8 A D H G Q L R D V V H L H S A R T E Q D V I F R P D L A D L D R R H E G Y R L
UniRef90_Q5YXL6 L E R G H R S P I H L Y H G V R E E A D L Y D V E W L S E L S R S H P D
UniRef90_L8K6R3 L F H T K N K I L L Y G N K N I E N T I F Y N Q L V N L A I D Y P E R F L
UniRef90_UPI000400DA1C Q A D E K I A N N K L I F T N K T E S D I L K K E F N E M L G K N
UniRef90_I3YGZ8 H W A D P R E V L Y Y G V R N R G E H I M K E H L E S L C D S H P E F R L
UniRef90_C8PVV6 E V W Q Q Y Q R I L V Y S A R T S Q E L A Y Q A E I D A I K S I Y G D N A F
UniRef90_A0A052I2Z5 T A L G K P W E M H L C A R T P A H A A F V Q E L S E L A G S Q G V N A F Y
UniRef90_UPI0004701F48 K A S G A T G K N W L I F G E Q R E D S D F Y F R G E L E A L R E E G F L Q R
UniRef90_U9IDB1 Q A R G A S F E L H Y A F R G E L T A A Y V Q S L A E Q L S
UniRef90_H2B0F9 L Q S N L K L G K H L L F Y G C R N N D D Y L Y K D E F P E Y I E K M D G L L E
UniRef90_A1UF96 L R G R T D P P P W R L V Y G R D R A A M A F L D R V Q
UniRef90_M4TP32 E A R G E P F V L H Y Y A R R H A D V A F S Q R L Q Q G
UniRef90_W5TXS8 S R R P Q P P R T H L F V G G R T P R D L Y A S D M L Y L L A G E M P W L T V
UniRef90_Q7XYP9 F A A E K F K G L A W L F L G V A N S D A L L Y D E D W K A M Q E K Y P E K F R
UniRef90_UPI00042B37B6 F E M D K F R G L A W L F L G V A N S D A L L Y D E D F T K Y L Q D F P D H F R
UniRef90_D8KL53 A E R K Q E R C H A V L V Y C V H D S T Q L L F D Q E L T R L E Q E N P
UniRef90_W0P3E4 D N D G S T G K N W L F F G N P H F T E D F L Y Q E W Q E Y I K K G L L T
UniRef90_S5SR69 E K A G K K W R L V Y G G R T R A S M A F T E E L A Y G D R V Q
UniRef90_I7DTW6 H A L G Q P F E L H Y S V P S R K D A G Y L N D L A A M P W A E H V H I H
UniRef90_U3R217 R A A G A D F E L H Y C A K A P E C A A F P D E L S
UniRef90_M7A3D2 A R R W G R R T Q V L Y T Y R P D N A A H V D D V V E L T D G A E L
UniRef90_UPI000472B188 E T A G A D Y T L H H F C R P E E K P A F E A L L A S L P P A

UniRef90_F8ES85 YSRQGD S LRHN 90 100 110 120 LPAELLRYS P D T Q L Y H C
UniRef90_W0VU58 VHYVVEEGP I G N G I S R G R I L K E D I K
UniRef90_UPI000477B8C5 V T I A L S K E D P P A S A L S D Y P H H D V A G R H M Q G S Y Q N V R A Y I L A
UniRef90_C7MEL5 R S A D G A P V L P G H G Q T R S R V S A G R M E I T A E H L P D G A E M Y L C
UniRef90_G8WKE8 S S C E G D S A R Q H L J A A A L N K T H T G Y P I Y L C
UniRef90_R5J906 V D G A D E G Y T G N V G L V N T K Y I P E L N I D V N Q A S A V V V
UniRef90_A0A024JNN6 V H F F I D K N P D T W K G N V G Y I L T K E F L E K T L F K P S E N V K V F V C
UniRef90_W6WEQ2 F D G G D P A R G L D I T A L L R D E A Q D G T H V Y Y C C
UniRef90_A4HFJ6 M F Y T I D K W L E R E N H F L G E R Y I T T D M L C R S M P A P E E K K S I F I A
UniRef90_UPI0003644282 T P V V E L P D E D D F D G V V E R I D N A L H D R V E R A D E A S I F I A
UniRef90_W9DFE7 T P V V E L P D E D D F D G V V E R I D N A L H D R V E R A D E A S I F I A
UniRef90_I2ICC6 R V R Q I H H D H G N P E Q S L D F A K L L A D T R E G S T H L Y C
UniRef90_UPI0003C7DEB4 V I Q V F S R E E R I L V P L Q N G R I D Q D R T A S L L A D P A E V D D W F L C
UniRef90_W2S8F4 L H Y F F T K M D P T A N V H A G A I S I G E L K A L L P A V S A E S K Y L L C
UniRef90_S4N8W2 A V H F W Y E Q D A P A G A R S G L V D L A G V P V E P G T R A Y L C
UniRef90_UPI00040B66E3 V V L S N P R E R S A W H G P R G F V H A E V E R S L S A P L D R F D F Y F A
UniRef90_UPI000368A9E3 V I H W L E T V S G L P D A K A L A T A L R P Y K A Y Q A F M C
UniRef90_B1KK66 V P V I E Q A G D D W K G K E A N L L D Q I R A D F V S L N G Y D I Y I A
UniRef90_K2RTF2 E M H T A F S R E G P N K V Y V Q H K I Q E N A E I V N Q L L E Q K A Y F Y V C
UniRef90_C0VH44 I H F H I Q D Q P G T G C D M S Q V L Q Q N A P D K H L Y V C
UniRef90_DOCYD4 V S D E G T R A D L D A F L A G Y R D G W H V Y T C
UniRef90_C1BME8 F H V Q Y R V T N S E A R I G V N D L E G F L S T D K P T Y F Y I C
UniRef90_W5TCM1 I L P D D E Y G V A D I G E L L A D V P R G A A V Y V C
UniRef90_M7A1P8 R P A I S E P D D W T G S V G M V T D V V L D D F A S C K G M S A Y L C
UniRef90_T1MCH9 I V P V L S R P D D D W K G E R G Y V Q R A F L E A K N I A N P A S T G A V L C
UniRef90_B8HCM7 Q L W L E Q P A D G A K E G F M S L R E V I D L P A D A S I Y L C
UniRef90_UPI000476BEC3 T P V L S E S P D N K G V E H G T L A D V T R Y G T W E D R E V L V S
UniRef90_K0TF88 S H V Y S R E P D N K R K Q Y V T D E L N S F E T R E A L Q P M L S D C H V F I C
UniRef90_J7U801 I S L A W S R D K P A K T Y V Q D K L R E Q G A D V W R W I E D G A H I Y V C
UniRef90_G0IVF8 K F Q N I T E N Q K D T A Y D Q G R I D K E Y L K E N I N D F K H Q N F Y C
UniRef90_UPI0003FE0E77 H L W L R Q D T H A A P V L R Q T R C H A G I M D L T M A L N D T N M Q F Y F C
UniRef90_D6B6K8 A H F W Y E E P T A G P G A L T G R V D L K A V P V A P G T R A Y L C
UniRef90_U7DI25 V V H V L S C E E V T L E G S E G F L T S D I I E K Y C D V N Q A G S A A H V Y T C
UniRef90_X1GVH0 V G P R S A A G T S W L P A Q L G H H P G P V A A R W L V P D L A D T D V F V C
UniRef90_W1J0N9 I S S E G N R L K L D T L I S R L P R E G S H I Y T C
UniRef90_B7QG32 V E H V L S E P D D S W E G A R G R V R S H L L Q D F V P D P R Q G L I C
UniRef90_J2JK58 I F Y F F S Q E K T A D Q F F Y G R L D H L I I N Q V L H L D D T D D E V L I C
UniRef90_T2RQB2 L R P D R E Y G V P A S G S E L L E H A P S P A L Y C
UniRef90_UPI000476C5F2 L R J A V H L T H T R T A G R L T A D R J A A H C P D W R D R D T W V C
UniRef90_A0A059LEZ5 L R V A F S R A Q S R K V Y V Q H L M A E H R R A L F D V L A R R G G R V Y V C
UniRef90_I0DSU2 V I P L V E Q P D E Q W R G R S G T V L S G V L E D F G D L S S Y D I Y I A
UniRef90_UPI00034F91B3 L W Y T L D R A P E G E W G A G G R H P E G P S E H M R G G A E S R
UniRef90_UPI0003815042 L D L A F S R D Q A E K V Y V Q T R M R E R S R E L Y G W L E D G A H V Y V C
UniRef90_D0J436 H S F G D P A K A F D F W A L F E R P K A A H V Y C
UniRef90_G9Y173 V I P V V E Q P E E G W N G R T G T V L S A V L Q D Y G S L A D Y D I Y I A
UniRef90_K6VP35 T A V S E E T D D P W W I G I D H R I G I L A D V V V A A G P W E E H Q V L I A
UniRef90_UPI00046843C9 L S D E G T R A D L P A L M S A L P R G A H V Y T C
UniRef90_J4Z511 R V A L R V W Y S E G Q R P L T A A D L L K G H I A G A P W P S V W F C
UniRef90_A0A031LYG5 F I C S K V I Q N E S A S D L R Q G R F S L E I F Q P Y I R D F K C Q H V Y A C
UniRef90_UPI00046460BD F Y Q V L S R S D E V W D K S V G Y V Q D V A L G T V P S I K E F H V Y A C
UniRef90_R6ANN3 V F E T S E H G R P S E D F K S L V S I Q G A D Y C I
UniRef90_Q160Q3 L L Y S V P W A D R V H I H N S Q N G R R A P L D A I F R A P R T G A H V Y A C
UniRef90_W9ACB6 V P V V E T A P E G W Q G K V G N V L D A V A E D E F V S L S A Y D I Y V C
UniRef90_W7D7M3 A G K L T K A D I E K L V P S G S A I Y L C
UniRef90_I2H173 M I V C H S R L P G S K K V Y V Q D K L N E N R Q E V L K L L D A G A F I Y I C
UniRef90_E7RZ20 E L I T A F S R D G A E K Y V Q N A L A D H A E R L R P M L E K G A H V Y V C
UniRef90_N1QF24 L L D T A F S R E S S K K V Y V Q H K M K E R A Q E I N E L L E Q K A Y F Y C
UniRef90_UPI0004648B44 T L J A Y T E S G D G D L H G F F G P E H L A A A A P W H A S A Q T Y L C
UniRef90_D0KH58 R F D T A F S R D Q S E K I Y V G H R M C E Q G A E L W R W L E E G A Y F Y C
UniRef90_UPI00036D0EF8 L F N L I S G E N P E G Y V H G R I D K D F L Q N H I T D F D Q P F Y V C
UniRef90_C3UVE3 I V H W Y D A E Q G L P A Q A V L V A Q A Q G L D Q A D A Y M C
UniRef90_W4B8Q6 L H T A F S R V E G T E K C Y V I Q H L L R Q D G E M L L S L L E D G A R M Y I C
UniRef90_M5W5N6 I Y Y
UniRef90_Q2NDX9 H A A F S R H D G S R T Y V Q D L I A R E V W E L T I E Q D A R I Y V C
UniRef90_UPI00036F97B5 V R P Q D E Y G L L D L A A H L G V P K E G T L V H A C
UniRef90_K6W438 V D L A F S R D Q D H K V Y V Q D R M R E R G A D L F A W L R D G A H V Y V C
UniRef90_H3SPT4 V H T A F S R L P G Q P K T Y V I Q H L M Q Q R E M E I I G L L D R D G A Q F Y V C
UniRef90_UPI0004140644 L H L Q L T G S D G R L T P D H L D D L C P D W R D R E A F V C
UniRef90_UPI000308E610 V H T A F S R K Q G Q P K T Y V I Q H L M Q Q H A R E L I G I L D Q G G R A Y V C
UniRef90_W5WEX8 Y L Q L T A E H G R M S P A D L D E L C P D W R E R E A F C S
UniRef90_Q5YXL6 F H Y T P C L S R G E W N G R T G Y V G D A V L A D F D N L R D Y S G Y L C
UniRef90_L8K6R3 L K L F Y S E E N L P N T Y G R I T P E D I S K A I K S F T K L D D F Y I C
UniRef90_UPI000400DA1C F I N T L T D E K K E G Y E N G R I D Y T F L K E K I D N F K Q H F Y V C
UniRef90_I3YGZ8 Q V C Y A E P S E E D P G V D Y Q H Q G W L D I S G L L Q R H F G R Y E F Y C
UniRef90_C8PVV6 V F L P L V T R E A D Y A G E K A R I P N L I L S G K L D K E R S H V M L C
UniRef90_A0A052I2Z5 C H F D Q I P G G Q P L D I A A L V R S R P D D T H F Y C
UniRef90_UPI0004701F48 L D T A F S R D Q A E K I Y V Q G R I L E H G A E L W A W L Q E G A H F Y A C
UniRef90_U9IDB1 A L H L Y I D S A A Q G R L D L A Q V L G N Q P L G S H V Y A C
UniRef90_H2B0F9 L F V A F S R L P G S E K V Y A Q D M L K E N E E Q V L S L M K Q G A F I Y V C
UniRef90_A1UF96 A S D G V D V I P Q D E A G L P S V A G A L A D S P P G T A V Y C
UniRef90_M4TP32 F T H G Q V S L H L S D G G Q S P R V H V A G E L G Q A R A C D Q L Y L C
UniRef90_W5TXS8 I P V V E N G A D P N W P D Q W C R V D D E M M E G T L A D V I G D H Q V L V C
UniRef90_Q7XYP9 Y D V A L S R E Q K N K S G G K M Y I Q D E Y G K E V F E L M N L G A H I Y F C
UniRef90_UPI00042B37B6 Y D G A L S R E Q K N K S G G K M Y I Q D E Y G K E V F E L M N L G A H I Y F C
UniRef90_D8KL53 Q L E V I R R I T A R E G R L T P Q D Y E Q V V P D I T S R A I F A C
UniRef90_W0P3E4 K I S L A W S Q D Q E H K I Y I Q D K I R E N G K S E L V G E P A E D T L I Y C
UniRef90_S5SR69 L V P Q D E F G H L D L S S L L G E P A E D T L I Y C
UniRef90_I7DTW6 V S D E G L D R L L A G Y Q D G W H V Y T C
UniRef90_U3R217 T L G G H V H Y H F D G G N P A N G L D S R A D L D R L L A G Y Q D G W H V Y T C
UniRef90_M7A3D2 T L G G H V H Y H F D G G N P A N G L D S R A D L D R L L A G Y Q D G W H V Y T C
UniRef90_UPI000472B188 R I F I H D R P P E D V G M K Q R M A E E N L A T H L L A G A L R E Q P I G T H L Y V C

UniRef90_F8ES85 G P Q S F M E K ¹³⁰ A T E A Q K Y G W K A D ¹⁴⁰ H I H S

UniRef90_W0VU58 G S P P M V D A T V R L L L Q A R L T T D N I

UniRef90_UPI000477B8C5 G S S A F L Q G A R E Q L R R V G A D E E R V H

UniRef90_C7MEL5 G P E G F M A A A R R V A M E Q G W A E T L I H S

UniRef90_G8WKE8 G P P M M M K F S V G E F L K L N M D E K N I W V

UniRef90_R5J906 G P P L Y K A L L T G A L K D I G F T K D Q V F K Y

UniRef90_A0A024JNN6 G P A G F M S A C A D A S G H W P K D A V H

UniRef90_W6WEQ2 G P D P L L S H V A

UniRef90_A4HFJ6 G S P G M V Y A V V D T L E R I E P L A R R I F S

UniRef90_UPI0003644282 G P S S M I D S V V A S A A A A G W P D S R I H

UniRef90_W9DFE7 G P R P L M Q A V R D G A S G W P S S A V H

UniRef90_I2ICC6 G P L E A M S A V E T V L L S R D V D P L R I H

UniRef90_UPI0003C7DEB4 G P D A M V E Q M G R D L V K M G T R A D Q V F V F

UniRef90_W2S8F4 G P L P F M R A V R A Q L I G R G W R R

UniRef90_S4N8W2 G P P M I E A M Q E L L M V R H R V P F D Q I H

UniRef90_UPI00040B66E3 G P G P F M D A V H A G L E G A G F A H H Q V H A

UniRef90_UPI000368A9E3 G R F D M V G A A R E V E R S I G V E E D H L Y

UniRef90_B1KK66 G D A N M A R A V N E L L K Q R G L P E S K

UniRef90_K2RTF2 G P T G F M E F V T N S A V Q A G W Q T E H L H Q

UniRef90_C0VH44 G P D R Y M E A V V Q A A E R Q G W P E A A R H

UniRef90_DOCYD4 G P A M V K D V N A S L L Q R G V T K E K I F

UniRef90_C1BME8 G P P P L M A A A

UniRef90_W5TCM1 G P P A M V T A A V K A L K R R R M A P R L I F

UniRef90_M7A1P8 G Q S Q M I E E V T S A L T A D G V S Q D K I

UniRef90_T1MCH9 G P L P F M K S I R N E A I N A G I P A T R I H

UniRef90_B8HCM7 G S P G M I R S T V S R M L V A G T P L D R I

UniRef90_UPI000476BEC3 G S A N M A E S A K Q S L R D M S V D E G R L H

UniRef90_K0TF88 G N A G L M A S D T E D A L L E I

UniRef90_J7U801 G P E G F L K A V N G A L K D L G A N P E

UniRef90_G0IVF8 G P V G F M Q H V A Q Q L V A Q G V D T G R L H

UniRef90_UPI0003FE0E77 G P L P F M R A V R E Q L L E Q G V G P A D I H

UniRef90_D6B6K8 G P A P F M N T V V D V A A R S R S D D A I H

UniRef90_U7DI25 G P Q V M Y N F V E K E L E K F N L H H K R V

UniRef90_X1GVH0 G T A T W A E A V A A D L H A A G V P S A Q L H V

UniRef90_UPI00045EA6EA G S G S L N N G V K Q A A K N A G F P A H Q L H H A F

UniRef90_W1J0N9 G P L P F T K A A L K C L E D M E Y S P E T V H A F

UniRef90_B7QG32 G K G E M I K T L A N A C Y H H G I P K K N L H

UniRef90_J2JK58 G P T P M I T G V R I D A

UniRef90_T2RQB2 G P A G L L D A A E R Q W A A A G A R E E R F H

UniRef90_UPI000476C5F2 G D G A M A R D V H A E I V A L

UniRef90_A0A059LEZ5 G R F E M A K I A R E R F C A E R N A K P E Q L F

UniRef90_I0DSU2 G D A S R M A K D V E T A L L G V V A E Q

UniRef90_UPI00034F91B3 G P Q S L M D T V

UniRef90_UPI0003815042 G R F E M A K I A R E R F C A E R E A K A D H M F

UniRef90_D0J436 G S P G M I E T T R R R L L I A G V R A S R I

UniRef90_G9Y173 G P D A Y M Q A V M D T A A A S H I P E D H R H

UniRef90_K6VP35 G P N G F A D A L K D G L H R R G M P V R R L F

UniRef90_UPI00046843C9 A P Q A L I D S A R Q Q L I Q A G V K A A A F H T

UniRef90_UPI0004640BD G S N Q M I Q N A R E L F C G A G L L E K N F F S

UniRef90_J4Z511 G P V P F M K L A S E L V K N G V A E N K I H A

UniRef90_A0A031LYG5 G P D R Y M S A V M A A A E K A G V S E E A R H

UniRef90_UPI00046460BD G R F E M A G A A R E R F C T E K G A V R E H M F A

UniRef90_R6ANN3 G P V P F M Q E V E A L L L E L G H E Q K N I H

UniRef90_Q160Q3 G D A K H M A R D V N K V L T D I

UniRef90_W9ACB6 G N K A H L E E A V A Q A F D T L M A N S D R L

UniRef90_W7D7M3 G D A N M A K E V A D I L E Q R G V D K K K

UniRef90_I2H173 G P P G L M T S V A A L Y D E L G L A D Q L H

UniRef90_E7RZ20 G D A S R M A K D V D S A L R Q

UniRef90_N1QF24 G P D A F T E S I L K A L E E L G A S A D

UniRef90_UPI0004648B44 G P E P F M H A V G A S L Q G R

UniRef90_D0KH58 G D G S R M A P E V E Q T L D K Y G V D A D

UniRef90_UPI00036D0EF8 G D G A R M E P D V R K A L M A I

UniRef90_C3UVE3 G P E P L L R A V Q E Q C A G W P P

UniRef90_W4B8Q6 G D A N R M A P D V D A A L V E I

UniRef90_M5W5N6 G D G S R M A P D V I E A A L R K H G V S E A

UniRef90_Q2NDX9 G P T A L T E A L R E R W E R D A D P E R L H

UniRef90_UPI00036F97B5 G D G S K M A P D V E A T L Q Q A

UniRef90_UPI000438 G P G E F L D Q L T S H F E R E G K R E R L H

UniRef90_H3SPT4 G P P A M V E A A G R A L K R R R M A P R R I F

UniRef90_UPI0004140644 G P E L L I R D T E S F L L D L G V N K N K I H

UniRef90_UPI000308E610 G P P Q F V T A I S E A L A Q L G A K T D A V

UniRef90_W5WEX8 G P P P M M E M L V P A L E A S G V A P E D I H

UniRef90_Q5YXL6 G N P Q M V E D T K E A L K S I G L T M N R

UniRef90_L8K6R3 G P L G M L S A F E A A T A Q C G

UniRef90_UPI000400DA1C G D A Q Q M A K E V D A A L K

UniRef90_I3YGZ8 G P Q N L D A L R A Q A A A L G W A D K R V H

UniRef90_C8PVV6 G D A K S M A Q A V H A T L I D I

UniRef90_A0A052I2Z5 G P P A M I A A V S D A C A R H P G L D

UniRef90_UPI0004701F48 G P A F M D H F T V L A K A H G W T A A Q L H

UniRef90_U9DB1 G S P G M T Q A T L I E R L V N T G T P A D A I

UniRef90_H2B0F9 G L K G M M P G A M E S V A K S Q G V

UniRef90_A1UF96 G P A F M D H F T V L A K A H G W T A A Q L H

UniRef90_M4TP32 G L K G M M Q E T L K R V A E K R G

UniRef90_H3SPT4 G P S R M L D Q A H A W A E E R G I T

UniRef90_UPI00042B37B6 G N A S K M A K D V E K A L L D I

UniRef90_W5TXS8 G P E G L L Q A V

UniRef90_Q7XYP9 G P D R Y M S G V M E A A E R Q G F A E E A R H

UniRef90_UPI00042B37B6 G P G G F M K A C G E A S A H W P A G T V H

UniRef90_D8KL53 G P G T L I D H V V S A A T A A G W P A S R I H

UniRef90_W0P3E4 G P E G F M N W V I E Q T A A Q I G F A A A K V H S

UniRef90_S5SR69 G P E G F M N W V I E Q T A A Q I G F A A A K V H S

UniRef90_I7DTW6 G P D R Y M S G V M E A A E R Q G F A E E A R H

UniRef90_U3R217 G P G G F M K A C G E A S A H W P A G T V H

UniRef90_M7A3D2 G P G T L I D H V V S A A T A A G W P A S R I H

UniRef90_UPI000472B188 G P E G F M N W V I E Q T A A Q I G F A A A K V H S

UniRef90_Q1GLB9
UniRef90_A0A031LS60
UniRef90_J0M594
UniRef90_Q493N4
UniRef90_S9V9J5
UniRef90_W0SDZ3
UniRef90_U5EHD5
UniRef90_UPI0002559B6A
UniRef90_Q9URY5
UniRef90_UPI00037E3DE6
UniRef90_H6L310
UniRef90_D7FWK8
UniRef90_W7Y8G5
UniRef90_D8JXU3
UniRef90_W9ASR0
UniRef90_R7WRE3
UniRef90_W4CRR6
UniRef90_W9TFW9
UniRef90_M2ZAC4
UniRef90_A3SLM8
UniRef90_A0K1X7
UniRef90_X1BXA6
UniRef90_Q0SJT1
UniRef90_F2L978
UniRef90_W6W7Q2
UniRef90_K8F2G6
UniRef90_H1SBC8
UniRef90_I4BD80
UniRef90_A2C882
UniRef90_A0A058YJ50
UniRef90_UPI0003771E9D
UniRef90_UPI00047C184E
UniRef90_F1Z348
UniRef90_W1T39
UniRef90_V7M619
UniRef90_D5C0C2
UniRef90_B2T481
UniRef90_B0CBF3
UniRef90_C8N9T0
UniRef90_W1N5G4
UniRef90_G8RY64
UniRef90_A0A059NYT3
UniRef90_UPI0003959BFB
UniRef90_N4USH2
UniRef90_UPI00040EE918
UniRef90_F7RIW5
UniRef90_N6XAR6
UniRef90_R8AMA0
UniRef90_E1VH81
UniRef90_UPI0003785014
UniRef90_Q7UW66
UniRef90_B2IEL3
UniRef90_UPI00046352EB
UniRef90_F4AHT2
UniRef90_R4X1D1
UniRef90_V9D2F0
UniRef90_C5AM81
UniRef90_W9WVY3
UniRef90_C8RSM3
UniRef90_UPI000465B5DE
UniRef90_UPI000348FB0A
UniRef90_Q12EU3
UniRef90_UPI000371F1ED
UniRef90_K0CDY0
UniRef90_A7TEW0
UniRef90_UPI000314F922
UniRef90_UPI00000880D7
UniRef90_W71PP3
UniRef90_X4Z1Q5
UniRef90_K9PX87
UniRef90_C7Z1K0
UniRef90_B4LDS1
UniRef90_UPI00036534E7
UniRef90_Q5YNI6
UniRef90_UPI000369B47
UniRef90_M1V6N7
UniRef90_M8BC19
UniRef90_L8LT84
UniRef90_Q13I77
UniRef90_I1AZ59
UniRef90_K9X1M1
UniRef90_D1BLJ3
UniRef90_M4Z441
UniRef90_K2CX08
UniRef90_UPI00028985FF
UniRef90_UPI00036BD588
UniRef90_K2R6D1
UniRef90_UPI0004700C45
UniRef90_T0FA53
UniRef90_UPI0004725967
UniRef90_A3VIV1
UniRef90_X5A101

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

UniRef90_Q1GLB9 H A L G A D 50 F E F H Y S I K S R A L G G Y L R D L A D V P W A S K V N L H 80
UniRef90_A0A031LS60 L N N N K S F E L H Y C A A S S K Q T A A F V D E I K Q G P L A S Y T T F H
UniRef90_J0M594 L V Y G N R S S A S M M F R Q T L A D L K D R Y F R D R L L Q
UniRef90_Q493N4 S A D S A S G K N W L F F G N L R F I D D F L Y Q I E W Q R Y P Q R D G L L
UniRef90_S9V9J5 L T D E S D K T K L S L L F C N R T E K H V L L K G V F D D L A E R Y H K R F R
UniRef90_W0SDZ3 R R A G E N A G R D L M L F F G A R S H G E L P Y F G P L T K L P K E F
UniRef90_U5EHD5 L D R R G V T D R V H V H S A P T D A D V M F G A E L R A L H D K H P S F V S
UniRef90_UPI0002559B6A F A N R P L Y G H I H I I Q G V K H S T D L L W R S R Y E Y W A Q Q P K T T
UniRef90_Q9URY5 L L D G R K V N F C Y S S R N Y V S R P F K Q W L E S L K L K Y K E N L K
UniRef90_UPI00037E3DE6 P G E V T L L Y R A H S A E D L A L A E E L E S I A R W R G A K V L
UniRef90_H6L310 R S L E K T P E K A V F F Y G C R A K E V D Q L Y A E E F A Q W E K E G W L D L
UniRef90_D7FWK8 D D D G V F G R S C K L Y W G C R D A E S M P W K D R V E A W D K R G V E
UniRef90_W7Y8G5 N P D L D Y R I V H G V R T A S E G Y E K D E Y D A S
UniRef90_D8JXU3 V A T G A K G K S W L F F G E R N F T N D F L Y Q L E W Q D Y L S S G D L T R
UniRef90_W9ASR0 L A A G A P Y A P A L C F F G V D R T P D V D Y L F R D Q F D L A E D L G L V R M
UniRef90_R7WRE3 A A R E R Q P K V F L F A A D R T P Q D L Y A A D M L C L L V Q Q L P W L T V
UniRef90_W4CRR6 E E Q G A E G P S W L F Y A D R H F V T D F L Y Q T D W Q R M L K D G V L S R
UniRef90_W9TFW9 Q A R G A S F E L H Y A F R G R L T D A Y V G E L A E R L G E
UniRef90_M2ZAC4 A R R P D P P Q T F L F V G G R T P R D L Y A A D M L L L L A E A L P W L T V
UniRef90_A3SLM8 A R M Q A P F E L H Y A A R S R A E A A G L A F L P S A P N I H L H I S D
UniRef90_A0K1X7 T P F A P G Q A T V I L R G R S Q E L Y L G D E I L E L A R N R G A T L F
UniRef90_X1BXA6 N K D G K I A S N R L F F S N K S T Q D I L I E N E L R E L L P P E N L V L S
UniRef90_X0SJT1 E A A S A D W R L L Y G G R I R T S M A F A E E L V A R Y P G R I E
UniRef90_F2L978 E A G S P R R H F L H A C R S G R V H A F R D W L N A L V A R H S N A T R
UniRef90_W6W7Q2 A D L D L P H D V V F H H S A R S T E D L P F T E E L L L L K R Q M G D R L K
UniRef90_K8F2G6 T V R S E P G A E T W L I Y G C R T R S N E L Y A Q D M R R A E Q S G H L T K Y
UniRef90_H1SBC8 E A N G R P W Q L L Y C M R S C R A A Y L D M L S R Y G D R V Q
UniRef90_I4BD80 L S R F A V N R P V H L F F G A K H P C E L Y D L R T L W E I A S T N P W L S V
UniRef90_A2C882 F E P T E R R G K A W L F M G A P Y T A N L L Y D D D F E R Y L R E F P D N F I
UniRef90_A0A058YJ50 R E L G I D Y E L H Y S G R S R A C M A M L D E L A A L H G E R L H
UniRef90_UPI0003771E9D L G Q G H T G P I H L F H G S R D L D G L Y L T G E L H D L V R Q Y T N F N Y
UniRef90_UPI00047C184E E Q P W Q R F D R L V L V H A V R Q A E E L A Y D E T I R D F A Q Q H D K Q F R
UniRef90_F1Z348 Q A Q G A G G A N W L F F G E Q H A A S D F Y H D E I E A W H R D G H L D R
UniRef90_W1T139 L E K N P N R E I S I Y W G G R E L Q H L Y D L G E L Q A L N E S Y P N L A
UniRef90_V7M619 R A L G H R G P N W L F F G E Q H A A T D F Y Y R D E L E Q M R E D G F L T
UniRef90_D5C0C2 R E V T E A S G R N W L F F G E Q H F H T D F L Y Q R E W L D Y R K N G L L T R
UniRef90_B2T481 R A R G D R G R N W L F F G E Q H A A S D F Y Y R D E L E S M R D T G V L T R
UniRef90_B0CBF3 F Q E K H P K G N A W L F F G V P Y T A N L L Y K E Q L E A L A T Q F S D Q F Q
UniRef90_C8N9T0 V A R E A P G K N W L V F G N A H F T E D F L Y Q T E W G W Q K D G F L H
UniRef90_W1N5G4 L K R G R Q V C Y V H A R D A H H A F R N E V S T L G K A Y P G Q L T
UniRef90_G8RY64 T R K A V N P R V H L F F G T R F P C E L Y D L H T L W Q I V S Q N P W L S V
UniRef90_A0A059NYT3 R E E T E S S G K A W L F F G E Q H F V T D F L Y Q I E W Q R W L K E G N L T K
UniRef90_UPI0003959BFB I N O G I Q S P I F I Y W G A R N P C Q L Y A H D E L Q A L S E S H R N I T
UniRef90_N4USH2 K K Q G K K V G K S L L F F G C R R R D E D Y L Y E S E W Q E H K N T L G D S F
UniRef90_UPI00040E918 K D N G H K L A E A H L Y F G C R H P E E D F L Y R D E L E Q A H E E G L T
UniRef90_F7RIW5 D E P W Q R F E K I L L V Y G V R E A K D L A Y L D K D L R A Y E Q H Y P N Q F L
UniRef90_N6XAR6 Q A A P E Q A P E A D F Y Y C V R D R E S D P F V A R L D T L C A Q L P
UniRef90_R8AMA0 A A E G A G G P N W L F F G N P H F T E D F L Y Q V E W Q R W V K E G V V S
UniRef90_E1VH81 I E S G A A G R N W L F F G A C H F F D T Q F L Y Q T E W Q D A L K K K H L N
UniRef90_UPI0003785014 L V N H S N K V T L I Y G N R S H S T V I F K E A L E K L K K D Y P D R F T
UniRef90_Q7UW66 L N E R T D R D V N L F Y G V R N A V D A P F L A P I R E I A K M L E A T T G
UniRef90_B2IEL3 I A E A P E R K I R L F Y G A R T Q A D L F W T E R F E A L A K Q L P D F R F
UniRef90_UPI00046352EB R A L G H R G P N W L F F G D Q H R T Q N F Y Y R E D L Q D M V D D G F L N
UniRef90_F4AHT2 R E A Q E A E G K N W L F F G N P N Y T Q D F L Y Q T E W Q R F V K D G V L N K
UniRef90_R4X1D1 R A L G I D Y A V H Y S G R A R T S M A L L D E L R A L H G R
UniRef90_V9D2F0 A E R G E D V G Q T V L F Y G C R R Q S E D W L L Y K A E W D E Y K A L G D K L
UniRef90_C5AM81 A D Y Q E M A D A R L F F G V N H E S E L F M L D E L E R L R A A L P Q L R
UniRef90_W9WVY3 K E S G E N F T L H L J A V R S T H K V P F R E R L S A L P G K S L V
UniRef90_C8RSM3 I Q S E E R P P M V Q L F F G A Q N P D E L Y E W Q G L V G F E D A F D W L D
UniRef90_UPI000465B5DE V V N K P Q C D I R V I F N V T P A D V I F A E E Q W Q R L C A A H P Q L Q
UniRef90_UPI000348FB0A F K D N E K K G F S W L I F N V P T S P N I L Y K E E L E E M Q Q Y P D N F R
UniRef90_Q12EU3 H A L G S A F A L H Y F A R S R D R V A F L A E L Q N S G F A R N V V L H
UniRef90_UPI000371F1ED E A A G K P W N L F Y G G R E E A S M A F R A E L T P Y G D R
UniRef90_K0CDY0 V L I Q R R L P D T V H I H Y A P H E F D T I F G K A L R E L S A E Q C
UniRef90_A7TEW0 V K A N P A R P I Y W I Q S S K D E T T Q A F K K H V D A L L
UniRef90_UPI000314F922 I A D G T E H V N L T I L Y G S R Q H D H L L L A P E F S K I L S K T N D V K L
UniRef90_UPI00000880D7 K R K G L R G S R M T L V F G C R R P D E D H L Y R E E M L E M A S Q S G V L H E
UniRef90_W71PP3 Q R R D A L D D V V H V H S A R T E N D M I F G T M L R T A E R A P G Y R L
UniRef90_X4Z1Q5 A A Q E R S F E L H Y C A R T A G H A A F V D E L R A L L P E G R L H L H
UniRef90_K9PX87 F K E H E R G K A W L I F G V P Y T A N I L Y K D D D F E K M A A D Y P D N F Q
UniRef90_C7Z1K0 T D G E H D V D V R V L Y A S K V P K E R I A G W F A Q G K L K G E L K V F A T
UniRef90_B4LDS1 L H Q G H D T G P L V V F G C R N A K D Y H F M E D F K A W Q V D Q S V E V H
UniRef90_UPI00036534E7 E R R R Q H T D I V L I H S A P T A L D V M F A E E L E R F E S Q
UniRef90_Q5YNI6 S Q R G V N P R V H F F I G G R Y P C D L Y D V E N M W Q L S Q S N P W L T I
UniRef90_UPI000369B47 H H A G A D W C L W Y G G R S R D S M A F R D E L A A Y G D R V R
UniRef90_M1V6N7 F A D Y Q F K G K M L Y L G V P T S S S L L Y R D E L E E M K A N A P D Q V E
UniRef90_M8BC19 F G E N E K I D V S L F Y G V R N L Q R M A Y Q E R F S D W E S R G I K
UniRef90_L8LT84 F K E K H E K G F A W L I F G L P L T A N L L Y K E E L E E Q R E F G D H F R
UniRef90_Q13I77 E A R G A Q S W L L Y G G R H R S S M A F A A L E A Y G E R
UniRef90_I1AZ59 S E A D S R D I H L I H C V R T Q E E A I G V E T L R A A A A R N P
UniRef90_K9X1M1 F N D A E K K G F S W L I F G V P T P N L L Y K E E L E I Q Q K Y P E N F R
UniRef90_D1BLJ3 Q K G E E A Q V I L G F R N E S E T F W A D L F K D T P V Q
UniRef90_M4Z441 E F L G R R W D L F Y A A K A R A A A A F L D E I G S L R P N V H L N L Q
UniRef90_K2CX08 L D N N K K L P I A W F Y S N K E L D V Y K D L D E A E K K L N I K T I
UniRef90_UPI00028985FF A I Q K A T G R S W L F F G D Q H E A T D Y L Y R D E L E K Y Q Q D G V L T K
UniRef90_UPI00036BD588 A A P W S R F E K V V L G Y S V R T R G E L S Y G T I Q E I R Q R H P T Q F Q
UniRef90_K2R6D1 H A M G K D V G R M L L F F G C R H P D E D Y I Y R E E L E K C H E L G G K M
UniRef90_UPI0004700C45 A D T Q R S V D V A M I H S A K H R P D K S L T H L R A Q T L S G F K F S L M L T
UniRef90_T0FA53 L E H K Q F S G N I T L V Y G A P Y S D E L V M L D Y L K N L E A K Y K H F K L
UniRef90_UPI0004725967 L A N G T E F E L H H Y E Q R S R V A F L D E M T C G S L K E H
UniRef90_A3V1V1 D K K G K M L R I I Y V S R S A E E S A Y L D E L M K D F E G R I
UniRef90_X5A101 E E T G A Q G K T W L F Y G D Q H F S T D F L Y Q V E W Q R W L K E G V L T R

UniRef90_Q1GLB9
UniRef90_A0A031LS60
UniRef90_J0M594
UniRef90_Q493N4
UniRef90_S9V9J5
UniRef90_W0SDZ3
UniRef90_U5EHD5
UniRef90_UPI0002559B6A
UniRef90_Q9URY5
UniRef90_UPI00037E3DE6
UniRef90_H6L310
UniRef90_D7FWK8
UniRef90_W7Y8G5
UniRef90_D8JXU3
UniRef90_W9ASR0
UniRef90_R7WRE3
UniRef90_W4CRR6
UniRef90_W9TFW9
UniRef90_M2ZAC4
UniRef90_A3SLM8
UniRef90_A0K1X7
UniRef90_X1BXA6
UniRef90_Q0SJT1
UniRef90_F2L978
UniRef90_W6W7Q2
UniRef90_K8F2G6
UniRef90_H1SBC8
UniRef90_I4BD80
UniRef90_A2C882
UniRef90_A0A058YJ50
UniRef90_UPI0003771E9D
UniRef90_UPI00047C184E
UniRef90_F1Z348
UniRef90_W1IT39
UniRef90_V7M619
UniRef90_D5C0C2
UniRef90_B2T481
UniRef90_B0CBF3
UniRef90_C8N9T0
UniRef90_W1N5G4
UniRef90_G8RY64
UniRef90_A0A059NYT3
UniRef90_UPI0003959BFB
UniRef90_N4USH2
UniRef90_UPI00040EE918
UniRef90_F7RIW5
UniRef90_N6XAR6
UniRef90_R8AMA0
UniRef90_E1VH81
UniRef90_UPI0003785014
UniRef90_Q7UW66
UniRef90_B2IEL3
UniRef90_UPI00046352EB
UniRef90_F4AHT2
UniRef90_R4X1D1
UniRef90_V9D2F0
UniRef90_C5AM81
UniRef90_W9WVY3
UniRef90_C8RSM3
UniRef90_UPI000465B5DE
UniRef90_UPI000348FB0A
UniRef90_Q12EU3
UniRef90_UPI000371F1ED
UniRef90_K0CDY0
UniRef90_A7TEW0
UniRef90_UPI000314F922
UniRef90_UPI00000880D7
UniRef90_W7IPP3
UniRef90_X4Z1Q5
UniRef90_K9PX87
UniRef90_C7Z1K0
UniRef90_B4LDS1
UniRef90_UPI00036534E7
UniRef90_Q5YNI6
UniRef90_UPI000369B47
UniRef90_M1V6N7
UniRef90_M8BC19
UniRef90_L8LT84
UniRef90_Q13I77
UniRef90_I1AZ59
UniRef90_K9X1M1
UniRef90_D1BLJ3
UniRef90_M4Z441
UniRef90_K2CX08
UniRef90_UPI00028985FF
UniRef90_UPI00036BD588
UniRef90_K2R6D1
UniRef90_UPI0004700C45
UniRef90_TOFA53
UniRef90_UPI0004725967
UniRef90_A3VIV1
UniRef90_X5A101

90 100 110 120

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

UniRef90_Q1GLB9
UniRef90_A0A031LS60
UniRef90_J0M594
UniRef90_Q493N4
UniRef90_S9V9J5
UniRef90_W0SDZ3
UniRef90_U5EHD5
UniRef90_UPI0002559B6A
UniRef90_Q9URY5
UniRef90_UPI00037E3DE6
UniRef90_H6L310
UniRef90_D7FWK8
UniRef90_W7Y8G5
UniRef90_D8JXU3
UniRef90_W9ASR0
UniRef90_R7WRE3
UniRef90_W4CRR6
UniRef90_W9TFW9
UniRef90_M2ZAC4
UniRef90_A3SLM8
UniRef90_A0K1X7
UniRef90_X1BXA6
UniRef90_Q0SJT1
UniRef90_F2L978
UniRef90_W6W7Q2
UniRef90_K8F2G6
UniRef90_H1SBC8
UniRef90_I4BD80
UniRef90_A2C882
UniRef90_A0A058YJ50
UniRef90_UPI0003771E9D
UniRef90_UPI00047C184E
UniRef90_F1Z348
UniRef90_W1IT39
UniRef90_V7M619
UniRef90_D5C0C2
UniRef90_B2T481
UniRef90_B0CBF3
UniRef90_C8N9T0
UniRef90_W1N5G4
UniRef90_G8RY64
UniRef90_A0A059NYT3
UniRef90_UPI0003959BFB
UniRef90_N4USH2
UniRef90_UPI00040EE918
UniRef90_F7RIW5
UniRef90_N6XAR6
UniRef90_R8AMA0
UniRef90_E1VH81
UniRef90_UPI0003785014
UniRef90_Q7UW66
UniRef90_B2IEL3
UniRef90_UPI00046352EB
UniRef90_F4AHT2
UniRef90_R4X1D1
UniRef90_V9D2F0
UniRef90_C5AM81
UniRef90_W9WVY3
UniRef90_C8RSM3
UniRef90_UPI000465B5DE
UniRef90_UPI000348FB0A
UniRef90_Q12EU3
UniRef90_UPI000371F1ED
UniRef90_K0CDY0
UniRef90_A7TEW0
UniRef90_UPI000314F922
UniRef90_UPI00000880D7
UniRef90_W7IPP3
UniRef90_X4Z1Q5
UniRef90_K9PX87
UniRef90_C7Z1K0
UniRef90_B4LDS1
UniRef90_UPI00036534E7
UniRef90_Q5YNI6
UniRef90_UPI000369B47
UniRef90_M1V6N7
UniRef90_M8BC19
UniRef90_L8LT84
UniRef90_Q13I77
UniRef90_I1AZ59
UniRef90_K9X1M1
UniRef90_D1BLJ3
UniRef90_M4Z441
UniRef90_K2CX08
UniRef90_UPI00028985FF
UniRef90_UPI00036BD588
UniRef90_K2R6D1
UniRef90_UPI0004700C45
UniRef90_T0FA53
UniRef90_UPI0004725967
UniRef90_A3VIV1
UniRef90_X5A101

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

