

QUERY
UniRef90_U1NW69
UniRef90_J9VF01
UniRef90_UPI0004415300
UniRef90_M9LR24
UniRef90_E4WX38
UniRef90_D3E5S3
UniRef90_A1CE64
UniRef90_B4SAA6
UniRef90_Q0UWPO
UniRef90_F5TB93
UniRef90_T3GIN5
UniRef90_B0K4E0
UniRef90_R9M211
UniRef90_D9TP64
UniRef90_D7E9N0
UniRef90_B9I912
UniRef90_A1BCW3
UniRef90_F7KEW8
UniRef90_W4C261
UniRef90_Q5FIH9
UniRef90_V8FV77
UniRef90_H5T3F6
UniRef90_U6I4J2
UniRef90_A6NPK5
UniRef90_R2RYG3
UniRef90_R0GUC2
UniRef90_U9T0G4
UniRef90_X0PBA2
UniRef90_Q0AXK5
UniRef90_I4D9V8
UniRef90_L8JUY9
UniRef90_I7KWA4
UniRef90_D9QPP8
UniRef90_F4GKF2
UniRef90_R5F905
UniRef90_D8LYW3
UniRef90_M2WEI8
UniRef90_F0K0A2
UniRef90_UPI000477A4B6
UniRef90_Q5KCV6
UniRef90_U2DD38
UniRef90_R7RS00
UniRef90_H5UGD5
UniRef90_W9AH84
UniRef90_S6EJ13
UniRef90_Q9SY55
UniRef90_E6LID4
UniRef90_S0S4H9
UniRef90_A0DU52
UniRef90_T3DJD2
UniRef90_D1JED6
UniRef90_UPI00047CAA83
UniRef90_UPI00041A7C9C
UniRef90_Q2FLR0
UniRef90_X1LXU8
UniRef90_UPI0004646120
UniRef90_Q8RBR6
UniRef90_H3NL07
UniRef90_K9T982
UniRef90_UPI000289DC7F
UniRef90_F4BZH1
UniRef90_M5BTS3
UniRef90_G4SVP4
UniRef90_S6BTU6
UniRef90_F5WUM2
UniRef90_X1LQ70
UniRef90_C1FI12
UniRef90_A9WJZ0
UniRef90_T5LT10
UniRef90_D5E6P8
UniRef90_K5UD63
UniRef90_M5DFQ7
UniRef90_D4YGK4
UniRef90_L0L0K5
UniRef90_UPI0003650D4E
UniRef90_UPI00047EAB78
UniRef90_G5L167
UniRef90_UPI00035D675B
UniRef90_UPI00046A04CE
UniRef90_XOUME8
UniRef90_R5Y4Z3
UniRef90_I0JKU6
UniRef90_R6LGF0
UniRef90_G5HI55
UniRef90_B2A2J4
UniRef90_S0NQV1
UniRef90_F4XLU4
UniRef90_V6Q2I0
UniRef90_G2QFR6
UniRef90_Q67L48
UniRef90_UPI00047EC717

1 10 20 30 40
E M G K V Y R A D R K S V Q R M I K A R N E D L V P G D I V E V A V G D K V P A D L R
UniRef90_U1NW69 Q A T V L R R D N G G E A T V K I R A N E E L V V P G D I V E V A V G D K V P A D L R
UniRef90_J9VF01 D E A K V V L R R D D G G E W T V K I R I H A T E E L V V P G D I V E V A V G D K V P A D D C R R
UniRef90_UPI0004415300 L A K V V L R R D D G G M L Q Q Q R I N A K A T E L V V P G D I V E V A V G D M I P A D D A R R
UniRef90_M9LR24 E T T A K V I R R A D D G R K Q V V Q Q L Q T A R E L V V P G D V I V I V A V G D K R I P A D D L V R R
UniRef90_E4WX38 T S K V I R R D D G K V V Q Q L K N A S E D L V V P G D V I H V A V G D R I V P A D D C R R
UniRef90_D3E5S3 A T V V R R N G G E V T K R I K N A S E D L V V P G D V V M L V A A G D R I V P A D D A R R
UniRef90_A1CE64 L A K V R R E D G G E H E V L I T R V K A S A D D L V V P G D V V L L E A A G D R I V P A D D C R R
UniRef90_B4SAA6 L A K V R R E D G G E H E V L I T R V K A S A D D L V V P G D V V L L E A A G D R I V P A D D C R R
UniRef90_Q0UWPO M A K V Y R R D D G K L L H I P S P E I V V G D I V E L E E T G D I P A D D L R
UniRef90_F5TB93 A K V I R R D D G K K M T I P A K N E L V V G D I V F L E E A G D Y I P A D D L R
UniRef90_T3GIN5 A R V I R R D D N G K T V Q V I P A R E L V V G D I V L L E E A G N Y V P A D D L R
UniRef90_B0K4E0 Q A R V I R R D D R K D V L V I E S K Q Y L V V P G D I V K L E E A G D Y V P A D D A R R
UniRef90_R9M211 A T V L R R D D G K V I E I E S Q Y L V V P G D V V F L E E A G S R F I V P A D D G R
UniRef90_D9TP64 E S G K V L R R D D G Y M M P E I P A S E L V V P G D I V E L R V G D K V P A D D M R
UniRef90_D7E9N0 L A R V M R D D G K E A V I I N A S E L V V P G D I L L L E A V G D R N I A D A D A R
UniRef90_B9I912 L A R V T R D D G K E V V I I N A S E L V V P G D I L L L E A V G D R N I A D A D A R
UniRef90_A1BCW3 A K V L R R G G K N S E I I I P A K M L V V P G D I V L L E E A G D R I P A D D V L R
UniRef90_F7KEW8 M A H V L R R G G K C E K V I P S R E L V V G D I V L N L H D G D M V S A D D L R
UniRef90_W4C261 V A K V F R N G G Q K I E I I P S R E L V V G D I L Y L D A G D Y V S A D D G R
UniRef90_Q5FIH9 Q S C L V L R D D G K I E K R I D A E K L V V G D L V A L K V G A M I P V D A R
UniRef90_V8FV77 E L A K V Y R K K H H G I I Q R K A S T V S L V P G D I V E V E S V G D M V V A D V R
UniRef90_H5T3F6 Q T A L V I R D D G G V R T T Q S E I I N A S E L V V G D V L V L E E A G D M V T A D D A R
UniRef90_U6I4J2 Q Q A T V M R D D G T K V S S K T H A K E L V V P G D I V E I R V G D K I P A D D M R
UniRef90_A6NPK5 D E A K V L R D D G G H K V S F K I H A K E L V V P G D I V E I A V G D K I P A D D S R
UniRef90_R2RYG3 M A T V M R N D R R Q T T V K S E E L V V G D I V L L E E A G D V V P A D D I R
UniRef90_R0GUC2 A L V L R E G R R V I K R I P A S E L V V P G D I V F L E E T G D K V P A D D L R
UniRef90_U9T0G4 A R V L R E G R R V I K R I P A S E L V V P G D I V L L E E A G D R I P A D D V R
UniRef90_X0PBA2 R V I R D D G T V K E I A A K Y L V V G D I V V M E T G N I V P A D D V R
UniRef90_Q0AXK5 L A V V R R D D G G L S K E I P T R D E L V V P G D I V L Y L E A G R F V P A D D G R
UniRef90_I4D9V8 A V V L R D D G R S M V I I D A V S L V V P G D I V L L E D A G D M P P A D D A R
UniRef90_L8JUY9 A R V L R D D G R S M V I I D A V S L V V P G D I V L L E D A G D M P P A D D A R
UniRef90_I7KWA4 L A V V R R D D G R S M V I I D A V S L V V P G D I V L L E D A G D M P P A D D A R
UniRef90_D9QPP8 A R V L R D D G R S M V I I D A V S L V V P G D I V L L E D A G D M P P A D D A R
UniRef90_F4GKF2 E K A R C L R N G G V V N P M T N L V P A E Q L V V P G D I V L L E N V G D K V P A D D C R
UniRef90_R5F905 Q A R V L R D D G G T L S Q V I D A T T L V V G D V V E L E E A G D V V P A D D G R
UniRef90_D8LYW3 A R V R R D D G A V T E V P A T E L V V G D V V L E E A G D V V P A D D L R
UniRef90_M2WEI8 A T V I R R G G G Q K Q R V I S A S S E L V V P G D I V S L H V G D R I V P A D D C R
UniRef90_F0K0A2 D E A L V L R N G G R L S R V I S A S S E L V V P G D I V S L H V G D R I V P A D D C R
UniRef90_UPI000477A4B6 A R V I R R G G G Q A E I I S D A G E I V I G D I V E L E E A G D R V P A D A L
UniRef90_Q5KCV6 T A K V I R D D G G K Q I I I P A A Q L V V P G D I V Q L E E A G D L V P A D D G R
UniRef90_U2DD38 Q A R V V R G G G V L V E V I P A A Q L V V P G D I V Q L E E A G D L V P A D D G R
UniRef90_R7RS00 L A T V L R N E K W E K I Y S K E E V V G D I V K I T A G D L V P A D D C R
UniRef90_H5UGD5 K A L V K R D D G G E K W E K I Y S K E E V V G D I V K I T A G D L V P A D D C R
UniRef90_W9AH84 A T V L R N G G C F S I I E L P A T E L V V P G D I V E V T V G C K I P A D L R
UniRef90_S6EJ13 Q V T S V L R D D G H I V T E E D D A E E V V G D I V L V L E N G S M I V A D A R
UniRef90_Q9SY55 Q T A T V I R D D G K V E K V I D A E E N L V V G D V L V L E E N G S A I A A D A R
UniRef90_E6LID4 T A M V L R D D G E E W T Q I E A K D L V I G D I V E I K Q G D R I P A D D L R
UniRef90_S0S4H9 A R V M R D D G E E R N V V I A A R E L V V G D A V L L E E G D R V P A D D L R
UniRef90_A0DU52 K V K V L R D D G Y E Q E I I N S K Y I V P G D L I M L E A G E K I P A D A R
UniRef90_T3DJD2 L A H V K R R D D G E W V K V P S K D V V V G D L I K I S S G D R V P A D V R
UniRef90_D1JED6 V A K V R R D D G E I T Q V I E A E E I V V G D I V I V S A G D R V P A D D G R
UniRef90_UPI00047CAA83 A L V I R D S S Q E S S L Y S K K L V P G D I I K L T A G D L V P A D D C R
UniRef90_UPI00041A7C9C M C L V K R Q N R W Q T R P A S E L V V P G D I I K L K A G A D K T P A D D C R
UniRef90_Q2FLR0 A K V L R D D G E E K E V I E A S Q I V I D D V I L L G A G D K V P A D A L
UniRef90_X1LXU8 A K V I R D D G R L T S V I P A S D L V P G D I V S L E T G D I V P A D I R
UniRef90_UPI000289DC7F A K V R R D D G R V V Q E I P S E E V V L G D I V V I E E G G D L V P A D L R
UniRef90_F4BZH1 K A L V K R D D G V I V E I P S E E V V G D I V I V I D A G R Y I P C
UniRef90_M5BTS3 A R V L R D D G T C Q E M R I K S Q E V V V G D I V L V E A G A K V P A D S R
UniRef90_G4SVP4 T A N V I R R D D G G G A E S V P S T E L V V P G D I V V V R T G D V V P A D L V
UniRef90_S6BTU6 A T A L R R D D G N R I G V I P S T E L V V P G D I V I L E P G D K V P A D L R
UniRef90_F5WUM2 Q A R V I R D D G V W E D V P V A E L V V P G D I V R V Q T G D F L E A D V L R
UniRef90_X1LQ70 T A S V V R D D G G E E Q T I N S N D V V V G D L I V M D A G D L V P A D L R
UniRef90_C1FI12 T A S V V R D D G G E E Q T I N S N D V V V G D L I V M D A G D L V P A D L R
UniRef90_A9WJZ0 E T A R C L R A G E W I S D L P A A Q L V V P G D I V E V R T G D R V P A D C R
UniRef90_T5LT10 A T V L R D D G I E Q S V I P A H T L V V P G D V V L L R A G D R V P A D L R
UniRef90_D5E6P8 A T V L R N G Q R K V I I P S R E L V A G D V V L F E A G A R V P A D V R
UniRef90_K5UD63 A D V L R D D N K W L H I P A R T E L V V G D V I K I E S T G D L P A D V R
UniRef90_M5DFQ7 A S V I R N G A R R S I P A A E L V V G D I I H I E P G D T I P A D A R
UniRef90_D4YGK4 H V I R N G G E E K V I E I D S S Q L V V G D V M V L G E G D A I A A D G R
UniRef90_L0L0K5 A R V L R D D G V S K V I L P S R E L V V G D V V L L E S G D R V P A D L R
UniRef90_UPI0003650D4E K A R V I R D D G K P I D V P V I T D V V P G D V A L L S A G D M V P A D G L
UniRef90_UPI00047EAB78 M A K V R R D D G D V V I E L P A E Q I V V G D I V V V D A G D R V P A D G R
UniRef90_G5L167 T A T V L R N G G E N A W L E L P I D K L V P G D I I K L A A G D M I P A D L R
UniRef90_UPI00035D675B A Q V L R D D G E R R E I P A E Q L V V G D L V M L A S G D K V P A D L R
UniRef90_UPI00046A04CE A K V M R N G I L T V I V N S E N L V P G D I F L L K P G D K I P A D A R
UniRef90_XOUME8 A N V M R D D G V K Q T I E A R E L V M G D L V Y L E A G D Y V P A D G R
UniRef90_R5Y4Z3 T A K A L R D D G Q I V I Q P G R E V L V P G D V L L E A G D S V C A D G R
UniRef90_I0JKU6 A R V I R E G L L C I P S S M V V P G D V L L E T G D L C A D G R
UniRef90_R6LGF0 A N V L R D D G H S V T I E V S S T E L V P G D V L L E A G D V V P A D M R
UniRef90_G5HI55 K V R V L R D D G R T L E I V S S P Q L V P G D I M L E A G V V V G A D G R
UniRef90_B2A2J4 A N V L R D D G H S V T I E V S S T E L V P G D V L L E A G D V V P A D I R
UniRef90_S0NQV1 T C K V L R G G Q A D T I K A E A L V P G D I V R L G V G D L V P A D L R
UniRef90_F4XLU4 C K V R R D D G R V I E I D A T R E L V P G D I V V L E A G D L V P A D L R
UniRef90_V6Q2I0 A T V V R G G S R I D I D A G E L V P G D V V I L E A G D K V P A D M R

QUERY
UniRef90_U1NW69
UniRef90_J9VF01
UniRef90_UPI0004415300
UniRef90_M9LR24
UniRef90_E4WX38
UniRef90_D3E5S3
UniRef90_A1CE64
UniRef90_B4SAA6
UniRef90_QOUWP0
UniRef90_F5TB93
UniRef90_T3GIN5
UniRef90_B0K4E0
UniRef90_R9M211
UniRef90_D9TP64
UniRef90_D7E9N0
UniRef90_B9I912
UniRef90_A1BCW3
UniRef90_F7KEW8
UniRef90_W4C261
UniRef90_Q5FIH9
UniRef90_V8FV77
UniRef90_H5T3F6
UniRef90_U6I4J2
UniRef90_A6NPK5
UniRef90_R2RYG3
UniRef90_R0GUC2
UniRef90_U9T0G4
UniRef90_X0PBA2
UniRef90_Q0AXK5
UniRef90_I4D9V8
UniRef90_L8JUY9
UniRef90_I7KWA4
UniRef90_D9QPP8
UniRef90_F4GKF2
UniRef90_R5F905
UniRef90_D8LYW3
UniRef90_M2WEI8
UniRef90_F0K0A2
UniRef90_UPI000477A4B6
UniRef90_Q5KCV6
UniRef90_U2DD38
UniRef90_R7RS00
UniRef90_H5UGD5
UniRef90_W9AH84
UniRef90_S6EJ13
UniRef90_Q9SY55
UniRef90_E6LID4
UniRef90_S0S4H9
UniRef90_A0DU52
UniRef90_T3DJ2
UniRef90_D1JED6
UniRef90_UPI00047CAA83
UniRef90_UPI00041A7C9C
UniRef90_Q2FLR0
UniRef90_X1LXU8
UniRef90_UPI000464120
UniRef90_Q8RBR6
UniRef90_H3NL07
UniRef90_K9T982
UniRef90_UPI000289DC7F
UniRef90_F4BZH1
UniRef90_M5BTS3
UniRef90_G4SVP4
UniRef90_S6BTU6
UniRef90_F5WUM2
UniRef90_X1LQ70
UniRef90_C1FI12
UniRef90_A9WJZ0
UniRef90_T5LT10
UniRef90_D5E6P8
UniRef90_K5UD63
UniRef90_M5DFQ7
UniRef90_D4YGK4
UniRef90_L0LOK5
UniRef90_UPI0003650D4E
UniRef90_UPI00047EAB78
UniRef90_G5L167
UniRef90_UPI00035D675B
UniRef90_UPI00046A04CE
UniRef90_X0UME8
UniRef90_R5Y4Z3
UniRef90_I0JKU6
UniRef90_R6LGF0
UniRef90_G5HI55
UniRef90_B2A2J4
UniRef90_S0NQV1
UniRef90_F4XLU4
UniRef90_V6Q2I0
UniRef90_G2QFR6
UniRef90_Q67L48
UniRef90_UPI00047EC717

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

QUERY
UniRef90_U1NW69
UniRef90_J9VF01
UniRef90_UPI0004415300
UniRef90_M9LR24
UniRef90_E4WX38
UniRef90_D3E5S3
UniRef90_A1CE64
UniRef90_B4SAA6
UniRef90_Q0UWP0
UniRef90_F5TB93
UniRef90_T3GIN5
UniRef90_B0K4E0
UniRef90_R9M211
UniRef90_D9TP64
UniRef90_D7E9N0
UniRef90_B9I912
UniRef90_A1BCW3
UniRef90_F7KEW8
UniRef90_W4C261
UniRef90_Q5FIH9
UniRef90_V8FV77
UniRef90_H5T3F6
UniRef90_U6I4J2
UniRef90_A6NPK5
UniRef90_R2RYG3
UniRef90_R0GUC2
UniRef90_U9T0G4
UniRef90_X0PBA2
UniRef90_Q0AXK5
UniRef90_I4D9V8
UniRef90_L8JUY9
UniRef90_I7KWA4
UniRef90_D9QPP8
UniRef90_F4GKF2
UniRef90_R5F905
UniRef90_D8LYW3
UniRef90_M2WEI8
UniRef90_F0K0A2
UniRef90_UPI000477A4B6
UniRef90_Q5KCV6
UniRef90_U2DD38
UniRef90_R7RS00
UniRef90_H5UGD5
UniRef90_W9AH84
UniRef90_S6EJ13
UniRef90_Q9SY55
UniRef90_E6LID4
UniRef90_S0S4H9
UniRef90_A0DU52
UniRef90_T3DJD2
UniRef90_D1JED6
UniRef90_UPI00047CAA83
UniRef90_UPI00041A7C9C
UniRef90_Q2FLR0
UniRef90_X1LXU8
UniRef90_UPI0004646120
UniRef90_Q8RBR6
UniRef90_H3NL07
UniRef90_K9T982
UniRef90_UPI000289DC7F
UniRef90_F4BZH1
UniRef90_M5BTS3
UniRef90_G4SVP4
UniRef90_S6BTU6
UniRef90_F5WUM2
UniRef90_X1LQ70
UniRef90_C1FI12
UniRef90_A9WJZ0
UniRef90_T5LT10
UniRef90_D5E6P8
UniRef90_K5UD63
UniRef90_M5DFQ7
UniRef90_D4YGK4
UniRef90_L0L0K5
UniRef90_UPI0003650D4E
UniRef90_UPI00047EAB78
UniRef90_G5L167
UniRef90_UPI00035D675B
UniRef90_UPI00046A04CE
UniRef90_X0UME8
UniRef90_R5Y4Z3
UniRef90_I0JKU6
UniRef90_R6LGF0
UniRef90_G5HI55
UniRef90_B2A2J4
UniRef90_S0NQV1
UniRef90_F4XLU4
UniRef90_V6Q2I0
UniRef90_G2QFR6
UniRef90_Q67L48
UniRef90_UPI00047EC717

90 100 110
K N M L F S G T N I A A G K A R G I V F A T T G V S T E I I G G K I R D Q M
UniRef90_U1NW69 K N C L F S G T N V A S G K A R A G I V F A T T G V S T E I I G G K I R D Q M
UniRef90_J9VF01 V C M V F S G S T N Q I T V K G K A R A V I V T F T T G T G L N G K T T A E I I G G K I R T Q E M
UniRef90_UPI0004415300 T N I L L F S G S T T V T V K G K A R A T A V V V F T T G T G M Q K T T A E I I G G K I H A K S I L
UniRef90_M9LR24 V N M L F S G G C L V T N G R G R A V V V V A T T G T G M K E T T A E M G G K I A S L L M
UniRef90_E4WX38 K N M L F S G S T N V S G G K A L G I V V I N T G T G M Q K D T T A E M G G K I A R D V L M
UniRef90_D3E5S3 K N I G F M G T M V A R G G T K A L G I V V I R T T G T G M Q K D T T A E M G G K I A R D L I
UniRef90_A1CE64 T N I L L F S G T S V V N G H A T A L V V V L T T G A S T A T A E M G G I H E S I L
UniRef90_B4SAA6 K N M V F A G T T V S Y G R A V A M V A T T G G M Q T T A E F G G R I H A T S M L
UniRef90_Q0UWP0 V N M L F S G S T T V V T G R A A T A L V V V L T T G G N T A E F G G D I H A T S I L
UniRef90_F5TB93 E N M A Y S S T I V A Y G R G K G V V V V S T T G G E N T T A E I I G G K I A T T L
UniRef90_T3GIN5 K N M V F S G A V V V Y G R G S F V V V T S T G T G M K T T A E M G M I A E L L
UniRef90_B0K4E0 A N S A F M G T V V T Y G R G S G I V V V S T T G M K T T A E M G M I A E M L
UniRef90_R9M211 I D M V Y S G C S V T Y G T G R A I V C A T T G M E T T A E M G K I A G L L
UniRef90_D9TP64 I N M V Y M G T I V T Y G R G L F V V V T A T T G M D T T A E M G K I A K S I L
UniRef90_D7E9N0 I N L S F A G T F V S E G L G R G V V I A T T G E D T T A E M G K I A Q S I L
UniRef90_B9I912 E N M V F A G T T V V N G S C I C I V I S T T G M K T T A E I I G K I Q K Q I L
UniRef90_A1BCW3 K N M V F A G T S I S Y G R A S A V V V A T T G M A T T A E F G G I A A M L
UniRef90_F7KEW8 A N M L Y S G C S Y G R A S A V V V A T T G M A T T A E F G G H I A G L L
UniRef90_W4C261 K N L G F M G T M V T R G T G R A V V I R T T G M N T T A E M G K I A D L I
UniRef90_Q5FIH9 K N M A F S S T I V T Y G R G Q G V V L A T T G M N T T A E M G K I A D M L
UniRef90_V8FV77 K N M V F S G S F V T Y G R G V V L V T S T G M N T T A E M G K I A N L L
UniRef90_H5T3F6 H N M V F K G C T V V N G R G Q A I V T A T G M Q T T A E M G K I A G L L
UniRef90_U6I4J2 K N M L F S G S T N I A A G K A R G V V V T G T G L S T T A E L G K I A R N Q M
UniRef90_A6NPK5 K N M V F S G S L V T Y G R A V F V V V T G T G M D T T A E L G K I A G L M
UniRef90_R2RYG3 L N M A F K G C T V V N G R A R G I V T A V G M D T T A E M G K I A G L L
UniRef90_R0GUC2 K C M V F A G T T V V N G N C I C L V I D T T G M D T T A E M G R I H K S I L
UniRef90_U9T0G4 T N I L L F S G T T V V L G K G R A I V V V K T T G S M G T A E I I G K I H K S I L
UniRef90_X0PBA2 K N L G F M N S N V T S G R G T G V V I G T T G M N T T A E V G K I A H M L
UniRef90_Q0AXK5 I N M A F M G T V I T R G R A G A V I V T T G M N T T A E V G Q I A K M M
UniRef90_I4D9V8 R N M G Y M G T S V V N G R A G A G V V V A T T G M D T T A E M G V I A G M I
UniRef90_L8JUY9 V N M A Y M G T V I T L G R C K A V V V R T T G M N T T A E L G K I A N M I
UniRef90_I7KWA4 K N M A F M S S M V T Y G R G K G V V V A T T G M K T T A E M G K I A N M L
UniRef90_D9QPP8 T N M V Y M G T T V Y K G R A K V V I T D I G L E T T A E M G Q I A N M L
UniRef90_F4GKF2 F N M V Y S G C S I S Y G R A R A V V T G T G M E T T A E M G K I A S L L
UniRef90_R5F905 T N M V F S G S L V T S G R A V A V V A T T G M N T T A E I G K I A V L M
UniRef90_D8LYW3 V N M L F A G T T I A N G L C K A L V V V R T T G M N T T A E I G K I Q R
UniRef90_M2WEI8 S N M V F Q N T S I T R G T A T M V V T D T G M H T T A E M G R I A S M L
UniRef90_F0K0A2 I N M A Y S S T N V T Y G R G E G V V V A T T G M N T T A E V I G I A K M L
UniRef90_UPI000477A4B6 L N L A Y A S T L V T Y G T A T G V V I A T T G D R T T A E I G H I N E L I
UniRef90_Q5KCV6 T N M L F S G T I V V N G A A K A L V V L T G S R T T A I G A I H S S I L
UniRef90_U2DD38 H N M V Y S G C S V T S Y G R A T A L V T S T T G M S T A Q M G K I A A L L
UniRef90_R7RS00 S N Y I Y M G C T I T N G R A L A K V V A T T G M N T T A E M G K I A N M L
UniRef90_H5UGD5 S N M L F Q N T S V T R G T A T M V V T E T G M R T T Q M G Q I A S M L
UniRef90_W9AH84 V N M G F M G T L V T R G S G I V V A T T G M D T T A E V M G Q I A S L M
UniRef90_S6EJ13 H N M A F M S T L A T Y G R G N G I V V A T T G M D T T A E I G K I A K M L
UniRef90_Q9SY55 K N I L F S G T D V V A G R R A V V I G V G S N T A M G S I H D S M
UniRef90_E6LID4 L N M V F K G C T V V N G R A R A I V T A T T G M D T T A E M G K I A S L L
UniRef90_S0S4H9 L N M V F K G C T V V A A G R G K A I V T A T T G M D T T A E M G K I A G L L
UniRef90_A0DU52 I N F L F S G T L V S N G T A I G V V C N T T G M R T T A E I G K I Q K E
UniRef90_T3DJD2 S N M A Y S S T I V T Y G R G V G V V V A T T G M D T T A E V I G N I A V L L
UniRef90_D1JED6 R C M A F S T F I T R G S S K G V V V G T G E H T T A E V G R I A V L M
UniRef90_UPI00047CAA83 F N M V Y M G T D L L S G R G K A L V V N T T G M N T T A E I G K I A T M I
UniRef90_UPI00041A7C9C R N M L F M G T L S S R G S G E G I V V G T T G M N T T A M G Q I A S L L
UniRef90_Q2FLR0 F N M A Y M N T N V T R G H G E L L V T D T G M N S A M G H I A T M L
UniRef90_X1LXU8 K N M L L S G T A I T R G R C T A V V I G T G Q N T T A E I G K I A S M I
UniRef90_UPI0004646120 L N Q L F M S T S I T K G N G I A I V T A T T G M Q T T A E M G K I A Q L M
UniRef90_Q8RBR6 R N M V Y M G T V V T K G K G K A V V T A T T G M Q T T A E M G K I A G M M
UniRef90_H3NL07 D N Y V H S S I I T R G R A I G V V A Q T T G H N T T A E I G K I A T N I
UniRef90_K9T982 T N M L F K G T A L T R G T G E G V V V A T T G M D T T A E L G H I S S L
UniRef90_UPI000289DC7F K N M V F M S T L A T Y G R G I G I A V A T T G M D T T A E I G K I A K M L
UniRef90_F4BZH1 D N I L F A G T V V T Q G R C K A V V F A T T G M D T T A E M G K I A H Q I
UniRef90_M5BTS3 T N M A F S S T T V A K G R A R G I V V A T T G M H T T A E Q I G R I A A A L
UniRef90_G4SVP4 F S M A Y S G T M V A A G H G A K A I V V A T T G A D T T A E I G R I S G M L
UniRef90_S6BTU6 T N M G F S G S M I T A G N G Y G V V V A T T G M E T T A E L G K I A K L M
UniRef90_F5WUM2 K N M A Y S S G M V T Y G R G Q G V V V A V I G M D T T A E V G K I A T M L
UniRef90_X1LQ70 K N M V Y T G T T V V Y G R G K A V V T S T G M N T T A E F G R I A A M L
UniRef90_C1FI12 E C V L F G G T S V S Q G A C V A A V I D T T G M R T T A E I G K I Q A Q I
UniRef90_A9WJZ0 R N M V Y A G T S I S Y G R G R G V V V A T T G M Q T T A E F G V I A T M L
UniRef90_T5LT10 F D M V Y S G T L V T Y G G N A L G V A V A T T G D K T T A E F G R I G Q M I
UniRef90_D5E6P8 K N M A F A A T L V T Q G G V G Y G V V A T T G P R T T A E I G R I S E L I
UniRef90_K5UD63 I N M G F M T T L V T T G S G L G I V T N T T G M Q T T A E V G R I A G M M
UniRef90_M5DFQ7 H N M I F S G T A A T T G G S G R G V V V A T T G M Q T T A E Q M G H I A H M L
UniRef90_D4YGK4 L N M V F S G T A V T R G K A Q V I V T G T G M E T T A E V G R I S E M M
UniRef90_L0L0K5 K N V S F A G T L I S Q G R G L V V A T T G G N D T A I G A I S K F I
UniRef90_UPI0003650D4E S N A V F M G T V I V S S G S G K M R V I K T G T V T A I G A I A D S L
UniRef90_UPI00047EAB78 L N M A F M N T N V T R G H G E I L V T T T T G M G S E V G H I A H M L
UniRef90_G5L167 D T L C F M G T N V V S G T A Q A V V M A T T G A D T T A E F G Q L A
UniRef90_UPI00035D675B R S M A Y S G T L V A S S G Q A Q R G V V V A T T G A N T T A E I G H I S T L L
UniRef90_UPI00046A04CE R C M A Y S G T L V S S G Q A L G L V V A T T G S A T T A E L G H I G S L L
UniRef90_X0UME8 D N M V Y M G T I V I D G K A K A I T T S T G V K T T A E M G K I A S L I
UniRef90_R5Y4Z3 V N M L F S S L I V T Y G R G K G I V V E T T G M N T T A E V G K I A G I
UniRef90_I0JKU6 R N M V F S S S L V Y G R G T F V V T G T G E E T T A E V G K I A D M L
UniRef90_R6LGF0 K N M V F S G S F V T Y G R G R F L V T A T T G M D T T A E M G K I A L L L
UniRef90_G5HI55 T N M V F S G S L V T S G R A M A V V T A T T G M G T T A E M G K I A S L M
UniRef90_B2A2J4 S N M A F M G T M V S K G T A K G V V T G T G Q D T T A E M G Q I A Y M L
UniRef90_S0NQV1 I N M A Y S N S N V T Y G R G K G I V V N T T G M N T T A E V G K I A G M L
UniRef90_F4XLU4 I N L V F Q G T E V V Y G R G K V L V T G T G M N T T A E L G K I A Q M L
UniRef90_V6Q2I0 V N M G Y M N S N V T Y G R G V G V V T G T G M N T T A E V G K I A T M L
UniRef90_G2QFR6 I N M V Y S G S T V S R G R A T G M V V A T T G M A T T A E V G K I A A L L
UniRef90_Q67L48 V N M A F M S T A V T Y G H G E G V V V A T T G M R T T A E V G R I A D R L
UniRef90_UPI00047EC717 F N M V F S G T S I T S G S R G I V T A T G E Q T T A E L G K I N E S I

UniRef90_E3CJ85
UniRef90_UPI0002DC4119
UniRef90_E6TFS1
UniRef90_R2QR78
UniRef90_Q8TMZ3
UniRef90_CONMY7
UniRef90_AQ01S5
UniRef90_G9NTG8
UniRef90_UPI0004707731
UniRef90_G2WYP0
UniRef90_W4C1N5
UniRef90_T0ISR3
UniRef90_U4KWT1
UniRef90_W4PYJ2
UniRef90_E3GLD8
UniRef90_UPI0004102864
UniRef90_Q6CJ82
UniRef90_UPI0003F85AAB
UniRef90_G8YQ96
UniRef90_W0DRF7
UniRef90_G2XR7
UniRef90_UPI00036DBEAE
UniRef90_K5C141
UniRef90_U4L7W7
UniRef90_Q7XB51
UniRef90_UPI0003140E2E
UniRef90_F0SY88
UniRef90_C0ZJS2
UniRef90_B3QJB0
UniRef90_C1L360
UniRef90_A3CSD5
UniRef90_Q1LC71
UniRef90_R7F7T8
UniRef90_A0A011NP76
UniRef90_Q3MBW3
UniRef90_I2H4L6
UniRef90_UPI00020D9844
UniRef90_M1X3A7
UniRef90_A5DHH7
UniRef90_Q0EYI5
UniRef90_V6F8E7
UniRef90_G4KW24
UniRef90_M2ZTN5
UniRef90_D8GNR3
UniRef90_C5FUH0
UniRef90_A4BEV5
UniRef90_UPI00041BEA17
UniRef90_U5LAQ6
UniRef90_UPI0003338402
UniRef90_W0BE08
UniRef90_W4QAV2
UniRef90_A7HF58
UniRef90_UPI00037E88ED
UniRef90_R6FAY5
UniRef90_K9T8T0
UniRef90_B0BZR7
UniRef90_UPI0003EDAA20
UniRef90_A0B648
UniRef90_G0HZ64
UniRef90_D9PJA8
UniRef90_A0A017SJ15
UniRef90_B115Q7
UniRef90_F8C5Y0
UniRef90_S2XRR1
UniRef90_K6E4G9
UniRef90_F4BM87
UniRef90_UPI0004756291
UniRef90_UPI00035C9398
UniRef90_X1VJR1
UniRef90_B7KCP1
UniRef90_Q0W0P3
UniRef90_U1WQP1
UniRef90_E5WD65
UniRef90_I7J839
UniRef90_G6FXX5
UniRef90_T2REH5
UniRef90_R4MJ27
UniRef90_C2D3V0
UniRef90_M7NXH7
UniRef90_C8NDZ3
UniRef90_A9V756
UniRef90_Q9WV27
UniRef90_F9QDY5
UniRef90_R6MAN4
UniRef90_B6HFG4
UniRef90_UPI0003760E78
UniRef90_E1QYZ0
UniRef90_C4RIW5
UniRef90_A1CFW4
UniRef90_K9WFC1
UniRef90_R7L8U6
UniRef90_W6A7I7

UniRef90_E3CJ85
UniRef90_UPI0002DC4119
UniRef90_E6TFS1
UniRef90_R2QR78
UniRef90_Q8TMZ3
UniRef90_CONMY7
UniRef90_A0Q1S5
UniRef90_G9NTG8
UniRef90_UPI0004707731
UniRef90_G2WYP0
UniRef90_W4C1N5
UniRef90_T0ISR3
UniRef90_U4KWT1
UniRef90_W4PYJ2
UniRef90_E3GLD8
UniRef90_UPI0004102864
UniRef90_Q6CJ82
UniRef90_UPI0003F85AAB
UniRef90_G8YQ96
UniRef90_W0DRF7
UniRef90_G2XRV7
UniRef90_UPI00036DBEAE
UniRef90_K5C141
UniRef90_U4L7W7
UniRef90_Q7XB51
UniRef90_UPI0003140E2E
UniRef90_F0SY88
UniRef90_C0ZJS2
UniRef90_B3QJB0
UniRef90_C1L360
UniRef90_A3CSD5
UniRef90_Q1LC71
UniRef90_R7F7T8
UniRef90_A0A011NP76
UniRef90_Q3MBW3
UniRef90_I2H4L6
UniRef90_UPI00020D9844
UniRef90_M1X3A7
UniRef90_A5DHH7
UniRef90_Q0EYI5
UniRef90_V6F8E7
UniRef90_G4KW24
UniRef90_M2ZTN5
UniRef90_D8GNR3
UniRef90_C5FUH0
UniRef90_A4BEV5
UniRef90_UPI00041BEA17
UniRef90_U5LAQ6
UniRef90_UPI0003338402
UniRef90_W0BE08
UniRef90_W4QAV2
UniRef90_A7HF58
UniRef90_UPI00037E88ED
UniRef90_R6FAY5
UniRef90_K9T8T0
UniRef90_B0BZR7
UniRef90_UPI0003EDAA20
UniRef90_A0B648
UniRef90_G0HZ64
UniRef90_D9PJA8
UniRef90_A0A017SJ15
UniRef90_B115Q7
UniRef90_F8C5Y0
UniRef90_S2XRR1
UniRef90_K6E4G9
UniRef90_F4BM87
UniRef90_UPI0004756291
UniRef90_UPI00035C9398
UniRef90_X1VJR1
UniRef90_B7KCP1
UniRef90_Q0W0P3
UniRef90_U1WQP1
UniRef90_E5WD65
UniRef90_I7J839
UniRef90_G6FXX5
UniRef90_T2REH5
UniRef90_R4MJ27
UniRef90_C2D3V0
UniRef90_M7NXH7
UniRef90_C8NDZ3
UniRef90_A9V756
UniRef90_Q9WV27
UniRef90_F9QDY5
UniRef90_R6MAN4
UniRef90_B6HFG4
UniRef90_UPI0003760E78
UniRef90_E1QYZ0
UniRef90_C4RIW5
UniRef90_A1CFW4
UniRef90_K9WFC1
UniRef90_R7L8U6
UniRef90_W6A7I7

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

UniRef90_E3CJ85 D N L V F A G T T V A N G S A R V V V 100 T E A M Q T E F G K I 110 A D L L
UniRef90_UPI0002DC4119 I N M V Y Q G T E V V Q G R A K M L V V T A T G M Q T E E L G G K I A A L L L
UniRef90_E6TFS1 T S M V Y S G S T L V A A N G R G K V G V V T A T G M Q T E E L G G K I A Q T L L L
UniRef90_R2QR78 L N M L Y K G S T L V V N G R G K A I V T A T G M Q T E E M G G K I A A G L L L
UniRef90_Q8TMZ3 H N M A Y M N T S V T R G R G R G E M I V T T T G M G T T E M G G H I A A D L L L
UniRef90_CONMY7 L N M A Y S S S T V T K G R G R G A I V V F T T G M D N T T E I G G S K I A Q K S M
UniRef90_AOQ1S5 K N M V F K S S F V T E G T A K A I V V E V G M D N T T E K I V G S K I A T K E L L
UniRef90_G9NTG8 L N L V Y T G S S V T R G R A T G I V V I S T G M D T T E V G G Q I A E L L L
UniRef90_UPI0004707731 S C M L Y M G T D I S R R K A L G V V V Q T T G T M D T T A F G G H I M S L L L
UniRef90_G2WYP0 V N I L F S G T T V V V G R A K A V V V L T T G T M D T T A F G G D I H S E S I
UniRef90_W4C1N5 T N M A Y M S S S V T Y G R A I G V V T A T G M Q T T E V G G R I A A
UniRef90_T0ISR3 H N L G F M S S T V V T Y G R G K A I A V V G T A M N T Q V I G G K I A A K M I
UniRef90_U4KWT1 V N M L W A S S T V T K G R G L G L V V A T G M N T Q V I G G K I A A E L L L
UniRef90_W4PYJ2 T N M A F M G T L V T Q G S G L G V V V A T G M K T T E M G G S K I A A H L L L
UniRef90_E3GLD8 T N L V F M G S N V I S S A T A V I I S V G I D D T L F G M A S S S
UniRef90_UPI0004102864 S N M A F M G T M V T R G N G R G V G I V I G T G M K T T E I G G K I A A H L I
UniRef90_Q6CJ82 L N L A F A A S T V T K G R A T G I V I K T A L N T T E I T G K I A A K S L L
UniRef90_UPI0003F85AAB V N M A F K G T L V T N G R G T G L V V G T G M R T T E I G G K I A A G L L L
UniRef90_G8YQ96 L N M V Y S S S V A K G R G K G I V V S T G T G M T T E I G G K I A A Q S L L
UniRef90_W0DRF7 F C M A Y S G T L V T F G R G R G V V V A T G E T T E I V G G R I S A M L
UniRef90_G2XR7 V N I L V Y S S S T V T K G R G R G V V V Y A T G M A T T E I V G G R I A T A L
UniRef90_UPI00036DBEAE S N M A Y S S S T L V T F G T G L G L V V E T G D H T E L G G R I A N R L I
UniRef90_K5C141 K N M L H L G T T I V T G T A R A I V V A T G M K S T E I G G N I A Q M L
UniRef90_U4L7W7 L N M L F S G T T V T V G H A R A V V V L T G A S T E I G G G I H K S I
UniRef90_Q7XB51 T N M S Y S S S T V V K G R G K A I V V S T G M S T E I G G K I A S K A I
UniRef90_UPI0003140E2E T N M V F S S A L V T N G R A S F V V T D I G A K T E I I G G K I A N L L L
UniRef90_F0SY88 I N M A Y S G S S V T Y G R G N G I V V T A T G M N T E I V G G K I A Q H L
UniRef90_C0ZJS2 K N L A F M G T M V T G G T R G S G I V V A T G M S T E I I G G K I A A H L M
UniRef90_B3QJB0 L C M G F S G T L V S A G Q G F G V V V A T G A R S T E I I G G R I S T M I
UniRef90_C1L360 L N M V Y S S T L L T K G R G K G I A V A T G M S T E I I G G R I T K S I
UniRef90_A3CSD5 Q S M L Y A G S T V M T G R S T G I V V A T G Q N T E I I G G Q I A E
UniRef90_Q1LC71 E N M A F S G T M V V S G R A T G I V V V A T G S Q T T E L G G R I N E M L
UniRef90_R7F7T8 K N M V F A G T A V V N G H A E G I V T N I G M D T E I V G G R I A S R M L
UniRef90_AOAO11NP76 S C M A Y S G T L V V F G A G R G V V V A S G G M D A T E I V G G R I G R M L
UniRef90_Q3MBW3 H N M V Y M Q T L V T Y G R G E A V V T E T G M Q T T E L G H I T N M I
UniRef90_I2H4L6 L N L A Y S S S T V V K G R A E G I V T K T G L N T E I V G G R I A K S L L
UniRef90_UPI00020D9844 T N L A F M N A N V T Y G R G V G V V T G T G M D T E I V G G R I A A G M L
UniRef90_M1X3A7 I N L V F R G T E V V Q G R G K A L V T H T G M Q T T E L G G K I A T M L L
UniRef90_A5DHH7 L N L A Y S S S V V S K G R G T G V A I G T G L D T T E I V G G R I A A S S L
UniRef90_Q0EYI5 I N M L Y S A T L V N R G R G R G V V T A T G S S T E I V G G R L A A S M
UniRef90_V6F8E7 S N L A F M N T V V T R G R G E M L I T Q T G A T T E M G R I A A G M L L
UniRef90_G4KW24 K N M V Y S G S F I T Y G R G T F L V T G V I G M D T E M G R I V A A L L L
UniRef90_M2ZTN5 Q N M A F S A T T V T R G R A M F I V V G T G M N T V I T G E I A A Q S L L
UniRef90_D8GNR3 K N M A F M S T L A T Y G R G I G V A V A T G M N T E I I G G K I A A K M L
UniRef90_C5FUH0 L N V C F S S S I V T K G R A R G V V F S T G V I T E I G G S I A T A L
UniRef90_A4BVE5 R C L A F S G T L V T T G H R G R G V V V A T G L T T E I G G Q I S G M L
UniRef90_UPI00041BEA17 R N M A F S G T V V T R G Q A V G V V V A T G M K T E M G K I A H L M
UniRef90_U5LAQ6 E N M A F M G T M I T R G S G V G V V V A T G M K T A M G K I A D L L L
UniRef90_UPI0003338402 T N I V F Y S A A C L E G S A T G M V I N T G D R T V I T G Q I A S L
UniRef90_W0BE08 K N M V F M G T S I T V D G I G R A L V V A T G V Q T E M G H I A E M L
UniRef90_W4QAV2 T N M A F M G T L I T Q G S A V G V V A T G M K T E M G K I A H L L L
UniRef90_A7HF58 R N M V F S G T A I A S G R G R A L V T A T G P A T E I V G K I A A G S L L
UniRef90_UPI00037E88ED H N M A Y A G S F I V S G Q G R G V V V A T A N Q S T E I V G K I S Q S L L
UniRef90_R6FAY5 K N E A F M S T L V T A G R G E G I V T A T G M Q S E L G K V A S M I
UniRef90_K9T8T0 R N A L Y M G T A V T Y G R G E A V V T E T G M A T E I G G R I A S A I
UniRef90_B0BZR7 H N M V Y M G T A V T Y G R G Q A V V I D T G M K T E L G Q I A A A I
UniRef90_UPI0003EDAA20 L G M G Y A G T L V T Y G Q A R A V V V A T G A T T E I G G R I G R M L
UniRef90_A0B648 S S M V F M G T M V I Y G G N A K A V V T S T G S D T E I I G G R I S G M I
UniRef90_G0HZ64 R N M A Y A G T V V N R G R G R G V V V E T G A D T V V G R L A E
UniRef90_D9PJA8 P N I V F A G T T V S S G S G K A V A Y A T G M T T E F G G I A H L L
UniRef90_AOAO17SJ15 L N I V Y S S S T V T R G R A R G V V V G T G M K T E I G G A I A A A L L
UniRef90_B115Q7 K N M A Y L I G T V V T Y G R G S G V V V S T G M D T E M G T I A T L L L
UniRef90_F8C5Y0 N N I A F A G A T V V S G S G K A V V F A T G M T T E F G G I A H L L L
UniRef90_S2XRR1 T N M V F S G S F V T Y G R G S F L V T G I G M E T E I V G K I A T L L L
UniRef90_K6E4G9 R N M A F M S T L S S Y G R A I G I V V N T G M Q T E I G K I A N L L L
UniRef90_F4BM87 P N L L F M G T D V L S G Q G K V V V K T G E A D T L F G D I A A Q
UniRef90_UPI0004756291 T N L A F S G T L V T H G G M G T V I A T G A T E I I G R I S T L L L
UniRef90_UPI00035C9398 R G M A F S G T L V A F G R G M G V V V A S G E H T E I G R I S T M L L
UniRef90_X1VJR1 K N S V F M A T H V T Y G G Q K A M I T S T G M G T E F G K V A E M
UniRef90_B7KCP1 I N M V Y R G T F V T Y G G Q G A V I V A T G K N T E M G K I Q S L L
UniRef90_Q0W0P3 D C M L Y A G T I V T A G R C R A V V V S T G M N T E I G R I A S L L
UniRef90_U1WPQ1 K N M C Y M G S T V V Y G R G R A V V V A T G M Q T E M G K I A D A I L
UniRef90_E5WD65 E N M A F M G T M V T R G N G L G V V V G T G M N T A M G Q I A D L L L
UniRef90_I7J839 K N M I Y S S T T V S V I G N A L A I V T A T G M S T E I G N I Q S
UniRef90_G6FXX5 K N M A Y A G G F V T F G G A M G I V V A T G N A T E T G R I S Q L M
UniRef90_T2REH5 V N M V F G G T L V A Y G R G I M V V T T I G D K T E M G K I A Q N I
UniRef90_R4MJ27 R N I A Y S G T L V T A G H G A G I V V A T G A E T E L G E I H R L L
UniRef90_C2D3V0 N N I V F A G T T V T S G T A S G I V F A T G M T T E F G G R I A Q S L L
UniRef90_M7NXH7 L G M G F A S T I T Y G Q A R G I V V A T G D A T E I V G K I Q Q S L L
UniRef90_C8NDZ3 E R F V F M G S N V V S G S A L A V I L V T G N D T M I G R I E K T L L
UniRef90_A9V756 S C I A F N G T L V T Q G S G V G V V A T G D E T F L G R I A G L L
UniRef90_Q9WV27 R N I I F F S T N C V E G T A R G I V I A T G D Y T V M G R I A S L L
UniRef90_F9QDY5 T N I I F S G T Y S T N G R A L A V V Y S V G K K T E I G K I N N L I
UniRef90_R6MAN4 K N I L S S T S V T G G K A T A I V T G T G M N T E V G H I A N M L L
UniRef90_B6HFG4 T N M A Y S G C S T T Q G R A M G I V T A T G M N T E V G K I A Q L L L
UniRef90_UPI0003760E78 P G C A Y S G T L V V R G D G V G E V F A T G V A T E I G K I G H M L
UniRef90_E1QYZ0 K N M C Y M G S T V V F G R G R A V V V A T G M Q T E M G K I A G A I
UniRef90_C4RIW5 R N M V Y S G T L V T A G S G A G I A V A T G A E T E I G G Q I H R L L
UniRef90_A1CFW4 T N M A Y S G C S L T Q G R A I G L V T A T G M R T E I V G K I A K L L L
UniRef90_K9WFC1 T N M A Y G G S F V T F G G R G M V V A I G E A S T E I V G R I S Q L M
UniRef90_R7L8U6 H N M V F G S T L V V N G H G E G I V V S T G M S T E I V G K I A N M I
UniRef90_W6A7I7 K N I A F M S T F T T A G R A I G V V I K T G V N T E I G K I A T S I

UniRef90_R6Z1D7
UniRef90_C4UL09
UniRef90_UPI000372CB6E
UniRef90_L2G282
UniRef90_L11DR5
UniRef90_B8IRL0
UniRef90_A7AUB0
UniRef90_D3HBA9
UniRef90_M4WVN3
UniRef90_A1U6Q8
UniRef90_G2FQK6
UniRef90_K2E145
UniRef90_H5Y1P2
UniRef90_U6EED6
UniRef90_K2J2U5
UniRef90_K9Q5S9
UniRef90_R2PYB1
UniRef90_C5T4G8
UniRef90_B3DSW4
UniRef90_E6QUL2
UniRef90_X1L3I2
UniRef90_P22036
UniRef90_H3GY41
UniRef90_R9ZD94
UniRef90_W9WRF5
UniRef90_C0QX73
UniRef90_A6C4X4
UniRef90_A4FCJ0
UniRef90_B8GKS0
UniRef90_UPI000377CB2C
UniRef90_Q2H3D4
UniRef90_F7ZZM4
UniRef90_E1JSX0
UniRef90_N6WQS7
UniRef90_UPI0003626546
UniRef90_C5MFZ8
UniRef90_T0ZX66
UniRef90_UPI0004641E10
UniRef90_UPI0001FFED79
UniRef90_E7KJQ9
UniRef90_F5J3D9
UniRef90_D4YRQ6
UniRef90_S6G3A7
UniRef90_A8XD63
UniRef90_C0BXM7
UniRef90_UPI00024917FC
UniRef90_H3SDB7
UniRef90_I1D5M5
UniRef90_D0RM88
UniRef90_Q0W6H1
UniRef90_E2LJ84
UniRef90_H2BUK2
UniRef90_K2FSD4
UniRef90_J0DF33
UniRef90_R5Y4A0
UniRef90_R5V3X8
UniRef90_G8P6Z1
UniRef90_A6M1V3
UniRef90_UPI000472471C
UniRef90_K2AKD3
UniRef90_Q4SLG7
UniRef90_UPI00036FC64B
UniRef90_UPI0003AB7D61
UniRef90_UPI0003B6877D
UniRef90_R2SM55
UniRef90_Q82WP6
UniRef90_R5TM13
UniRef90_UPI0004660AF3
UniRef90_D2B509
UniRef90_UPI0002D693E2
UniRef90_S7PXQ5
UniRef90_P35317
UniRef90_G1PKF6
UniRef90_V4JAF4
UniRef90_S6AWP9
UniRef90_K8K1D2
UniRef90_N4V550
UniRef90_G4TLH7
UniRef90_K5C3H3
UniRef90_B5WB07
UniRef90_Q2Y8H5
UniRef90_R6R510
UniRef90_O27560
UniRef90_A0A017HES4
UniRef90_S9QD53
UniRef90_B1MV15
UniRef90_B8KXT7
UniRef90_H5XWP9
UniRef90_D9SKJ0
UniRef90_UPI0003B68A9F
UniRef90_UPI000364A378
UniRef90_UPI00040E70E5

UniRef90_R6Z1D7
UniRef90_C4UL09
UniRef90_UPI000372CB6E
UniRef90_L2G282
UniRef90_L11DR5
UniRef90_B8IRL0
UniRef90_A7AUB0
UniRef90_D3HBA9
UniRef90_M4WVN3
UniRef90_A1U6Q8
UniRef90_G2FQK6
UniRef90_K2E145
UniRef90_H5Y1P2
UniRef90_U6EED6
UniRef90_G2IJ25
UniRef90_K9Q5S9
UniRef90_R2PYB1
UniRef90_C5T4G8
UniRef90_B3DSW4
UniRef90_E6QUL2
UniRef90_X1L312
UniRef90_P22036
UniRef90_H3GY41
UniRef90_R9ZD94
UniRef90_W9WRF5
UniRef90_C0QX73
UniRef90_A6C4X4
UniRef90_A4FCJ0
UniRef90_B8GKS0
UniRef90_UPI000377CB2C
UniRef90_Q2H3D4
UniRef90_F7ZZM4
UniRef90_E1JSX0
UniRef90_N6WQS7
UniRef90_UPI0003626546
UniRef90_C5MFZ8
UniRef90_T0ZX66
UniRef90_UPI0004641E10
UniRef90_UPI0001FFED79
UniRef90_E7KJQ9
UniRef90_F5J3D9
UniRef90_D4YRQ6
UniRef90_S6G3A7
UniRef90_A8XD63
UniRef90_C0BXM7
UniRef90_UPI00024917FC
UniRef90_H3SDB7
UniRef90_I1D5M5
UniRef90_D0RM88
UniRef90_Q0W6H1
UniRef90_E2LJ84
UniRef90_H2BUK2
UniRef90_K2FSD4
UniRef90_J0DF33
UniRef90_R5Y4A0
UniRef90_R5V3X8
UniRef90_G8P6Z1
UniRef90_A6M1V3
UniRef90_UPI000472471C
UniRef90_K2AKD3
UniRef90_Q4SLG7
UniRef90_UPI00036FC64B
UniRef90_UPI0003AB7D61
UniRef90_UPI0003B6877D
UniRef90_R2SM55
UniRef90_Q82WP6
UniRef90_R5TM13
UniRef90_UPI0004660AF3
UniRef90_D2B509
UniRef90_UPI0002D693E2
UniRef90_S7PXQ5
UniRef90_P35317
UniRef90_G1PKF6
UniRef90_V4JAF4
UniRef90_S6AWP9
UniRef90_K8K1D2
UniRef90_N4V550
UniRef90_G4TLH7
UniRef90_K5C3H3
UniRef90_B5WB07
UniRef90_Q2Y8H5
UniRef90_R6R510
UniRef90_O27560
UniRef90_A0A017HES4
UniRef90_S9QD53
UniRef90_B1MV15
UniRef90_B8KXT7
UniRef90_H5XWP9
UniRef90_D9SKJ0
UniRef90_UPI0003B68A9F
UniRef90_UPI000364A378
UniRef90_UPI00040E70E5

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

	90	100	110
UniRef90_R6Z1D7	K N M C Y M G S T V V Y G R G R A V V C G T G M N T E M G K I A G A L		
UniRef90_C4UL09	K N L L F S G S T T I S A G N T A K G V V V T A T G T G M D T E E L G G H I A N Q M M		
UniRef90_UPI000372CB6E	R N M A F M G S T M V T T R K N G R G I G V V F A T G G M K C A M G G E I A A D M I		
UniRef90_L2G282	L N V V Y S S T T V I T R G G R G V V F A T G G M K C A M G G E I A A D M I		
UniRef90_L11DR5	K N M A F S A T T V V Q A G S Q G K G I V V V G T G G D A A T E I V I G G K I S S M		
UniRef90_B8IRL0	T N M V Y R G T I V T A G S G G V T A V V V A T G G M H A T E E V I G G K I Q R L		
UniRef90_A7AUB0	T N L L F C R G T T V S A G S S C V G V V I A T G G M S V I A T G G M S T E E I G G K I		
UniRef90_D3HBA9	E A L A F M G T N V L S G S A K A V V V L A V G D D T T M M G S A I E Q T L		
UniRef90_M4WVN3	D N L C F M G T N V L S G S A Q A V V V V R T G G A R T Y F G G R I A E S G L L		
UniRef90_A1U6Q8	T G M A F S G T M V A T G T A R G V V V R T G G H R T E E I G G R I A S G L L		
UniRef90_G2FQK6	K N M L F M G T D V T R G K G I G V V V G R T G G M E T T E I I G G R I V S L L M		
UniRef90_K2E145	K N M A F M G T V L T N G R G K G V I V R T G G M E D T E Q I G G K I S R T Q		
UniRef90_H5Y1P2	K N M A F K S T L A T Y N G R G I G L A V A T G G M D T Q I G G K I A T M L		
UniRef90_U6EED6	L P S T Y S G T L V V Q G G Q V A Q V V S T G G L N T E M G G R I G K R L I		
UniRef90_K2IJ25	T N A L F A G S F L R S A Q A R R M L V V V Q T A N S R A T A F M G Q I T S S R I		
UniRef90_G9Q5S9	N N M A Y A G S F V T F G G Q R G I V V V A T A N S R A T A F M G Q I T S S S M		
UniRef90_R2PYB1	P D L V F M G T D V L S G G Q Q A I I L K T G M Q N T F F G G D I A H		
UniRef90_C5T4G8	T N M A F K G T T A T H G R A R G L V V A I G V G H T E E L G G K V A R E L L		
UniRef90_B3DSW4	T N M L Y S G C F V T A G N G R A V V V T A V G D D T E E F G K I A H L L		
UniRef90_E6QUL2	K N I V L A G T L M V S G Q A K A V V V F A T G G M R T T E F G G K I A H L L		
UniRef90_X1L3I2	R N L L F M T T A A V R G N A Q A V V V G T G G M R T E V G G M R T W F G S L A E E I		
UniRef90_P22036	G N I C L M G T N V T S G R A K A V V V A T G S R T W F G S L A E K S I		
UniRef90_H3GY41	D N M V F A S T S V A T S G N A T G V V V E T A G M S T R E V G S I A T L L L		
UniRef90_R9ZD94	R C M A Y S G S T V T K G Q A R G V V V A T A G M D T A E L G G R I G T L L L		
UniRef90_W9WRF5	L N V A Y S S S T V T K G R G R G I V V Y T A G M S T A I G G R I A A S M		
UniRef90_C0QX73	L N M A Y S G S F V T T G N G K M I V T S V G D A T E F G G K I A R E L L		
UniRef90_A6C4X4	K N L A F K G T L I T K G R G Q G I V T E T G M E T Q E L G G E I A T L L L		
UniRef90_A4FCJ0	K N M A Y S G T L V T S G N G A G V V V A T G A E T E Q L G G E I H R L L		
UniRef90_B8GKS0	W T M A F A G S T V T S G R T A G I V V V A T A G Y T E Q M G G Q I A T S I L		
UniRef90_UPI000377CB2C	A N M V F A G S T V L T T G R A T G V V V A T G M S S E I I G G R I A A S L L		
UniRef90_Q2H3D4	L N V V F S S S T V T K G R G R A I V V A T G L S S E I I G G A I A A A L		
UniRef90_F7ZZM4	T S M L F S G T I V T A G R G V G V V T A T G P A T T E I I G G R I Q S L		
UniRef90_E1JSX0	S N M A F K G T A I V H G R A M G L A V A T G T A T W L G G R I A R K M		
UniRef90_N6WQS7	F S M A F T G T L V T S G T A A G V V V A T G E A T E V G R I S R G L L		
UniRef90_UPI0003626546	T C M V H H G T A V V Q G T G R A V V T A T G M A T E E V G A I A R L L L		
UniRef90_C5MFZ8	L N L A Y S S S I V S K G R G S G I A Y A T G L N T E Y F G R I A Q S I		
UniRef90_T0ZX66	N N V C F M G T N V V S G T A T A V I V H T G A L N T E Y F G R I A Q L I		
UniRef90_UPI0004641E10	S S M L F S S T L V A A G S Q G V G V V T A T G T A T E I G R I Q T M I		
UniRef90_UPI0001FFED79	T N M A F T N T P V T H G S G T V I V T G T A R T S E I L G R I S S M L L		
UniRef90_E7KJQ9	L N L A F S S S T V V K G R A K G I V I K T A L N S E I I G G R I A K S L		
UniRef90_F5J3D9	D N M A F S T T T V S A G T G M G I V V V A T G Q N T E I I G K I N R M M		
UniRef90_D4YRQ6	P N I L Y E G T V I V E G S G T G V V F A T G E Q T V F M G K I A K S I		
UniRef90_S6G3A7	K N L A F F S T N V L S E G T C R G V V I A T G G D R T V I G G R I A N L		
UniRef90_A8XD63	Y N I A F N G S F C V D G E G Y G I V I R T G E M T V I G G Q I A S L		
UniRef90_C0BXM7	R N M L Y R S S I V T Y G R A V V V A A T G E M E T E V I G G K I A G M L		
UniRef90_UPI00024917FC	T N M A F A S T A V T S G S G I V G L V V A T A E M E T E I I G G K I S T E		
UniRef90_H3SDB7	I N M A Y M T S Q I S Y G R G L G V V T A T G G A T E E V G S I A		
UniRef90_I1D5M5	S S M V Y E G T T V A A G R A T A V V V A V G G M N T R E A G S R I A A R E		
UniRef90_D0RM88	S N M V F S S T T V A A G N A R G I V V E T G G M D T R V E A G S R I A A L L		
UniRef90_Q0W6H1	D N I A F M G T L T V S G R G T G V T I A T G Q N T Q L G G Q I S R E		
UniRef90_E2LJ84	I N M C F A S T T V T K G R G K G I A V A T G M E T E V V G K I A K L M		
UniRef90_H2BUK2	I N L A Y M S T L V T Y G R G L G V V I A T G E E T E V G G K I A E D I		
UniRef90_K2FSD4	D N M I F M G S S L T R G S A V A M V C D T G G K T Q L G G H I A E M		
UniRef90_J0DF33	A N M V F N G T S V T Q G T G R A I V T N T G M R T Q V V G K I A D M L		
UniRef90_R5Y4A0	D T I C F M G T N V T S G S G K A I V I K T N T G D S T Y F G K V A N T I		
UniRef90_R5V3X8	E N M V F S G T S A A A G T C R T L V V A T G M D S E F G G K I A N L		
UniRef90_G8P6Z1	R N M G F S G S V V S Y G G T G T V V A T G G N T E L G G K I S Q L L M		
UniRef90_A6M1V3	I N M G F G G T L I A Y G R A T M V V T S T G D N T E M G K I A Q T L		
UniRef90_UPI000472471C	S A M L F K G T Y V V R G S G E G I V T G T G L M T E L G R I T K L		
UniRef90_K2AKD3	K N I A F S A T S V M H G N A T G V V A T A K D T A F G E I E R L		
UniRef90_Q4SLG7	K N M L F S G T N I S A G R A I G V V V A T G V T T E I G G K I R N Q M		
UniRef90_UPI00036FC64B	P C L A F A G T V V M R G R G R G I V E A T G A A T Q M G R I A S E L		
UniRef90_UPI0003AB7D61	R N I A F F S T M C L E G T A Q G L V V V A T G D R T I I G R I A S L		
UniRef90_UPI0003B6877D	R N M V H G G T A V A E G V G S A V V A T G M D T Q M G A I A Q M L		
UniRef90_R2SM55	E N L A F M G S N V I S G S A E G I V I A T G N N T L F G D V A K S L L		
UniRef90_Q82WP6	Y G M A F S G T L V Y Y G Q A S G I V V A T G S A T E L G K I N R L L L		
UniRef90_R5TM13	K N M V Y M G S T V V Y G R G A A V V T G T G M E T E M G K I A D A L		
UniRef90_UPI0004660AF3	Q N Q A F A S T A V T N G S G R G I V T V T G T Q T E I G S I Q Q		
UniRef90_D2B509	D G E L F S G T L V V T R G G G M A V V E R T G A A T E M G R I A G A L		
UniRef90_UPI0002D693E2	T N R V F K G T A I T R G S A E G I V I A T G M E T E L G G H I S A L		
UniRef90_S7PXQ5	C F S G S T C K Q G E A E G V V I S T G A N T F F G R A A S L		
UniRef90_P35317	K N L A F F S T N A V E G E A T G L V V R I G D N T V M G R I A N L		
UniRef90_G1PKF6	K N I G F Y S T T C L E G T A T G M V I N T G D R T I I I G R I A S L		
UniRef90_V4JAF4	R S M A Y S G T L V T H G Q S T G T V V A T G P A T E I I G R I S A M		
UniRef90_S6AWP9	P N I C F M G T N V V S G E A T A V V V A T G A R T Y F G S L A R S L		
UniRef90_K8K1D2	N S L W M G T H V V S S G E A I A L V I Q T G K K T E F G K I S E R L		
UniRef90_N4V550	L N V V Y S S T V V T K G R G R G V V F A T G M Y T E		
UniRef90_G4TLH7	N S I A F M G T L V R N G R G S G I V V A T G T Q T E F G G V I F S M M		
UniRef90_K5C3H3	P N I L F A G S L I K G R S K A L V F A T G Q S T E I G G Q I A R		
UniRef90_B5WB07	A H I C F M G T N V V S G T A T A I V I A T G A D T Y F G G S L A K		
UniRef90_Q2Y8H5	L P F L F S S T L V V Q G K A V A V V R T G T D T S E L G Q I A G A L		
UniRef90_R6R510	K N M A Y M S T E I M K G S A E G V V T T T G M D T S E L G K I A D M M		
UniRef90_O27560	E N I L F A G T Q V T S G T G R A A V F A T G R D T E F S R I A T L L		
UniRef90_A0A017HES4	R S V A F S G T L V A A G R G T G V V F A T G S R S E M G R I G A L L		
UniRef90_S9QD53	R N A V F M G T V I S G T A R V L V F A T G T R T S M G G I V R S L L		
UniRef90_B1MV15	Y N M A Y A S T A V T N G S A T G I V V A T G L Q T Q I G Q I S Q S		
UniRef90_B8KXT7	A N L A Y R G T I T C G S G K G V V V A I G M E T E F G R I F A Q		
UniRef90_H5XWP9	G N I G F M G S N V S G S A T A M V L A T G M S T Y F G S M A K S L		
UniRef90_D9SKJ0	N N K V Y M A T T V L I G K G E A V I T A T G M N T E M G K I A H M L L		
UniRef90_UPI0003B68A9F	S N C L F M G S S I V S G C K A L V T Q T G K N T E F G K I S N D L		
UniRef90_UPI000364A378	S S C L F M G T V I Q S G S C T A V V V A T G G R A E F G R I A		
UniRef90_UPI00040E70E5	E N L A F M G T N I I S G T A I A V V L S T G N D T V L L G S M A N V I		

UniRef90_I1C4L5 UniRef90_R6QCX4 UniRef90_UPI0003624FA2 UniRef90_E9AJY3 UniRef90_K4RGU9 UniRef90_UPI0003180FA0 UniRef90_F8F220 UniRef90_R5ZKZ7 UniRef90_R6ZGV9 UniRef90_Q0W835 UniRef90_A1VCN4 UniRef90_L0HFA6 UniRef90_C1DHA2 UniRef90_UPI000467145E UniRef90_B0VH22 UniRef90_G2X154 UniRef90_C6VM55 UniRef90_B9IHW7 UniRef90_D2VEQ9 UniRef90_L7KV14 UniRef90_V4TK25 UniRef90_Q6AZW6 UniRef90_UPI000471E68E UniRef90_H01195 UniRef90_A5FXK1 UniRef90_H1FZY5 UniRef90_E9DU80 UniRef90_UPI000364B197 UniRef90_V3TY80 UniRef90_R6E888 UniRef90_K6TSY6 UniRef90_B0K4B0 UniRef90_K9V1N2 UniRef90_K9VIU6 UniRef90_M4BDX0 UniRef90_I4VQ78 UniRef90_UPI0004417711 UniRef90_M1VKQ8 UniRef90_D6V3Y5 UniRef90_D8IVD6 UniRef90_I4BEY6 UniRef90_UPI000477D4D0 UniRef90_L0KX02 UniRef90_J9MUV2 UniRef90_B7AAD2 UniRef90_W7VWY1 UniRef90_UPI0003493E1E UniRef90_UPI0003958314 UniRef90_A8NX80 UniRef90_R5XD23 UniRef90_UPI00034C794F UniRef90_UPI0004655CEB UniRef90_S6C6S4 UniRef90_J0QT11 UniRef90_I7ME52 UniRef90_UPI000362BF9B UniRef90_K9QLA2 UniRef90_M2V462 UniRef90_A4X0V2 UniRef90_D1W0Y2 UniRef90_I0GA38 UniRef90_K9WBB7 UniRef90_UPI0003786ECC UniRef90_UPI000344A271 UniRef90_L1M6A1 UniRef90_UPI000380C811 UniRef90_M4MG78 UniRef90_Q4XX14 UniRef90_I3TP67 UniRef90_I1MSK0 UniRef90_C5RAN0 UniRef90_V8BWB7 UniRef90_Q0UAQ9 UniRef90_K1PY00 UniRef90_M0HI36 UniRef90_B6IQL3 UniRef90_H8I8C7 UniRef90_W4KJA5 UniRef90_UPI0003810E79 UniRef90_W7BA27 UniRef90_K8WQN4 UniRef90_E0URV0 UniRef90_I1GJH2 UniRef90_UPI0002D8449E UniRef90_U5BMD3 UniRef90_UPI00047DAE1B UniRef90_F0WVVV1 UniRef90_J4P6L8 UniRef90_K0NC18 UniRef90_I0V7M4 UniRef90_B2TG88 UniRef90_R1IGL3

UniRef90_I1C4L5 V F S G S T V K Q G E A E A V V I G T G T N T F F G R A A K L L
UniRef90_R6QCX4 G N M A Y M G T L V V V Q G H G K A L I T A T G T D T Q T V G G H I S K M L L
UniRef90_UPI0003624FA2 P S M V F L G T S V V S G G S A R A E A T A T G T P K S T E V F G G F I A T R L L
UniRef90_E9AJY3 S S M V Y R G T A V V V Y G S K A R G V V V R T A T G T S T E M M G F I A T R L L
UniRef90_K4RGU9 T G M L F M N T A L T R G G R A E M I V T A T G T M R F T E L G G A I A E A L L
UniRef90_UPI0003180FA0 T N M V Y K G T L V T G G Q G L A V V V I A T G T A K F T E M G S K L Q Q L L
UniRef90_F8F220 P N A C F M G S S V T S G G T A K A L V I H T K T K T E L F G S L S Q K L L
UniRef90_R5ZKZ7 S N I A H S S C P I S Y G R G E G L V V G T G M N T Q I G K V A R Q
UniRef90_R6ZGV9 S N L V M R G T S I V D G E H G S M K V L S R V G R D A T E T E M G K V A R Q
UniRef90_Q0W835 V N C L Y A G T S L V D G E G K A I V V S V I G E R T E T E M G R I S T M
UniRef90_A1VCN4 T N M A Y A S A L V T Y G T A T G V V V A T G D R H T E T E M G R I S T M
UniRef90_L0HFA6 Q P F V Y S G T L V S G G Q G L V Q V R A T G A R T E T E M G R I S T M
UniRef90_C1DHA2 D N C L F M G S S L V R S G T A T L L A V R T T E Y E M G R I A R S L L
UniRef90_UPI000467145E L N M A Y M G T L I T Y G S G R G V V T Q T G S H T E T E I G T I N R M L L
UniRef90_B0VH22 L P F V Y S G T L V V S G R G A Q V F A T G V E R T E T E I G G A I G K S Q L L
UniRef90_G2X154 L N V A Y S S S N V T K G R A K G I V F A T G V Y T E T E I G G A I A S Q L L
UniRef90_C6VM55 N C Q V Y A G T A V T A G T A L I Q V L T T G M A T E T E I G G Q I A G L L L
UniRef90_B9IHW7 K P F L L S G T K V Q D G S G K M I V T A V G M R T E T E W G K I M E T L L
UniRef90_D2VEQ9 K N I A F M G T L V S V G N G K G V V V S T G M R T E T E I G K I S D L L L
UniRef90_L7KV14 T D I V F S G T N V V G G D G R A V V F A T G M H T E T E I G H I A S L L L
UniRef90_V4TK25 A N M A F F G T M A T R G G Q G V V V A T G S A D T E T E I G T I G R L L L
UniRef90_Q64ZW6 D N C L Y M G S T V I S G S A K G I V F G T G N D T Y L Z G I A R S L L
UniRef90_UPI000471E68E P N I C L M G S D V V S G S A T V V A I N T G E S T Y F G G A I S K S
UniRef90_H01195 A F A G T M V T R G R G R G I A A A A T G A E T E T E I G R I A D L L L
UniRef90_A5FXK1 H G M A Y K G T V V L N G R G R G V V V A T G M A T E T E I G R I A A M L L
UniRef90_H1FZY5 T S M A F S G T L V T A G Q A T G V V V E T G A R T E T E I G R I S T L L L
UniRef90_E9DU80 V N M A Y A T T V V R K G R G R G I V T A T G M S T E T E V G K I A A S
UniRef90_UPI000364B197 K C M L Y K G T A I T R G A A E G V V S F T G L N T E T E I G K I S S L L
UniRef90_V3TY80 D T L C F M G T N V V S G T A L A I V T G S G A N T W F G G Q L A S R I L
UniRef90_R6E888 R N V V L R S S M V M S G S G E A V T A T G D A T E T E I G R K V A R
UniRef90_K6TSY6 K N I L F R S S V I K S G S G L G I V I A T G N F T Q L G R M L A M L L
UniRef90_B0K4B0 E N I C F M G T N V V S G S A L A V V L S T G D R T Y F G S M A K S L L
UniRef90_K9V1N2 I N L C F M G T A V V S G S A T A V V E T G S H T Y L A S L A K S L L
UniRef90_K9VIU6 D N M A Y A G S F V T F G G A G S V I A I A N K I S T G K I S Q L L
UniRef90_M4BDX0 K N I Y M G T L V R A G R G R A V V V G T G A R T E T E F G G Q V F D
UniRef90_I4VQ78 P T I C Y M G T N V V S G T A V A V V L A T G P R T Y L G S L A H S M
UniRef90_UPI0004417711 E N L L F N S T L V V N G E G W G V V V R T G D H T F I G Q L A K L L
UniRef90_M1VKQ8 G D M I Y S G S V V K Q G E F L A V V V A T G M N T F F G G K A A H L L
UniRef90_D6V3Y5 F N A L V R S G T C L V N G S G A E M L V L R T G T R T R F F G K I S S S L L
UniRef90_D8IVD6 A T L V R S G T L V V R N G S G I A K V T A T G A R T E T E I G K I S S L L
UniRef90_I4BEY6 R N M A Y S G T L V T A G S G T G V V V A T G S E T E T E I G E I H R L L
UniRef90_UPI000477D4D0 R S M L F K G G S V T R G S A G A V V A T G S H T E T E I G H I A R L I
UniRef90_L0KX02 R N M V F S G T L V Q T G N G K A I I F G T G A N T E Q I L G R L A
UniRef90_J9MUV2 L N V A Y S S S T V T K G R A R G I V F A T G T Y S T E T E I G Q I A
UniRef90_B7AAD2 V I Y A G T L V R S G R A L L E V T R T G L Q S A M G R I A G L L L
UniRef90_W7VVY1 P H A A L M G S S V V S G S A R V L V C A T G R G R L A G H R L L
UniRef90_UPI0003493E1E N C V F M G T S V R S G T A E V L V T R Y A S D S E I G R I A K T L L
UniRef90_UPI0003958314 C N L V F M G T N V V S G A G L A V V L T G N H S Y L G A L A
UniRef90_A8NX80 L N L C Y A S T I V T K G R G L G I T I G T A M N T Q I G K I A E A I L L
UniRef90_R5XD23 A N M T Y S G T F I T E G H A K A V V T A V G D S T E F G K I A G E L L
UniRef90_UPI00034C794F L P F V Y S G T L V V Q G G V A R V R E L G A R T E T E M G K I G R K A L L
UniRef90_UPI0004655CEB A P F L F A G T L V T L G Q G G A M L A T R T R T G A R T E T E I G R I G R K A L L
UniRef90_S6C6S4 F L V Y A G T T V G A G T A T A I A F A T G M K T E T E F G S I A A L L
UniRef90_J0QTT1 P N V C L M G T N V V S G T A R A L V V S T G P R T Y T F G S L A K S I L
UniRef90_I7ME52 S N I A F F G T L C K E G T A K G I V I C T G D R T T L G Q I A D L L
UniRef90_UPI000362BF9B V F A G T V V A A G R A L A V V T A T G A R T A F G E I A A L L
UniRef90_K9QLA2 F N M A Y K G T Y I V G G Q G L A V V A T G T Y S T E M G K I Q Q L L
UniRef90_M2V462 R N I S F M G T M V V N G S A V G I V V L T G E N S E V M G R I A Q
UniRef90_A4X0V2 R S M L Y E G T T V A A G H G R G V V V A T G T D T E A G R
UniRef90_D1W0Y2 R N M I L R S S M V M N G R G T A V V T A V G D E T E I G K V A R
UniRef90_I0GA38 Q P F V Y S G S M V V R G E G L A R V G A T G P R S E I I G K I V A
UniRef90_K9WBB7 P Y K I Y R G T I V D Q G E G L F E L T A V G D Q T E I I G K V A
UniRef90_UPI0003786ECC K N M A F M S T L V T Y G R G V G V A T Q T G M H S Q I I G K V A T R L L
UniRef90_UPI000344A271 A C M L F K G T I A R G S G M G V V T A T G L A T E I G K V A S R L L
UniRef90_L1M6A1 D N L C F M G T N V V S G S A R A L V V G T G E H T W F G N L A E
UniRef90_UPI000380C811 R V I S A G T V V V H G R G R A V V T A T G S D S A L G R I A G L M
UniRef90_M4MG78 R L M A F A G T L V T R G R G R G S I S A T G A A T E I G K I A A E I L
UniRef90_Q4XX14 K N I L F S S T A L V A G R C I A V V I K I G M K T E I I G N I Q H
UniRef90_I3TP67 V C M A Y S G T M T T A G Q A R G L V V A T G S A T E T E I G R I G R M I L
UniRef90_I1MSK0 F L I S G C K V I A D G S G T M L V T A V G I N T E W G L L A G L L
UniRef90_C5RAN0 L D R V Y R G T A V V N G R G T G L V T A V G M Q T E T E M G K I A G L L
UniRef90_V8BWB7 A D M L L R S S M V M N G R G T G L V T A V G D M K T E T E I G K V A R
UniRef90_Q0UAQ9 T N L A Y S G S E M T S G R C R G I V V A T G M E T E V G K I A V M L
UniRef90_K1PY00 T C V A F M G T L V R C G R G K G I V I E T G T N S Q F G G E L F T M M
UniRef90_M0HI36 R S V L H A G T T V V R G R A E A V V V A T A M D T E L G D I A D Q L
UniRef90_B6IQL3 S N C L F Q G T S V R S G T G R L L V V A T G D A T E L G R I
UniRef90_H8I8C7 L P F V Y S G T L V V Q G H G I A E V K E T G V R T E I I G K I G K A L L
UniRef90_W4KJA5 E N L V F N S T L I V N G E G W G V V V R T A D R T F I I G Q I A A L L
UniRef90_UPI0003810E79 H C M A Y S S T L V V Y G Q G T G V V V R T A D Q T E I I G Q I N T L L
UniRef90_W7BA27 Q N L S F M G T D V V S G T G R A V V L R T G D E T I F G G E L A E M
UniRef90_K8WQN4 S N I C L M G T N V T S G T A R G I V V A T G S K T Y L G K I A K S I L
UniRef90_E0URV0 R N M L Y A G S L V T K G R A I G V T A T A G Q T E V G K I S E L L
UniRef90_I1GJH2 N N I S F M G T F V C S G H G K G V V V S V G E N S E F G G Q V F K M M
UniRef90_UPI0002D8449E D N I L F M G T N V V S G A T A V V L T T G Q N E T Y F G G A L A Q
UniRef90_U5BMD3 M V F Q G T L V M T G A N C I A K V T A T G Q E T A L G K I G R S L L
UniRef90_UPI00047DAE1B A S I M F S G T L V A A G A G R G T V V A T G A T E T E I G R I S G L L
UniRef90_F0WVVV1 K N I V Y M G T L I R A G R G R A V V Y G T G H K T E F F G L V F D A M
UniRef90_J4P6L8 E N M A F M G T N V V S G S G S A L V V A T G G N T Y F G G Q L A
UniRef90_K0NC18 P N L V F M G T D V I S G S G T A V I L K T G D A T Y F G G D M A S Q I L
UniRef90_I0V7M4 R D L L F S G T M C T G G Q A L A V V F A T G M H T E L G K I A A L L
UniRef90_B2TG88 G G Q L I F G S M V V Q G Q Q A M I V T A T G A N T K L G R I G K S L L
UniRef90_R1IGL3 S G S A Y S G T L V T R G Q A R G L V T A T G G A T Q L G G I Q H L

UniRef90_A0A011PUK6 1 A T V M R E G E R H E I L D A A L L V P G D I V L L E S G A R V I P A D L R R 40
UniRef90_G1LI27 C N C I R E G G K L Q H L L A R D L V V G D I V S L S I G D R I P P A D L R R
UniRef90_R5R717 A T V I R N G G K P D Q E A V L V E G L Q Q T E V A A S A S I V V Q G D L V S L K A G D V V P A D D M R
UniRef90_UPI000258D4DF A T V I R N G G K P D Q E A V L V E G L Q Q T E V A A S A S I V V Q G D L V S L K A G D V V P A D D M R
UniRef90_A2SS48 V I R N G G K P D Q E A V L V E G L Q Q T E V A A S A S I V V Q G D L V S L K A G D V V P A D D M R
UniRef90_T0UA86 Q E A V L V E G L Q Q T E V A A S A S I V V Q G D L V S L K A G D V V P A D D M R
UniRef90_S2JFK1 C K C V R N G R L V K I L T S E I V V K G D T V L I Q S G D K V P A D D G L
UniRef90_R9MJX9 A K V I R N G G K L V K I L T S E I V V K G D T V L I Q S G D K V P A D D G L
UniRef90_R7ITK4 T A T V I R N G G K E E E K N Q I A S Q N I V L G D I V H L L N A G S G I P A D D L R
UniRef90_R7GA38 K V L R D E E E K Q I A S Q N I V L G D I V H L L N A G S G I P A D D L R
UniRef90_L9MM57 V M R D G Q L V I E L P I Q Y L V P G D V I L L S A G D M I P A D D C R
UniRef90_S2KJG6 V M R D G Q L V I E L P I Q Y L V P G D V I L L S A G D M I P A D D L R
UniRef90_A1WEX9 E H A L A V R D G G Q P H V V E I A R D L V P G D L I L L D E G D K V P A D D A H
UniRef90_UPI000463E522 K A N V L R N G G H V Q E I D A A E I V P G D L I L L D E G D T C P A D D G T
UniRef90_B6K6C9 T G T V S R N G G K T F S V I P A A E I V P G D M V E L L D E R T G D T V P A D D I R
UniRef90_B0Y6D6 V I R N G G K I R I P S R L L V P G D T I T T G G G E R S P A D D I R
UniRef90_O26581 K V V R D N N L M V I L D S K E V T I G D I V M I E A G D V V P A D D G Y
UniRef90_N9VBT5 A S V L R D G H V V T R P A A A Q L V P G D L V Q L A A G D V V P A D D G R
UniRef90_G2J5B9 C M V I R D A K V Q Q I D A A Q L V P G D V V L V R M G D K V P A D D
UniRef90_S2JVU7 Q C A K V L R D S E R K E L L A T E L V V G D V L L E E T G D Q V P A D I R
UniRef90_W4WCD1 T A T A L R D G S R T V V I E A R D L V P G D V L L I E E G D R V S A D A R
UniRef90_UPI00036EEE3E M A T V V R G G A K R E V P L S E L V P G D V V H L S T G D I V P A E C R
UniRef90_UPI00037FB35F A S V L R D G R V V S L L P V T S D I V V G D I V K L E A G D T V P A D D G L
UniRef90_D3BG47 C H L I R C G Q E S H V L V A S G I V P G D L V H F K I G D R I P A D D L R
UniRef90_G0VD53 T A T V L R D G V E K E I P M E D V V V G D I V L L A A G D M V P A D D C R
UniRef90_C3X945 T V F R D G K E T D E L P I R E L V P G D H I V L S A G D M I P A D D C R
UniRef90_B1B833 R V I R D G A I F E L P V D E L V I G D I V I L E A G K Y I P A D I R
UniRef90_L0KUK7 T S T V L R D G E N V K D E L A S A E L V V G D I V I E E A G D L V P A D A R
UniRef90_B4SKC2 T A V A R R D G K A V Q K V G V T E L V P G D V I Q L A L G E A V P A D V R
UniRef90_A0A037ULZ0 D S C M V I R D G K P V Q K I P V E E L V L G D L V R I E G G D K I P A D D L R
UniRef90_F7XQS6 K V V R D G K E T V S I F D V V G D I V V M E L G D Q I P A D D G V
UniRef90_C5C6L6 K V I R S G G K S Q E I S V V Y D V L V G D V M H L E P G D L P A D D G L
UniRef90_X5LI77 K C I V I R S G G K P Q S I A G R E V V R E D V I V L S E G D R V P A D A V
UniRef90_D2V346 A L V I R D G G K R Q R I A G R E V V R E D V I V L S E G D R V P A D A V
UniRef90_V6TLB3 T V M R N G K I Q E I P R K R I V V G D I V L N T G E E V P A D D G L
UniRef90_H6BX77 E A C H V L R R E G S K Q E I V Q A P E V V P G D I V F K A G D K L P A D V R
UniRef90_Q22LQ9 A T V L R D G D P L I E L P V S A I V A G D V L Q L R A G D L V P A D G I
UniRef90_Q3M5P5 A D V M R D G G E R L I E V S A T E L V P G D L L W I A E G A R V P A D D G W
UniRef90_R7NU51 L V K V I R S G K M I E I P S H D I L V G D V M H L E P G D L V P A D D G I
UniRef90_V9D954 K V I R N G I V V E I P S E E I V L G D F I Q T E E G T F V P A D D G I
UniRef90_W0A512 T A T V R R N A P E E V T E I A L Q Q L V P G D I I H L N M A G D M I P A D I K
UniRef90_UPI00016A3D83 M V M V I R N K E E K E I N V S N V V G D I I K L N A G T I P A D D L R
UniRef90_Q5BE41 K A L V K R D G G R E M E I P G S E L V P G D L I F L E A G R Q V P A D D G R
UniRef90_UPI00046A4BCF T S R V L R D G G Q R R E L P A S G A L V P G D L V L E A G D A V S A D C C R
UniRef90_W9ARM9 T A R V R R D G G A E R V S A E A D L V G D V I S L E P G D S V P A D C C R
UniRef90_R5WAL6 K A K A L R D G T W N E L D A S L V P G D I I S I K L G D L I P A D A R
UniRef90_R7N0G9 T A T V L R R L V G K K E V I L K L V P G D I I L S A G D M I P A D C R
UniRef90_UPI00037EF92F Q A R V R D G R W K E I A T A S L V P G D I I R I R L G D I V P A D I K
UniRef90_I0LE87 C N C I R E D K V D H I L A R E L V P G D I V C L C I G D R V P A D I R
UniRef90_B4UYI9 V V R H G R R Q Q V S I F E L V G D V V C L K I G D Q V P A D D G L
UniRef90_MOX6V9 D M G L I L N L D V P D R Q E I P I K F L V P G D V V L A A G D M V P A D V R
UniRef90_UPI00046ABDB3 Q H C H C L R D G Q N K L L S A D D L V P G D V V L L S T G D R V P A D M R
UniRef90_F2NHC8 D M I T V M R N G N I L R Q V L S K K D I V V G D I V F L E M G N E V P A D G E
UniRef90_UPI0004088E21 T A T V L R R A H P F A Q E I P M Q Q L V P G D L I L L S A G D M V P A D V K
UniRef90_U2EQI9 C K V I R N G E T I E P S E E L V V G D S L I V E A G T S I S A D D G R
UniRef90_A0A023CYE5 E S I T V R R A G E V K E I P A E E L V V G D I V L L V E A G D R V P A D L R
UniRef90_E9FXG1 Q S A L V I R D G Q K Q T V K A E E V C R G D I V E V I Q A G N S I P A D A R
UniRef90_B2L3K1 Q Q T S V V R D N K I Q Q I P K A E E L V V G D L C F I K Y G D R I P A D I R
UniRef90_U7VAM2 T A L I T R S G I S K E I P V D E I V V G D L I L N A G D L V P A D I R
UniRef90_V9K893 A N C I R E G K L E H L L A R E L V P G D T V C I S V G D R V P A D I R
UniRef90_G1X069 K V V R S G G K S I L L V S V Y D L M V G D I V H I E P G D L I P T D G I
UniRef90_UPI00037C4E15 R L R R D G K E Q E A T A E N I V P G D V I L V Q A G D A V P A D C R
UniRef90_J9GJH4 T C F V K R A G S P A K E I S A N D E L V P G D L V L S A G D M I P A D L R
UniRef90_M8AFL2 K G K V L R D G R W T E E E A A A L V P G D I S I K L G D I P A D A R
UniRef90_UPI000466D8B3 K I I R Q G G E P T N I P L J E E V V S G D V V L L S A G D L I P A D C L
UniRef90_UPI0002F89570 K V V R D G H V T E I P P K R D V V V G D T V L Q S G E E V P A D D G R
UniRef90_UPI00020021E9 Q V R L W R D G D L Q V L P A D D L V P G D L I E L E A G D Q V P A D C R
UniRef90_UPI0004640427 A S V L R G G T W R V M A A E G L V P G D I V R L R S G D K V P A D L R
UniRef90_D5VDT0 A R V V R D G V E V R L A A R L V P G D I I L I S G E G R L P A D D G V
UniRef90_G2RZX3 E E I D V K H L V P G D I Y L S G E M L P A D V R
UniRef90_T0MZV5 A R V L R S G I W K Q V P A S E L V P G D I I H V R M G D I V P A D V K
UniRef90_UPI0003B5B69A L V K V R R N G A P T I E V D V J A A L V P G D V V R L S I G A V V P A D C R
UniRef90_D1W2V8 L V K V R R N G Y V V E I P R K D V V V G D L M I E I V G D E I P A D G K
UniRef90_S8ESD7 A T V I R D G G E Q Q T I S A R D V V V G D V L L L S M G D R V P A D I R
UniRef90_K2RKI9 L V K V I R S G K T R E I S V Y D V L V G D I M L L E P G S M V P A D D G I
UniRef90_W2T6Q3 K A I V I R D G C E E K E V N I E D I V V G D L V V I R S G S R I P A D I R
UniRef90_UPI000364ECAC V L R D G A A Q S V D L T A L V P G D I V E L R S G E L I P A D L R
UniRef90_E9DVB5 E Q C H V T R D G G M V H M Q A E D L V P G D L V T I H A G N K L P A D L R
UniRef90_G7GT19 T C E V I R D G S Q L S V D S S R V V P G D V V L D E G G A V P A D V R
UniRef90_R5VVF6 K V V R D G N V I L L D S E N V V D D V C V F E A G D V V T A D C K
UniRef90_UPI00037A3A3B M A R V L R D G S W S R L P A A E L V P G D V V H L R A G D L V P A D L T
UniRef90_J4I9E4 C H L I R D G G P L H V L A N E L V P G D I V T F T R G D R I P A D I R
UniRef90_I2FNF7 E N A V V I R D G G E H S Q T V S A S D L V T G D V C L L S T G N K V P A D M R
UniRef90_HOSE43 A L V I R D G G E R S R I A G R E V V R G D L I V I A E G D R V A D A V
UniRef90_U1NGF1 K C S V R N G S Q I I I A D T E K I V V G D I V I K C G S R V P A D V R
UniRef90_Q2KU05 K A R V L R D G A W V S V D A A K V P G D I I D V S G G E I V P A D L V

UniRef90_A0A011PUK6
UniRef90_G1LI27
UniRef90_R5R717
UniRef90_UPI000258D4DF
UniRef90_A2SS48
UniRef90_T0UA86
UniRef90_S2JFK1
UniRef90_R9MJX9
UniRef90_R7ITK4
UniRef90_R7GA38
UniRef90_L9MM57
UniRef90_S2KJG6
UniRef90_A1WEX9
UniRef90_UPI000463E522
UniRef90_B6K6C9
UniRef90_B0Y6D6
UniRef90_O26581
UniRef90_N9VBT5
UniRef90_G2J5B9
UniRef90_S2JVU7
UniRef90_W4WCD1
UniRef90_UPI00036EEE3E
UniRef90_UPI00037FB35F
UniRef90_D3BG47
UniRef90_G0VD53
UniRef90_C3X945
UniRef90_B1B833
UniRef90_L0KUK7
UniRef90_B4SKC2
UniRef90_A0A037ULZ0
UniRef90_F7XQ56
UniRef90_C5C6L6
UniRef90_X5LI77
UniRef90_D2V346
UniRef90_V6TLB3
UniRef90_H6BX77
UniRef90_Q22LQ9
UniRef90_Q3M5P5
UniRef90_R7NU51
UniRef90_V9D954
UniRef90_W0A512
UniRef90_UPI00016A3D83
UniRef90_Q5BE41
UniRef90_UPI00046A4BCF
UniRef90_W9ARM9
UniRef90_R5WAL6
UniRef90_R7N0G9
UniRef90_UPI00037EF92F
UniRef90_I0LE87
UniRef90_B4UYI9
UniRef90_M0X6V9
UniRef90_UPI00046ABDB3
UniRef90_F2NHC8
UniRef90_UPI0003C1676D
UniRef90_B9RTI6
UniRef90_I4I2I7
UniRef90_F2TVN6
UniRef90_F5J3B7
UniRef90_Q4ACD4
UniRef90_UPI0004088E21
UniRef90_U2EQI9
UniRef90_A0A023CYE5
UniRef90_E9FXG1
UniRef90_B2L3K1
UniRef90_U7VAM2
UniRef90_V9K893
UniRef90_G1X069
UniRef90_UPI00037C4E15
UniRef90_J9GJH4
UniRef90_M8AFL2
UniRef90_UPI000466D8B3
UniRef90_UPI0002F89570
UniRef90_UPI00020021E9
UniRef90_UPI0004640427
UniRef90_D5VDT0
UniRef90_G2RZX3
UniRef90_T0MZV5
UniRef90_UPI0003B5B69A
UniRef90_D1W2V8
UniRef90_S8ESD7
UniRef90_K2RKI9
UniRef90_W2T6Q3
UniRef90_UPI000364ECAC
UniRef90_E9DVB5
UniRef90_G7GT19
UniRef90_R5VVF6
UniRef90_UPI00037A3A3B
UniRef90_J4I9E4
UniRef90_I2FNF7
UniRef90_H0SE43
UniRef90_U1NGF1
UniRef90_Q2KU05

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

UniRef90_A0A011PUK6 S C L A Y S G T V V V V F G Q A R G V V V V G T G Q A T E L L G R I I F K M M
UniRef90_G1LI27 S N I V F M G T L V V Q Y G G K A K G V V V I G T G G E R T E S Q F G G R I V F K M M
UniRef90_R5R717 Q N L A F M G S S D V I V S D G E A V G V V V I A T G G D N T M L I G R I L S A G L
UniRef90_UPI000258D4DF S N V A F F S S G F A V I S D G E G Y G I V I A T G D N T M L I G R I L S A G L
UniRef90_A2SS48 T N M I H M G S S V I L K G N A T G I A V R T G D M D T E L L G R I L S A G L
UniRef90_T0UA86 K N M V F S S T L V V Q S G S A Q A V V V V A T G P D D T F I I G K T A S L I
UniRef90_S2JKJ6 N V V F S S C V V K Q S G S Q Q Q Q V V V R T G P D D T F I I G K T A S L I
UniRef90_R9MJX9 E S K V F M G S S V V T S G E G Y M V V T V V G D A S T E L L G K I N K A L I
UniRef90_R7ITK4 S N I C L M G T S V I S G K A T G I V S T G F S Q D T Y F G K I N M G K Q I
UniRef90_R7GA38 S N M A Y A G S L V T K G R K G K G V V V A V S G Q D T E F F G K V A N
UniRef90_L9MM57 D N I V F M G T N I V S G S A Q A V V V L S T G Q Q D T Y F G K A L A H
UniRef90_S2KJG6 H N V A M M G T H C L I N G S A A V G V V V S T G D S T Y F M G A L A E R L
UniRef90_A1WEX9 D N V C F M G T N V I S G A A A V V L T T G N R T Y F M G A L A E R L
UniRef90_UPI000463E522 P N L V F S G T T C V E G G Q A R A V V F A T G N H T E L G R R I A S L L
UniRef90_B6K6C9 K D T M Y S S S T V K R G A F M V V T A T G D S T F F L G S R A A S L L
UniRef90_B0Y6D6 L N L A Y S S S T V T R R G R A R M V V T A T G M A T E F L G S R I A A A L L
UniRef90_O26581 R N I L F S G T L I M K E R G M G A V I S T G P E T E P G G R I A E
UniRef90_N9VBT5 K F M V Y S S S S V V A T S G T A Y F C V S A T G K A T E L L G K I S D
UniRef90_G2J5B9 V N A A F M G S S V L S G S A T L L I C H T G P A T E L L G K I A S D T L
UniRef90_S2JVU7 E N I T F N G T L T V S G E G Y G I V V R T G D G T V L L G Q I A G L L
UniRef90_U4WCD1 K N M V F F S T N V V E G E G K G V V V A C G D S T Y F M G R I V A K L L
UniRef90_UPI00036EEE3E R D L V F S G T S C T E G E A R A V V F A T G M H T E L G R I A A L L
UniRef90_UPI00037FB35F S D Y L F M G T S V V N G S A V A A V V R T G R S T R Y A E V A E K L L
UniRef90_D3BG47 F M L M G C Q V L E G R C E Y L V I A V G V K N S Q W G A I K S L L
UniRef90_G0VD53 T C V A Y M G T L V K E G H G K G I V V G L I G N Q T L F G G I A K S L L
UniRef90_C3X945 S N L A F M G S N V I S G S A E A V V I L T G N Q T L F G G I A K S L L
UniRef90_B1B833 P N L C F M G T N V E S G S A F A R V L A T G G K A T S F F G K I S S K L L
UniRef90_L0KUK7 V N S L W M G T N V V S G S A N A V L V V H T G G E T E F F G E I S E R L
UniRef90_B4SKC2 H N L L F M G T N V V S G T A T A V V L A T G N R T Y F G T L A Q
UniRef90_A0A037ULZ0 T N M A F M S T F I T N G N A V G I I V A N A V N D S E Q I G S L A A A I
UniRef90_F7XQS6 R N M V F S G T L V R T G N G K A V V I G T G N T S Q I G S L A T L
UniRef90_C5C6L6 L D M V F R G T A V A Q G V G R A V V T S T G M G T Q M G A I A E M L
UniRef90_X5LI77 T D L A F M G T I V S A G T G G V V Y A T G G A D A E F G R I A
UniRef90_D2V346 N N L V F F G T L A L E G S G Y G I V I R C G N Q T V I G Q I A
UniRef90_V6TLB3 F V I G S C L V T H G S G R M V V A A V G K Y S K H G D I L A T L
UniRef90_H6BX77 D P F I L S G G K V T E G V G T F L V T S V G V N S S Y G K T L M S L
UniRef90_Q22LQ9 S N I A F F G T L C K E G N G K G I V I C T G D R T T L G Q I A D L
UniRef90_Q3M5P5 L P F V Y S G T L T V Q G G Q I A Q V Y A T G M Q T E M G K I G K A L
UniRef90_R7NU51 T V M R G T T V V D G H G M M R V E H V G D A T E F G K I V A R Q
UniRef90_V9D954 R C I G M G G T H C T S G S G M V G I V V S T G V H T A Y G K T M M S L
UniRef90_W0A512 G A F F H G T S V I A G T A T M L V V E T G A R T R F G A I A Q S L L
UniRef90_UPI00016A3D83 A C R V Y F G S K M V R G G Q R M I V T D T G A R T A L G R I L G K S L L
UniRef90_Q5BE41 D P F I V S G A K V S E G V G T F L V T A V G V H S T Y G K T M M S L
UniRef90_UPI00046A4BCF V Y Q G T I V A S G L A I C Q V T A I G S Q T Q L G K I G K S L L
UniRef90_W9ARM9 P N I C L M G T N V S S G T A M A V V V I S T G S E T Y F G S L A K S I
UniRef90_R5WAL6 P N V A L M G S S V S S G L G S G V V I S T G S E D T Y L G K V
UniRef90_R7N0G9 K H L V F M T T M V T A G H G E A I V T E T G M Q T Q I G K I A G M I
UniRef90_UPI00037EF92F R N C V F M G T T V V S G S G R A V V H A T G S A T E F F G R I F R L
UniRef90_I0LE87 H S M L Y E G T T V A A G H G T A V V V A I G V D T E S G R
UniRef90_B4UYI9 S G C A L M G T V V R N G G A R G V V V S T G A S T E F G K I A A
UniRef90_M0X6V9 V Y S G S T C K G E I E A V V A T G I H T F F G K A A H L
UniRef90_UPI00046ABDB3 D N I C F M G T N V V S G G E A T A V V V I A T G N L T Y F G S L S K E I
UniRef90_F2NHC8 A F S G S V A K Q G E M A L V V S T G E D T F F G R T A R L
UniRef90_UPI0003C1676D A N I A Y M G T L V R C G K G K G I V I G T G E Q S F G E V F K M M
UniRef90_B9RTI6 F L F S G T K V A D G Y G R M L V T S V G M N T W G E M M S H I
UniRef90_I4I2I7 A N L C F L G T N V I S G T G R A V V I E T G S N T Y L G S L A K
UniRef90_F2TVN6 R N M A F M G T M V R G R A V G V V T A T G A H T E F F G L V F G M
UniRef90_F5J3B7 S N W V L R G T K V I N G H G V F E V A R V G D A T E F G K V A E
UniRef90_Q4ACD4 A N V C L M G T N V S S G T A R A V V V A T G N R T Y F G S L A K S I
UniRef90_UPI0004088E21 E P F V F N G T T V A S G L A I T I T H I V G N D T Q L G K I G K S L
UniRef90_U2EQI9 E N I A F M A T T V I S G K G E G I V L A V G K D T L Y G
UniRef90_A0A023CYE5 N N I Y A G T T V A R G T A K V I A F H T G M D T E F G K I T N L
UniRef90_E9FXG1 K N L A F F S T N A V E G S A K G I I T S T G D N T V M G R I A G L L
UniRef90_B2L3K1 C L L S G T H V M E G S G R M V V T G V G L N S Q V G N I M S L L
UniRef90_U7VAM2 K N L I F M G S N I I S G S S K G I V I T T G D E T I L L G R I A K D L L
UniRef90_V9K893 L N I A F M G T L V Q Y G N G K G V V I G T G E K S Q F G E V F K L M
UniRef90_G1X069 D P F V I S G A K V L E G V G T Y M T T S V G V N S S F G K I M M A L
UniRef90_UPI00037C4E15 R S M L Y D G T A V A A G R A T A L V V A V G P E T E A G R S A R E M
UniRef90_J9GJH4 D N I C F M G S N V V S G S A K G I V F G T G N R T Y L G T I A Q
UniRef90_M8AFL2 V Y S G S T V K G E I K A V V I A T G V H T S F G K A A
UniRef90_UPI000466D8B3 T N T L F L G T H V I S G T G R G L V V N T G K K T E F G K T A Q Q L
UniRef90_UPI0002F89570 H A M R G T T V I E G H G T M T A V G N A T E F G H V A E Q
UniRef90_UPI00020021E9 T N L L P A G T T V A A G R A Q A V V Y A T G D A T E F G Q V A H L
UniRef90_UPI0004640427 A N L A F A A T V C T Y G Q G T G V V A A T G E A A A I G R I A A L
UniRef90_D5VDT0 G P Y L F S G A L V V R S G S A V A R V E R T G G R T A L G R I
UniRef90_G2RZX3 E N I C Y T G T S V V S G S A I A I V L A T G N D T Y F S T I S K T I
UniRef90_T0MZV5 T Y S G S V L K K G E A T G I V T A T G S Q T Y F G K T T E L
UniRef90_UPI0003B5B69A T S C V L M G T V V Q S G S A S V L V D T G P R T E F F G R I A
UniRef90_D1W2V8 H D M V L R S T M V M N G R G A I V T A T G D A T E F G K V A R
UniRef90_S8ESD7 R N L A L T S T F V V Q G T C T G V V Y A I G D K S A M G K I V A M
UniRef90_K2RKI9 D P F I L S G A K V S E G V G S F V V T A T G H S S Y G K T M M A L
UniRef90_W2T6Q3 R N V A F K G S Y C T E G D G L G I V I R T G K F T V L G G I A N L
UniRef90_UPI000364ECAC S C C A L M G T I V A G G H G R G V V T T G T R T E F F G R I A A
UniRef90_E9DVB5 H N I G L Q G T H C V I G S A L G I V V A T G D R T V F G R I A T L
UniRef90_G7GT19 H N L A Y A G T T V A T V S Q A R G V V I A T A G D T E I G R I A A L
UniRef90_R5VVF6 I Y S G S F V T N G R C T A Q V T A T G R N T E L G K I A N
UniRef90_UPI00037A3A3B Q P A Y T G S I V R Q G E A S G E V T A T G P R T Y F G R T A E L L
UniRef90_J4I9E4 S C I A Y M G T L V R N G E A S G I V I A T G T Q T E F G V I F S M M
UniRef90_I2FNF7 K N I A F L G T H V R N G N A T A L V V L T G Q R T V M G R I N K L
UniRef90_H0SE43 Q P F V F S G S L V V R G G L A E V M A T G P R T A I G R I G Q S
UniRef90_U1NGF1 A N V A F N G S F C V D G D G L G V A I R T G E K T I L G Q I A S L
UniRef90_Q2KU05 A F S G S I A K Q G D M K G V V I A T G N N T F F G R T A K L

UniRef90_F0NUE8
UniRef90_A9KSE1
UniRef90_F9WYV5
UniRef90_H2Z412
UniRef90_T1JVS1
UniRef90_K1Y4P9
UniRef90_SOE382
UniRef90_I2F180
UniRef90_UPI000478A1B1
UniRef90_V5XKK0
UniRef90_H3AHX2
UniRef90_T1IZN6
UniRef90_E9HAW8
UniRef90_A0A057G6T7
UniRef90_I2GX41
UniRef90_UPI000474E613
UniRef90_C7YLI2
UniRef90_D4L2X6
UniRef90_E4X256
UniRef90_A0DDH6
UniRef90_N9XAE7
UniRef90_N6Y8R8
UniRef90_A0A037UQC5
UniRef90_D7BEQ2
UniRef90_A0A016XJC9
UniRef90_B0W7A9
UniRef90_W0ETB8
UniRef90_UPI0001E44A16
UniRef90_A0A059AJR6
UniRef90_B9KYN6
UniRef90_A4XG38
UniRef90_C0ZNP4
UniRef90_Q9T0E0
UniRef90_A7NIV7
UniRef90_X0N8W1
UniRef90_R2XUC1
UniRef90_A8YM93
UniRef90_DONXA0
UniRef90_D4W8B1
UniRef90_B8ER96
UniRef90_R6BIP7
UniRef90_B7KGT0
UniRef90_D8ML82
UniRef90_D3T1A2
UniRef90_A0A017S9E2
UniRef90_W5W8S0
UniRef90_B2ITY3
UniRef90_UPI00032A758C
UniRef90_J7SFG1
UniRef90_K2DDH7
UniRef90_K9Z328
UniRef90_U5FTY9
UniRef90_N9WGN6
UniRef90_K3YG07
UniRef90_X7Z9J6
UniRef90_B3RIH3
UniRef90_V6EXU8
UniRef90_E5SW90
UniRef90_Q5AT11
UniRef90_U7P813
UniRef90_T1HMD3
UniRef90_A4JP42
UniRef90_I3IVQ0
UniRef90_D3SNF5
UniRef90_R5Y8L3
UniRef90_G2SY76
UniRef90_F1Z7B0
UniRef90_D6YBK8
UniRef90_UPI00046F213F
UniRef90_D4KP54
UniRef90_M9MAD6
UniRef90_K9VH26
UniRef90_K2DSR0
UniRef90_W9WQM0
UniRef90_UPI000462D6CD
UniRef90_K5YYM1
UniRef90_R2PKZ6
UniRef90_B5IJ13
UniRef90_UPI0003603360
UniRef90_UPI00047E3BCA
UniRef90_G3AVP3
UniRef90_U6PBG5
UniRef90_K2EMW6
UniRef90_UPI0003688AAF
UniRef90_W6A8Z5
UniRef90_F7WBR3
UniRef90_X1BI01
UniRef90_UPI000465CD1B
UniRef90_D3AW28
UniRef90_G3LY22
UniRef90_UPI0003675078
UniRef90_M2MLQ0

UniRef90_F0NUE8 L L T S K D L F C S S S Y L D G D S E 60 P T E K V A N V T L K P S M L A D Y L N Y 80
UniRef90_A9KSE1 L K I M E S S N L S V N E S S Q L T G E S S V P V S K K G C A H K D L N
UniRef90_F9WYN5 F I S Q S G H G V K C D E S S S A T G E S S D V L K K K T P G D E V Y R A M E A G E M
UniRef90_H2Z412 L I I S Q S N D L K V I D E S S S L T G E S S D H V K K K G L A V D D P
UniRef90_T1JVS1 L I I Q S N D L K V I D E S S S L T G E S S D H V K K K G E N I N P
UniRef90_K1Y4P9 L L I E A S V S F S V N E S S L T G E S P V I S K S T N P D F F D E E A T Y P T N
UniRef90_S0E382 L L I E A S S D V K F D R S V L T G E S S K P V A G T V D H T D T N Y L E T
UniRef90_I2F180 I I E S N E L H A N E S S S L T G E S S Y P A R K E V G I L D E T T E L S K R
UniRef90_UPI000478A1B1 L V E Y V K G L H V I R E S V L T G E S S L P V E K T R A E L S G E K H G V A D A
UniRef90_V5XKK0 L V E T Y G L M I F E E A A L T G E S S D A V E K I S E P L V D E L G A G D Q
UniRef90_H3AHX2 L F E A M D L S V D E S S L T G E T T P S S K C T E S Q P A A T N G D T S R
UniRef90_T1I2N6 V I S G H G F K V D N S S L T G E S S E P Q S R S T A E F T N E N P L E T
UniRef90_E9HAW8 I V I E E V D V L E V D E S A L T G E S S L S V T K Q V E P T P G V D L I E R
UniRef90_A0A057G6T7 I V T E D C F I Q I D G S A I T G E S S L A A D K H F G D P T
UniRef90_I2G341 L V H S K D L K I F V G E S A L T G E S A M P V E K L D T L P R G T P T N A L E L
UniRef90_UPI000474E613 F V K V S S D L K I D R S I L T G E S A V P I H G T V N S T D E N Y L E T
UniRef90_C7YLI2 L I S A V N L K I E E S A L T G E S S V P V S K N T T D Q N E
UniRef90_D4L2X6 I I S S S M K V D N S S L T G E S P Q S R D A E Q S T S E V L L E A
UniRef90_E4X256 V I E S S N E M K V D N S S L T G E S M L L L R T P E C H P Q N P L E T
UniRef90_A0DDH6 I V S C S D F C V D E S E P V R V W K H A R S S N P D P S P E P E S S E G Y W K
UniRef90_N9XAE7 L L S A N D L A V D E S L S L T G E S L P V A K T A S A A T D G T S P I T S N
UniRef90_N6Y8R8 L L S A N D L A V D E S L S L T G E S M P V E K H A T T D N V N L L E L
UniRef90_A0A037UQC5 A I L A E G C L V D E S M L T G E S L P V E K N Q G D E
UniRef90_D7BEQ2 L V I T G A E L Q A D E S T L T G E S L P V P K R A T I A H P G P L P A S A L D
UniRef90_A0A016XJC9 V F E A Y D L S I D E S S F T G E T E P A R K S M E V I L A N N T K N H S S M
UniRef90_B0W7A9 L L S A V S V Q V N E S S L T G E S P M A T K T T V E A D F D K E A T Y P S N
UniRef90_W0ETB8 L V Q S N D L K I D E S S L T G E S S E D Q I R K S P E L D P
UniRef90_UPI0001E44A16 L V S G H S L K I D E S S M T G E S E N V H K D Q K A
UniRef90_A0A059AJR6 L L E G I D V A V D V S T F T G E S E S V P I N P S P
UniRef90_B9KYN6 V I D G R T S V D E S M L T G E S I P V E K T V G S P E S V P I N P S P
UniRef90_A4XG38 I I R A K D L Q V N Q S M L T G E S M P A E K S A E P S T G I D V D R L E A
UniRef90_C0ZNP4 L L I S G D T L K V D S A L T G E F G P I T K G P G E E
UniRef90_Q9T0E0 L L I S S D G L R V K Q T A L T G N A A P V T K V A G A M P D P T L A L V E R
UniRef90_A7NIV7 L L R A S G L R T V H Q A A L T G E S A P V P K Q A D A P P D G H P D A S E P
UniRef90_X0N8W1 V I K A N D L R I N E S S L T G E S A E A V W K T L A E T E E S T S E D Y W R
UniRef90_R2XUC1 L L W S T H L T I N E S S L T G E S V P V R K R T I Q L E E D P E P G G D D
UniRef90_A8YM93 L K F L E G D A V K V D Q S S L T G E S L P V T K N E G D E G
UniRef90_D0NXA0 I L E A A E L K L R E D A S L T G E S S D Q V S K Q K D S
UniRef90_D4W8B1 L I S A A S L R V Q E A S L T G E S E A V L K D A A T L R Q P A A I G D R
UniRef90_B8ER96 F L E T K D L F I D Q A S L T G E S N P V E K F S A L R E K D A E L T H L
UniRef90_R6BIP7 L V F Y V D V S V L T G E S L P I A R H S R M I R P R E T P Q Q S R V Q P A D L
UniRef90_B7KGT0 L L S S R D L F V S Q A A L S G E A I P I E K Y T A A G S S D D A D L L S M
UniRef90_D8ML82 L I E S N L F V S D E A A L T G E S V G V S K E V G T V E E D V A L A E R
UniRef90_D3T1A2 I I T D D A F L Q V D Q S S I T G E S L A V D K L G D C
UniRef90_A0A017S9E2 L L E E I S L E I D Q S K I T G E A E P V K K L T Q A D A E N Q G I E E G T Y P
UniRef90_W5W8S0 L L E E I S L E I D Q S K I T G E A E P V K K L T Q A D A E N Q G I E E G T Y P
UniRef90_B2ITY3 F L A G H S L Q V D E S S M T G E S D H V E I E S V R
UniRef90_UPI00032A758C I I T S K D L F V S Q S S L T G E S E P V E K Y V L K N K N E N L N V S E L
UniRef90_J7SFG1 L L S S N R L H I N E A I L T G E S A A V E K V K D D G
UniRef90_K2DDH7 L L E C D P L K I D Q A A L T G E S L P V N R S T G E
UniRef90_K9Z328 F L H G Y S L K V D E S S M T G E S D H V E V N G S E
UniRef90_U5FTY9 I L K S K D L K V D E S N I T G E K F T K E K Y N Y K L D Y I P S N I G E I
UniRef90_N9WGN6 L I S G H S L A I D E S S M T G E S K I V H K D Q K A P
UniRef90_K3YG07 L V R V T E L A I V N E S A L T G E S V P V H K D A V A L P E A T P V A D R
UniRef90_X7Z9J6 I I E A R S M K V D N S S L T G E S E P Q V R L P E C T N D N P I E T
UniRef90_B3RIH3 V V E G N S Q M D E A L T G E S L P V A K E A G A P
UniRef90_V6EXU8 I I A Q S F K V D N S S L T G E S E P Q S R S A E C T N V E N P L E T
UniRef90_E5SW90 I V N H D I K C D E S T A T G E S D Q V E K W E R L R N G S G S V I G K E I
UniRef90_Q5AT11 V E E G H S F V D E S M I S G E P V P A K Q Q D A E
UniRef90_U7P813 L F E A I D L A I D E S S F T G E T E P A V K I T A P I L K S N G H T S M
UniRef90_T1HMD3 L I T S R D L F I S Q A V L T G E A L P V E K Y H D T P P A A S T S L L D L
UniRef90_A4JP42 L V Q G N D L K I D E S S L T G E S D H V R K S V D K D P
UniRef90_I3IVQ0 L L E A R D L F I S E A L T G E S V Y P V E K I E G D E
UniRef90_D3SNF5 L L E S V S L Q I N E S T L T G E P V V S K T T V E A D F D S E A T Y P S N
UniRef90_R5Y8L3 L T E A V N L K I E E S A L T G E S V P V N K D T A
UniRef90_G2SY76 L A Q G D A V Q I D E S L T G E S V P V R K V A E P T E E V R P G G D D
UniRef90_F1Z7B0 L A E V H G L A V D E S M L T G E S V A V R P G P G D R
UniRef90_D6YBK8 L L Q S A D L Q I D E S T L T G E P I I N K H A S P N V H E E A T Y P
UniRef90_UPI00046F213F L F E G H I K A V S Q A L N G E S R D E N K T A A D N L D E A E S T D Y A S
UniRef90_D4KP54 L I A C S E A K F D R S V V T G E A E A I A G T V D M S D D N Y L E T
UniRef90_M9MAD6 L V S A E S L Y L D I S V M T G E S L P V A R N A H P E H P L Q E K V N L A E I
UniRef90_K9VH26 I I K G S S V D E S M L T G E S I P V E K H E G D
UniRef90_K2DSR0 F I A G H G V K C D E S S A T G E S S D Q M K K T P G E E V W Q R I Q D N K L
UniRef90_W9WQM0 V L D A Q E L Q V N E A L M T G E S P F P A F K T A A C S A A L P P A D A
UniRef90_UPI000462D6CD A V L L D A A A L Q A D E A L T G E S V P V R K L V G T P P A D A T P G G E D
UniRef90_K5YYM1 L L L E A H D L V E E A A L T G E S L P I E K S T R V L T S S L P L G D R
UniRef90_R2PKZ6 L L L A A G E P L Q V D Q S A L T G E S L P T T R S S G D V
UniRef90_B5IJ13 L L L A A T H L L I D E S S L T G E A V P V D K K P I W T E A D G A P C G E E Q
UniRef90_UPI0003603360 L L S R V D Q A V L T G E S L P A A K R A A W T G R A G P E P D P D T P L F D R
UniRef90_UPI00047E3BCA L T E A V Y L T I D E S N L T G E S N R P I K K S T M I N N G T S P V N Q R
UniRef90_G3AVP3 L Q A N D L K I D E S S L T G E S D H I K K S V E S D P
UniRef90_U6PBG5 Q F I S G T N I T V D E S L T G E S S V P V N K E K D S S F
UniRef90_K2EMW6 L I L E A K D L F V N Q S A L T G E S M P V E K F A H A A P T S D P F A A
UniRef90_UPI0003688AAF L I L W A K D M F V N Q S S L T G E S M P V E K F A K N K G E T L L E F
UniRef90_W6A8Z5 F I N G H G V K C D E S S A T G E S D L L K K D V A D G R T P R E D I H K L
UniRef90_F7WBR3 V L D G H S I D E S M V T G E S L P V E K G P G D P
UniRef90_X1BI01 L Q S G A V A V D E S S L T G E S P F A K E K E G G A
UniRef90_UPI000465CD1B V F Q S S G D L K V D N S I L T G E N K P I N V V T N C T D S S F I E S
UniRef90_D3AW28 L L I S G Q S L A L D E S S M T G E S K I V H K D S K S
UniRef90_G3LY22 L L R T Q G L T V Q A A V L T G E S A P V A K D A A D A A A D G D F D R
UniRef90_UPI0003675078 F I Q A T S D A R F D R S I L T G E A A P L L A S I D T T D D N Y L E T
UniRef90_M2MLQ0

UniRef90_F0NUE8 P N I L L Y E G T T I V S G S G S G I V F A V G N N T V F G K E V Q K I
UniRef90_A9KSE1 T T L L F S G S V I E R G G Q Q C Q C V V Y A T V G N Q T E L G K I A
UniRef90_F9WYN5 D P F M I A S G T K H V T E E G S V G R M L V T A V V G I H S S Q F G K T M S M A L L
UniRef90_H2Z412 L F L L S G T T H V M E G S S G R M V V T A V V G L N S Q A G G I I F A L L L
UniRef90_T1JVS1 R L M R G T T V V E G S H C V F E V T H V G D D R T E F F G K V I A S E L
UniRef90_K1Y4P9 H N I G L Q G G T H C I L G S C V T G I V V A T T G D D R T V F F G R I A S L
UniRef90_S0E382 T N C L W E G T N I V S G N A K A L V I Q T D D N T V L F G G S I A K S
UniRef90_I2F180 T N S V F L G T A V Q T G S A L G T A V I V C T G N T T V C G E I A H R L L
UniRef90_UPI000478A1B1 L N M A F S G T L V Q A G S A L G V V V E T G N T T E L G K I N Q A L L
UniRef90_V5XKK0 S N I A F M G T L V R C G K A K G I V I G T G E N S E F G E V F K M M
UniRef90_H3AHX2 K N L A F F S T N A V E G T C R G L V I S T G D R N T V M G R I A N L
UniRef90_T1I2N6 K N L A F F S T N A V E G T A R G I V I N T G D R N T V M G R I A N G L
UniRef90_E9HAW8 R C M L Y A G T T V V S G T A V A V V T A V G P D T Q E R R A A A E L
UniRef90_A0A057G6T7 Y F S S T V K K G S A G F M V V T A T G D N T Y V G R A A A L
UniRef90_I2GX41 N N M C Y M G T N V I S G S A S A V V V S T G D H T Y F G S M A S T L L
UniRef90_UPI000474E613 K N I G L Q G T H C I L S G T C T G L V V A T G D N T V F G R I A Q L L
UniRef90_C7YLI2 A Y M T N V T Y G R G E G I V T A L G M D N T K L G R I A K L L
UniRef90_D4L2X6 R N L A F F S T N C V E G S A R G V V V R C G D N T V M G R I A A G L
UniRef90_E4X256 K N L A F F G T L C K E G N G K G I V L F T G D K T V T G Q I A A G L
UniRef90_A0DDH6 H D F C Y A G T L A V Q G N A Y V L E K T G A A R S E Y G K
UniRef90_N9XAE7 H L F A G T M M V A G R A L A E V T A T G A R S E I G R I
UniRef90_N6Y8R8 E N I C L M G T S V V S G S A I A V V I Q T G V K T Y F S S I S S A L L
UniRef90_A0A037UQC5 L F S G T L L V R G R A L L E V T R T G R E S A L G K L A T L L
UniRef90_D7BEQ2 E N W G T A G T R L L T G T A R L R V V F T G G D T R Y G E I V R
UniRef90_A0A16XJC9 K N I A F M G T L V R C G N G K G I V V S T A E K S E F G E V F K M M
UniRef90_B0W7A9 A V M N G S T M L G G S Y G V M R V T Q V G D A T S E Y G K V
UniRef90_W0ETB8 M L L S G T H V M E G S G K M V V T A V V G I N T S Q T G I I M T L L
UniRef90_UPI0001E44A16 P F L M S G C K V A D G V G T M L V T S V G I N T E W G L L M A S I
UniRef90_A0A059AJR6 G D A I Q A G T S L T R G R A L A V V T A T G A N T R L A Q L A R L L
UniRef90_B9KYN6 V I Y Q G G T L N K N G T I K V R A T K V G K D T V L S Q I L K L I
UniRef90_A4XG38 E N I G F M G T S V V S G S G T A V A V H T G K R T Y F G A M T A Q L
UniRef90_C0ZNP4 V I E S G T T C K G E M E A V V I A T G V H T F S G T T A H L
UniRef90_Q9T0E0 P N I L L A G T V V F E G Q G S L V V V H T G M Q T L L G T I A E S
UniRef90_A7NIV7 P H V C F Q G S S V A T G S G T G L V V A T G A D T
UniRef90_X0N8W1 E D Y V Y T G T L V T T G G G T I L V D K I G T K T E Y G K I G K H L
UniRef90_R2XUC1 L P T V Y S G T L A V Q G G I A Q V Q A T G T I G T E M G K I G K A L L
UniRef90_A8YM93 I V Y G G T L V G N G G L M L V T K I G D E T E M G S I A K D L
UniRef90_D0NXA0 R D M V F K G T T V V R G G G R A V V T A T G T D S Q I G A I A E L L
UniRef90_D4W8B1 S N I G F T G T N I V S G R A T A V V L A I G C N T Y F G N M A K S I
UniRef90_B8ER96 A N L V L A G S T V A N G R A T A V V Y A T G A H T E F G E V A H L
UniRef90_R6BIP7 P G I C L M G T N V A S G T A T A V V V A T G G E T W F G S L A K S
UniRef90_B7KGT0 E N M L F K D T V V E R G S G M A V V V E T G P E S E I G Q I A T A L
UniRef90_D8ML82 C F A S S A V K R G G S A R A V V L G T G T H T E L G R I A A A L
UniRef90_D3T1A2 P A L V F S G T V C T G G S A R A V V L G T G T H T E L G R I A A A L
UniRef90_A0A017S9E2 A Y K I Y R S T I V E Q G Q G Y F E V T A V G D N T E L G K L A T A I
UniRef90_W5W8S0 A P F L L S G A K V V D G Y A Q M L V T S V G A N T Y S W G Q M M S T L
UniRef90_B2ITY3 D N I C L L G T N I S G S A T G V V I A T G N Q T Y F G T M A S T L
UniRef90_UPI00032A758C L Y M G T T V V S G Q G V M Q I E A I G T T T K M G K I A E E I
UniRef90_K2DDH7 I V Y S G S V C K K G Q A E A I V T A T G V N T F F G K T A K L
UniRef90_K9Z328 N P F L L S G T K V T D G F F M L V T S V G M N T A W G E M M S S I
UniRef90_U5FTY9 N N M L F K G S I V K E G N G I G V V I Q T G N N S I L L G S M F R N L
UniRef90_N9WGN6 F L M S G C K V A D G Y G S M L V T G V G T N T E W G Q L M A N L
UniRef90_K3YG07 C N M V Y S G T L V T A G H G A G I A V A T G A E T E L V E I H R L
UniRef90_X7Z9J6 R N L A F F S T Y C V E G N C R G I V V N I G D N T V M G R I A N L
UniRef90_B3RIH3 V V A G A I N G D G L R V R A T R V G S E S T I S R I T R M
UniRef90_V6EXU8 K N L A F F S T N A V E G T A R G I V V N I G D H T L M G R I A H L
UniRef90_E5SW90 D P F I I S G S K V L E G L G T Y L V T S V G P H S T Y G R I M V S L
UniRef90_Q5AT11 V V G G T L N K N G A L T F R A T R V G A D T V L S Q I V K M
UniRef90_U7P813 K N I G F M G T L V R C G N G K G I V V N T G E K S E F G E V F K M M
UniRef90_T1HMD3 E N V C F M G T N V V S G T A T A V V V A T G D D T Y F G T L A R
UniRef90_A4JP42 M L L S G T H V M E G S G R M L V T A V G V N S Q T G I F T L L
UniRef90_I3IVQ0 V F R G T H V V S G S F A I M S V Q K T G M Q T K M G E I
UniRef90_D3SNF5 E V L R G T T V V D G H G V C R I T A V G D A T E Y G K V
UniRef90_R5Y8L3 N R M A Y M S T N V T Y G R G V G R V S A T G M D T E I G K I A G M L
UniRef90_G2SY76 L P F V Y S G T L V V R G S G L A I V T A T G P A S Q I G R I G Q A L
UniRef90_F1Z7B0 A F A G T F V V E G A A E G V V A T G T R T R L A A I A S L
UniRef90_D6YBK8 T N M V L R S T M V M N G S G L A R V V A V G D A G T E I G K V A R
UniRef90_UPI00046F213F A N K V F M S T M V T S G E G Y M V A T V I G D A S E L G K I N K A L
UniRef90_D4KP54 R N I A L A G T S C V S G S A I G V V V A T G D N T V F G R I A A M
UniRef90_M9MAD6 P N L V L A G S T V S S G R G V A V V Y A T G A Q T E F G H V A H L
UniRef90_K9VH26 M V A G A T M N K M G S F E F V T T R V G S E T L A Q I I R L I
UniRef90_K2DSR0 D P F I I S G S K V L E G V G T Y L V T S V G V N S S Y G K I L M S L
UniRef90_W9WQM0 T N A L F A G S T V T G G S G K M L V R T G G R T R F G
UniRef90_UPI000462D6CD S P F V W A G S L I T G G S G I A R V T A T G P R T A I G R I G H S L
UniRef90_K5YYM1 V N M A F S G T Q I Q A G S A V G I V T N I G D D T E I G K I N H A L
UniRef90_R2PKZ6 V I F S G S I I R Q G E I D A L V F A T G G S T Y F G K T A E L
UniRef90_B5IJ13 R S C A Y A G T L I R Q G R G A L E L L A T G G R S E M G R I G Q S L
UniRef90_UPI0003603360 P E L C L M G T S V V S G T G T A V T V A T G P R T H F A A L Q R
UniRef90_UPI00047E3BCA S C I A H M G T L V R D G H G S G I V A T G H K T V F G G V F E M M
UniRef90_G3AVP3 V L L S G T Y A M E G S G K M L T A V G V N S Q T G I M T L L
UniRef90_U6PBG5 Y S G T L V V R G Q G I A K V T N I G T E S K I G K I G K S I
UniRef90_K2EMW6 Q N L A L M G A N V V S G Y A T A V V E T G R R T C L G A L A D K M
UniRef90_UPI0003688AAF N N I C L S G T S V V S G A A L A V V V F T G T Q T Y F S A I
UniRef90_W6A8Z5 D P F I I S G S K V N E G T G T F L V T A V G I F S Y G Q I S M A M
UniRef90_F7WBR3 V I G A T L N K L G L I K F E A T K V G K E T A L A Q I I Q L
UniRef90_X1BI01 I L Y G G T V I R K G E A T G E V F A T G A R T S F G R I S G L
UniRef90_UPI000465CD1B K N V V F M G T H V L N G S G I G V V V L T G N N S I M G K I N Q L
UniRef90_D3AW28 P F L M S G C K V A D G Y G M M L V V G V G I N T E W G L L M A S I
UniRef90_G3LY22 P Q L C F Q G S S V A S G S A T A V I V A T G A R T R F A
UniRef90_UPI0003675078 A C L G M A G T H C V S G N A W G L V V D T G D R T V F G C I A K L
UniRef90_M2MLQ0

UniRef90_C7DHD6 1 Q K A R V L R D G K W T E L K A A S L V P G D I I R V R M G D L V P A D T K R
UniRef90_G4MLR5 DE C M V L R D G G V Q V N M F L K A A S D I V V P G D I L V I K A G N K L P A D V R
UniRef90_W9VW55 K A V V L R E G S H L T I E L E A P M V V P G D I L V Q L E E A G T K L P A D V G R
UniRef90_B8NWW0 E S C L V Q R R D G S Q V L T V D G P D I V P G D V V Y L K A G N K L P A D V R
UniRef90_UPI00046396F0 T A R V L R D G G K L I E T H A A N V A P G D I I D L H P G G E Q V P A D V G E
UniRef90_R4U256 K E I G L T H E L V R G D L I Y L S S A G N L V P A D V R
UniRef90_C3EKN9 E K V T V L R K G N I P Y K E I G L T H E L V R G D I I Y L S S A G N L V P A D V R
UniRef90_P22189 M A H V T R S S K T D A I L D S H L V P G D V V V L K T G D V V P A D L R
UniRef90_E3GLD5 A D V K R D G G V R L A L A A E E L V V G D H V F L A A G D R V P A D L R
UniRef90_UPI00035FBA5C T A R V V R D G A D Q T I A A A D V V R G D L I R V E A A G D L V P A D L L
UniRef90_F5L5M9 T A L V I R N G Q E T E I V P V D E V V V G D I L V K P G Q K I P A D V G E
UniRef90_N9WE71 D I C K V Y R D G K A L I E V I L D E I V V G D Y I V L E S G S K I P A D G L
UniRef90_F4QTF9 A L V I R G G V R K I I E V I A G R E V V P G D I L V V E E S G S R I P A D A D
UniRef90_Q2FN38 K V I R D G S P G S I P M R D I V V G D V I L L E A G D M V P A D G Y
UniRef90_R9LME6 A T V I R N G Q E L E I S D S E D V M A G D I V V I R P G Q N S I P A D G V
UniRef90_R5MHZ9 K C T V F R N G K L E T I S S V T E V V V G D I V L I S S G N S I P A D G Y
UniRef90_B8H90 R V I R D G G V P Q W I P A Q D L V P D D V V L L S A G D Q V S A D L R
UniRef90_D8QTC2 Q V T R S A K R R R I L A S E L V V G D I V H L G L G D Q I S A D G L
UniRef90_L0PFW1 K V V R S G K P T N I S V Y Q L Q V G D I L L F E L G D L S A D G L
UniRef90_H0BPJ4 T A T V V R D A P P L E R E A P V A D L V P G D V I R L R P G D L V P A D
UniRef90_I4EFG1 T A R V I R G G R E V L D I P L S E V R A G D L V V V R S A G E K V P A D G R
UniRef90_Q5WCK9 A N V R R N G G R L E M E I A A E V V V G D V V V L S A G D K V P A D I R
UniRef90_M7SC02 M V N V V R S G K T V E I S V F D L L V G D V A L L S V G D L V P A D G V
UniRef90_F4FZK4 M A K V K R D G K W N L T P A R Y L V P G D I V T V K I G D I V P A D L K
UniRef90_UPI0004784941 K A R A L R D N T W G E V I E A N N L V P G D I V R L R L G D V I P A D V V
UniRef90_UPI000377DE1A T V T V T R D H V K Q E I D M E L L V P G D L I H F S A G D L V P A D V R
UniRef90_K2DTM9 A R V I R D S K E S E I A V S Q L V S G D V V I L E R G A R V P A D G K
UniRef90_K2D0H6 Q A R V L R D G K E L L V P T S E V K I G D V L I L K P G D K V P A D G V
UniRef90_Q93Z22 K C K V I R D G T L L Q T M E A V N L V P G D V V V M K F G D L V A A D V K
UniRef90_A0A023NSA8 Q A R V I R D G R N P I S S A A V V V D D L L S L R E G D R I A A D G L
UniRef90_H9JZG6 D V A T V I R D T T G Q T A T V P A E A K V P G D I V I P S H G C L M P C A D A V
UniRef90_T0Y159 L A R V Q R G G T W R T L P A R D L V P G D R L H I R M G D I V P A D A L
UniRef90_UPI00035F219A K A R A L R G G Q W L S I P A A E L V P G D V I T V F A A G E L P A D C L
UniRef90_W9YU66 Q C T V L R D G Q K V V I P S R E L V V G D V V V I N T G D S I S A D L R
UniRef90_W7A057 A R V C R D G A W Q L E V P A A G L V N G D V V H V R V G D L A P A D I Q R
UniRef90_UPI0003729C29 A R V C R D G A W Q L E V P T A G D L V P G D V V L L Q A G D V V A A D L R
UniRef90_W9BIL0 T A R V L R D G G Q S V R E I D V D Q V A V G D R V L V R P G E R L P A D V G E
UniRef90_B8GL21 A T V I R D G G E R R V P S E D V V I G D L V E L K A G E W I P A D V R
UniRef90_D6VWVH6 A R V K R D G I W Q E I N S E G L V P G D L V H I R T G D F V P A D M D
UniRef90_C6HUU0 V V R A G R V T R T P V A D L V V G D V V Q I G Y G D M L P A D G V
UniRef90_F6WCS9 T C S V I R N N K R I L I A G T E E V C V G D I L V L N A G S L V A A D S L
UniRef90_UPI00045EBCB4 A L V I R D G K E L L I A G R E V V R D D L I V I S E G D R I A A D S T
UniRef90_S5LW71 Q M C K V I R D V N F K I N D I D N S E L V Q G D L I Y L S N G D L I P A D I K
UniRef90_UPI0001745937 T S R V I R E G K E C V T E A R D L V P G D I L L V A A G D A V G A D A R
UniRef90_H1YF63 Q Q V K A T R L L N G E T E V I S A R D V R P G D I L L V N Q G D K V P A D G D
UniRef90_K3V1I2 K V T R A G K P Q N I S I H D V L V G D V M L L E P G D V P A D V G V
UniRef90_UPI0002B42DCA Q E A I V M R D G G S K M T I S P S H C V I G D V V Y L K S G D R I P A D V R
UniRef90_M1BPN9 T A R V M R E G R R Q E V S I F D I V V G D V V C L K I G D Q I P A D G L
UniRef90_I4EAN1 T A R V L R D G K E I D L A V E E V V A G D T V V I R P G D K I P A D G E
UniRef90_UPI00036B3F3 T A R V K R D G K W V T P E A A R E L V P G D A I R L R L G D L V P A D A R
UniRef90_H1Y833 C K V I R N G K V E E T K S E D L V I G D S L R I E E G T S I T A D G V
UniRef90_UPI0003F0D11B V I R G G E S L Q I N N K E I V V G D I C Q V K Y G D L L P A D G V
UniRef90_B4VD49 T C S V R R R A G G A T V E V A M D R V V P G D L V K L A A G D R I P A D L R
UniRef90_H3SE68 T A T V I R D G G I E Q E V P V D D V Q V G D R V I V R P G S K I P A D G I
UniRef90_S8AT10 A T V L R S G E P M R I P S T D L V T G D V V K L S V G N K V P A D L R
UniRef90_UPI0003074FD3 T A T V R R G A D P R V R E I P V D Q L V P G D V V L L A P G D V V P A D V R
UniRef90_A0A011R4N8 M A R V E R D G Q L L D I D A L V P G D I F I V R P G E S L P A D G E
UniRef90_R8AZZ2 T A R V I R D G G E E R D I P V I E V R K G D H I R V R P G E K L P A D G V
UniRef90_Q8YWI6 T A R L I R N G R E E V D V P A E E V E I G D V V L V R P G E K I P A D G E
UniRef90_R5J3D0 E T A T V I R D G K E V K P A A E V R K G D V F V V R P G Q S I P A D G V
UniRef90_I7LXX3 E M V H V T R N D K I V Y I D V K Q L V V G D I L H I Q I G D L L P A D G I
UniRef90_K5CEL9 V T R D K Q I L R I E G K D V V Y D D L L L N E A G D R V P A D C E
UniRef90_UPI0002197A2A A H V K R N G K V L E T V S S E A L V V G D V V L L E A G D L V P A D I R
UniRef90_B4WBU3 T A H V R R D G G Q V V E L P V E D L V V G D T V V V R P N E R L P A D G F
UniRef90_Q1J3E7 T A R V V R N G Q E L L E L P T D E V L V G D L I S V R P G E K I P A D G E
UniRef90_UPI00028A384C T A L V V R D G K E M A I P V E E V V T G D L L V K P G E K I P A D G E
UniRef90_A0A024F6V3 K V Y R N A V I E V E V D S R D L V P G D L V L L R Q G D V V P A D G V
UniRef90_D7FSN6 A T C F R G G K A S D V M A R E L V P G D V V L V K S G D R I P A D C R
UniRef90_W5ERT6 L V Q V T R D G G F R Q R T I D D L L P G D V V H L A V G D Q V P A D G V
UniRef90_A9UZL6 Q K C W L I R D N T K Q G A L A A D V V V G D L V T F G V G D R I P A D C R
UniRef90_M5BUW5 K V I R D G K E Q I I N E V M V G D I A L L E P G E I P C A D G V
UniRef90_F2LX54 A L V L R D G K W S E V D A K Y L V L G D V V K L K I G D I V P A D V R
UniRef90_B4STQ0 V J A H V I R D G R T I E I P V N E V L S G D V V E V R P G E R V P A D G E
UniRef90_UPI0004756C1C V A H V I R D G R T I E I P V N E V L S G D V V E V R P G E R V P A D G E
UniRef90_H1C9Z0 T A M V L R D G A E V E V P V I E D V A V G D I L V V R P G G R I P A D G V
UniRef90_U6IEC9 V M R D G E F F E C L V G E I V V G D I C L I K Y G D L L P A D G V
UniRef90_E6SB46 M A T V L R D G G P V L D V P T A E V V G D L V L V R P G S K V P A D G V
UniRef90_D4JV38 R V V R D E L L Q L I P A A G L V P D D I I V R P G G E I V P A D A H
UniRef90_C3KQ40 A R V V R D G E T V I E V P L D Q V Q M G D L I L V R P G D K V P A D G E
UniRef90_H1G3C1 T A R V W R D G D W T E V D V D Q V L P G D R V Q V R P G E R I P A D G V
UniRef90_V5GE69 T A R V V R D G A E E E I D V R D V P G D V L R V R P G E K V P A D G E
UniRef90_UPI0003B4D56A T A R V E R D G K T L D I P V E V V Q V G D I V V V R P G E K I P A D G E
UniRef90_Q0W4B5 T A R V K R D G E W I E I S V K E I V P E D I F Q V R P G E N I P A D G E
UniRef90_D6YSK8 V V R D G G V L R K V D A D T L V L G D I V K I E A G D L V P A D L R
UniRef90_D2UX95 A T V I R D G K E L L P M T I S V S E V M Q G D V V I K P G Q K I P A D G K
UniRef90_R7AWZ9 L V K V I R S G S P M T I S V S H D V L V G D V M L L E P G D V V P A D G I
UniRef90_E9EJ13 E L V R V V R Y G D K G E S R V R K W S L V V G D I V Q L E P G D V V P A D G L
UniRef90_V9FDF8 L V R V V R Y G D K G E S R V R K W S L V V G D I V Q L E P G D V V P A D G L
UniRef90_UPI0003AEF34F A L V R R D G E K Q M R T E Q L V V G D V E V K G G D R V P A D I R
UniRef90_U1MCU6 K V I R D G G I E Q R T I S G K E V V V G D I V A L E S G D K I L T D G L
UniRef90_M1IAU8 K V I R D G G I E Q R T I S G K E V V V G D I V A L E S G D K I L T D G L

UniRef90_C7DHD6 L L E S Q G M 50 E T D E S S I T G E S L P V S K A V G D V 70 80
UniRef90_G4MLR5 F C E V S S D A K F D R S S I L T G E S L P L S K A V G D V E T T D A N Y L E T
UniRef90_W9WW55 L V T E G A F L Q V D R S S I L T G E S L A A D K H L G D S T
UniRef90_B8NNW0 L I E V S N D A S F D R S S I L T G E S L P I H G T V D S T D D N Y L E T
UniRef90_UPI00046396F0 V V I E G S S F I D E S M I S G E S P V P V E K Q P G S R N
UniRef90_R4U256 I L W S N D L F I N Q A S S L T G E S M P V E K H A N Y N P S K P S L L E L
UniRef90_C3EKN9 L I S S E N L L V I N Q S S L T G E A L P V E K S N Q Y F H M Y K K R K I E L
UniRef90_P22189 L V E T V N F E T D E A L L I T G E S L P V I K D A H A T F Q M N E D V P I G D R
UniRef90_E3GLD5 L T H T E D L F V S Q S A V T G E S G L L E K D S R V E Y S C Q E E M F S Q Y
UniRef90_UPI00035FBA5C I E D A F R C Q A D E A A L T G E S V P V F R S A G E E
UniRef90_F5L5M9 V T A G R S A V D E S A L T G E S I P V D K E A G D E
UniRef90_N9WE71 L I D G E I L K V D N S A L N G E S E E C P K I P A N Q A E L E I A S E G E
UniRef90_F4QTF9 L F E S H D L K V D E S L T G E S V P V Y K T V G T P D
UniRef90_Q2FN38 L L V A A E T E A D E S A F T G E S E P V K K I V Q D S
UniRef90_R9LME6 V E S G H G F V D Q A A I T G E S V P V E K E A G D P
UniRef90_R5MHZ9 I I E G K L T V N E A N I N G E T Q D K E K N R G E Y
UniRef90_B8H90 L L D D G F I E V D E S L L T G E S E P V P K I A G A E
UniRef90_D8QTC2 L L L Y G Q S L L V D E S C M T G E S E M R A K S A E
UniRef90_L0PFW1 L I D G Y N V S C D E S S A T G E S N T I E K V P C S L S L S S I F D E R Y
UniRef90_H0BPJ4 V H L L R S D G L T V H Q S A L T G E S A P V A K R A L D V P D P G A G P F A Q
UniRef90_I4EFG1 I I E G H S A V D E S M L T G E S L P V E K G P G D E
UniRef90_Q5WCK9 L I E A H N L R V E S A L T G E S T A V D K Q T D V L D T D T V L N D R
UniRef90_M7SC02 F I K G H G V K C D E S S V T G E S D L M K K L P A D E V G G N V N M D K L
UniRef90_F4FZK4 I I E G Q V I L V D Q S V L T G E S Q P V E R K F L E A
UniRef90_UPI0004784941 L V N G D Y I S V D Q A A L T G E S L P V T K G V G D T
UniRef90_UPI000377DE1A L I A S K D L F V A E S A L T G E A L P V E K Q I K K R T H R P I N A L E L
UniRef90_K2DTM9 I I Q A F N F E L N E A A L T G E S A S V F R D S R D P
UniRef90_K2D0H6 L I D G E T A I D E S L V T G E S L P V S K K R G D
UniRef90_Q93Z22 L F S D D P Q H P F D S H S E E V P M Q I D Q A A L T G E S L P A K K H T
UniRef90_A0A023NSA8 L V S G H C L E V D E S L L T G E S V P V G K V P R A G D A S
UniRef90_H9JZG6 L L T G N C I L N E S M L T G E S V P V T K T P I P N E V I Y D T K E H A
UniRef90_T0Y159 L V E G S V E V D Q S M L T G E S T A V S R G P A
UniRef90_UPI00035F219A L I D G D Y L S V D Q S A L T G E S L P V S K R V G D S
UniRef90_W9YU66 L T R S S E L T I N E S L T G E N E P V E K N A T A T V G A D V R L N E Q
UniRef90_W7A057 L I E V I E L K T N E S L L T G E S E D V K K T L T S D D Y T T P F A
UniRef90_UPI0003729C29 V S S G D V L V D Q S L T G E S V P V D R G L T D T
UniRef90_W9BIL0 L V A T D L M V D Q S V L T G E S L P T A K S A D V A P A A T P R A A D T
UniRef90_B8GL21 V V D G D S W V D E S M I T G E P V P V H K A A G A R
UniRef90_D6VWVH6 L V K C Q S L K V D N S A I T G E S N P Q S R S S E L S D P L A I E S
UniRef90_C6HUU0 L V S G S N L L V D Q S S L T G E A L P V E K N P K D A
UniRef90_F6WCS9 L L R G H D V K V D E S S L T G E S E L V R K S P R R D P
UniRef90_R7HKA9 I V D S K D L F V N E S V E T G E S I P V E K K I T N N K N I D S I F D I
UniRef90_UPI00045EBCB4 V V W S Q D L L L N E S L T G E S M P V R K I A Q D G S A K T P D Q R E D
UniRef90_S5LW71 L V W S N N L Y L N Q S S L T G E S F P V Q K K I T N A K E N Y L E F
UniRef90_UPI0001745937 L L E V A A L E V S E A A L T G E S L P V A K Q T A P L P R A T G L A D R
UniRef90_H1YF63 V L S G D A S I I D E S M L T G E S I P V E K T
UniRef90_K3VII2 F I S G H N L S C D E S S A T G E S D L I K K V G A D Q V E P T P Q L K K L
UniRef90_UPI0002B42DCA I I E S R G M K V D N S S L T G E S E P Q S R N I E C T S D N P I E T
UniRef90_M1BPN9 F L D G H S L V Q V D E S S M T G E S L A V Y K D K T V I D N D H V Q I N K T Q
UniRef90_I4EAN1 V T E G S S A V D E S M I T G E S I P V E K H V G D E
UniRef90_UPI00036B3F3 L L D G D E V S V D Q S A L T G E S L P K T C K S G D A
UniRef90_H1Y833 I V Q S N D F S V N E S I L T G E S L A V Y K D K T V I D N
UniRef90_UPI0003F0D11B V I Q S N D L K I I D E S S L T G E S D Q V K K G P L R D V
UniRef90_B4VD49 I L T A K D L M V S Q A A L S G E S L P V A K T E D L G Q H G T T D P V E A
UniRef90_H3SE68 V L D G T S T I D E S M L T G E S V P V E K Q P G D R
UniRef90_S8AT10 L I S T S G D T R F D R S V L T G E S E E I D G T T E M T D N N F L E S
UniRef90_UPI0003074FD3 L L R A T G L T L H Q P A L T G E S A P V A R A A V D D P P P G E L P Q Q
UniRef90_A0A011R4N8 L V I D G S S N V N E A M L T G E S M P L A K R R G D R
UniRef90_R8AZZ2 I A E G S T R I D E S M L T G E P M P L S K S A G D E
UniRef90_Q8YWI6 V V D G T S T V D E A M V T G E S I P V K K Q P G D E
UniRef90_R5J3D0 V L D G A S A V N E A A L T G E S V P V D K A P G D G
UniRef90_I7LXX3 L V E G S E I Y M D E S S V T G E S D L I P K I S I F N M T Q A N L K Q
UniRef90_K5CEL9 L I S D R M F S C D E S L L T G E S V P V S K S
UniRef90_UPI0002197A2A L L I D S A S M K I E E A A L T G E S V P V E K E A Q I L P D E D I P L G D R
UniRef90_B4WBU3 V V V G T T S I N Q A P V T G E S M P V D K Q P V A D P E A R P A Q V G S
UniRef90_Q1J3E7 V V Q G A S F V D E S M I T G E P V P V S K Q P G A P
UniRef90_UPI00028A384C V I E G E S A V D E S M L T G E S L P I E K R P G D H
UniRef90_A0A024F6V3 F E S S Q G L Q V D E S V L T G E S F P I V K K A T P L E P F F R S C A D E
UniRef90_D7FSN6 L V I Q A A D L F V D E S L T G E G H A R E K V T A A H G H R A I P L A E C
UniRef90_W5ERT6 L F I S G F S L L L D E S S L T G E S E P V D
UniRef90_A9UZL6 L I E A V N L E I D E S N L T G E N K T R S K R C H H P S T P L P S Q S I R
UniRef90_M5BUW5 F L R G H N V R C D E S G A T G E S D A I K K M A E A K A L K P G E K T K L
UniRef90_F2LX54 L I G G G G F L L V D Q S A L T G E S L P V E K S K G D E
UniRef90_B4STQ0 V I E G R S Y I D E S M I S G E P I P V E K Q P G S S
UniRef90_UPI0004756C1C L V K S H D L L V S Q A A L T G E A L P V E K Y C L T E P T Q T P H D I G E
UniRef90_H1C9Z0 V T E G A S S V D E S A L T G E S L P V E K I P G A K
UniRef90_U6IEC9 I I Q S N D L K V D E S S L T G E A D H V K K G E H I
UniRef90_E6SB46 V E D G Q S D V D E S M V T G E S L P V A K S V G S Q
UniRef90_D4JV38 I I E Y V G L T V D E S R F T G D N T P V Q K H D G A D P K A T G L K K S C
UniRef90_C3KQ40 V V D G S S Y V D E S M I T G E P V P V A K G L G A S
UniRef90_H1G3C1 V E E G R S W V D E S M I T G E P V P V D K P V G A A
UniRef90_V5GE69 I T V A T D L S I D E S N L T G E N E P V A K Y A D A T V G A D V R L N E Q
UniRef90_UPI0003B4D56A V I D G S S Y V D E S M V T G E P D P A A K G A G D E
UniRef90_Q0W4B5 V V D G Y S A V D E S M V T G E S I P V S K K E S D N
UniRef90_D6YSK8 V I E G S S S V N E S M L T G E S M P V E K
UniRef90_D2UX95 L L H T S G L K V D N S S L T G E A D P Q S R T S E S S S S N P L E T
UniRef90_R7AWZ9 L I S G T G Y V D Q S T I T G E S I P V E K R P G D
UniRef90_E9EJ13 F I D G H S L S C D E S P A T G E S D L V K K I P A E D V E E A P D T K K L
UniRef90_V9FDF8 A F N T R E L K V D E S T L T G E P E L M R K G D A M L M Q S S E S P D D E I L
UniRef90_UPI0003AEF34F F I Q G N D L K I D E S L T G E S D Q V R K S V D K D P
UniRef90_U1MCU6 V V S A F G F K V D N S S L T G E S E P Q S R S P E C T N E N P L E T
UniRef90_M1IAU8 F V I T G N F L G I D E S A L T G E N I T V R K N E E D P W F R

UniRef90_C7DHD6
UniRef90_G4MLR5
UniRef90_W9VW55
UniRef90_B8NNW0
UniRef90_UPI00046396F0
UniRef90_R4U256
UniRef90_C3EKN9
UniRef90_P22189
UniRef90_E3GLD5
UniRef90_UPI00035FBA5C
UniRef90_F5L5M9
UniRef90_N9WE71
UniRef90_F4QTF9
UniRef90_Q2FN38
UniRef90_R9LME6
UniRef90_R5MHZ9
UniRef90_B8H910
UniRef90_D8QTC2
UniRef90_L0PFW1
UniRef90_H0BPJ4
UniRef90_I4EFG1
UniRef90_Q5WCK9
UniRef90_M7SC02
UniRef90_F4FZK4
UniRef90_UPI0004784941
UniRef90_UPI000377DE1A
UniRef90_K2D0H6
UniRef90_Q93Z22
UniRef90_A0A023NSA8
UniRef90_H9JZG6
UniRef90_T0Y159
UniRef90_UPI00035F219A
UniRef90_W9YU66
UniRef90_W7A057
UniRef90_UPI0003729C29
UniRef90_W9BIL0
UniRef90_B8GL21
UniRef90_D6VWVH6
UniRef90_C6HUU0
UniRef90_F6WCS9
UniRef90_R7HKA9
UniRef90_UPI00045EBCB4
UniRef90_S5LW71
UniRef90_UPI0001745937
UniRef90_H1YF63
UniRef90_K3VII2
UniRef90_UPI0002B42DCA
UniRef90_M1BPN9
UniRef90_I4EAN1
UniRef90_UPI00036B3F3
UniRef90_H1Y833
UniRef90_UPI0003F0D11B
UniRef90_B4VD49
UniRef90_H3SE68
UniRef90_S8AT10
UniRef90_UPI0003074FD3
UniRef90_A0A011R4N8
UniRef90_R8AZZ2
UniRef90_Q8YWI6
UniRef90_R5J3D0
UniRef90_I7LXX3
UniRef90_K5CEL9
UniRef90_UPI0002197A2A
UniRef90_B4WBU3
UniRef90_Q1J3E7
UniRef90_UPI00028A384C
UniRef90_A0A024F6V3
UniRef90_D7FSN6
UniRef90_W5ERT6
UniRef90_A9UZL6
UniRef90_M5BUW5
UniRef90_F2LX54
UniRef90_B4STQ0
UniRef90_UPI0004756C1C
UniRef90_H1C9Z0
UniRef90_U6IEC9
UniRef90_E6SB46
UniRef90_D4JV38
UniRef90_C3KQ40
UniRef90_H1G3C1
UniRef90_V5GE69
UniRef90_UPI0003B4D56A
UniRef90_Q0W4B5
UniRef90_D6YXK8
UniRef90_D2UX95
UniRef90_R7AWZ9
UniRef90_E9EJ13
UniRef90_V9FDF8
UniRef90_UPI0003AEF34F
UniRef90_U1MCU6
UniRef90_M1IAU8

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

UniRef90_M1GY90 1 M[V]K[V]I R D G N E 10 M Q I V S N K D L V V G D L V T L 30 S A G D N V P A D D G Y 40
UniRef90_UPI00040EC94A Q T A Q V L R R E S G G Q E K M Q I V S I D Q Q L V L V G D R L I V S P G G Q Q V P V D D G K
UniRef90_W1QIK9 K V Y R R D G G E K V P M F S T L S G Q Q L V L V G D L I Y L V S E T G G E V L P A D D S G I
UniRef90_BOE5Q1 K I V R D G G K V P M E S T L S G Q Q L V L V G D L I Y L V S E T G G E V L P A D D S G I
UniRef90_W7B2L3 T A R V M R D G G K E V P M E S T L S G Q Q L V L V G D L I Y L V S E T G G E V L P A D D S G I
UniRef90_U6E264 K V Q V Y R R D G G K I E M M P L D V T D E V L T I G D L I F L V R E T P G G S K I V P V D D A R
UniRef90_A6X3Z4 M A R V R R D G G K T I E I S L P I D A R V V L V G D I V E V R E T P G G R V P V D D A R
UniRef90_C9SLE1 K V I R S G G K P T N L S L H I D A R V V L V G D V M L L E A G G D V I P V D D G V
UniRef90_K2B760 T A R V I R S G G K T S M I P I D Q V V V Q G D V L H L V R P P G G S K I V P V D D G V
UniRef90_I8TR25 K A V R S G G K S S I Q I I N S I Y L T I G D V V L E A G G D R I P A D D G
UniRef90_U5MZ20 T C K V L R D S S I Q I I N S I Y L T I G D V V L E A G G D R I P A D D G
UniRef90_Q23CL3 E K F K V V R E S G G K V L R V C G S D L V E G D I F I N E R G G Q I P A D I R
UniRef90_UPI0002C2DFC7 Q Q A L V I R R G G E K A E V I D I Q I V X A D V V V V G D L V E V K R G D R I P A D
UniRef90_L0MJN9 T A R V L R D G G K A A E V I D I Q I V X A D V V V V G D L V E V K R G D R I P A D
UniRef90_E9CHB7 T V L R D G G K E S T Q V I S S W F D I Q V G D V V L S V G E E I P A D D G
UniRef90_E9EDL6 L V K V I R N N N V C Q V P R K D I V V G D I L L L E A G G E E I P A D C E
UniRef90_C6Z2A8 K C Q V I R G N K T V T E I D A T K D L V V G D I L L L E A G G E E I P A D C E
UniRef90_S4MNX2 L A N V I R N G E L R E I P A V E V V C G D L V D V L S E G G R A I S A D I R
UniRef90_A2DYG8 T A T V M R D G T E M K I L I E S V V A G D I V Y V K P G E K I P V D D G E
UniRef90_I0D629 A T V I R N N A E I K I P I S S Q V L V G D I L V K P G E K I P V D D G E
UniRef90_K2ETS5 D T A V V I R D G G E Q S P V H T R D L V V G D V V A L G G G K R I P L D D G I
UniRef90_R6PDV5 T A R V R R D G G E L S E T F I E I P T N E I V V G D V F C I I E G G K M I N A D D G K
UniRef90_L2TNZ3 K V I R D E T F I E I P T N E I V V G D V F C I I E G G K M I N A D D G K
UniRef90_UPI00035DFFD6 M A T V K R D G A W Q Q I D A A V I V P G D L V K L A S G S A V P A D C S
UniRef90_W6L5X1 E P V E V I R N G E N T T Q Q I D A A V I V P G D L V R L N T G G S E V P A D D G T
UniRef90_I0TD00 T A R V I R N G E E M D V I M I E A V V V G D L I V V R P G E K I P V D D G I
UniRef90_I9CCC8 A T V I R N G A E V T L V V P L D Q V V V G D V I H L R A G G D I V P A D V R
UniRef90_G5F2U8 R T L R R N G G E M V L V V K T D D I V V G D L V E I T A G D S V P A D D G R
UniRef90_R7LJK6 K A T V L R G G G A E I E I P T A E V L L G D T V I L R P G N K I P V D D G E
UniRef90_D8M980 T A R V E R D G A L V E I D A A Q L I V G D V F V V A A G A R V P V D D G E
UniRef90_A7IPW3 C R A L R D G A W C E L D P A A Q L V P G D V V R V R L G D I V P A D L K
UniRef90_L0SXA2 K V I R G G N G A T K T I P V T E L Q V G D V F K I E Q G M R I P A D A V
UniRef90_UPI00036AC4B8 T A R V I R H G Q V I Q I P S K E L L V G D L H I Q I G D V M P V D D G I
UniRef90_J9F0K1 M A T V R R D Q A W Q A L A A S Q V V P G D I V Q L K I G A L V P A D L A
UniRef90_Q2JJ96 T A R V E R N G K L A E V P A A S L Q P G D D V V V R Y G E A V P V D D G V
UniRef90_G0QVR3 A L V V R D G A Q V R I A G R D V V R G D L L L A E G D R V P A D A V
UniRef90_S2PZM5 M A R V I R D G G R E I E V P V A G L K A G D V A V V R P G E R V P A D G V
UniRef90_C1D5J6 Q V H V T R K G F R Q R I S I Y D L L P G D V V N L A I G D Q V P A D D G L
UniRef90_I4BG62 K V I R N D N I T Q V L K N D I V V G D V V V L E T G E E V P A D D G E
UniRef90_D7CNY6 A H R I R D G E I E D V P V R E I E T D D L I L I R P G E Q I P N D G E K
UniRef90_F2E844 T A R V R R D G G R E E E L P V E I R P G D V L V R P P G E K I A M D G K
UniRef90_UPI000372BD68 T A R V V R D G G K E L D I A I D Q V L I D D V V R V R P G E K I P V D D G E
UniRef90_UPI000346F375 A T V K R G G R V Y N M D A T E L V P G D I V C L G A G G A I P A D C I
UniRef90_A5D5Q9 A L V I R N G K R T L V A G R S I V V R D D L I I S E G D R V A A D A T
UniRef90_C7RBS8 A K V L R D G M W I N V H A V N L V P G D I I F L K V G D I V P A N A R
UniRef90_C1E4D2 C I V I R D G K K Q Q V S E E L V T G D L V V I S A G A I I P A D M R
UniRef90_V5DW42 L V K V I R S G K T I E L S V F D I L A G D V V H L E P G D I V P V D D G I
UniRef90_D1R9E9 V A T V L R N G K E V I E V P V E E L Q I G E V F V R P P G E K I P V D D A R
UniRef90_B9FAC2 K V Y R D G G Q I S Q I L K K E L V V G D V V L E T G E E V P A D D G T
UniRef90_A8NLG9 T A F V I R D G G Q I V E I P T A E V V V G D R I I V Y P G D Q I P V D D G S
UniRef90_UPI00016Q0B0 Q T A T L L R D D Q E I I V D V I D V E N I Q V G D I L L V R P G E R I P T D G E
UniRef90_L7L166 T A R V R R N G A E V D I P V E V I V G D V V I R P P G D R I A V D D G E
UniRef90_D0BN71 V K V I R D G G A Q K M I S I Y D L V V G D I I N L Q T G D V V P A D A T
UniRef90_C2MDC5 T V K V I R N G S E S K I L M K V P V E E V V P G D M I F L S A G D T V P A D V R
UniRef90_K9U3A7 Q Q A L V I R E G E K T I Q I N A E G V V V G D L V E V K G G D R V P A D L R
UniRef90_H8GQW8 T V V R N G K V V Q I P T Q E I T V G D L C I T R E E G K M I N A D D G K
UniRef90_W7W8L5 T A R V M R D G G K E T D I P V E Q V Q T G D L L R V P P G E K I A V D G E
UniRef90_A5DFI8 T A R V L R D G A E V D V P I A E V R V G D H I R V R P P G E K L P V D D G V
UniRef90_W4KCC8 T V I R S G G E R L S I S V Y E V V V G D L T I D T G D V L C A D D G V
UniRef90_C3BG13 D T A T L V R D G G K E V M E T V P I D E V E P G D R L L V R P P G E R V P V D D G D
UniRef90_H9GMX2 A R V R R N N A I L S I S S D Q L V P G D I V L L S A G D M V P A D L R
UniRef90_UPI000408AE65 V R R S G G I E G E V L A S S L V P G D I V L L S E G D K V P A D M Y
UniRef90_U7G513 T A R V L R D G G V I E Q E L P E I Q V V T G D T I L V R P P G E S I P V D D G E
UniRef90_A1SN61 G Q I Q T I E A V G L V P G D I V I V R L G D I A P A D V K
UniRef90_A0A058Z5T6 A T V L R D G G K E V K L P V E D L V I G D Q I L V K P G E K I A V D G Q
UniRef90_UPI000225B0B8 E T A V V M R N G T E V T V K A A D I V A G D T L V V L K T G E R I L S A D A R
UniRef90_E1JWU4 A T V I E D G G K E R K V P V D Q V S V G D V L R V R P P G E K I P V D D G L
UniRef90_F2LJ34 E A T V V R D G G D E Q Q V P V E E I R V G D R V K I R P P G E K V P V D D G V
UniRef90_X0PGK3 T A I I R D G G K E I E M P I E E V E V G D I L V V K P P G E K M P V D D G E
UniRef90_K7S3X2 T A R V E R D G G E E V E V P V K A L A I G D V M I V R P P G E K I P T D G E
UniRef90_F9DXX3 T A V V L R D G A E V V K V P I E D L K V G D R F V V R P P G D S I P V D D G I
UniRef90_I0YLC0 T A R V V R D G D A E V T E V D I A E L G K G D E I E V R P P G E R I A L D D G E
UniRef90_U5P826 A T V I R D G G K T Q K I E L E Q L V M D D M V H L K R G D Q I P A D D G V
UniRef90_J2KJP0 D V A T V L R N G C F S I L P A A D L V P G D I V E V S V G C K I P A D M R
UniRef90_R7BZG9 A E V L R D G G K Y V K I P L E D V Q V G D L V R V K P G E K I P V D D G T
UniRef90_UPI0002889D5D K V L R A G N Y D Q V P V A D I N V G D V V L E S G D A V P A D A V
UniRef90_V4XUJ6 T A T R L K D G G V E Q R I P A E D V Q T G D L L V K A S G A V P A D D G V
UniRef90_T0PEL9 Q T A T L L R D G A E T V I P I E R V Q V G D E F A V H P G E N V P V D D G V
UniRef90_B8GM04 T V V R N G K K C D I S H M S E I S V G D V V V Q I F E G M E I P A D G F
UniRef90_W3APV4 L V K V I R R E G K P D Q V S V G D I S V G E V I L A E T G D R V P A D A V
UniRef90_Q5QWZ0 T A T V L R D G G K Q R E I P L A R V V P G D I V L L A A G D M V P A D
UniRef90_B3WC38
UniRef90_K4CD34
UniRef90_W2RTV9
UniRef90_UPI0004698122
UniRef90_W4GVMM4
UniRef90_C3X421
UniRef90_D1Y5J0
UniRef90_A0DRC1
UniRef90_H3G5Z1
UniRef90_I2PZU0

UniRef90_M1GY90
UniRef90_UPI00040EC94A
UniRef90_W1QIK9
UniRef90_BOE5Q1
UniRef90_W7B2L3
UniRef90_U6E264
UniRef90_A6X3Z4
UniRef90_C9SLE1
UniRef90_K2B760
UniRef90_I8TR25
UniRef90_U5MZ20
UniRef90_Q23CL3
UniRef90_UPI0002C2DFC7
UniRef90_L0MJN9
UniRef90_E9CHB7
UniRef90_E9EDL6
UniRef90_C6Z2A8
UniRef90_Q3SEE4
UniRef90_S4MNX2
UniRef90_A2DYG8
UniRef90_I0D629
UniRef90_K2ETS5
UniRef90_R6PDV5
UniRef90_L2TNZ3
UniRef90_UPI00035DFFD6
UniRef90_W6L5X1
UniRef90_I0TD00
UniRef90_I9CC8
UniRef90_G5F2U8
UniRef90_R7LTK6
UniRef90_D8M980
UniRef90_A7IPW3
UniRef90_L0SXA2
UniRef90_UPI00036AC4B8
UniRef90_J9F0K1
UniRef90_Q2JJ96
UniRef90_G0QVR3
UniRef90_S2PZM5
UniRef90_C1D5J6
UniRef90_I4BG62
UniRef90_D7CNY6
UniRef90_F2E844
UniRef90_UPI000372BD68
UniRef90_UPI000346F375
UniRef90_A5D5Q9
UniRef90_C7RBS8
UniRef90_C1E4D2
UniRef90_V5DW42
UniRef90_D1R9E9
UniRef90_B9FAC2
UniRef90_A8NLG9
UniRef90_A0A016Q0B0
UniRef90_L7L166
UniRef90_D0BN71
UniRef90_C2MDC5
UniRef90_K9U3A7
UniRef90_H8GQW8
UniRef90_W7W8L5
UniRef90_A5DFI8
UniRef90_W4KCC8
UniRef90_C3BG3
UniRef90_H9GMX2
UniRef90_UPI000408AE65
UniRef90_U7G513
UniRef90_A1SN61
UniRef90_A0A058Z5T6
UniRef90_UPI000225B0B8
UniRef90_E1JWU4
UniRef90_F2LJ34
UniRef90_X0PGK3
UniRef90_K7S3X2
UniRef90_F9DXX3
UniRef90_I0YLC0
UniRef90_U5P826
UniRef90_J2KJP0
UniRef90_R7BZG9
UniRef90_UPI0002889D5D
UniRef90_V4XUJ6
UniRef90_T0PEL9
UniRef90_B8GM04
UniRef90_W3APV4
UniRef90_Q5QWZ0
UniRef90_B3WC38
UniRef90_K4CD34
UniRef90_W2RTV9
UniRef90_UPI0004698122
UniRef90_W4GVM4
UniRef90_C3X421
UniRef90_D1Y5J0
UniRef90_A0DRC1
UniRef90_H3G5Z1
UniRef90_I2PZU0

UniRef90_M1GY90
UniRef90_UPI00040EC94A
UniRef90_W1QIK9
UniRef90_BOE5Q1
UniRef90_W7B2L3
UniRef90_U6E264
UniRef90_A6X3Z4
UniRef90_C9SLE1
UniRef90_K2B760
UniRef90_I8TR25
UniRef90_U5MZ20
UniRef90_Q23CL3
UniRef90_UPI0002C2DFC7
UniRef90_L0MJN9
UniRef90_E9CHB7
UniRef90_E9EDL6
UniRef90_C6Z2A8
UniRef90_Q3SEE4
UniRef90_S4MNX2
UniRef90_A2DYG8
UniRef90_I0D629
UniRef90_K2ETS5
UniRef90_R6PDV5
UniRef90_L2TNZ3
UniRef90_UPI00035DFFD6
UniRef90_W6L5X1
UniRef90_I0TD00
UniRef90_I9CC8
UniRef90_G5F2U8
UniRef90_R7L1K6
UniRef90_D8M980
UniRef90_A71PW3
UniRef90_L0SXA2
UniRef90_UPI00036AC4B8
UniRef90_J9F0K1
UniRef90_Q2J96
UniRef90_G0QVR3
UniRef90_S2PZM5
UniRef90_C1D5J6
UniRef90_I4BG62
UniRef90_D7CNY6
UniRef90_F2E844
UniRef90_UPI000372BD68
UniRef90_UPI000346F375
UniRef90_A5D5Q9
UniRef90_C7RBS8
UniRef90_C1E4D2
UniRef90_V5DW42
UniRef90_D1R9E9
UniRef90_B9FAC2
UniRef90_A8NLG9
UniRef90_A0A016Q0B0
UniRef90_L7L166
UniRef90_D0BN71
UniRef90_C2MDC5
UniRef90_K9U3A7
UniRef90_H8GQW8
UniRef90_W7W8L5
UniRef90_A5DF18
UniRef90_W4KCC8
UniRef90_C3IG3
UniRef90_H9GMX2
UniRef90_UPI000408AE65
UniRef90_U7G513
UniRef90_A1SN61
UniRef90_A0A058Z5T6
UniRef90_UPI000225B0B8
UniRef90_E1JWU4
UniRef90_F2LJ34
UniRef90_X0PGK3
UniRef90_K7S3X2
UniRef90_F9DXX3
UniRef90_I0YLC0
UniRef90_U5P826
UniRef90_J2KJP0
UniRef90_R7BZG9
UniRef90_UPI0002889D5D
UniRef90_V4XUJ6
UniRef90_T0PEL9
UniRef90_B8GM04
UniRef90_W3APV4
UniRef90_Q5QWZ0
UniRef90_B3WC38
UniRef90_K4CD34
UniRef90_W2RTV9
UniRef90_UPI0004698122
UniRef90_W4GVM4
UniRef90_C3X421
UniRef90_D1Y5J0
UniRef90_A0DRC1
UniRef90_H3G5Z1
UniRef90_I2PZU0

90 100 110

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

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

UniRef90_Q5YMN8
UniRef90_K4QY33
UniRef90_A9WERR4
UniRef90_F8DDD9
UniRef90_UPI0003D75B3A
UniRef90_F2BX54
UniRef90_F4P7C8
UniRef90_UPI0002490112
UniRef90_A6ED79
UniRef90_C6A560
UniRef90_UPI0003FB2EBF
UniRef90_F5SWM6
UniRef90_K0NXE1
UniRef90_W6NG20
UniRef90_I4LMF2
UniRef90_A0A024U4J7
UniRef90_F6DKQ9
UniRef90_UPI00035967F3
UniRef90_Q11E1
UniRef90_F4QXG9
UniRef90_UPI000375AC69
UniRef90_D3BF92
UniRef90_V6QBD6
UniRef90_G8BUY4
UniRef90_I3RAY9
UniRef90_A0LV57
UniRef90_UPI0004417A45
UniRef90_C5F9G4
UniRef90_T1D7M5
UniRef90_H3MAP3
UniRef90_R8BLK9
UniRef90_F4FWR5
UniRef90_UPI0003C1470C
UniRef90_Q3Z7X1
UniRef90_Q0ATB1
UniRef90_J9HS46
UniRef90_R6WBL2
UniRef90_UPI0003B32639
UniRef90_B1HS53
UniRef90_A0A024TI17
UniRef90_R5SFZ9
UniRef90_E8TYM9
UniRef90_R5ZC16
UniRef90_UPI00030F0692
UniRef90_R5D4H6
UniRef90_F0P2S5
UniRef90_M7DFS2
UniRef90_R5C2H0
UniRef90_I7KBG8
UniRef90_Q23QW3
UniRef90_UPI00047DC3FD
UniRef90_D5PAA6
UniRef90_R9VVD5
UniRef90_UPI0003B30E9A
UniRef90_B3PHM3
UniRef90_M2TJE6
UniRef90_A5FBE4
UniRef90_H8Z3E6
UniRef90_B1XZX5
UniRef90_C3AHF6
UniRef90_U7P2Y2
UniRef90_E1ZSH5
UniRef90_W7Y3S8
UniRef90_UPI000376C25E
UniRef90_A3Z819
UniRef90_F6DL94
UniRef90_R6IOW1
UniRef90_G0VMS5
UniRef90_I3YCL9
UniRef90_K6CZE9
UniRef90_Q0ABV7
UniRef90_N8TIX8
UniRef90_E6LEX5
UniRef90_R7PPC8
UniRef90_D5H318
UniRef90_S7J748
UniRef90_G3Y4U8
UniRef90_E5V478
UniRef90_F4CKQ9
UniRef90_R7AJQ6
UniRef90_A7Z8S3
UniRef90_U6KC48
UniRef90_S9RUD6
UniRef90_C7HUH7
UniRef90_A0A024PXH9

1 10 20 30 40

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

		50	60	70	80
UniRef90_Q5YMN8	V E D G	D S E V	D E S M V T	G E S L P V H K A P G A A	
UniRef90_K4QY33	V L S G A	S S A V	D E S M V T	G E S L P M P A T K R A G D T	
UniRef90_A9WER4	I V S G	E S A I	D E S M L T	G E S L P V E K R S G D P	
UniRef90_F8DD9	V Q D G	E S A V	D E S S P I T	G E S V P V D K T P G D E	
UniRef90_UPI0003D75B3A	V F Q	S G H S L L I	D E S S L T	S G E S E P M Y I Y V E K F K D	
UniRef90_F2BX54	V V E G R	A V L	D E S S L T	G E S S G N V K K L G D K	
UniRef90_F4P7C8	L I E G F	H I Q T D E S T	L T G C E	P I S V D K D L A R D P	
UniRef90_UPI0002490112	I T E G	N S T I	D E S M V T	G E S M P T E K K V G D A	
UniRef90_A6ED79	V E Q G	N S Y V	D E S M I T	S G E P L A V W K	E K
UniRef90_C6A560	V I E G	E S Y V	D E S M I T	S G E P L I P S L K K F G D K	
UniRef90_UPI0003FB2EBF	I V F G	D A H L	D E A S V T	G E P L P K H K S A S A D A	Q E P
UniRef90_F5SWM6	L V T G D Y	L S I	D E S S L T	G E S L P V S K R S T D V	
UniRef90_K0NXE1	V L E G Q	S T I N E A	M V T	G E S M P V K K Q P G D S	
UniRef90_W6NG20	I V E G V T	S I	D E S M L T	G E S I P I E K I A G	
UniRef90_I4LMF2	V L E S W	G L E M D E	S M L T	S G E S A T V R K A Q G D D	
UniRef90_A0A024U4J7	L L E C	S E D F T V D L S	S L A N E K I	P R V C S V Q C T D K E N G V L S	
UniRef90_F6DKQ9	V L A G R T	D V N Q	S S I T	G E S M P V E K T V G	
UniRef90_UPI00035967F3			L A W F E E G E E T	I T A F V E P F V I L L I L V A N A	
UniRef90_Q116E1	I K E G F	S T V D E S M V T	G E S V P V E K K P G D E		
UniRef90_F4QXG9	I E D G	G S E V	D E S M L T	G E S L P V T K G A G D S	
UniRef90_UPI000375AC69	V T E G	N S S I	D E S M L T	G E S I P V E K A P G S E	
UniRef90_D3BF92	F I E G H S	I T C	D E S S I T	G E S D P I K K G	H Y T E G F
UniRef90_V6QBD6	V I S G H G Y	I D E S S I T	G E V K P I S K K H D D Y		
UniRef90_G8BUY4	L I T G E C	D V D E S A L T	G E S D T I K K F P L E Q A N V V D D K H F P		
UniRef90_I3RAY9	V L S G	D S A V N Q A P I	T G E S V P V D K T P G D E		
UniRef90_A0LV57	I L	L A A D G L E I	D E S L L T	G E S D P I T K R P A D A	
UniRef90_UPI0004417A45		F L N T G H N V R C	D E S S A T	G E S D A I K K I T Y E E C H H V D E H A H T	
UniRef90_C5F9G4	L L D N A I	S Q V N E S	I T G E A A S V H R Q V N		
UniRef90_T1D7M5	V L E G R	S S V N E A	V L T G E S M P V E K S A G T G		
UniRef90_H3MAP3	V S E G	T S F V	D E S M I T	G E P I P V E K V P G S	
UniRef90_R8BLK9	F V Q V S S	D A K F D R S I	L T G E S V P L S A E I E S T D K N Y L E T		
UniRef90_F4FWR5	I V S G	S S T I	D E S M I T	G E S M P V E K K A G D S	
UniRef90_UPI0003C1470C	V E E G V	S S F V	D E A M I T	G E P I P V E K T V G A G V V G G T	
UniRef90_Q3Z7X1	I L E G Y	S S L D E S M V T	G E S I P A E K K A G D Y		
UniRef90_Q0ATB1	V V D G R	S S V D E S M I S	G E P V P V E K T P G D A		
UniRef90_J9HS46	L V E G Y N	L Q C	D E S Q I T	G Q T V L A P K T L L T E E S H D Q N P	
UniRef90_R6WBL2	L I E C N A	L T V L E T P I	S G V S S A A A K D A R T F T E K K G L S R V S		
UniRef90_UPI0003B32639	I L E G	T A T L	D E S M V T	G E S S Q P V S K Q P G D P	
UniRef90_B1HS53	V L E G	T T A V	D E S M L T	G E S L P V D K K Q G D Q	
UniRef90_A0A024TII7	I F D E S E I	K I D E S T	L T G E S D L L K K T R V E A P		
UniRef90_R5SFZ9	V L E A A S L K	V D E S I F T G E	L Y A D K Y V T V P E G K Q D T T F P		
UniRef90_E8TYM9	L L D G Q	L E V D E S L L T	G E S V P V A K L P D D A S G Q R		
UniRef90_R5ZC16	I L D G F	L A L N E S M L T	G E Q I E K K K T V G D		
UniRef90_UPI00030F0692	V V D T R A	L Q I D E S M L T	G E S D A I D K R P G D D		
UniRef90_R5D4H6	V V A G	E V Q N E S L L T	G E S D E I T K Q K G D S		
UniRef90_F0P2S5	I V H S N D F S	V N E A S L T G E	A F S V L K S L E T D D K N		
UniRef90_M7DFS2	L L R G D Y	L L V D Q A A L T	G E S L P V S K K A Q E V		
UniRef90_R5C2H0	V L E G	S V E V N E S L L T	G E A D N L V K T V K D E		
UniRef90_I7KBG8	V V G G	E S S V D E S M I T	G E A I P A D K R E G D E		
UniRef90_Q23QW3	L L N G	S V M N E S M L T	G E S I P I T K S S L P F N N N K Y H P N E D		
UniRef90_UPI00047DC3FD	V K E G	T T A V N E A M I T	G E S K P M D K S A G D R		
UniRef90_D5PAA6	L L V A E D	L E V D E S F L T G E S L P V D K Q V E P V A V A D S D R			
UniRef90_R9VVD5	I S Q G E A W	F D E A M L T	G E P V P Q E K S T G E S		
UniRef90_UPI0003B30E9A	V I E G	N S A I	N E S A L T	G E S I P V D K A L G D E	
UniRef90_B3PHM3	L L E G Q	S S Y V	D E S M M T	G E P L P I N K K A G D N	
UniRef90_M2TJE6	L E D G	S S A I	D E S M I T	S G E P I P V K K S A G D P	
UniRef90_A5FBE4	I V H S N	D F S V N E A S L T	G E S F S V F K N S D P G N N K		
UniRef90_H8Z3E6	V E Q G	S S A V	D E S L L T	G E S E P I M R G P G	
UniRef90_B1XZX5	V I D G	S S Q L	D E S L I T	G E S L P V A K G I G E R	
UniRef90_C3AHF6	V L S G I	S S V	D E A M I T	G E S I P M D K Q V G D A	
UniRef90_U7P2Y2	V T E G Q S H	I D E S M I T	G E P L P V A K A E G D E		
UniRef90_E1ZSH5	V N E G R I	E V D Q A A L T	G E S L P V T M Y K G D T P K		
UniRef90_W7YS38	I Y K G	E A V I	D E S M I T	G E P I P V E K A K D E K	
UniRef90_UPI000376C25E	V D S G	T S F V	D E S M I S	G E P V P V E K R A G E K	
UniRef90_A3Z8I9	L V R G R	D L R V	D E S V L T	G E S L P V S R D P A P L P A D T P L P E R	
UniRef90_F6DL94	V L S G	T A A V N Q A P I	T G E S L P A H K N Q G D		
UniRef90_R6I0W1	V I D G	S S A V	D E S T L T	G E S I P V D K A A G S Q	
UniRef90_G0VMS5	I S E G	T T S I	D E A A I T	G E S I P V E K Q V G D K	
UniRef90_I3YCL9	V T E G	T S Y V	D E S M I T	G E P V P V H K R P G D A	
UniRef90_K6CZE9	I L L G Q	S A V	D E S M I T	G E S I P V E K S V G D R	
UniRef90_Q0ABV7	V L D G	G S Y V	D E S M V T	G E P V P V E K G V G A S	
UniRef90_N8TIX8	V I E G	K S F V	D E S M I T	G E P I P V E K K I D S E	
UniRef90_E6LEX5	I V E G V	S S V	D E S M L T	G E S L P V E K T V G D E	
UniRef90_R7PPC8	I I E G A T	S I N E S A L T	G E S I P V D K E V G D K I S		
UniRef90_D5H318	V I S G	E L R V N E A L L T	G E S D E I T K T K D A E		
UniRef90_S7J748	I I H G S S S	I N L M H		L T G E K T P K F C K E	
UniRef90_G3Y4U8	L L S G	D I V N E S M L T	G E S V P V S K V P L T D D A P S I H P A L A		
UniRef90_E5V478	V L N G	S I E V	D E S L L T	G E S D N I F K A E G D K	
UniRef90_F4CKQ9	V T E G R	A A V D E S M L T	G E S V P S E K N P G D H		
UniRef90_R7AJQ6	V I D G	E A Q V N E S L L T	G E S D L I K K T P G D E		
UniRef90_A7Z8S3	V I E G H	S A I	D E S M I T	G E S M P V D K S P G S T	
UniRef90_U6KC48	V F I P H H K	F I C	V D E S A L T	G E S L P I R K Y R G S E	
UniRef90_S9RUD6	V S D G	T S N V	D E S M I T	G E P L A V A K V I G D S	
UniRef90_C7HUH7	V K E G	S S L V	D E S A I T	G E S I P V N K N I G D E	
UniRef90_A0A024PXH9	V E E G	D S H V	D E S M L T	G E P L P A A K H A G D E	

lupas_21
lupas_14
lupas_28
jnet

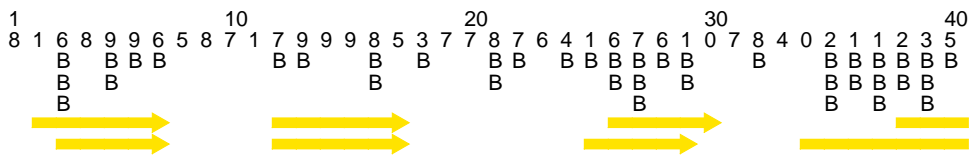


		90	100	110
UniRef90_Q5YMN8		V V G A T I N S N G T L R V R A T K V G A D T A L A Q I V Q L		
UniRef90_K4QY33		V I G A T V N T T G S L R V R A A K V G A D T M L A Q I I R L L		
UniRef90_A9WER4		V F G A T I N R S E G S F Q M R A T R T A G D S T A L A Q I I R L L		
UniRef90_F8DD9		V Y A G A I N E E G S G K M L V T T V G M R T E W G K L M E T L		
UniRef90_UPI0003D75B3A				
UniRef90_F2BX54		V L C A T V N T Q G H I T C K A E S T G G E D T T L A K I I K L		
UniRef90_F4P7C8	F	L L S G T K V V H G I G R M L V I A T G V N S I N G R		
UniRef90_UPI0002490112		V I G S T M N S N G T F M F K A S K V G D D T L L A Q I V E M		
UniRef90_A6ED79	D H P	V I A G T I N Q K G S F R F R A L K V G G D T M L A Q I I K L L		
UniRef90_C6A560		V I G G T I N K N S V L K I K A E K V G G R D T L L A Q I I K L L		
UniRef90_UPI0003FB2EBF	G D E	V F A G T T L T D G T I V V Q A T K V G E D T V F G K I I E L L		
UniRef90_F5SWM6		A Y A N T I L R Q G E M D A L V V N T G Q Q T R F N N V V S L		
UniRef90_K0NXE1		V I G A T V N G A G M L M E A E K V G K D T M L S Q I I M D		
UniRef90_W6NG20	N K	V I G A S I N K N G F I K Y K A T K I G K D T V L S Q I I R L		
UniRef90_I4LMF2		V Y S G S T A V S G M A L T R V T A V G E H S Y A A K L A A Q		
UniRef90_A0A024U4J7	R N M	V F M A T S V V K G S D A I G V V V A T G D N T V W G Q L I S		
UniRef90_F6DKQ9	H E	V Y A G T I N G Q G S I E V K V T K L V K D T T L A Q I I N L		
UniRef90_UPI00035967F3	I V G	V W Q G T N I A G K A M G V V V A T G V N T E I G K I R D E M		
UniRef90_Q116E1		V I G V T I N Q T G S F K F E A R V G K D T V L A Q I I K L L		
UniRef90_F4QXG9		V T G G A I N K T G A F R Y R A T R V G A D T A L A Q I V K L		
UniRef90_UPI000375AC69		V I G G T L N R T G F R F R A T R V G S E T A L A Q I I K L		
UniRef90_D3BF92	D P M	F I S G S M L E G F G R I M V T A V G T N S F N G K T M M S L		
UniRef90_V6QBD6		V Y A G T I L D N G T I H I T A D K V G E D T T F G K I I E L		
UniRef90_G8BUY4	D P I	L I S G S K L I A G L G T A L V T A V G V N S V Y G R T M		
UniRef90_I3RAY9		V Y A G T V N E A G Y L E V R V E S V A G D D T L S R I V S M		
UniRef90_A0LV57		V L S G S F V V A G S G L M R A T R V G T S S Y G A Q L A A E		
UniRef90_UPI0004417A45	D C F	L V S G S K V L E G Y G Q Y V V T A V G P K S F N G R I		
UniRef90_C5F9G4	Q T	V Y A G T E V L T G H T L A V V T A I G A D S R N S G K T I T L L		
UniRef90_T1D7M5		V I A G S V N G E G P L T V Q A T K V G E D T A L A Q I G R L M		
UniRef90_H3MAP3		L M V G G T V N Q K G A L R L R A T A V G G N Q T M L S Q I I R M		
UniRef90_R8BLK9	K C I	G L Q G S H C V S G T C I A I V V A T G G N R T V F G R I A K L		
UniRef90_F4FWR5		V V G A T V N G T G T F T F K A A K V G K N T M L A Q I V E L		
UniRef90_UPI0003C1470C		V N T T G A L R F K A T K V G G D T L L A Q I V R M		
UniRef90_Q3Z7X1		V I G G T F N Q T G A F T Y E A Q K V G A D T A L A R I I R M		
UniRef90_Q0ATB1		V T G A T I N G T G S L T I E A K R V G A D T M L S Q I V E M		
UniRef90_J9HS46	N P F	I L A Q S I V K S Q A L A I V C A V G E H T N I A Q		
UniRef90_R6WBL2	E N M	V Y A G S I V T G G N G V A I V C E V G S N V R I N K		
UniRef90_UPI0003B32639		L V G G T V N R S G S L V M E A E K I G R D T L L S R I V Q M		
UniRef90_B1HS53		L F G S T I N K N G S L K M T A T K V G D N T A L A Q I I K		
UniRef90_A0A024TII7		V L Y S G T R V M E G V A K M L V M C V G V N S Q A G I I S S L		
UniRef90_R5SFZ9	A N M	V L R G S T I I E G L C V C R V T A V G T D T E E G K G A K L I		
UniRef90_E8TYM9		L Y A S T V V T R G V G L A R V C A T A G R T A V I G S I		
UniRef90_R5ZC16	M V	F G G T I V N E G T A K I K V T A V G K K T Y S N K L K K E I		
UniRef90_UPI00030F0692		A L S G S I V V S G E G A A R V T R V G A D S Y A N K F A		
UniRef90_R5D4H6		L M S G S F V V A G Q C H A R L D A V I G A D S Y I S K L		
UniRef90_F0P2S5		V Y S G T L V V S G L A V F E V E K I G Q A T K L G K I G T S I		
UniRef90_M7DFS2		A Y A N T I V K Q G E M E A V V V N T G M H T N F S N V V S L		
UniRef90_R5C2H0		L E S G S F V T A G E A C C Q V I H V G K D N Y A S Q I T K E		
UniRef90_I7KBG8		V V G G T L N V N G V L R V R A G R I G K D M V L S Q I I R L		
UniRef90_Q23QW3	Q S T	L F A G T K C I E T R I L G L V S Q T S F N T M K G Q I V R S I		
UniRef90_UPI00047DC3FD		V I A G T V N G Q G S L R V E V T G T G D E T A L A Q I I M R L		
UniRef90_D5PAA6	A S M	L F E G S T I V A G H A R A I V V A T G A G T A A Q R A I S A I		
UniRef90_R9VVD5		I H A G T V V Q D G S V L F I A S A V G S H T T L S R I I R M		
UniRef90_UPI0003B30E9A		V S A A T I N Q S G Y I K C R A T R V G K D T T L S Q I I Q M		
UniRef90_B3PHM3		L I G G T L N T T G S L T Y R L T H V G K D T L L A R I I Q L		
UniRef90_M2TJE6		V I G G T V N Q T G S F T M R A T Q V G A D T M L S K I V Q M		
UniRef90_A5FBE4		I E S G T I A V S G L A V F E V E Q I G K Q T Q I G K I G E S I		
UniRef90_H8Z3E6	Q P	V V A G S L N G A G A L R V R V T A V L R E T Q L G R I I H L		
UniRef90_B1XZX5		V T G G S I N G E G A L T V R T L A V G A E T T L A R I I R L		
UniRef90_C3AHF6		L I G A T I N K N G S L T M R A E K I G K D T A L A N I I K		
UniRef90_U7P2Y2		V S A G T V N G N G S L T V Y R A T R V G A D T R L G R I I T E Q		
UniRef90_E1ZSH5		M G S T I T R G E V E G T V E F T G K N T F F G K T A Q M L		
UniRef90_W7Y3S8		V T G G T I N G K T A F E L K A K K V G R D T L L A Q I I T E M		
UniRef90_UPI000376C25E		I F A G T I N Q K G S F R F R A E K V G G D T V L A Q I I R M		
UniRef90_A3Z8I9	A S M	H A G T F V V A G Q G V A V V T A I G D A T E V G K I S T S L		
UniRef90_F6DL94	F	V Y A G T V V E Q G S I H I Y A E K V G G D K T A L A R I I H L		
UniRef90_R6IOW1		V S A G T M N R S G G F I R C K A T R V G G E D T T L S Q I I R M		
UniRef90_G0VMS5		V T S A T I N K T G F I H I T A R R V G A D T T I S Q I I K L		
UniRef90_I3YCL9		V I G G T V N Q T G A F R Y Q A T R V G A D T V L A Q I I R L		
UniRef90_K6CZE9		V I G S T I N K N G T M T M K A T K V G K D T T L A G I I K		
UniRef90_Q0ABV7		V V G G T V N G S G S F S F R A T G I G E D S V L G R I V H M		
UniRef90_N8TIX8		V V G G T I N Q N G T L S F K A V A V G G E T M L A Q I I R L		
UniRef90_E6LEX5		V V G A S L N K H G S F R F R A T K V G G N D T A L A Q I V K L		
UniRef90_R7PPC8		A A T I N T V I G F I R A K A L Y V G E D T T F S Q I I K L M		
UniRef90_D5H318		L M S G S F V V S G K A Y A V L E K V G K D S Y T I S K I		
UniRef90_S7J748	G S I	V P A G A H N L E G S F N L R V L K T G A D S T I A K I N L		
UniRef90_G3Y4U8	R H F	L F S G T K V I R A R A L A V V V R T G F L T T K G A L V R S M		
UniRef90_E5V478		L M S G S N V T G S S L V K V L A V G D D S Y I N K L A K		
UniRef90_F4CKQ9		V A G A T V N T D G S L T V R A T A V G A D T A L A Q I V R L		
UniRef90_R7AJQ6		L M S G S F L D S G L V Y A R V I H V G A E N Y V A K I		
UniRef90_A7Z8S3		V T G A T I N A N G F L K I R A V N V G K D T A L A H I T K		
UniRef90_U6KC48		L L S G S V V Q R G E K E M L V Q R T V V N S F Y G K T I A L L		
UniRef90_S9RUD6		V T G G T V N G T G S L T F S A T R V G A D T T L A Q I I R M		
UniRef90_C7HUH7		V I S A T L N K Q G S F I F E A T K V G E D T T L S K I I E L		
UniRef90_A0A024PXH9		V S A G T V N G R G T L V Y I A T R I G A D S R L G R I I V E Q		

lupas_21
lupas_14
lupas_28
jnet



conf
sol25
sol5
sol0
jhmm
jpssm



conf
sol25
sol5
sol0
jhmm
jpssm

