

1 10 20 30 40
QUERY M K A F E F L L Y E D F Q R G L T V V L D K G L P P K F V E D Y L K V C G S D Y I D D
UniRef90_O27710 M N A F S F L L T K P R K N G G L I T M V L D K G L G P P A S F A R D L L M E T S G S D Y I D D
UniRef90_UPI00035F2F08 M N A F S F L L N I N T I R N E R G V L T T M V L D K G L G P P H F T K S Y L L K T C C G K D Y I D D
UniRef90_N6VP87 M K A F S F L L D E I L E R G L T T V M L D K G L P P P K F I E K S Y L L K T C C G K D Y I D D
UniRef90_F0TCR8 M N A F D F L L T K D R I R G V L T T M M L D K G M G P P N M V L E D S F L L E I I S G S G R E Y I D D
UniRef90_U6ECS1 M N A F D F L L T K P Q R K T G L I T T M M L D K G M G P V F V L T D L L M E I I S G S G R E Y I D D
UniRef90_E3GW90 M K A F E F L L E T K P R N F G I L T T M M L D K G L G I G A E T V K I K D L L M E I I S G S G R E Y I D D
UniRef90_A6UTC3 M K A F D F L L N V P D N N G G I L T T M V M D K G L P P P S Y I D D Y L L K V I C G S G E Y I D D
UniRef90_F6D3M4 M N A F S F L L T Q D R V R G L I T T M M L D K G L G S P R F M L M D D L L M E I I S G S G R E Y I D D
UniRef90_A6VIR4 M N A F S F L L N T Q D R K G T E N T M V I D K G L S P P D F L M D D Y L L K V I C C G S G E Y I D D
UniRef90_D5VSW2 M K A F E F L L N V K Y D R G L T T V I L D K G L P L R Y R F E D Y L L N L V C C G S G E Y I D D
UniRef90_C6W2T3 N L P E R S Q K P R T K G L T T M V M D K G L S I R R Q V L E D M L S T A S G P Y I D D
UniRef90_A1ZKQ8 N L P E R T V K P R E I G L S T M I M D K G L S I R R Q V L E D M L S T A S G P Y I D D
UniRef90_R9GRG3 N V P V R T E K P R D H G L T T M V M D K G L S V R E I E D L L E S V A G S P H I D D
UniRef90_Q64BB5 K A F E R T E K P R D I G L T T M V L D K G L G Y R A A Q D L L M E S S A S G P Y I D D
UniRef90_M7N2E4 I P N R T E K P R Q N G F T M M M D K G L S N R E A E D F L S V A S G P Y I D D
UniRef90_R9SKE8 M K A F K F L L K P R N K G I T T M V L D K G L G Y E T A K C L M E L A G E Y I D D
UniRef90_K8DXC9 R T A K P R T T G I T T M I I D K G L G L G E T R D L L N D I A G S P Y I D D
UniRef90_I2EV39 H V P K R T T K P R E S G L T T M V M D K G L S I R E V E D M L N D I A S A P H I D D
UniRef90_I4AMX0 I P E R P S K P R Q S G L T T M V M D K G L S V R E I E D L L E S V A G N Y I D D
UniRef90_D0MK18 M P E R P E R P R T F G L T L M L D K G L S V R Q V L E D V L E S V A G P Y I D D
UniRef90_F2SJ07 M P E R P E R P R T F G L T L M L D K G L S V R Q V L E D V L E S V A G P Y I D D
UniRef90_E4RV77 H V P E R T A Q P R N N G V T M V M D K G L S L A E A E N F L S K A A K F Y I D D
UniRef90_UPI0004726DA3 N L P E R T S K P R Q Y G F T M A M D K G L S I R E T E D F V S L A T A S G Y I D D
UniRef90_B8D019 M P E R L V R P R T N G I T T M V M D K G L S V D E A K S F M S S V S Y P H I D D
UniRef90_W0F2M5 M P E R T V K P R S S Q G Y T M V M D K G L S V D E A K S F M S S V S Y P H I D D
UniRef90_UPI00040192F2 P E R T V K P R S S Q G Y T M V M D K G L S V D E A K S F M S S V S Y P H I D D
UniRef90_Q04GM2 M N A Y E F L L N K P R R S G L T T M M L D K G L G S R S L D D D I N T S A D Y I D D
UniRef90_F6CKS3 R L E K P R Q Q G L T T M I I D K G L G L V E T K D I L L H V C G Q Y I D D
UniRef90_B6QM58 P F K K P R M K G V T E I R G P Y M G K R Y F A D L L E T M G Y H I D D
UniRef90_F7WB10 N A F G F V P K P R K V G V T E I R G P Y M G K R Y L Q D V L E T M G Y H I D D
UniRef90_H8KLT3 P E R E A K P R D K G I T T M V M D K G L S V N E I E N F L S V A G N H T D D
UniRef90_H6BLX7 P R T P K P R N R G V T E I R G P Y Y G K R H L Q D V L E T M G Y H I D D
UniRef90_G2SHJ1 R A F P F L R K P R T R G L T E I R G P Y M G P N Y L K D V L E T M G T Y I D D
UniRef90_Q2RM82 R Q Q K P R R T G K T M V I D K G L G L T E F K D L L E V A A P Y I D D
UniRef90_UPI00030DA77E P D R T E K P R Q Q G L T T M V I D K G L G L T D T R D L L M E L A S D Y I D D
UniRef90_A5D175 R S Q K P R E Q Q G L T T M V I D K G M G P V Q T A D L L M R T S G K Y I D D
UniRef90_T0CFD9 K P R D N G L T T M V I D K G L G Y E Q L G D L L E V A S P Y I D D
UniRef90_Q2NEV6 M N A F K F L D E I G P N T N T M L D K A L G Y K T V E D M L S S G N Y F N
UniRef90_UPI0003B77B62 D R S E K P R E D G I T T M I L D K G L G I R A T K D L V E T A A N Y I D D
UniRef90_UPI00035D28E3 H L P K R T D K P R T K G I T T L V L D K G Y S V R Q A E D F V E A C S A N Y I D D
UniRef90_Q5BDB6 P R P K P R S S Q G V T E I R G P Y M G K R Y L A D I L L E T M G T H I D D
UniRef90_UPI000476D2EC R E D K P R R N G L T M V L D K G L G I Y Q T E D L L E I A A D Y I D D
UniRef90_D5XFA4 I P G R T N K P R I K G L T T M V I D K G L G L V S T E E L L N V A G D Y I D D
UniRef90_UPI0003B4C4F2 P G R T N K P R S T G L T M V I D K G L G L S A Y Q D D L L Q L T G E D Y I D D
UniRef90_U5BS71 N I P V R T E K P R A S G L T T M V M D K G L S I R E V E D F I S A N S D F V I D D
UniRef90_K2RV28 P R P P K P R T T G V T E I R G P Y M G P H Y L S D V L H T M G H Q V I D D
UniRef90_Q67L18 P G R A R K P R S V G L T M V I D K G L G L G P T R A L L E L A A G E Y I D D
UniRef90_G9WH39 M L A Y S F L N L P R R N G L T T M V L D K G L G L N E T D D L L I A T A G S Y I D D
UniRef90_UPI00024909F1 M K A F D F L N Q D N K N G K T M M L D K G M G L H A V D D L L S T A G D Y I S
UniRef90_Q1ASZ8 A F G F L R K P R S R G V T E I R G P Y M G K R H L A D V F E T M G E Y I D D
UniRef90_H6REA3 M P S R P E K P R E K G L T M M M D K G L S V R Q T E D F I E S A G H L T D D
UniRef90_D9QQR5 R K E K P R Q T G L T M M M D K G L G L N Q T E D L M E M A A D Y I D D
UniRef90_F4CET7 N I P I R T L K P R N N G I T T M V M D K G M S T R Q A Q D F L E V A A P H T D D
UniRef90_UPI0003614886 P G R N L K P R T C G L T M V I D K G L G I R E T L D L A E L A A P Y I D D
UniRef90_UPI0004087EB1 R L E K P R L T G K T M V I D K G L G I H A L T D L L E T A S P Y M D
UniRef90_L8G3T0 P R A P K P R K L G L T E M R G P Y Y G T R H L E D V F E T M G T H I D D
UniRef90_UPI000375E693 R M Q K P R T T G K T M V I D K G L G P R A F E D L M H T V G G Y I D D
UniRef90_A5UJB3 M V L D K G L G L E T A E S L M N I S G D Y I D D
UniRef90_UPI0004699986 R M K P R E S G L T M V L D K G V G L L Q F S D V M E T S A P Y I D D
UniRef90_UPI000248D2CA R T E K P R A L G K T M V I D K G L L H A L E D L L Q T A G V Y I D D
UniRef90_D7DV26 M E S F S F L K I P T H N G L T T M I I D K G Q S P E Y V E H S M R V F G K Y I S
UniRef90_R7YJL5 P K P R K T G V T E I R G P Y M G K R Y L S D V I F E T M G P H V I D D
UniRef90_I4CCX4 R A F P F I P K P R S V G I T E I R G P Y M G K R Y L Q D I V F E T M G A W V I D D
UniRef90_C8W0B5 K P R A K G L T M I I D N G L G L G E T R D L L T L V G D Y I D D
UniRef90_L2GH12 P R D P K P R T K S V T E I R G P Y M G K R Y L E D V L E T M G H Y I D D
UniRef90_W2E3B3 R E N K P R Q R G T M I I D K G L R A F E D L L E T A G E Y I D D
UniRef90_UPI0003B4A8C5 P D R Q E K P R T K G L T H V L D K A L S I R Q V E N M L D V A A E Y I D D
UniRef90_UPI00037BDF9E R F P K P R R Q G V N M L L D K G L G L G E T R D L L H K A A H H I D D
UniRef90_E6SK17 R P P K P R H R G L T M I L D K G L G L A A T A D L L E V A G P C I D D
UniRef90_B114G7 M V A F P R S R K P R T R G L T M V L D K G L G L G E T K D L L D L G T M G A Y I D D
UniRef90_B3DV01 R A F D F L P K P R K V G I T E I R G P Y M G I R Y L E D L L G T M G A Y I D D
UniRef90_K5AAK9 K P R T T G M T M V M D K G M G I N E F T D M L E L A H E H I D D
UniRef90_UPI0002888201 K P R L K G K T M I I D K G I G L Y R F E D L L V T A A E H I D D
UniRef90_UPI00035CC068 K P R T T G K T M V I D K G L G L H A L E D L L T A G A Y I D D
UniRef90_D5BZ77 L R L N Q R Q T K P R T Q G I T E I R G P Y M G K R Y L R D V L E T M G A Y I D D
UniRef90_F2IER2 H I P E R T T Q P R N N G V T M M M D K G L S L T E A E N F I Q A S G H L T D D
UniRef90_UPI0004702EF8 N I P Q R T S Q P R V N G I T T M I T D K G L G L Q E T K N F L S I A H P Y I D D
UniRef90_UPI0002EC6594 R L E K P R S S G L T M V I D K G L G L H A T E D L V N V A P Y I D D
UniRef90_C7PAQ2 K I P E R T K Q P R S F G I T M V T D K G L G L Q D T K D F L S V S A H I D D
UniRef90_M9M6C5 R T R K P R T T G L T M V M D K G L G A N A F A D L L S T A H E H I D D
UniRef90_UPI0003634067 G L T M L L D K G M G L E E T R D L F H T A G D Y I D D
UniRef90_F5L3K3 L N L P P R T T K P R A K G L T I L I D N G V P A G Y F S D L I S T Y A Q F I D D
UniRef90_B6HF82 P R P A K P R T K G V T E I R G P Y Y S V A D R M G D H I D D
UniRef90_M1Z9X5 K P R E N G I T M V I D K G L G I D G L K D L L E V S G A Y I D D
UniRef90_X1G4L2 T S G Y T M V L E K G L G L N A T R D L M D T A A D Y I D D
UniRef90_UPI000467EA91 F R T S K P R Q T G L T E I R G P Y Y G K R H L A D L F E T M G A W I D D
UniRef90_L0K8W1 F E P E K P R T Q G L T M I I D K G L G L R E T A D L F E T A T S Y I D D
UniRef90_J9HNK5 R A E K P R S T G L T M V I D K G L G F S T L T D I L L E V G A A Y V D D
UniRef90_E9F126 R P P K P R K T G V T E I R G P Y M G K R Y L Q D V F D T M S H Q V D D
UniRef90_D3F441 T P P F L D K P R Q R G L T H V I D R G L S L A E V D G M L E V A G D A V D D
UniRef90_UPI000405527D L T L P E R A R K P R S R G L T I L I D N G V P F R H F Q D V I E S F D G F I D

QUERY
UniRef90_O27710
UniRef90_UPI00035F2F08
UniRef90_N6VP87
UniRef90_F0TCR8
UniRef90_U6ECS1
UniRef90_E3GW90
UniRef90_A6UTC3
UniRef90_F6D3M4
UniRef90_A6VIR4
UniRef90_D5VSW2
UniRef90_C6W2T3
UniRef90_A1ZKQ8
UniRef90_R9GRG3
UniRef90_Q64BB5
UniRef90_M7N2E4
UniRef90_R9SKE8
UniRef90_K8DXC9
UniRef90_I2EV39
UniRef90_I4AMX0
UniRef90_D0MK18
UniRef90_F2SJ07
UniRef90_E4RV77
UniRef90_UPI0004726DA3
UniRef90_B8D019
UniRef90_W0F2M5
UniRef90_UPI00040192F2
UniRef90_Q04GM2
UniRef90_F6CKS3
UniRef90_B6QM58
UniRef90_F7WB10
UniRef90_H8KLT3
UniRef90_H6BLX7
UniRef90_G2SHJ1
UniRef90_Q2RM82
UniRef90_UPI00030DA77E
UniRef90_A5D175
UniRef90_T0CFD9
UniRef90_Q2NEV6
UniRef90_UPI0003B77B62
UniRef90_UPI00035D28E3
UniRef90_Q5BDB6
UniRef90_UPI000476D2EC
UniRef90_D5XFA4
UniRef90_UPI0003B4C4F2
UniRef90_U5BS71
UniRef90_K2RV28
UniRef90_Q67L18
UniRef90_G9WH39
UniRef90_UPI00024909F1
UniRef90_Q1ASZ8
UniRef90_H6REA3
UniRef90_D9QQR5
UniRef90_F4CET7
UniRef90_UPI0003614886
UniRef90_UPI0004087EB1
UniRef90_L8G3T0
UniRef90_UPI000375E693
UniRef90_A5UJB3
UniRef90_UPI0004699986
UniRef90_UPI000248D2CA
UniRef90_D7DV26
UniRef90_R7YJL5
UniRef90_I4CCX4
UniRef90_C8W0B5
UniRef90_L2GH12
UniRef90_W2E3B3
UniRef90_UPI0003B4A8C5
UniRef90_UPI00037BDF9E
UniRef90_E6SK17
UniRef90_B114G7
UniRef90_B3DV01
UniRef90_K5AAK9
UniRef90_UPI0002888201
UniRef90_UPI00035CC068
UniRef90_D5BZ77
UniRef90_F2IER2
UniRef90_UPI0004702EF8
UniRef90_UPI0002EC6594
UniRef90_C7PAQ2
UniRef90_M9M6C5
UniRef90_UPI0003634067
UniRef90_F5L3K3
UniRef90_B6HF82
UniRef90_M1Z9X5
UniRef90_X1G4L2
UniRef90_UPI000467EA91
UniRef90_L0K8W1
UniRef90_J9HNK5
UniRef90_E9F126
UniRef90_D3F441
UniRef90_UPI000405527D

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

QUERY UniRef90_O27710 UniRef90_UPI00035F2F08 UniRef90_N6VP87 UniRef90_F0TCR8 UniRef90_U6ECS1 UniRef90_E3GW90 UniRef90_A6UTC3 UniRef90_F6D3M4 UniRef90_A6VIR4 UniRef90_D5VSW2 UniRef90_C6W2T3 UniRef90_A1ZKQ8 UniRef90_R9GRG3 UniRef90_Q64BB5 UniRef90_M7N2E4 UniRef90_R9SKE8 UniRef90_K8DXC9 UniRef90_I2EV39 UniRef90_I4AMX0 UniRef90_D0MK18 UniRef90_F2SJ07 UniRef90_E4RV77 UniRef90_UPI0004726DA3 UniRef90_B8D019 UniRef90_W0F2M5 UniRef90_UPI00040192F2 UniRef90_Q04GM2 UniRef90_F6CKS3 UniRef90_B6QM58 UniRef90_F7WB10 UniRef90_H8KLT3 UniRef90_H6BLX7 UniRef90_G2SHJ1 UniRef90_Q2RM82 UniRef90_UPI00030DA77E UniRef90_A5D175 UniRef90_T0CFD9 UniRef90_Q2NEV6 UniRef90_UPI0003B77B62 UniRef90_UPI00035D28E3 UniRef90_Q5BDB6 UniRef90_UPI000476D2EC UniRef90_D5XFA4 UniRef90_UPI0003B4C4F2 UniRef90_U5BS71 UniRef90_K2RV28 UniRef90_Q67L18 UniRef90_G9WH39 UniRef90_UPI00024909F1 UniRef90_Q1ASZ8 UniRef90_H6REA3 UniRef90_D9QQR5 UniRef90_F4CET7 UniRef90_UPI0003614886 UniRef90_UPI0004087EB1 UniRef90_L8G3T0 UniRef90_UPI000375E693 UniRef90_A5UJB3 UniRef90_UPI0004699986 UniRef90_UPI000248D2CA UniRef90_D7DV26 UniRef90_R7YJL5 UniRef90_I4CCX4 UniRef90_C8W0B5 UniRef90_L2GH12 UniRef90_W2E3B3 UniRef90_UPI0003B4A8C5 UniRef90_UPI00037BDF9E UniRef90_E6SK17 UniRef90_B114G7 UniRef90_B3DV01 UniRef90_K5AAK9 UniRef90_UPI0002888201 UniRef90_UPI00035CC068 UniRef90_D5BZ77 UniRef90_F2IER2 UniRef90_UPI0004702EF8 UniRef90_UPI0002EC6594 UniRef90_C7PAQ2 UniRef90_M9M6C5 UniRef90_UPI0003634067 UniRef90_F5L3K3 UniRef90_B6HF82 UniRef90_M1Z9X5 UniRef90_X1G4L2 UniRef90_UPI000467EA91 UniRef90_L0K8W1 UniRef90_J9HNK5 UniRef90_E9F126 UniRef90_D3F441 UniRef90_UPI000405527D

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

QUERY UniRef90_O27710 UniRef90_UPI00035F2F08 UniRef90_N6VP87 UniRef90_F0TCR8 UniRef90_U6ECS1 UniRef90_E3GW90 UniRef90_A6UTC3 UniRef90_F6D3M4 UniRef90_A6VIR4 UniRef90_D5VSW2 UniRef90_C6W2T3 UniRef90_A1ZKQ8 UniRef90_R9GRG3 UniRef90_Q64BB5 UniRef90_M7N2E4 UniRef90_R9SKE8 UniRef90_K8DXC9 UniRef90_I2EV39 UniRef90_I4AMX0 UniRef90_D0MK18 UniRef90_F2SJ07 UniRef90_E4RV77 UniRef90_UPI0004726DA3 UniRef90_B8D019 UniRef90_W0F2M5 UniRef90_UPI00040192F2 UniRef90_Q04GM2 UniRef90_F6CKS3 UniRef90_B6QM58 UniRef90_F7WB10 UniRef90_H8KLT3 UniRef90_H6BLX7 UniRef90_G2SHJ1 UniRef90_Q2RM82 UniRef90_UPI00030DA77E UniRef90_A5D175 UniRef90_T0CFD9 UniRef90_Q2NEV6 UniRef90_UPI0003B77B62 UniRef90_UPI00035D28E3 UniRef90_Q55BD6 UniRef90_UPI000476D2EC UniRef90_D5XFA4 UniRef90_UPI0003B4C4F2 UniRef90_U5B571 UniRef90_K2RV28 UniRef90_Q67L18 UniRef90_G9WH39 UniRef90_UPI00024909F1 UniRef90_Q1ASZ8 UniRef90_H6REA3 UniRef90_D9QQR5 UniRef90_F4CET7 UniRef90_UPI0003614886 UniRef90_UPI0004087EB1 UniRef90_L8G3T0 UniRef90_UPI000375E693 UniRef90_A5UJB3 UniRef90_UPI0004699986 UniRef90_UPI000248D2CA UniRef90_D7DV26 UniRef90_R7YJL5 UniRef90_I4CCX4 UniRef90_C8W0B5 UniRef90_L2GH12 UniRef90_W2E3B3 UniRef90_UPI0003B4A8C5 UniRef90_UPI00037BDF9E UniRef90_E6SK17 UniRef90_B114G7 UniRef90_B3DV01 UniRef90_K5AAK9 UniRef90_UPI0002888201 UniRef90_UPI00035CC068 UniRef90_D5BZ77 UniRef90_F2IER2 UniRef90_UPI0004702EF8 UniRef90_UPI0002EC6594 UniRef90_C7PAQ2 UniRef90_M9M6C5 UniRef90_UPI0003634067 UniRef90_F5L3K3 UniRef90_B6HF82 UniRef90_M129X5 UniRef90_X1G4L2 UniRef90_UPI000467EA91 UniRef90_L0K8W1 UniRef90_J9HMK5 UniRef90_E9F126 UniRef90_D3F441 UniRef90_UPI000405527D

170 180 190 200

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

QUERY R G L R G D T F G K V
 UniRef90_O27710 R G L R G D T L G K V
 UniRef90_UPI00035F2F08 R G L R G D T F G K I
 UniRef90_N6VP87 R G L R G D T F N K L
 UniRef90_F0TCR8 R G L R G D T L G K V
 UniRef90_U6ECS1 L G L R G D T L G K V
 UniRef90_E3GW90 R G L R G D T L G K V
 UniRef90_A6UTC3 T G L R G D T F G K I
 UniRef90_F6D3M4 R G L R G D T L G K V
 UniRef90_A6VIR4 R G L R G D T F G K I
 UniRef90_D5VSW2 R G L R G D T F N
 UniRef90_C6W2T3 L G L R G D T F N H
 UniRef90_A1ZKQ8 L G L R G D T F N H
 UniRef90_R9GRG3 L G L R G D T F N H
 UniRef90_Q64BB5 R G L R G D T L G K L
 UniRef90_M7N2E4 L G L R G D T F S
 UniRef90_R9SKE8 C G L R G D T L G K
 UniRef90_K8DXC9 A G L R A D T L K A V
 UniRef90_I2EV39 I G L R G D T F A H
 UniRef90_I4AMX0 L G L R G D T F
 UniRef90_DOMK18 R G L R A D T L
 UniRef90_F2SJ07 R G I W G D T W G K I
 UniRef90_E4RV77 L G L R S D T F
 UniRef90_UPI0004726DA3 L G L R G D T F L H
 UniRef90_B8D0I9 R G L R G D T F
 UniRef90_W0F2M5 I G L R G D T F
 UniRef90_UPI00040192F2 L G L R G D T F
 UniRef90_Q04GM2 Q G L R G D T
 UniRef90_F6CKS3 V G L R A D T L
 UniRef90_B6QM58 R G I W G D T F G K V
 UniRef90_F7WBI0 E G I W G D T F G K V
 UniRef90_H8KLT3 L G L R G D T F N H
 UniRef90_H6BLX7 S G T W G D T F G K V
 UniRef90_G2SHJ1 S G I W G D L F G R V
 UniRef90_Q2RM82 V G L R G D T L
 UniRef90_UPI00030DA77E V G L R G D T L
 UniRef90_A5D175 V G L R G D T L R K
 UniRef90_T0CFD9 L G L R A D T F
 UniRef90_Q2NEV6 R G L R G D T L G K L
 UniRef90_UPI0003B77B62 Q G L R G D T L K K
 UniRef90_UPI00035D28E3 L G L R G D T L
 UniRef90_Q5BDB6 H G I W G D T F G R L
 UniRef90_UPI000476D2EC T G L R G D T F K R
 UniRef90_D5XFA4 V G M R G D T L
 UniRef90_UPI0003B4C4F2 R G L R A D T L S Q
 UniRef90_U5BS71 L G L R G D T F
 UniRef90_K2RV28 H G I W G D T F G K I
 UniRef90_Q67L18 C G L R G D T L
 UniRef90_G9WH39 T G L R G D T V N K I
 UniRef90_UPI00024909F1 R G L R A D T L G K V
 UniRef90_Q1ASZ8 R G I W G S T W G R V
 UniRef90_H6REA3 L G L R G D T F
 UniRef90_D9QQR5 V G V R G D T F
 UniRef90_F4CET7 L G L R G D T F
 UniRef90_UPI0003614886 R G L R S D T L
 UniRef90_UPI0004087EB1 R G L R A D T L
 UniRef90_L8G3T0 S G I W G D T F G K V
 UniRef90_UPI000375E693 R G L R S D T F
 UniRef90_A5UJB3 R G L R G D T V G K I
 UniRef90_UPI0004699986 R G L R S D T L Q K
 UniRef90_UPI000248D2CA R G L R S D T M
 UniRef90_D7DV26 R G L R G D T F G K I
 UniRef90_R7YJL5 A G I W G D T F G K I
 UniRef90_I4CCX4 S G L W G D V W G R V
 UniRef90_C8W0B5 S G L R G D T L
 UniRef90_L2GHI2 A G I W G D T F G K I
 UniRef90_W2E3B3 R G L R S D T F
 UniRef90_UPI0003B4A8C5 L G L R G D T L
 UniRef90_UPI00037BDF9E L G L R A D T L
 UniRef90_E6SK17 H G L R G D T L
 UniRef90_B114G7 V G L R G D T L R R C
 UniRef90_B3DV01 S G L W G S S W G R V
 UniRef90_K5AAK9 R G L R S D T M S A M
 UniRef90_UPI0002888201 R G L R S D T L
 UniRef90_UPI00035CC068 R G L R S D T F
 UniRef90_D5BZ77 A G I W G T Q W G R V
 UniRef90_F2IER2 L G L R G D T F
 UniRef90_UPI0004702EF8 I G L R G D S F
 UniRef90_UPI0002EC6594 R G L R G D T
 UniRef90_C7PAQ2 V G L R G D S F
 UniRef90_M9M6C5 R G L R S D T M G H
 UniRef90_UPI0003634067 V G L R G D T L R S V
 UniRef90_F5L3K3 L G L R S D T L
 UniRef90_B6HF82 R G I W G D T W G K I
 UniRef90_M1Z9X5 R G L R S D T F
 UniRef90_X1G4L2 C G L R G D T L
 UniRef90_UPI000467EA91 Q G I W G S T W G R I
 UniRef90_L0K8W1 N G L R G D T F K T I
 UniRef90_J9HMK5 L G L R A D T L
 UniRef90_E9F126 E G I W G D T F G K I
 UniRef90_D3F441 L G L R S D T
 UniRef90_UPI000405527D L G L R S D T L L R

UniRef90_G4HAH4
UniRef90_UPI00036CD6FC
UniRef90_R4KSN8
UniRef90_G2TPV0
UniRef90_UPI00036D5757
UniRef90_S0B1A5
UniRef90_V5DY63
UniRef90_D5WQ74
UniRef90_C8VWV57
UniRef90_W4QXU8
UniRef90_UPI000478A81F
UniRef90_T0C9M3
UniRef90_J0USW8
UniRef90_J9HD70
UniRef90_F5LLP4
UniRef90_L5MZG1
UniRef90_M8DBT3
UniRef90_UPI00041AE92B
UniRef90_E3IZM0
UniRef90_C8WSF4
UniRef90_D5H417
UniRef90_V6MCC4
UniRef90_C6CU10
UniRef90_R8BPF6
UniRef90_E7QPP4
UniRef90_G0S9G6
UniRef90_G2QVV5
UniRef90_U1XB73
UniRef90_C9R8R9
UniRef90_UPI000477F99A
UniRef90_F9ZZF2
UniRef90_UPI00044496CB
UniRef90_F5SAZ5
UniRef90_UPI000407B714
UniRef90_D4YG33
UniRef90_E3DVD9
UniRef90_Q9AF21
UniRef90_M0MV98
UniRef90_UPI00036ED5CD
UniRef90_K5X4S6
UniRef90_B0TA83
UniRef90_UPI0003671ABC
UniRef90_UPI000477AC9B
UniRef90_A9ZIJ6
UniRef90_UPI0002E3BCD5
UniRef90_J2ZY88
UniRef90_A0A015KLE3
UniRef90_E1ZIX8
UniRef90_K9H622
UniRef90_UPI0002625C64
UniRef90_Q65IS3
UniRef90_U4WUN5
UniRef90_UPI00047CE966
UniRef90_UPI00047DFBC
UniRef90_UPI0003789CD6
UniRef90_S7RAT8
UniRef90_UPI0003B68C28
UniRef90_UPI00034AF415
UniRef90_E6TZS3
UniRef90_F9TK08
UniRef90_B0YA08
UniRef90_UPI00047A4D7A
UniRef90_UPI000377C083
UniRef90_UPI00037E0713
UniRef90_I4BS66
UniRef90_F4CWV3
UniRef90_Q8TYA8
UniRef90_O06739
UniRef90_UPI0003707AEE
UniRef90_U1P845
UniRef90_UPI00037A1D7A
UniRef90_I5CX79
UniRef90_F4CQB5
UniRef90_I4BTG3
UniRef90_UPI00036E3FF4
UniRef90_F9G8G7
UniRef90_UPI0003771E9B
UniRef90_UPI00028816B3
UniRef90_A7IQH1
UniRef90_W7SQ69
UniRef90_M0LZP1
UniRef90_UPI0002FE77CC
UniRef90_UPI00047CBFEF
UniRef90_UPI000479BAAA
UniRef90_A1SC88
UniRef90_UPI000479936C
UniRef90_UPI0002627587
UniRef90_UPI0002E261EC
UniRef90_N0AR23
UniRef90_K6CB79
UniRef90_B9HYU2
UniRef90_A0A022QGK7

1 10 20 30 40

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

UniRef90_G4HAH4 C I K F G F G T A P L Y K M D M L L Y K I 60 G L A K Q H G I M V M P G G G T L L E T A
UniRef90_UPI00036CD6FC L V K L G F G T S L L V P A A G T L E E E K I Q L V R R Q N G I D I Y F F G G G T L L F E A
UniRef90_R4KSN8 F V L K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_G2TPV0 F V K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_UPI00036D5757 F V K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_S0B1A5 F L K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_V5DY63 H W K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_D5WQ74 Y W K F G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_C8VWU57 L V K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_W4QXU8 F V K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_UPI000478A81F I I K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_T0C9M3 L V K L G F G T S A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_J0USW8 F I K F G W G T A A T V E S D L V V J K N K I Y H A D N K I L T Y F F G G G T L L F E A
UniRef90_J9HD70 L V K F G W G T S L V T P R R E L L D E K I A E R A K V L R R L G I D Y F F G G G T L L F E A
UniRef90_F5LLP4 Y L K L G F G T S P L Y P P R E K L R R Q K I E R A K A H V L G L D H I Y M P G G G T L L F E A
UniRef90_L5MZG1 I Y K L G F G T S A L Y P P G K F L L Q Q K V E E A K T W N L H I M P P G G G T L L F E A
UniRef90_M8DBT3 I Y K L G F G T S A L Y P P G K F L L Q Q K V E E A K T W N L H I M P P G G G T L L F E A
UniRef90_UPI00041AE92B F I K V G F G T S P L Y T A D S Y S L L D Q D K I E A R A Q S L V G I A V F F G G G T L L F E A
UniRef90_E3IZM0 F V K F G W G T A L V T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_C8WVSF4 C V K F G W G T S M V T T P K N L E E K I E V L N R R L G I R Y F F F G G G T L L F E A
UniRef90_D5H4I7 V A K L G F G T A A A L Y T K N L E E K L E D V Y R E A Y G L P F F F F G G G T L L F E A
UniRef90_V6MCC4 I C K L G F G T A A L Y T S Q L L E T Q K L E L A R E Y A G L Q I M P G G G T L L F E A
UniRef90_C6CU10 V T K L G F G T A V L Y E P E F L Q R K I E L A R E N N G L T I M P G G G T L L F E A
UniRef90_R8BPF6 G L K F A G G S F S L F P P E D V V R E E L L D L A H H E Y H G V V Y Y S T G G G W I E N V
UniRef90_E7QPP4 I Y K F A G G S F A L Y P P E D K L R E L I D L A H H E Y H G V V A L Y P G G G W I L F E A
UniRef90_G0S9G6 G L K F A G G S F A L Y P P E D K L R E L I D L A H H E Y H G V V A L Y P G G G W I L F E A
UniRef90_G2QVV5 Y L K L G F G T S L L Y P P E D K L R R K K I E L A H H E Y H G V V A L Y P G G G W I L F E A
UniRef90_U1XB73 F L K L G F G T T G L Y R E E V L R R K I S L A H S F G I K V Y F F G G G T L L F E A
UniRef90_C9R8R9 I V K L A F G T A M V T P P L L A E K I K I L Y R S D A G I N V C P G G G T L L F E A
UniRef90_UPI000477F99A T I K L G W G T C A L Y P S D V L R A L I D T A H K H D C Y C S T G G G Y I E R V
UniRef90_UPI0004496CB G V K W A G G S F L L P P F H L L R E K L R L S F E A Y D V H L V L P G G G T L L F E A
UniRef90_F5SAZ5 F I K L G F G T A L G L T T Q N L E E A K L E I Y A N Y Q N G I S V Y L V G G G T L L F E A
UniRef90_UPI000407B714 I V K L G W G T A L T M P N E E L J K L L D L A H E Y G V K V S T G G G T L L F E A
UniRef90_D4YG33 L V K F A G G S F T L M P N E E L J K L L D L A H E Y G V K V S T G G G T L L F E A
UniRef90_E3DVD9 F V K F G W G T S L T K D L E E K L S C L K R E N G V L K Y F F G G G T L L F E A
UniRef90_Q9AF21 H W K L A F G T S A L M P P Q V L A D K L A F L R L T Y P G G G T L L F E A
UniRef90_M0MV98 I Y K F S G G S F S L M P P E E A V R E L I D I C H E F D V K V S T G G G T L L E N V
UniRef90_UPI00036ED5CD L T K F G F G T S S L Y P A P L R R E K I A Q A K K A G I A A F S T G G G T L L F E A
UniRef90_K5X4S6 G I K F A G G A F S L M P P E E R L R L L I E V A H K H D C Y Y V S T G G G T L L F E A
UniRef90_B0TA83 F I K L G F G T S A A L Y R P E E L L E Q K V N I A R T R Y G V E V Y V G G G T L L G E A
UniRef90_UPI0003671ABC C V K F G W G T S I S N T H E L L N E K I N L L A K L H H E T D F F F G G G T L L F E A
UniRef90_UPI000477AC9B I L K L G F G T S R I Y S R K K L L Y K L S L L K K A G I I V C P P G G G T L L F E A
UniRef90_A9ZIJ6 I L K L G F G T S A V Y P H R L L T A K L N A A K R Y G I T V M P P G G G T L L F E A
UniRef90_UPI0002E3BCD5 L Y K L G F G T I A L Y P L R E I L L Q K L T L A K Q N G V H I M P P G G G T L L F E A
UniRef90_J2ZY88 F I K L G F G T S P L Y P S E L L E R K I A Y A K Q Q G I T V M P P G G G T L L F E A
UniRef90_A0A015KLE3 G L K F A G G A F H V M N R R A V K A L N D E A H H K H G V Y T S T G G G W I E R V
UniRef90_E1ZIX8 G V K F A G G S F S L M P P R E R L R A L I N T V H H G C Y V S T G G G W I E R V
UniRef90_K9H622 F V K F G W G T S L I T S H I R Q K I A C L R D Q G I E F F F F G G G T L L F E A
UniRef90_UPI0002625C64 F V K F G W G T S L I T S H I R Q K I A C L R D Q G I E F F F F G G G T L L F E A
UniRef90_Q65IS3 I Y K L G F G T S V L Y P F S Y L E E E K L T L A L S L D I A I M P G G G T L L F E A
UniRef90_U4WUN5 F V K F G W G T S L V T K H I E E K L A C L Q D D H D V D Y F F G G G T L L F E A
UniRef90_UPI00047CE966 Y V K F G W G T C L V T P P F L E E K M A V L R E H H D V H F F S G G G T L L F E A
UniRef90_UPI0003789CD6 G V K W A G G S F S L M P P R E Q V R A I S D L A H H E H D A Y V S S T G G G W I E R V
UniRef90_S7RAT8 G I K F A G G S F S L M P V E R L K A F I D T A H K H N C Y V S S T G G G T L L F E A
UniRef90_UPI0003B68C28 V V K F G W G T A L V T D Q L R W K L D A V R N G V S D F Y F F G G G T L L F E A
UniRef90_UPI00034AF415 F V K F G W C S L I T K Q I L E E K M E C L K L Y N V S D Y F F G G G T L L F E A
UniRef90_E6TZS3 F I K F G W G T S I T G K L I E K I E C L K E N N I D Y F F G G G T L L F E A
UniRef90_F9TK08 S I K F A G G S F T F M N P K K I R E I N D L A H H D Y G V Q V S T G G G T L L E Y V
UniRef90_B0YA08 G L K F A G G S F S L F Q E K P L R E L I D L A H H D Y G V Y V S T G G G W I L F E A
UniRef90_UPI00047A4D7A F I K F G W G T S L L S K K L P E K I N Y L I R N E I D Y F F G G G T L L F E A
UniRef90_UPI000377C083 H W K F G F G T S A F V D K E A L L Q E K L R L L A S H D I L T M P G G G T L L E V T
UniRef90_UPI00037E0713 C I K L G F G T S A L Y A D S A L L L Q E S K I R L L A R R Y E I R I M P G G G T L L E T
UniRef90_I4BS66 V L K I G W G V A Y I D R A L K D R V A L C H S A D V I T C L G G G T L L E I
UniRef90_F4CWV3 I W K I G W G T A Y V D S A L A G D K I A L L A A H D V A V C L G G G T L L E I
UniRef90_Q8TYA8 A V K L G W G T A R L I D K E I V A R K V E M Y V D A G L D V F P G G G T L L A E A
UniRef90_O06739 F V K F G W G T S L L T K D L E E K I S T L K E H D I L T F F F G G G T L L F E A
UniRef90_UPI0003707AEE G I K W A G G S F A L V P P E Q V R A F S D I A H H E N N A Y V S S T G G G W I E T V
UniRef90_U1P845 I Y K F S G G S F A L M P P E G V V T E L S D I C H H H N V K V S T G G G T L L F E A
UniRef90_UPI00037A1D7A I A K M G I G S A Y V T P N V E R K V N L Y K K Y D I Q P Y C G G G T L L F E A
UniRef90_I5CX79 I W K F G W G T A Y L D P A V G S K V D A L L H A A Q A C C L T G G G T L L E V I
UniRef90_F4CQB5 I W K V G W G T A Y V D S A L R G P K V A L L D H A H D V A A C C L M L E I
UniRef90_I4BTG3 V L K I G W G T A Y I D P H L K A R V A L C H S H H G V I S C L G G G T L L E I
UniRef90_UPI00036E3FF4 A V K F G W G T C L V T P R D I K T K I D I C H R A A G N V D A Y S T G G G T L L F E A
UniRef90_F9G8G7 G L K F A G G S F S L F P E D K V L K E I N L A H H E A Y N V Y V S T G G G W M E H V
UniRef90_UPI0003771E9B I V K I G W G I A Y V D P N T V K D R I A R C Q E A G V K V S L G G G T L L E V
UniRef90_UPI00028816B3 L A K L G I G S A Y V T P N L Q E K I N L L Y K A R Y K V I P Y C G G G T L L F E A
UniRef90_A7IQH1 H W K F A F G T S A L M P A H V L R H K L E L L A A Y G L I T Y P G G G T L L F E A
UniRef90_W7SQ69 L V K F G W G T A L V T K D I D R K T A V L R R E A G I D F Y F G G G T L L F E A
UniRef90_M0LZP1 I V K L G W G T G Y V S N R L E E K V L A L Y R R N D I T P Y C G G G T L L F E A
UniRef90_UPI0002FE77CC I A K L G I G T A Y V F P N L L K D K V K L Y Q Q D Y N I K T Y C C G G G T L L F E A
UniRef90_UPI00047CBFEF I A K L G I G S A Y V T P N I N K K V Q L Y Q D Y N V K P Y C G G G T L L F E A
UniRef90_UPI000479BAAA I F K F P G A S M P L M S E T T L R K F L D G C C H R E Q Q V E T S T G G G T L L F E A
UniRef90_A1SC88 V L K V G W G I A Y V D P H I J K E R A V L C H R E A G V T L C L G G G T L L E I
UniRef90_UPI000479936C W V K L G F G S A R L D Y R E S V L R E K I A I C C R R H H G I V E L L Y L G G G T L L E I
UniRef90_UPI0002627587 L K F G W G T A L V T P R D I H E K V S L Y R E A G I G C Y F G G G T L L F E A
UniRef90_UPI0002E261EC I A K L G V G T A Y V T P N I Q E K V D L Y K Q Y Q I K P Y C G G G T L L F E A
UniRef90_N0AR23 I A K I G I G S A Y V T P N I Q E K V D L Y K Q Y Q I K P Y C G G G T L L F E A
UniRef90_K6CB79 V A K L G V G S A Y V T P N I D E K I K L Y K Q Y Q I K V Y C G G G T L L F E A
UniRef90_B9HYU2 G L K F S G G S H S L M P K S F I K E V D M A H K H D V Y V S T G D W A E H
UniRef90_A0A022QGK7 G L K F A G G S H S L I P K S Y I K E V T E M A H K H N V Y V S S G D W A E H

UniRef90_G4HAH4 A V Q Q Q D I V P A F F N S I C S L G F M E N A V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI00036CD6FC F V A R Q G L F D E F F R Y L D R F F G F G F M E Y V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_R4KSN8 A L L W Q N K I R E D F F L V D T Y C C R R F G F G F M E Y V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_G2TPV0 F A S Q Q K K T D R Y V F L Q C R R F F E C E Y V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI00036D5757 Y L V R G Q L D D A Y V Q L L K K E Y N I D T L E V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_S0B1A5 F I A L R N K M P E F H K I M K E F G I K M V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_V5DY63 U A L L T H H C R V Y M T H A K S L G F T A V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_D5WQ74 A L Y Q D K A D R L E K A R E L L G F T C L E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_C8VW57 A W T Q G V F A E F Y L R R Y C K K N Q C Q A M E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_W4QXU8 F L S Q N K V D E F Y R A F C K K N Q C K Y I E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI000478A81F A I K L D V V P A F F R Q A M A S V G F H G I E V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_T0C9M3 F Y I Q G K L D D A Y H F A F C Q S C A C R N A V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_J0USW8 A I Q E K K L D D L F F K E T S R L G F N A V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_J9HD70 F Y V Q N Q I E A Y F E K F C L Q L H E C R Y V E V E V V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_F5LLP4 A V Q E G L I S S Y F M Q T V A A S L G F F T C Y E V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_L5MZG1 A I R H S T I K E Y M D Q I V A A L G G F S A V E V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_M8DBT3 A L Q S T L E A G Y I E Q V K A I G F N A V E V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI00041AE92B A V R L H R E E A G F F A A V L E L G F D G V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_E3IZM0 H V L Q R R E F D D Y R A F C H H Y G C S R D V E V E V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_C8WSF4 F L I Q G R I D D D Y E A M C L H Y G C S R D V E V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_D5H417 Y F L R S D Q I D D D Y R R L D D D L D V H H Y E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_V6MCC4 A L R S T P A S Q Y M E T I L D S Q L G F T A V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_C6CU10 A V Q Q H L A G S F F D S I C E L G F N G L E I V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_R8BPF6 L D A H S A V D R Y L K R C K S L G F D V M E I I S S S G F L A I S I P T D D D W M V E L L T
UniRef90_E7QPP4 L V R N D K V E R Y I E E A G N L G F D V E I I S S S G F L A I S I P T D D D W M V E L L T
UniRef90_G0S9G6 P S P H D I T R Y L T K C R S L G F D V I E I I S S S G F L A I S I P T D D D W M V E L L T
UniRef90_G2QVV5 L L T Q T A I P R Y L K K C K A L H F F D V V E I I S S S G F L A I S I P T D D D W M V E L L T
UniRef90_U1XB73 A Y Y Q G V L K N Y L D S I E K L G F S Y M E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_C9R8R9 A L A Q G K I E H L L E R F L N L G F S T V E I I S S E G T T I I S W S E N E R M R E R L I
UniRef90_UPI000477F99A F I V R N Q F E D Y Q K M M D K Y E L F F I E I I S S D G A I N I S H E K K C E Y I
UniRef90_F9ZZF2 I F E F A D V D T M L D L K A L G F N A I E I V S S N G I P S M T L N D K Q V I
UniRef90_UPI00044496CB L A N K D V S K Y L R K C K D V G F D V L E I I S S S G F L S I P T E D W A E L V
UniRef90_F5SAZ5 A Y T Q D G M N H G Y F E T L S R I L G F Q W L E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI000407B714 A L R D G R L E G V E A W C R L G I A H V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_D4YG33 V L T Q G A V D Y Y I S E C K R V G F D I I I S S T G F I T M P T D D D W M V E L L T
UniRef90_E3DVD9 Y A S Q K K V D E F Y R Y C I S Y G E Y I E I I S S N G T I I P I T N R K K A A Y I
UniRef90_Q9AF21 A V V Q H C R V F M Q R A E E L G F T A V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_M0MV98 L I R N D K V D Q V V E E C A E M G F D I V E I I S S S G F L A I S I P T D D D W M V A M T
UniRef90_UPI00036ED5CD A F R H D V V S D F F G S V I G L G F D G V E I I S S D G F L S I P T T R A S W D E L V
UniRef90_K5X4S6 A G S P Q V V S K Y L T A C K N M G F D V L E I I S S A G G F L S I P T T R A S W D E L V
UniRef90_B0TA83 A Y W Q G G Y D E L L A S L K G V D I R W V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI0003671ABC F L S Q G K I P L F F F N T C R R Y E C N G V E I I S S N G T I I P L S N H K E K A R Y I
UniRef90_UPI000477AC9B A V Q Q D V V P D F F D N T I C N L G F N G V E V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_A9ZIJ6 A Y F Q N K V I A E Y F E A C Q Q L G F N G I E I I S S D G V D A I D I E M K V N F I
UniRef90_UPI0002E3BCD5 A I A K N T L V K D F F H M M G E T G F T G V E V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_J2ZY88 A I R H N T L A D Y M F L I R S L G F T A V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_A0A015KLE3 A V H L G V S E S F F E T V C R L G F N G I E V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_E1ZIX8 L A S R E T I V Q K Y L A E C K V L G F D T V E V S S S G F L S I P T D D D W M V A R L V
UniRef90_K9H622 A G N Q A I I E K Y L K A C K D F G F D V V E I I S S S G F L S I P T D D D W M V A R L V
UniRef90_UPI0002625C64 F L S R D R V E E Y Y D Y C R R F H C N Y V E I I S S N G T M P I S N K E K G Y F V
UniRef90_Q65IS3 F L S Q D K I E D Y Y R Y C K L Y G C R Y V E I I S S N G T M P I S N K E K G Y F V
UniRef90_U4WUN5 A Y T Q D K I K T Y L E R L R D A G F N A V E I I S S D G S M P I S T S Q E R H D A I
UniRef90_UPI00047CE966 S V S Q N K V E Q Y F H Y C Q N M Q C K Y I E I I S S N G T V P I S N K E K A E Y I
UniRef90_UPI00047DFBC F L S Q K K V D E F L N L C H G Y H A F I E I I S S N G T L A L S N R S K A R F I
UniRef90_UPI0003789CD6 L Y G P E A V D R Y L A E A K A V G F D V L E I I S T G F L S M P T S D W Q F L I
UniRef90_S7RAT8 I A S K D Q I S R Y L R A C K D V G F D V L E I I S S S G F L S I P T S D W Q F L I
UniRef90_UPI0003B68C28 F V S Q G L F D D W R R F V D D F E A G T V E I I S S N G T I I A L S N D R K A D Y I
UniRef90_UPI00034AF415 F L S Q D K I D E F Y R Y C D H H K C T H I E V S S N G T L D L T N S E K A R Y I
UniRef90_E6TZS3 F L S Q G K L D Q Y Y L Y C K K F D C K Y I E I I S S N G T M E L T N K E K A N F I
UniRef90_F9TK08 I Y G R D A V D K Y L Q E T K L G F D I I I S S T G F L S I P T E D D W Q R L V
UniRef90_B0YA08 P D A N T V F D K Y L K K C K D L G F D V I E I I S S G F L S F P E D D W G L V
UniRef90_UPI00047A4D7A F L S Q R K V E A F Y D R C R N F N C N Y V E I I S S N G T L A I P N H Q K A E Y I
UniRef90_UPI000377C083 A L L E N H C R V Y M S H A K E L G F T A V E I I S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_UPI00037E0713 A V R Q D V A D S F L D R V C K C G Y D T I E V S S D D G T T I I E L S N H K E D Q K L K Y I
UniRef90_I4BS66 A E A Q D R V D E L A E W A S D S G I A A V E V S S N G L Q A L S S A R K T D L V
UniRef90_F4CWV3 A W A Q G R A D A C L A W A R E S G F S H I E V S S R D G T V D M S L A E K G A L I
UniRef90_Q8TYA8 A I A Q G N F E G Y L N E L D E L G F N A I E I I S S D G M I P M S L E K K C E L I
UniRef90_O06739 Y V S Q K K V N E F H R Y C T Y F G C E Y I E I I S S N G T L P M T N K E K A A Y I
UniRef90_UPI0003707AEE L Y G R D D A V D H Y L K E A K E V G F D V I E I I S S T G F L A I M L P T S G L Q R L V
UniRef90_U1P845 L A R N D S V E Q Y F A E A E R V G F D I V E I I S S S G F L A I G V D N M V R M T
UniRef90_UPI00037A1D7A A Y Y Q N K L T E Y T H Y L R N L G I E W I E I I S S N G T L D I P L N D R M L N L V
UniRef90_I5CX79 A W M Q G R T E E F F E F A A D V G F D S V E V S S D G A T V M Q L H E K R L I
UniRef90_F4CQB5 A W A Q G A A E A C L E W A G E V G F R Y I E I I S S R G T V A M S L P E K R A L I
UniRef90_I4BTG3 C Q A Q G R V A E L R N W A S D I G I D A V E I I S S N G M Q M M T T I Q K N S L V
UniRef90_UPI00036E3FF4 Y V A G D A V D D W V A L K Q R A G A G T T V E I I S S D G T V V M S A T E K S G W I
UniRef90_F9G8G7 L L Q S D A V D Q Y L K K C K L G F D V I E I I S S S G F L S I P Q O D D W L R I V
UniRef90_UPI0003771E9B C A T Q G R V S E L R R W A T D I G V D C V E I I S S N G L G M L T S A R K A R L I
UniRef90_UPI00028816B3 C Y L Q E K L D E Y T N S L Q R H G I E W I E I I S S N G T I I D I P L H K R R I S L I
UniRef90_A7IQH1 A I V Q Q H C R V Y M S Q A R E L G F Q A V E I I S S D G T T I I D L P A D R R R R V I
UniRef90_W7SQ69 A V W T D Q L G D Y L S L V E R T Q A T H I E V S S N G T I I P L D Q R S K A D Y V
UniRef90_M0LZP1 A V M Q D R F E P F R E K L L D L D I D D L V E I I S S T G V I S L D H D E K C E Y I
UniRef90_UPI0002FE77CC C Y Q Q N K I D E Y L K W L K E L A I D W L E V S S N G T L N I P L Q E R L H E L I
UniRef90_UPI00047CBFEF S Y F Q N K I P E Y L S Y L R N L G I E W I E V S S N G T L E I P L R E R L Q I I
UniRef90_UPI000479BAAA V L T R G A V D K Y F E A L K N Y E F D I V E I I S V G M L A I T S D D Y R L R I
UniRef90_A1SC88 C A A Q G R I P E L T R W A H R I G V E A V E I I S S N G L A R M S S D D K R A L V
UniRef90_UPI000479936C A I Q Q G R F D A Y L A Y T R K L I G T V E I I S E G T F P L T P A L R R H L I
UniRef90_UPI0002627587 Y L V R D R L D D Y L A F V D D A G A T H I E V S S N G T I I P L S Q H P D K A F Y V
UniRef90_UPI0002E261EC C Y L Q K K I Q E Y I L A Y L R L G I E W L E I I S S N G T L D I S L P E R I R L V
UniRef90_N0AR23 C Y Y Q N K I P E Y V H Y L N H L G I E W I E V S S N G T L D I P L I G K R L S L I
UniRef90_K6CB79 C Y Y Q G K L D E Y R K F L Q K H G V E W I E I I S S N G T L D I P L E T R F D L V
UniRef90_B9HYU2 L L H K G A F K E Y E E C K S M G F D T I E I I S N V G S L G V P E E T L L R Y V
UniRef90_A0A022QGK7 L P R K G A F Q D Y I E E C K R L G I D T I E I I D A G S L G V P E D V L L R Y V

UniRef90_G4HAH4
UniRef90_UPI00036CD6FC
UniRef90_R4KSN8
UniRef90_G2TPV0
UniRef90_UPI00036D5757
UniRef90_S0B1A5
UniRef90_V5DY63
UniRef90_D5WQ74
UniRef90_C8VWU57
UniRef90_W4QXU8
UniRef90_UPI000478A81F
UniRef90_T0C9M3
UniRef90_J0USW8
UniRef90_J9HD70
UniRef90_F5LLP4
UniRef90_L5MZG1
UniRef90_M8DBT3
UniRef90_UPI00041AE92B
UniRef90_E3IZM0
UniRef90_C8W5F4
UniRef90_D5H417
UniRef90_V6MCC4
UniRef90_C6CU10
UniRef90_R8BPF6
UniRef90_E7QPP4
UniRef90_G0S9G6
UniRef90_G2QVV5
UniRef90_U1XB73
UniRef90_C9R8R9
UniRef90_UPI000477F99A
UniRef90_F9ZZF2
UniRef90_UPI0004496CB
UniRef90_F5SAZ5
UniRef90_UPI000407B714
UniRef90_D4YG33
UniRef90_E3DVD9
UniRef90_Q9AF21
UniRef90_M0MV98
UniRef90_UPI00036ED5CD
UniRef90_K5X4S6
UniRef90_B0TA83
UniRef90_UPI0003671ABC
UniRef90_UPI000477AC9B
UniRef90_A9ZIJ6
UniRef90_UPI0002E3BCD5
UniRef90_J2ZY88
UniRef90_A0A015KLE3
UniRef90_E1ZIX8
UniRef90_K9H622
UniRef90_UPI0002625C64
UniRef90_Q65IS3
UniRef90_U4WUN5
UniRef90_UPI00047CE966
UniRef90_UPI00047DFBC
UniRef90_UPI0003789CD6
UniRef90_S7RAT8
UniRef90_UPI0003B68C28
UniRef90_UPI00034AF415
UniRef90_E6TZS3
UniRef90_F9TK08
UniRef90_B0YA08
UniRef90_UPI00047A4D7A
UniRef90_UPI000377C083
UniRef90_UPI00037E0713
UniRef90_I4BS66
UniRef90_F4CWV3
UniRef90_Q8TYA8
UniRef90_O06739
UniRef90_UPI0003707AEE
UniRef90_U1P845
UniRef90_UPI00037A1D7A
UniRef90_I5CX79
UniRef90_F4CQB5
UniRef90_I4BTG3
UniRef90_UPI00036E3FF4
UniRef90_F9G8G7
UniRef90_UPI0003771E9B
UniRef90_UPI00028816B3
UniRef90_A7IQH1
UniRef90_W7SQ69
UniRef90_M0LZP1
UniRef90_UPI0002FE77CC
UniRef90_UPI00047CBFEF
UniRef90_UPI000479BAAA
UniRef90_A1SC88
UniRef90_UPI000479936C
UniRef90_UPI0002627587
UniRef90_UPI0002E261EC
UniRef90_N0AR23
UniRef90_K6CB79
UniRef90_B9HYU2
UniRef90_A0A022QGK7

UniRef90_G4HAH4 G A E F I T I E A R E T G M G V G I F D K Q G E C R E E L L I D I I T K F V P T R
UniRef90_UPI00036CD6FC G A W K V I A E A R E S G G T N V G I L Y N K D K G G S A N L Q L L I E D I I R T H I L D A D
UniRef90_R4KSN8 G A Y K V I L M E A R E S G G T N V G I L Y N K D K G G S A N L Q L L I E D I I R T H I L D A D
UniRef90_G2TPV0 G A Y K V I L M T E A R E S G G T S V G I L Y N K D K G G S A N L Q L L I E D I I R T H I L D A D
UniRef90_UPI00036D5757 G A E K V I T L E A R E S S G T V G M F R N K P S G S E I R S R G L I E E I L T D Q V I P V D
UniRef90_S0B1A5 G S K V V I I E A R E S S G T T V G I F R N K D S G S V V N K D M V D D Y L C K A M I D S K K
UniRef90_V5DY63 G A A W V I I E E G R E S S G H S V G I F R S D S G S N I V L D E S Y E V D V I V G G M I D G S K
UniRef90_D5WQ74 G A D Y A I L E E G R E S S G R N S V V G F Y R S D S G S I V L E E E I G R L M E L L P P D
UniRef90_C8VWU57 G A D Y V I L E E G R E S S G R E S V V G I Q S D S G S K V L D D A L A V E F V A S I L P V E R
UniRef90_W4QXU8 G A T K V I T E A R E S S G T S V G I L Y C Q S N G G E M R Y D L L E A E L L S I A I
UniRef90_UPI000478A81F G A E L V T V E A R E S S G V G S V G I L F Q D E R G N T C R E Q E L R F M A T A V I P L D
UniRef90_T0C9M3 G A Y K V I T E A R E S S G T S V G I L Y C Q A S D G N P R T G I L V K Q I L A S G I H A D
UniRef90_J0USW8 G S N F V I L E A R E S A G G K N S I G I Y D E S G N I I I S Q E L I L A S G I G T D
UniRef90_J9HD70 G A S Y V I T E A R E S S G T S S G I Y C R E N G A L R F G L L E E I L D A I E I E
UniRef90_F5LLP4 G A E L V T I E A R E S S G T G V V G V F D D G N G A C K D H F F L N G D I V L R S Q A N P P D
UniRef90_L5MZG1 G A S Y V I V E A R E S S G T V V G V V F D D G K G K V E T S F L L R D I H K A A N A D
UniRef90_M8DBT3 G A S Y V I V E A R E S S G T V V G V V F D D G K G K V E T S F L L R D I H K A A N A D
UniRef90_UPI00041AE92B G A E L V T V E A R E S S G V G S V G I L D E D E K G G C R E D E L L R M L Q R H L P T A G
UniRef90_E3IZM0 G A D L V I T E A R E S S G R T S C C R E P D G R E L R F G L I E E I L L E A L D D T N
UniRef90_C8WSF4 G A S Y V I T E A R E S S G T S S G I L Y C R E N G E V L R F G L I E E I L L E A L D D T N
UniRef90_D5H417 G S W K V I T A E A R E S A G G T A G V F F R D R N G N I D Q Q F V L D V I T E A A Q S
UniRef90_V6MCC4 G A S H V I V E A R E S S G I D V V G L F D E K G N C R E Q T I I E Q I L A E M S Q D
UniRef90_C6CU10 G V E R I M I E E S S E G I T T E N V R K N W R T D V V A F Q G I L A R E V P I E
UniRef90_R8BPF6 G A Y K I M V E E S S E G I T T E N V R K N W R T D V V A F Q G I L A R E V P I E
UniRef90_E7QPP4 G V E R I M I E E S S E G I T T E N V R K N W R T D V V V R G V I L E G L P K E
UniRef90_G0S9G6 G V E R I M I E E S S E G I T T E N V R K N W R T D V V V R G V I L E G L P K E
UniRef90_G2QVV5 G V E R I V M I E E S S E G I T T E N V R K N W R T D V V V R G V I L E G L P K E
UniRef90_U1XB73 G A S Y V I V E G R E S G T N V G I Y D K K V R I D T E F L L A V L R Q A I P A D
UniRef90_C9R8R9 G A H W V I I E G R E R G R Q V G I Y D A Q G R I K E R T F R S V L L E K V D P G
UniRef90_UPI000477F99A G S R Y V I A E A K E S S G K E G L F Y R N A D G R I V R S E G L V A Y E L F R N V D P
UniRef90_F9ZZF2 G V S K V I M E A R E S G T S E G I L T E N V K S W R T D V I S A I E T S S L P R D S
UniRef90_UPI0004496CB G A Y M I M I E S S E G I L T E N V K S W R T D V I S A I E T S S L P R D S
UniRef90_F5SAZ5 G A E F I T V E G R E S G Q D T V G M F R N K G G V D T D Y V L N V E A Q L D G S
UniRef90_UPI000407B714 G A W K V I A E A R E S S G T V G I F R G D G E V R M G L D E L A H A V D V A
UniRef90_D4YG33 G A Y M L M I E S S E G I T E S V A S W R T E I A T R F A S E L G T E
UniRef90_E3DVD9 G S E K V I T E A R E S G T G G L C S N G D I L R F S Q I L T D D I S G I D I N D
UniRef90_Q9AF21 G S F V I V E A R E S G R G I Y D K T G E L R S F L E I L A N L G I L D
UniRef90_M0MV98 G A D L L M V E A E G I T E E V V E W R T D V A Y R I A N E L G A E T
UniRef90_UPI00036ED5CD G A E L V T V E A R E S G N G V G L T D D R G E C E E E L R L L K R L P D P
UniRef90_K5X4S6 G A Y M I M I E S S E G I L T E N V K S W R T D V I S A V T S S L P A D
UniRef90_B0TA83 G A S Y V I V E G R E S G K G S V N F Y D A K G Q I R D D D L E R M V D A V G V Q
UniRef90_UPI0003671ABC G V F K V L T E A R E S G G M S G I T C N G N D I R S D L V E G I S D L H L
UniRef90_UPI000477AC9B G A E L L T I E A R E S G G T S V G I F D E H G E C Q L L L D V L K F V D T D
UniRef90_A9ZIJ6 G A W K I L I E A R E S S G T L G I Y D N K K S V K E T T V D T W L K E L D A G
UniRef90_UPI0002E3BCD5 G S A W M T L E E G R E S G T G V G V V D D S G S C D T A L V L T R I I E A V H P E
UniRef90_J2ZY88 G A S H V I V E A R E S S G T V V G V V I D D S G S N I D D S F V L D I I A A K A S
UniRef90_A0A015KLE3 G A D L V T I E A R E S G I D V G L F D A S G G C D K H T F Q T V L R L P A N
UniRef90_E1ZIX8 G A E M V M I E S S E G A G I T E N V A S W C T N V V S A I V D D A V G L E
UniRef90_K9H622 G A Y M I M I E S S E G I T T E N V R E W R T D T I S A I T S S L P K D
UniRef90_UPI0002625C64 G A A K V I T E A R E S G T S G M C R E N G G I R L D I F D Q I V S G I P F E
UniRef90_Q65IS3 G A E K V I T E T R E S S G T G L Y N K S D G E M R S Q L T E R E I L H G I A S T
UniRef90_U4WUN5 G A D Y V I V E A R E S G N V G I L Y N K S G G E I R S E F V R Q V I V I Q Q A S T T
UniRef90_UPI00047CE966 G A M K V I T E A R E S S G T S G L C Q E N G E I R L Q I V E D I V S G L N L Q
UniRef90_UPI00047DFBC G A Y K V I T E A R E T G S S G I T C C C K G E I R D D L I A I L N G L K E
UniRef90_UPI0003789CD6 G A D I I M I E S S E G I T T E N V A P W N T G A V A I I N G L G L E
UniRef90_S7RAT8 G A H M I M I E S S E G I T T E N V K S W R T D V I S G I N S K L P T D
UniRef90_UPI0003B68C28 G A D T V I T E A R E S G Q S S G I A R A N G E L R Y G L I E E I L S G T D V D
UniRef90_UPI00034AF415 G A T K V I T E A R E G G S S S G I C T K N G T L R Y G L L E E I L S G T D E N
UniRef90_E6TZS3 G A T K V I T E A R E S G T S S G L C K A T G E V R M K I V E D I L S S I N I K
UniRef90_F9TK08 G A Y L I M I E S S E G I T T E N A D P W R V D V P A Q F I L N Q V G L E
UniRef90_B0YA08 G V E R L M I E S S E G I T T E N V Q S W R T D V V S T I M K E L P S E
UniRef90_UPI00047A4D7A G A A K V I T E A R E S S G S G G G I C G E D G S I R G D I F D E I I A A G I P M E
UniRef90_UPI000377C083 G A A W V I T E A R E S S G Q V G V G L F D E S G N V E D F E V L D R I V J E I I G P D
UniRef90_UPI00037E0713 G A E L V S I E A R E S S G V G V L F D E A G R V C S E D E L E Q I R R R F P L E
UniRef90_I4BS66 G A R W V V V E G R E S S G T V V G L Y H S D G S L R T D L V D A I D S R L P L E
UniRef90_F4CWV3 G A W L V V T E A R G Q S S G T V V G L Y F D A A G R V R P D V V E A V A G A V G V T
UniRef90_Q8TYA8 G A E Y V I V E A R E S S G K H G P M G A E K R E R V R V V S E I V A G A V G I Q
UniRef90_O06739 G A E K V I T E A R E S G T G G I T C S S S G D V R F Q I V D D I I S S D I D N
UniRef90_UPI0003707AEE G A S I I M I E S S E G I T T E N V T E W N T G A A A S I A N G L G L E
UniRef90_U1P845 G A D L L M V E A S E G I T T E E V T E M R T D V A Y Q I I N G L G L E
UniRef90_UPI00037A1D7A C Q Y V I T E G R D S G T S G I Y D K T G L I K S E L V D E L L K E I D F N
UniRef90_I5CX79 G A N W I V T E G R E S S G T V G T L Y D K N G D V R H S L L E A V L E Q S A T G V S
UniRef90_F4CQB5 G A R L V V T E G R Q S S G T V G T F D E S G R V R P D V L V E A V A T G A V E
UniRef90_I4BTG3 G A S Y V I A E G R E S S G T V G L Y D T D G S L R T D L V E S I A T L G T E
UniRef90_UPI00036E3FF4 G A T V V T L E A R E S G R S S G F C A D G T P R E D V L E A L A G G A P L D
UniRef90_F9G8G7 G V E R I M I E S S E G I T T E N V K S W R T D V I Q Q I L R E L P Q E
UniRef90_UPI0003771E9B G A T W L V T E G R E S G T V G L Y D A S G A P R A N L V D A I S A R L P I E
UniRef90_UPI00028816B3 C K Y V I T E G R D S S G T A G I Y N A S G Q L N M E L N Q I S K N I D V N
UniRef90_A7IQH1 G A A W V I V E A R E S S G R H G I G I Y D N A S G A L K D G F L N E I A S L M G T D
UniRef90_W7SQ69 G A A M V I T E A R E S S G R S T G V Y G T D G D A I R D D V V F E R L T R D I D P P A
UniRef90_M0LZP1 G A W K I V A E G R A S S G T S T G V Y G T D G D A I R D D V V F E R L T R D I D P P A
UniRef90_UPI0002FE77CC C Q Y V I T E G R D S S G T A G I Y G N S G A I K S E L I F E L T R D I D W K
UniRef90_UPI00047CBFEF C K Y V I T E G R D S S G T S A G I Y E K C G T I K T D L I Q E L L Q D I D P N
UniRef90_UPI000479BAAA G A D L I M M E S S E G V Y T E S Q V N T W R T D V P A A F I A F L E G L E
UniRef90_A1SC88 G A R H V I A E G R E S G T V G L Y H S D G T P R V G L A E A L A R M P L G
UniRef90_UPI000479936C G A R Y V I L E G R E S S G R G A G L Y D R Q G E L D E A W F H S F V C T L D P A
UniRef90_UPI0002627587 G A D F V I T E T R E S S G T S A G L A R P D G E H V R E D V L H A V I S A V D H R
UniRef90_UPI0002E261EC C Q Y V I T E G R D S S G T A G I Y N A K G E V N K S L V T K L S K S M D I N
UniRef90_N0AR23 C C E Y V I T E G R D S S G T A G I Y G K N G D I R D D L I H E L T K D I D Y K
UniRef90_K6CB79 C K Y V I T E G R D S S G T A G I Y N P N G S L R A D I I V K V I G R L G L E
UniRef90_B9HYU2 G A D M I M I D A D D G I Y N D S L R A D I I V K V I G R L G L E
UniRef90_A0A022QGK7 G A D M I M I D A D G V C R Q A D S M R A D I I A K V V S R L G L E

UniRef90_G4HAH4 K L I W E A P L K H Q Q A M L L R K F G S N V H L G N I P P S E V L A L L E T L R
UniRef90_UPI00036CD6FC N I L W E A P Q K P Q Q Q V W F I K T R F G S D V N L G N I A P P G E E V L P L V L E E T L R
UniRef90_R4KSN8 L I L W E A P L K L Q L Q Q A D L I T R R F G S D V N L G N I A P P G E E V L P L V L E E T L R
UniRef90_G2TPV0 S I L F E A P N K Q L Q Q A F L I H H L G P D A N L G N I A P P F S D A L L E E T L R
UniRef90_UPI00036D5757 K L I F E A P K K E Q Q Q V W F V K K Y G S N V N L G N I A P P P N E V I A L L E E T L R
UniRef90_S0B1A5 K V M W E A P M K S Q Q Q A W F I E D T F G I N V N L G N I A P P T D A I A L L E E T L R
UniRef90_V5DY63 S L I W E T P L K S Q Q Q A F F I P L D I G P A N A G L G N I A P L D Q V L A L L E E T L R
UniRef90_D5WQ74 R V I W E A P Q K S S Q Q E F F V R K L G V N V N L G N I P A T E V I T A L L E E T L R
UniRef90_C8VWV57 R V I W E A P K K S Q Q Q V E L I R R F G G P G V N L G N I P P A D A I A L L E E T L R
UniRef90_W4QXU8 N V I F E A P N K K M Q T Y F I R Q K L G A N V N L G N I P P F S D P I A L L E E T L R
UniRef90_UPI000478A81F R I M W E A P L K D Q Q Q V Q L L K A L G S D V N L G N I S V L D V L S L L E T T M R R
UniRef90_T0C9M3 Q L I F E A P T K S L Q Q T Y F I L E R F G T V C L G N I P M T D D V I S L L E T T L R R
UniRef90_J0USW8 K L I F E A P N K S L Q Q V D L I K F G P Q V N L G N I A S T D A I S L L E T T L R R
UniRef90_J9HD70 K L V F E A P N K S L Q Q T H F I E K V G S N V N L G N I P A F A D V I P L L E T T L R R
UniRef90_F5LLP4 I L L W E A P K K N Q Q T I H L I E Q A L G S D V N L G N I A C T D D V L A L L E T T L R R
UniRef90_L5MZG1 R L I W E A P Q K E Q Q Q V A L L I Q T L G A S V N L G N I A G A G D V L A L L E T T L R R
UniRef90_M8DBT3 R L I W E A P R K D Q Q Q A A L L T T L L G T P E A N L G N I A P Q E E A L L E T T L R R
UniRef90_UPI00041AE92B K Q L F E A P T K E L Q Q T Y F V R R V L G T D V N L G N I A A P Q E V I A L L E T T L R R
UniRef90_E3IZM0 Q L I F E A P N K T L Q Q K Y F I D K L G P N V N L G N I A I G D A I P L L E T T L R R
UniRef90_C8WSF4 D I I F E A P N K K Q Q Q A W F I K H Q G S N V N L G N I H P E E D V L P L L E T T L R R
UniRef90_D5H4I7 K L I W E A P N K K E Q Q Q H L I Q A L G S N V H L G N I A Y S D V V L V L L E T T L R R
UniRef90_V6MCC4 C L M W E A P L K Q Q Q A Y L L Q Q F G P N V H L G N I P P S D A L A L L E A M R R
UniRef90_C6CU10 R V M F E A A E T K V F F N W Y I R E F G G A D V N L F F V V V D D H S Q I V V L L E S C L R R
UniRef90_R8BPF6 N C V F E A A E D P Q V F F E W Y I K N F G P E V N L F F V V V D D H S Q I V V L L E S C L R R
UniRef90_E7QPP4 N V M F E A A E P K V F F N W Y V R E F G G A D V N L F F V V V D D H S Q I V V L L E S C L R R
UniRef90_G0S9G6 K V M F E A A E P R V F F N W Y V R E F G G A D V N L F F V V V D D H S Q I V V L L E S C L R R
UniRef90_G2QVV5 R L I W E A P Q K N Q Q I E L L Y F W G R N V N M G N I P P G E E V L S L L E A A L R R
UniRef90_U1XB73 R L I W E A P L P S Q Q Q L A L I R R L G L E V N L G N I P P G E E V L S L L E A A L R R
UniRef90_C9R8R9 K I I W E T P E K E Q Q V L Y F I K L L G S N A N L G N I S P K E V I A L L E S A M R R
UniRef90_UPI000477F99A S V L W E A P A K E Q Q Q W L L Q N L G S N V N I G N V D H S Q I V V L L E S A M R R
UniRef90_UPI00044496CB K I M F E A A D P E V F A Y H I Q N Q G A H A N L F N V V D H S Q I V V L L E A C L R R
UniRef90_F5SAZ5 R I W W E C P Q G E Q Q Q T L L K L L G A D T V N L G N I A P A H E V L S L L E S L R R R
UniRef90_UPI000407B714 S L I F E A P R K E Q Q V T F L K R F G R E V N L G N I A P A D V L S L L E T T L R R
UniRef90_D4YG33 K V M F E A A D P D V F S W Y I K N Y G P D V N L F F V V V D H S Q I V V L L E T L R R
UniRef90_E3DVD9 Q L I F E A P N K T L Q T G F I Q K A G P N V N L M A N I S F Q N E V L S L L E T L R R
UniRef90_Q9AF21 K L I W E A P Q K E Q Q Q A A L V A R F G A N V S L F G N V D V N S Q I V L L E A L R R
UniRef90_M0MV98 N C V F E A P G P E M F E W Y I K N F G P N V N L F F V V V D N S Q I V L L E L E C M R R
UniRef90_UPI00036ED5CD K I L W E A P Q K D V Q A A L L R V L G P G A N L G N I H P Q Q D A F A L L E T T M R R
UniRef90_K5X4S6 K I M F E A A D P E V F A Y H I Q N Q G A N A N L F F V V V D H S Q I V V L L E A C L R R
UniRef90_B0TA83 A L L W E A P L K E Q Q Q A L I A R F G V N V N L G N I P V T E V I A L L E S L R R R
UniRef90_UPI0003671ABC S L I F E A P N K K L Q T F F I Q K L G P N V N L A N I P F S D A L L E T T L R R
UniRef90_UPI000477AC9B K L I W E A P L K S Q Q Q V L F L N K F G P N A N L A N I F P G D I L S L L E T T L R R
UniRef90_A9ZIJ6 S L L F E A P H K H Q Q A W L I N R L G N Q V N L A N I Q A K D V I V A L L E C L R R
UniRef90_UPI0002E3BCD5 R L M W E A P R K D Q Q Q V A I L H T A G L R A N L G N I A P Q E I V A C E E T L R R
UniRef90_J2ZY88 R L I W E A P Q K D Q Q Q C F I K A I G S D V N L G N I A Y T D V I F A L L E T L R R
UniRef90_A0A015KLE3 R I L W E A P L K S Q Q Q V F L I K A I G P D V H L G N I P P G D V Y A L L E A M R R
UniRef90_E1ZIX8 H L Q F E A A D P P V F F S W Y I K T F G A G V N L F F V V V D D H S Q I V V L L E C L R R
UniRef90_K9H622 K I M F E A A D P A V F A Y H I Q N Q G A D A N L F F V V V D D H S Q I V V L L E A C L R R
UniRef90_UPI0002625C64 K L I F E A P T K K M Q T F F I Q H V G S D V N L A N I A L A D V I S L L E T T L R R
UniRef90_Q65IS3 D L I F E A P T K Q L Q T C F I E K I G P D A N L A N I P F Q D A I P L L E T T L R R
UniRef90_U4WUN5 R L I W E A P Q K P Q Q L G L L K T I G L D A N L A N I A P A D L L S L L E T T L R R
UniRef90_UPI00047CE966 Q I I F E A P S K E M Q T C F I E K I G P N V N L A N I S I H D P I A L L E T T L R R
UniRef90_UPI00047DFBC D V I F E A P N K K L Q T C F I Q R A G S D V N L A N I P F A D D P I L L E T T L R R
UniRef90_UPI0003789CD6 N V M F E A A D P L V F E W Y V K N Y G N E V N L F F V V V D D H S Q I V V L L E G L R R
UniRef90_S7RAT8 K V M F E A A E P E V F S Y H I Q N T G A T A N L F F V V V D D H S Q I V V L L E A C L R R
UniRef90_UPI0003B68C28 R L M F E T P N K A L Q T Y F I R R V V G P G V N V A N I A H T E I V P L L E T T L R R
UniRef90_UPI00034AF415 S L I F E A P T K L M Q T Y F I K K V G P Q V N L A N I P F T E I L I P L L E T T L R R
UniRef90_E6TZS3 D V I F E A P N K T M Q S L F I K Y V G S N V N L A N I S F S D T I P L L E T T L R R
UniRef90_F9TK08 N L M F E A A D P K V F F E W Y I K N Y G I D V N L F F V V V D D H S Q I V V L L E C Y R R
UniRef90_B0YA08 R V M F E A A D P K V F F E W Y I R E F G I D V N L F F V V V D D H S Q I V V L L E C L R R
UniRef90_UPI00047A4D7A R L I F E A P N K S L Q T F F I K Q I G P N V N L A N V A L S D V I S L L E T T L R R
UniRef90_UPI000377C083 A L I W E A P L K S Q Q Q A F F I E K F G A N V G L G N I K A D D Q I L A V L E A L R R
UniRef90_UPI00037E0713 R F L W E A P Q K D Q Q Q T L L R A M G C R A M G N I Q P T D V L L E A A M R R
UniRef90_I4BS66 R V I F E A P H K A Q Q T W L I R R F G A N V N L G N V P P D E V I S L L E T T L R R
UniRef90_F4CWV3 R I V F E A P K A S Q Q A W F V R R F G A D V N L G N V A V G E D V L S A E T T L R R
UniRef90_Q8TYA8 R V M F E A P K E Q Q F E L I V R F G P E V N I A N V P P E E V I P L A E T T L R R
UniRef90_O06739 R L I F E A P N K T L Q Q G F I Q K I G P N V N L A N I P F H D A I A L L E T T L R R
UniRef90_UPI0003707AEE N V M F E A A D G P V F E W Y I K N Y G N E V N L F F V V V D D H S Q I V L Q L E G L R R
UniRef90_U1P845 N L V F E A A G P E M F E W Y L K N F G P E I N L F F V V V D D N S Q I V L E L E T T M R R
UniRef90_UPI00037A1D7A K I I F E A P L P K H Q M Y F I N E I L G P N V N L G N V K L S D V I L L E A Q R R
UniRef90_I5CX79 R I I Y E A P Q R A Q Q S V L V R R L L G S E V N L G N I A L A D V M S V L E A L R R
UniRef90_F4CQB5 R V I F E A P R A A Q Q A W F L R R F G P D V N L G N V A L A D V L L E T T L R R
UniRef90_I4BTG3 R V I F E A P R K A Q Q V E L I R R F G P T V N I G N I A L E D P L A V L L E T T L R R
UniRef90_UPI00036E3FF4 D L L F E A P T R A L Q V V D L L R R F G T D V N L G N V A T A D V V G L E T L R
UniRef90_F9G8G7 K V M F E A A D P K V F F N W Y L R G R L G A G V N V G N I A S D E E V V P L L E T L R
UniRef90_UPI0003771E9B R V I F E A P R K A Q Q A W L V G R L G T A G V N V G N V K A R E Q D V V L L E T L R
UniRef90_UPI00028816B3 K V I F E A P T P K Q Q M F F I R R F G T A N V N L G N V A R E G A N V L L E A L R R
UniRef90_A7IQH1 R L I W E A P Q K D Q Q A A L V R R F G A N V N L G N V A R E G A N V L L E A L R R
UniRef90_W7SQ69 F V M F E A P T K D L Q Q V E L I R T V G P H V N L G N I A T H D V V G V L E A L R R
UniRef90_M0LZP1 E I V F E A P Q R S Q Q Q W F I E Q L G T S A N L G N I K I S D D A I G L E T T L R R
UniRef90_UPI0002FE77CC K V I F E A P T P K H Q M F F I N C I L G T N V N L G N V K I S D V I L L E T T O R R
UniRef90_UPI00047CBFEF K I I F E A P S S K H Q M Y F I K E I L G P N V N L G N V K I L I D V I L L E A Q R R
UniRef90_UPI000479BAAA K V M F E A G A D P A V F E W Y V K N Y G P E V N L F F V V V D D H S Q I Y Q L L E C L R R
UniRef90_A1SC88 K V I F E A P T K S H Q T W F V R K F G S D V G L G N I G T D E V L A L L E T T L R R
UniRef90_UPI000479936C S L I W E A P L K S Q Q T W L L N H F G S V N L G N I P P E E A L A V L E A T L R R
UniRef90_UPI0002627587 R L L F E A P T K D L Q Q V E L I Q A L G P S V N L G N I A T T D V L L G V L E T T L R R
UniRef90_UPI0002E261EC K I I F E A P T H K Q Q Q M F F I N T F G P N V N L G N V K V I Q D V L L L E A E R R
UniRef90_N0AR23 R I I F E A P T S K H Q M Y F I K Q L G A N V N L G N V K I Q Q D V L V L L E A Q R R
UniRef90_K6CB79 R V I F E A P T S K Q Q M Y F I N A F G P N V N L G N V K M Q D A L L L E A E R R
UniRef90_B9HYU2 K T M F E A S N T K T A D W F I K R Y G P K V N L F F V V V D D H S Q I V L G L E C L R R
UniRef90_A0A022QGK7 K T M F E A S N P K T S E W F I K Q Y G P R V N L F F V V V D H S Q V M D L E C L R R

UniRef90_G4HAH4	R	G	L	R	Q	D	T	F
UniRef90_UPI00036CD6FC	L	G	L	R	G	D	T	L
UniRef90_R4KSN8	V	G	L	R	A	D	T	L
UniRef90_G2TPV0	L	G	L	R	S	D	T	F
UniRef90_UPI00036D5757	L	G	L	R	S	D	T	L
UniRef90_S0B1A5	N	G	L	R	G	D	T	F
UniRef90_V5DY63	N	G	L	R	F	D	T	L
UniRef90_D5WQ74	R	G	L	R	S	D	T	L
UniRef90_C8VW57	L	G	L	R	A	D	T	F
UniRef90_W4QXU8	L	G	L	R	S	D	T	F
UniRef90_UPI000478A81F	R	G	L	R	S	D	T	F
UniRef90_T0C9M3	L	G	L	R	S	D	T	F
UniRef90_J0USW8	T	G	L	R	G	D	T	V
UniRef90_J9HD70	L	G	L	R	S	D	T	F
UniRef90_F5LLP4	R	G	L	R	S	D	T	L
UniRef90_L5MZG1	R	G	L	R	G	D	T	F
UniRef90_M8DBT3	R	G	L	R	G	D	T	F
UniRef90_UPI00041AE92B	R	G	L	R	S	D	T	F
UniRef90_E3IZM0	L	G	L	R	S	D	T	L
UniRef90_C8WSF4	R	G	L	R	S	D	T	L
UniRef90_D5H4I7	L	G	L	R	G	D	T	L
UniRef90_V6MCC4	R	G	L	R	G	D	T	A
UniRef90_C6CU10	R	G	L	R	S	D	T	F
UniRef90_R8BPF6	E	G	I	W	G	D	T	F
UniRef90_E7QPP4	S	G	L	W	G	S	S	W
UniRef90_G0S9G6	E	G	I	W	G	D	T	W
UniRef90_G2QVV5	E	G	I	W	G	D	T	F
UniRef90_U1XB73	R	G	L	R	F	D	T	F
UniRef90_C9R8R9	R	G	L	R	S	D	T	F
UniRef90_UPI000477F99A	V	G	L	R	G	D	S	F
UniRef90_F9ZZF2	R	G	L	R	A	D	T	F
UniRef90_UPI00044496CB	R	G	I	W	G	S	T	F
UniRef90_F5SAZ5	R	G	L	R	S	D	T	F
UniRef90_UPI000407B714	L	G	L	R	S	D	T	F
UniRef90_D4YG33	R	G	I	W	G	N	N	F
UniRef90_E3DVD9	L	G	L	R	S	D	T	F
UniRef90_Q9AF21	A	G	L	R	F	E	T	L
UniRef90_M0MV98	S	G	L	W	G	K	T	W
UniRef90_UPI00036ED5CD	R	G	L	R	S	D	T	F
UniRef90_K5X4S6	K	G	I	W	G	S	T	F
UniRef90_B0TA83	R	G	L	R	S	D	T	L
UniRef90_UPI0003671ABC	L	G	L	R	A	D	T	F
UniRef90_UPI000477AC9B	R	G	L	R	Q	D	T	F
UniRef90_A9ZIJ6	L	G	L	R	S	D	T	F
UniRef90_UPI0002E3BCD5	R	G	L	R	S	D	T	M
UniRef90_J2ZY88	R	G	L	R	G	D	T	F
UniRef90_A0A015KLE3	R	G	L	R	N	D	T	F
UniRef90_E1ZIX8	R	G	I	W	G	S	T	W
UniRef90_K9H622	K	G	I	W	G	T	T	F
UniRef90_UPI0002625C64	L	G	L	R	S	D	T	F
UniRef90_Q65IS3	L	G	L	R	S	D	T	F
UniRef90_U4WUN5	R	G	L	R	G	D	T	A
UniRef90_UPI00047CE966	L	G	L	R	S	D	T	F
UniRef90_UPI00047D7FBC	L	G	L	R	S	D	T	F
UniRef90_UPI0003789CD6	Q	N	I	W	G	S	T	W
UniRef90_S7RAT8	R	G	I	W	G	T	T	F
UniRef90_UPI0003B68C28	L	G	L	R	S	D	T	L
UniRef90_UPI00034AF415	L	G	L	R	S	D	T	F
UniRef90_E6TZS3	L	G	L	R	S	D	T	F
UniRef90_F9TK08	Q	G	I	W	G	T	N	W
UniRef90_B0YA08	Q	G	I	W	G	D	T	W
UniRef90_UPI00047A4D7A	L	G	L	R	S	D	T	F
UniRef90_UPI000377C083	N	G	L	R	F	D	T	L
UniRef90_UPI00037E0713	R	G	L	R	S	D	T	F
UniRef90_I4BS66	L	G	L	R	A	D	T	F
UniRef90_F4CWV3	L	G	L	R	S	D	T	F
UniRef90_Q8TYA8	A	G	L	R	A	E	T	M
UniRef90_O06739	L	G	L	R	S	D	T	F
UniRef90_UPI0003707AEE	Q	N	I	W	G	S	T	W
UniRef90_U1P845	S	G	L	W	G	T	T	W
UniRef90_UPI00037A1D7A	R	G	L	R	E	T	F	F
UniRef90_I5CX79	L	G	L	R	A	D	T	L
UniRef90_F4CQB5	L	G	L	R	S	D	T	F
UniRef90_I4BTG3	L	G	L	R	A	D	T	F
UniRef90_UPI00036E3FF4	L	G	L	R	A	D	T	F
UniRef90_F9G8G7	L	G	L	R	A	D	T	F
UniRef90_UPI0003771E9B	L	G	L	R	A	D	T	F
UniRef90_UPI00028816B3	L	G	L	R	S	E	T	F
UniRef90_A7IQH1	S	G	L	H	Y	E	T	L
UniRef90_W7SQ69	R	G	L	R	G	D	T	L
UniRef90_M0LZP1	Q	G	L	R	G	D	T	F
UniRef90_UPI0002FE77CC	R	G	L	R	S	E	T	F
UniRef90_UPI00047CBFEF	L	G	L	R	S	E	T	F
UniRef90_UPI000479BAAA	A	G	I	W	G	S	T	W
UniRef90_A1SC88	L	G	L	R	A	D	T	F
UniRef90_UPI000479936C	H	G	L	R	A	D	R	L
UniRef90_UPI0002627587	R	G	L	R	A	D	T	L
UniRef90_UPI0002E261EC	V	G	L	R	S	E	T	L
UniRef90_NOAR23	C	G	L	R	S	E	T	F
UniRef90_K6CB79	V	G	L	R	S	E	T	F
UniRef90_B9HYU2	G	G						
UniRef90_A0A022QGK7	G	R	N	L	G	R		

	1	10	20	30	40
UniRef90_V4U8U1		D R A E K	P R R F G V T E M R S P	H Y T L S S L E D I F E S M G Q F V D	
UniRef90_G8RJC0	L D L P	A R Q S K	P R K T G I T H V L D T G V P T A T L E A V L A E T G H L I D		
UniRef90_L0EG29		D G L D L	K R S G G K T M V I D K G V G W H A Y C D M I D A A G A G A Y I D		
UniRef90_UPI000474FC12			K P R N N G L T I L I D N G I P T Q Y F W D I V N S F S E L I D		
UniRef90_M5WGY9		D R P E K	P R S Y G V T E M R G P H Y T L N V L Q D I F E S V G Q F V D		
UniRef90_UPI0002C30C83		D R P E K	P R R Y G V T E M R G P L L S Q N F L Q E I F E S M G D V V D		
UniRef90_B6WW16			K P R R S G L T C V L L D K H L G I E G T K E L I S V I A G P Y V D		
UniRef90_M4FCF9		D R P E K	P R R Y G V T E M R G P R Y S V N V L Q E I F E S M G Q F V D		
UniRef90_UPI00032A6F96		D R P S K	P R R Y G V T E M R S P H Y T L N V L Q N I F D S M G E Y V D		
UniRef90_W2RSN4					M G Y H I D
UniRef90_Q4VQ13			K P R L Y G I T E I H G P H T G P E H L Q N L F E S M G E Y I D		
UniRef90_T1BXA8			P R T A S I T H V L D R L T P I T S E Q I R D L A P Y L D		
UniRef90_M5G6D7					D E L L S D W G E F V D
UniRef90_M0RTE2		D R P E K	P R R F G V T E I R G P L A G R R H L E D I L L S M G E F V D		
UniRef90_UPI0004407B87			R R K G L T E I R G S Y Y N P T Y L Q D I L L S D W G E F V D		
UniRef90_W1NQ69		D R P E K	P R R F G V T E M R G P N Y S L N V I Q D I L L S M G Q F V D		
UniRef90_I1KLA4		D R P A K	P R C F G V T E I R R P H Y T L N V L Q D I F E S V G D Y V D		
UniRef90_C4JII8					
UniRef90_A9RX02		R P A K	P R M L G I T E V R G P A T G F E P L Q N L F E S M G E Y I D		
UniRef90_J3MGY4		R P E K	P R R Y G V T E M R S P L Y A F R A L Q E I L L D S L S P F V D		
UniRef90_M1BYS1		D R P E K	P R R Y G V T E M K G P N Y S L G L L E D V F E S M G Q F V D		
UniRef90_UPI0003813B7E		K A F D F V P K	P R K F S V V E I R G P Y Y S Y G Y L Q D L L E D W S E Y I D		
UniRef90_Q3AKF7			L N H V L D V G T P F P L F E S Y L N S Y S T Y I D		
UniRef90_D4AQJ4		K P R K R G	V T E I R G P Y M G K R Y L S D I F E T		
UniRef90_S0AT14			G K N M L D K L S S V D M D V I S L R E R I Y		
UniRef90_UPI000475929D		K A F D F V K K	P R R L G I V E I R G P Y Y T P G Y L K D L L D D W S E F I D		
UniRef90_UPI0002E8DE7D					
UniRef90_V7CLY7		D R L D K	P R R F G V T E I P V P N F S R S L L Q D I F E S R G D Y V D		
UniRef90_UPI00047D5A47		P Q R A E K	P R S S G I T I M T D K G L S V R E A E N F T E G N A P Y T D		
UniRef90_W4LTP9	L R A F	D R M P K	P R T Q G L T F V L D K G M S E L Y L Q D F L E D T A P Y I D		
UniRef90_X0ZE27		R T N K	P R K N G L T M V I D K N M G L R L Q D L I S T A S D Y I D		
UniRef90_S8DKY0		D R P E K	P R R Y G V T E V R Y S L L S R N S L Q D L L E S I G D F V D		
UniRef90_C5FX02			P K P R K R G V T E I R G P Y Y S L V R R E H L L S S M G D Y V D		
UniRef90_A9NRE7		E R P E K	P R H Y G L T E I R A P S Y S L T R L E G I L E A M G Q F V D		
UniRef90_F6I2G5					M G Q F V D
UniRef90_F8IH85			K P R T S G I T M V I D K G L S L A E T E S L L S M A A P I V D		
UniRef90_M8BH18		D R P E K	P R R Y G V T E M R S P C Y S F R L F Q E I L D N I G P F V D		
UniRef90_K0IK14			K K P R K E G L T C T V D K L Q G I D K E N F S T L A P F I D		
UniRef90_A9B4P5			H T G K N Y I L D K G M P L L M F G A Y I K S F A P Y I G		
UniRef90_T0MU70			G K T M V I D R L S T D L S M L K V L F P F V S		
UniRef90_Q01WZ1			L T S P F D P G Y D P A T L E S H L E Q S S H L M A		
UniRef90_F5L8M6					I L A T Q A S Y I D
UniRef90_X1VA55		R K E K	P R E F G L T V I I E T K L G L K L Q K D F L D L M A D Y I D		
UniRef90_K2B9E8	R S F N F V D K	P R T C G I T E I R G P Y Y T V R Q F E S L L Q T W G Y I D			
UniRef90_K0IIQ2			K K P R K E G R T Y V I D K L Q G L D K E N F E A L A P F V D		
UniRef90_F0IZY1			P K P R A R G I T A M I D F G T G P A A I H D L I A C A G A Y I D		
UniRef90_UPI00036CC706		P A R S S K	P R T A G L S M M I D W G M G L E R Q K D T L A S A G D Y V D		
UniRef90_T1BUH9					
UniRef90_B6J3M6		F E L P P K	P R H T G Q V E I R G P Y Y T V Q Q F E A L L E T W G Y I D		
UniRef90_D8SYU6			R A E K P R I T G R T E I R S P Y F G S R Y L E Q I L L E S S G S S I D		
UniRef90_UPI0003655D4B	K P F P Y L P K	P R E T G I N Y V R S P V L V G R T V E D Y L E A Y G D M V D			
UniRef90_G2WXT1		P R A P K	P R T S V T E I R G P Y M G T N Y L R D L L D T M G H I D		
UniRef90_K0MKS5		R S K K	P R A V G L T S V I D F G T G P A S L R D Y L R C V A D Y I D		
UniRef90_W4MDN0	R A F D R M P K	P R V Q G L T F V L D K G M S E L Y M Q D Y L E D V A P Y I D			
UniRef90_L1KBK0			R G L T A V I D F G T G I R G V E D L L A V A G G Y I D		
UniRef90_W5HP96					
UniRef90_T0YAI2					
UniRef90_J2Z8B2					
UniRef90_A3JUW7	M L E R E A K	P R D R G V N Y V R A P K V L G Q Y F T D Y L T C Y G A L T D			
UniRef90_UPI0004682C90			I K K P R Q T G L T E V I D K G I G L D S F C D L L Q L H A G Y I D		
UniRef90_C6TDJ0		D R P A K	P R H F G V T E I Q S P H C T L N L Q D I F E S M G D Y V D		
UniRef90_UPI00040A7299		E R V E K	P R I A G L T L V I D D G M T S S R M R E C L I Q I T A E W I D		
UniRef90_UPI0003821DDA					S H M V D
UniRef90_UPI0004418736			K S R E S G I T E I R G P Y Y A P T Y L D E L L G D W G E Y V D		
UniRef90_UPI0003754A5D		L K K	P R K L R Q T W L K D V G M G V L L E L E D F L D V T A N R I D		
UniRef90_W0BCP3					
UniRef90_UPI0003610A67		P K P R S K N Q I W I K D V G M G L I E L E D F L D V A G E K I D			
UniRef90_B9K3P3	P T F E L K	P R G L H Q T W L K D V G M G L I E L E D F L S V A G E R L D			
UniRef90_W512K6		D R P E K	P R R Y G V T E M R S P C Y S F R A L Q E I L D N I G P F V D		
UniRef90_T0ZCC0			I T H V L D R L T P I T S E Q I R D L A P Y L D		
UniRef90_D4D0G7		P K P R K R G	V T E I R G P Y Y S P V E L A N F R S R M G D Y V D		
UniRef90_X1QBR6			K P R E K G I T M M I D W G L G L L S Q E D I L Q I A S S Y I D		
UniRef90_R5SZK3					D V L K T A V I Y A D
UniRef90_D5HG7					D T L K V A V I Y A D
UniRef90_U2CVR2			R T A A V T E R D K G M S P A S N L E V L K T A V I F A D		
UniRef90_R5J1L1					D V L K T A V I Y A D
UniRef90_F7K6K2					E V L K T A V I F A D
UniRef90_C6LGK8	M R A R R L R K M R E M	R S M M R K P L L I P A S S L E V L K T A V V F A D			
UniRef90_S0JKM5					E V L K V A V I F A D
UniRef90_R7IX85					
UniRef90_R7CLB7					
UniRef90_UPI00041D8AE6					E V F K T A V D Y A D
UniRef90_R7PGK5					D V L K T A V V Y A D
UniRef90_D4J2Z1			T E L L V P A S S L E V L K V A V I Y A D		
UniRef90_A4XHX4					E V L K V A V I Y A D
UniRef90_UPI00047E7077					E V L K T A V I F A D
UniRef90_D4LRY6					
UniRef90_C4Z584			T E L L I P A S S L E V L K I A V I F A D		
UniRef90_R6XN27					
UniRef90_R9MLR4					E V L K T A V M F A D
UniRef90_R9J7N3					E V L K T A V I F A D
UniRef90_R5QLF5					E V L K T A V I F A D

UniRef90_V4U8U1 G L K F S G G S H S L M P K S F I E E 60 K R A H Q H D V Y V S T G G D W A E H
UniRef90_G8RJC0 I V K I G W G T S A Y I L P K D S G L K S R V V A L C H S H G V I S C L G G T L L L E L
UniRef90_L0EG29 L I K L A F G T S V V S Q N T D L L N R K I E S A R S R N R G I T V I F P G G T L L L E T
UniRef90_UPI000474FC12 L I K F G W G T S V V S Q N T D L L N R K I E S A R S R N R G I T V I F P G G T L L L E T
UniRef90_M5WGY9 G L K F S G G S H S L M P K S F I K E V I T D V A H K H D I V Y V S T G G D W A E N
UniRef90_UPI0002C30C83 G L R F A G G S H S L M P K S F I V K E V I T D E A H K H D I V Y V S T G G N G W A E N L
UniRef90_B6WW16 V V K L T S L T S A F Y P D P D V L R K G K I R L L R D A N I D V Y V S T G G G T C A E N L
UniRef90_M4FCF9 G L K F S G G S N S L M P K S F I K Q A I E M A H R H D V Y V S T G G D W A E H
UniRef90_UPI00032A6F96 G L K F A G G S H S L M P K A F I K Q V I D M A H Q H G V Y V S T G G D W A E H
UniRef90_W2RSN4 G L K F A G G S F S L M P K A S L R E M I D L A H Q H G V Y A S T G G W M E H
UniRef90_Q4VQ13 G L K F S G G C M S L M A R D L R K Q L I R Q A H H D H D V Y V S T G G G W A E H
UniRef90_T1BXA8 V A K I G W G L P L L L P R E R R V K A R L K I Y H A E G V E V S T G G G Y L L E Y
UniRef90_M5G6D7 G I K F A G G A F T L M P K E R L K A L I D T A H K H D C Y I V S T G G G Y L L E Y
UniRef90_MORTE2 G L K F S G G S F H S L M P K E R I T E L A H R H N I Y V S T G G D W S E H
UniRef90_UPI0004407B87 G V K F A G G A F S L M P P S N A I K R L L M D M I H S H D V Y V S T G G G F V E V
UniRef90_W1NQ69 G L K F S E G G S H S L M A K N A I K K I T E L A H S H D V Y V S T G G D W A E H
UniRef90_I1KLA4 G L K F S G G S H S M M P K A T I K Q A I D M A H Q H D V Y V S T G G D W A E H
UniRef90_C4JH8 I G P G S F S L F E R D K L R E M I D L A H H E N S H D V Y V S T G G W L L T H
UniRef90_A9RX02 G L K F S G G C H S L M S R E N D L V R O A H H H D V Y V S T G G D W A E H
UniRef90_J3MGY4 G L K F T G G S H S L M S G K E L V R E I T D L A H K H D I Y V S T G G D W A E H
UniRef90_M1BYS1 G L K L C D G S H T V M P K N Y I R K E V T D M A H K H N D V Y V S T G G D W A D Q
UniRef90_UPI0003813B7E G F K F A G G S Q R L L D V E K V R K L K L C H H D H D V Y V S T G G F I E R V
UniRef90_Q3AKF7 F L K F G W G S A L V D P D F S R K S N L C K Q L N V R P V L G G T F F E Y
UniRef90_D4AQJ4 V M K I G W T T S M L L D E K T L L K E L I D I A H E N G A Y V S T S
UniRef90_S0AT14 G Y K F A G G S M R L L P K E K V K K I Q L C H D Y N V Y V S T G G G T L E R V
UniRef90_UPI000475929D G Y K F A G G S M R L L P K E K V K K I Q L C H D Y N V Y V S T G G G T L E R V
UniRef90_UPI0002E8DE7D G L K L P G G S Y S L M P K T I I K Q V I D L A H K H G V Y V S T G G D W F E H
UniRef90_V7CLY7 F V K M A F G T S R L L T P A E S L E S K L N I Y R G A G I V P Y F G G T L F E V
UniRef90_UPI00047D5A47 L V K L G W G T S R L F D A E R L R A K L R L L K A H D I R V S P G G T L M E L
UniRef90_W4LTP9 L V K L T F G T S A F Y M E D L L K E K N S I L K A A D I D I M P G G G T F F E L
UniRef90_X0ZE27 G L K L T G G S S S S M S K T Y I K E V I D I A H N Y G V Y V S T G G D W A K H
UniRef90_S8DKY0 G L K F S G G S F S L F H E A K L K E I T D L A H N N G A Y V S T G G W L L T H
UniRef90_C5FX02 S L K F A G G T C S L M P K T F I K E I T E M A H R H K V N V G T G G D W A E L
UniRef90_A9NE7 G L K F A G G S H S L M P K N F I K E V T D M A H K H D V Y V S T G G D W A E H
UniRef90_F6I2G5 V L K L G F G T S A V Y P E H I R S K L Q R A A E Q G V M A C P G G T L G E V
UniRef90_F8IH85 G L K F S G G S H S L M G K E L I R E I T N L A H K H D M Y V S T G G D W A E H
UniRef90_M8BH18 V V K I Y G A L P M L T S E E S L K K I K F Y H D F G V R V S T G S T I T E F
UniRef90_K0IK14 M I K I G W T W A L F D Q H S L D A K I A L A K H Y H I P L C L G G T L F E L
UniRef90_A9B4P5 Y I K I G W T L A F L T D T H S L I H R I S Q I K S Y G I G V S N G G T F L E T
UniRef90_T0MU70 I L K L S M A C W M V A K E D S T R R K V A A I I R H R V P T V I T G G G P F E L
UniRef90_Q01WZ1 Y V K F G W G T S L V S D Q C L E E K I G C L K L N N A F F F P G G T L F E Q
UniRef90_F5L8M6 L A K I A T G V A A L T E D Q T L R E K K I D L Y H K N N I L A F P G G Q F L E Y
UniRef90_X1VA55 G L K F A G G V Q A L L E P K I V K A F T D L A H Q Y H L Y V N T G G F I E V
UniRef90_K2B9E8 A V K I Y G V L P L I L P E P T V L Q R K I K F Y Q D L G V K V S T G G T I S E Y
UniRef90_K0IQ2 Y A K I Y A L N S L M P E T T V K M V A T Y A D A G V M T Y S G G I L F E Y
UniRef90_F0IZY1 I A K I A A G I A R L M P A S L L R E K L R H Y E A H G I H T A P S G L F A E L
UniRef90_UPI00036CC706 G L K F A G G I Q A L L D A K T V K A F T D L S H K Y N V Y V N T G G F I E R T
UniRef90_T1BUH9 G L Q F S N L M S R S L L R D M I E L A H R H G I Y V S S G G W G E D V
UniRef90_B6J3M6 I F K L S G K G A A Q I N E K S L D F J S T C K K F N V M V S I G N P V M D V
UniRef90_D8SYU6 G L K F A G G S F S L P E E K L R E L I N L A H K H D V Y V S T G G W I E H
UniRef90_UPI0003655D4B Y A K I Y A M N A L I L P E E I V R E T V R I Y R D A D I K P Y A G G L F E Y
UniRef90_G2WXT1 L V K L G W G T S R L F R T E R L R T K I E L L R N Y D I R V S P G G T L M E L
UniRef90_K0MKS5 F A K I Y A M N A L L V P G K P L S R I V A A Y T E A N V A T F S G G I L F E W
UniRef90_W4MDN0 F A K I Y A M N A L L V P G K P L S R I V A A Y T E A N V A T F S G G I L F E W
UniRef90_L1KKBK0 M G K E L I R E L T D L A H K H D M Y V S T G G D W A E H
UniRef90_W5HP96
UniRef90_T0YA12
UniRef90_J2Z8B2
UniRef90_A3JUW7 I I K I G T N Q L T F V P E A E I K K V I A Q S H D H D V R I A I G N P I M D Q
UniRef90_UPI0004682C90 Y I K L S S I L A S A L Y P P S L L K K K S E A A I L C Q T E L Y S T D S Q L L E V
UniRef90_C6TDJ0 G L K F S G G S H S M M P K A T I K Q I D M A H Q H D V Y V S T G G D W A E H
UniRef90_UPI00040A7299 F W M L S G C H A A M H A P G W L M D K V C L C Q E Y G V L P C P S G Q A F A A
UniRef90_UPI0003821DDA I F K L S G K G A A Q M N E K S L D F J S I C K K F N V M V S I G N P V I M D V
UniRef90_UPI0004418736 G V K F A G G A F S L M P E D R L K A L I D V A H K H D T Y V S T G G Y I E R V
UniRef90_UPI0003754A5D Y V K F T T P Q V L Y S P K E W L D K K L K L Y K K Y N I S P Y L D H T Y F K F
UniRef90_W0BCP3
UniRef90_UPI0003610A67 Y V K I T T P Q I L G H P E A W L K R K I A L Y K R Y S I Q P Y L D H G F F L R
UniRef90_B9K3P3 Y V K V A T R Q V I E H P E A W V R R K V E L Y Q R F G V E P Y L D H S Y F H Y
UniRef90_W512K6 G L K F S G G S H S L M G K E L I R E I T N L A H K H D M Y V S T G G D W A E H
UniRef90_T0ZCC0 V A K I G W G L P L L L P R E R V R A R L K I Y H A E G V E V S T G G T L L E Y
UniRef90_D4D0G7 G L K F S G V K Q H L I N W I K Q G G W L L T H
UniRef90_X1QBR6 L A K V I A V G I S R M V T K D F L T R E K N A L Y R R F N V N P F P G G M L L E L
UniRef90_R5SZK3 A V Y I G G E A F G L F S T N E E L R E G V A F A H H H G V K V Y V T A N I L A H
UniRef90_D5HGv7 A V Y I G G Q A F G L F S I E E M K Q G V E Y A H H A H G V K V Y V T A N I L A H
UniRef90_U2CVR2 A V Y I G G E A F G L F S K E D M K E G I R F A H H A H G V K V Y V T A N I L A H
UniRef90_R5J1L1 A V Y I G G E A F G L F S I E D M K E G I A F A H H A H D V K V Y V T A N I L A H
UniRef90_F7K6K2 A V Y I G G E A F G L F S K E D M A E G I R F A H H H G K V Y V T A N I L A H
UniRef90_C6LGK8 A V Y I G G E A F G L F S M D E M R A G I A F A H H H G V R V Y V T A N I L A H
UniRef90_S0JKM5 A V Y I G G E A F G L F S M E D M R A G I Q F A H H H G V K V Y V T A N I L A H
UniRef90_R7X85 A V Y I G G E A F G L F P E D M R Q G V L F A H H H G V K V Y V T A N I L A H
UniRef90_R7CLB7 A V Y I G G E A F G L F S H E D M K E G I A F A H H H G V K V Y V T A N I L A H
UniRef90_UPI00041D8AE6 A V Y I G G E A F G L F S K E D M A K A I E Y A H H A H S V K V H V T A N I L A H
UniRef90_R7PGK5 A V Y I G G E A F G L F S N E E M K Q G I A F A H H A H G V K V Y V T A N I L A H
UniRef90_D4J2Z1 A V Y I G G E V Y G L F S K E D M I E G I K F A H H H G V K V Y V T A N I L A H
UniRef90_A4XHX4 S V Y I G G K E F G L F D F D E M K E G I E F A H H H G K V Y V T A N I L A R
UniRef90_UPI00047E7077 A V Y I G G D A F G L F S P E E M K E G I S F A H H H G V K V H V T V N I L A H
UniRef90_D4LRY6 A V Y I G G E A F G L F S K E D M A E G I A F A H H H G V K V Y V T A N I L A H
UniRef90_C4Z584 A V Y I G G E A F G L F S I E D M K E G V K F A H H H R N V K V Y V T A N I L A H
UniRef90_R6XN27 A V Y F A G K K F G L F D E N E I K E A V E F C H E H N V K V Y I T V N I L A H
UniRef90_R9MLR4 A I Y I G G E A F G L F S M E D M R E G I A F A H H H G A R V H V T V N I L A H
UniRef90_R9J7N3 A V Y I G G G A F G L F S K E E M E G I S F A H H H G A K V H V T V N I L A H
UniRef90_R5QLF5 A V Y I G G E T F S L F S H E D M K E G I A F A H H A H G V R V H V T A N I L A H

UniRef90_V4U8U1 L T R N G A F K E Y V E D C K Q V G F D T I E I L N V G S L E I L P E E T L L R Y V
UniRef90_G8RJC0 C E A Q G R I E E L R L W A N T I G I D D A V I V I S S N G M Q R E L M S S P A R K S S L V
UniRef90_L0EG29 A V R H Q D A A S A F F D A Y V C A Y N C Q Y I E E I V S S N G T I E L G T G R N R E R T A L I
UniRef90_UPI000474FC12 A V R K Q K K I D F L Y E Y F Y K Y A Y N C Q Y I E E I V S S N G T I E L G T G R N R E R T A L I
UniRef90_M5WGY9 L L R K G A F K E Y V E E E C K S L G F D T I E I L N V G S L E I L P E E T L L R Y V
UniRef90_UPI0002C30C83 L R G P S A F K E Y V E E E C K S L G F D T I E I L N V G S L E I L P E E T L L R Y V
UniRef90_B6WW16 M L W Q K V Y P A F L A K A C K Q W G F D T I G V I E L N N S D G T I E M P P E D A M R R E A I
UniRef90_M4FCF9 V L R S K G A F K E Y V E E E C K Q L G F D T I E I L N N A N S L E A V P P E E D T L L R Y V
UniRef90_UPI00032A6F96 M I R T K Q D A V D R Y I E E E C K Q L G F D T I E I L N V T G F L S A V I P P E E D F I R F V
UniRef90_W2RSN4 I L R K G P F K Q Y V Q D C K E L G F D S I E I L N S A S F I E L N S E D N L L R L I
UniRef90_Q4VQ13 A Y V Q N R V P A F L D E A R S D L G F D L V I E I L S S S G F L S E L P T E D T Q L A R L A
UniRef90_T1BXA8 A G D K D T V E K Y I D K K A R D V L G F D V L V I E I L S S S G F L S E L P T E D T Q L A R L A
UniRef90_M5G6D7 L L R K G P F K Q Y V E D C K E N L G F D T I E I L N N A G S L K L P T E E A L L R F V
UniRef90_MORTE2 I A S S G I T G E Y L E T C C K E M G F D T V L E I L N N A G S L R I P T S E E H L W R F I
UniRef90_UPI0004407B87 L L R K G A F K E Y V H E C K E N L G F D T V I E I L N N A G S L R I P T S E E H L W R F I
UniRef90_W1NQ69 M V S K S P F K E Y V E E E Y K Q L G F D T I E I L N V S S L E I P P E E T F L R F I
UniRef90_I1KLA4 P D N A S V L E K Y F A K C C K D L G F D V I E I L N S A G F L S F P E E D D W L R L V
UniRef90_C4JH8 V L R T G P F K Q Y V K D C K E N L G F D T V I E I L N A D F I G L P N E D D L L R L V
UniRef90_A9RX02 L L R Q G P F K Q Y V E E E C K A L G F D N I E I L N A G S L K L P E E E A L L R L V
UniRef90_J3MGY4 M L R R G P L K E Y I E E E C K L G F D S I E I L D V A S L G L P S E E T L L R Y V
UniRef90_M1BYS1 A I G R K D A V K R Y I E E E C K H L G F D V I E I L S S S G F I E I L P E E S K E D M I E L V
UniRef90_UPI0003813B7E M L Y R H S F D E F L R R T I E S F G L D C V V I E I L S S R G T I D L D D S T Y C S Y I
UniRef90_Q3AKF7 T Q H K L S L C R Q Y F D V V I E I L S S A G F L S I P E E D D W L R L I
UniRef90_D4AQJ4 A Y A K G H L E R T L S S L L Q Y G F S H L V I E I L S S E G V I D L P D S S Q K K I V
UniRef90_S0AT14 L L Q G D K V N D Y L E E C K E L G F D V I E I V S S S G F I P I T L E Y K L D I V
UniRef90_UPI000475929D A Y F Q N K I A E Y F E A C K Q L G F N G I V I E I L S S D G V D A I D I L E M K V N F I
UniRef90_UPI0002E8DE7D V I P K T P F K E Y V E E C K Q L G F D T I E I L N A G S L G L P E E T F L K F V
UniRef90_V7CLY7 F A H R E A M D D Y N R Y L D R Y G I E Y L E I V S S D S A I K L S R E E T K L N H I
UniRef90_UPI00047D5A47 A V V Q D C V P A F L Q E V A A L G F T C V I E I V S S D G T I E M P H D A K L R L I
UniRef90_W4LTP9 A V W Q G V F D K Y L V D S K K L G F T A I E I V S S D G T I Q M N L S T R K N T I
UniRef90_X0ZE27 L H R G G H F K Q H I E E C K E L G F D A I E I D V G S Q G L P E E I L L R Y V
UniRef90_S8DKY0 P D N T S V L D R Y F K K C C K D L G F D V V I E I L S A G F L S I P E E D D W L R L V
UniRef90_C5FX02 L L Q K G P F K Q Y V E E C K E L G F D V I E I D L N A D S L E V I P E E T L L R L I
UniRef90_A9NRE7 L R G K G A F K E Y I E E E C K H L G F D T I E I L N V G S L E I L P E E T L L R F V
UniRef90_F6I2G5 A W T Q G V F A E Y L L R C R E L G F Q A M E I L N S D G T I D L P P E G H R A K A I
UniRef90_F8IH85 L L R Q G P F K Q Y V E K C K E L G F D T I E I L N A G S L K L P E E A L L R L V
UniRef90_M8BH18 A I S E S S L E R F V K E A A K V G F D I I E I V G E N S F D L E Y I D Q K R K I S
UniRef90_K0IK14 C A T E G Y F Q Q L D Y I V E K E L N I E I L A S E G V C N I P K K E R K I A A
UniRef90_A9B4P5 C F V R G T F E K G L N L K N S G F N Y I E I L S E G V C N I P K K E R K I A A
UniRef90_T0MU70 A V A Q D C L P A Y L D L C A D I G F T R I E I C G E G F T D M S L G A R E V I
UniRef90_Q01WZ1 F L L K K K V R D E Y F H F C L H G C Q H V I E V S S N G T I P L S N R D K A S F I
UniRef90_F5L8M5 V I A K N K V R E Y F S D V I K A G F K L V I E V S S D N L I D I S P D K K C S F I
UniRef90_X1VA55 I I Q D K K I D A Y L K E T K E L G F D V V I E V S S S G M F D F S L N E Q I D V V
UniRef90_K2B9E8 M V A E N A E D K F V A A A A T I G F D I I E I G E N S Y V T L T D F E Q K K I T I
UniRef90_K0IQ2 A W R G A L D E M L S A L E R I G I P M L E I E I S E N Y V T D D D E R L R L I
UniRef90_F0IZY1 A L K P G R Y E R F L S E Q A V E A G F S G I E I V S S D N L L D L S P P D K A A A I
UniRef90_UPI00036CC706 Q D R L E P F L E R C C E L G F D T V I E I V S S D G T V P I S G A K E R R H A I
UniRef90_T1BUH9 V I Q N N N V D R Y I E E T K A L G F D V V I E V S S S G M F D F S L D F Q I D V V
UniRef90_B6J3M6 L G G R K S F K Q Y V Q D C K D L G F D M I E I F D V L C D K I A K D D F L I D L T
UniRef90_D8SYU6 A L L R K A V D D Y I N K C V D L G V D I E I E L S T G F I S L I P D S D D V C T L I
UniRef90_UPI0003655D4B L L T Q G S V E R Y I E V I K R L G F D V V I E L S T G F I S L I P D S D D V C T L I
UniRef90_G2WXT1 A Y L K N E L D G Y I R H L K K L G M P R I E I V S S E N Y L D F G D D E R M R H I
UniRef90_K0MKS5 A V V Q N C V P G F L R E V A A L G F T C V I E I V S S D G T I E M S H P T D K L H L I
UniRef90_W4MDN0 A H R Q G E V E A L A P L L A G L G I R G L E I S E N Y I R L D P A D R D R W I
UniRef90_L1KBK0 L L R Q G P F K Q Y V E E C K E L G F D T I E I L N A G S L K L P E E A L L R L V
UniRef90_W5HP96 A V A K G R Q D L E L E R I A R A G F D T L E I S S E G V I D L P R R V Q R E I T
UniRef90_T0YA12 H D K J Q D D Y I T E A G D L G F D T V I E I S S G F L A I D A D A D M V A L T
UniRef90_J2Z8B2 A L G T Q A A K E V I D Y A A S L R V D V M E I S L I A R S I I D D E D L A R L L
UniRef90_A3JUW7 A I A H Q L R R F F D S L H Q L E I F T V I E I P E V S D H I P E E K A R I E L I
UniRef90_UPI0004682C90 M I S K S P F K E Y V E E C K Q L G F D T I E I L N V G S L E I L P E E T F L R F V
UniRef90_C6TDJ0 A L R A D A L S A Y I T A L A E S G L R S V L M A D A E G R I S P R V R R D V I
UniRef90_UPI00040A7299 A L G K K V V D E Y T E K S K D M G I D I L E I S S I A R S I I D D D D M C R L I
UniRef90_UPI0003821DDA A G N N V V E K Y V K T C R D M G F D V V I E L S S G F L S I P T K D W A E L I
UniRef90_UPI0004418736 A Y K N N C V E Y A L K H G K S L G F E S L E F M N T G D E I S E K Q W I D W R
UniRef90_UPI0003754A5D M D N H E K A M F I
UniRef90_W0BCP3 A Y R K S V V D E A I E A A A N I G F S V M E F M N T F D D V P M D N H E K A M F I
UniRef90_UPI0003610A67 A Y Q Q G S V E K A I E A A G R T R G F K A T I E F M N T F G D V P E A T W K S W R
UniRef90_B9K3P3 L L R Q G P F K Q Y V E E C K E L G F D T I E I L N A G S L K L P E E A A L R L V
UniRef90_W512K6 A Y V Q N R V P A F L D E A R S L G F D L I E I L S S G L E L S S T Q I A R L A
UniRef90_T0ZCC0 P D N T T V L D R Y F D V V I E I L S S A G F L S I P E E D D W L R L I
UniRef90_D4D0G7 V I T H Y Q K K R R Y Y E E S R R E I G Y T V M E V I S S D N V I H I T P Q E K K T I
UniRef90_X1QBR6 N D D L P G V E A Y F E E L K E L G P D A L I I S S D G V F A I A R R V L P E M E
UniRef90_R5SZK3 N Y D L D G A R A Y F G E E L K E D T G V D A L I V S S D G V F T I A R E T M P D M E
UniRef90_D5HGv7 N R D L E G A R A Y F G E E L K R E V I G P D A L I I S S D G M F S I A R Q V W P E A E
UniRef90_U2CVR2 N Q D L P G V E A Y F E E L K E V G P D A L I I S S D G M F F E I A K R V L P D T E
UniRef90_R5J1L1 N R D L D G A R A Y F R E L K E I R P D A L I I S S D G M F T L A R Q E W P E V E
UniRef90_F7K6K2 N Y D L A G V E A Y F R E L K D I R P D A L I I A D G V F R I A R R L C P E M E
UniRef90_C6LGK8 N Y D L E G I R E A Y F A E L K R L S P D A L I I S S D G V F T I A R E L L P E M E
UniRef90_S0JKM5 N A D L D G V R T Y F K E L K Q M N I D A V I I S S D A V F T I A K E E L P E T D
UniRef90_R7X85 N Y D L P G V R E Y L T E L K E L K P D A L I I A D P G I Y M Y A K E I C P E I E
UniRef90_R7CLB7 N Y D L D G A R E Y F H E L K E L G P D A L I I A D G M F M M A R E I C P E I D
UniRef90_UPI00041D8AE6 N G D L P G V E A Y F E E M R D V A P D A L I I S S D G V F A I A R R V L P H M E
UniRef90_R7PGK5 N E D I A G V R E Y F E E L K E I G P D A L I I A D P A V F M L A K E L C N I E
UniRef90_D4JZ21 N E D I A G V R E Y F E E L K E I G P D A L I I A D P A V F M L A K E L C N I E
UniRef90_A4XHX4 N E D I A G V R E Y F E E L K E I G P D A L I I A D P A V F M L A K E L C N I E
UniRef90_UPI00047E7077 N Y D L D G V D A Y L H E L K E L K P D A L I I A D P G I F M K A R K I C G I D
UniRef90_D4LRY6 N D D L P G V R E Y L Q E E L K E L K P D A L I I A D P G I E I C P E I E C H I S
UniRef90_C4Z584 N Y D L E G A R A Y F E E L K E V G P D A L I I S S D G M F T I A K E V L P D I S
UniRef90_R6XN27 N A D F T G M V D Y L K Y L D S V H V D G V I V S S D L G I F M L A H L V
UniRef90_R9MLR4 N D D L A G V E E Y L K E L K P D A L I I A D P A V F M L A K Q L C P E I E
UniRef90_R9J7N3 N G D L A G V E E Y L K E L K P D A L I I A D G I F T M A R E L C P E I D
UniRef90_R5QLF5 N Y D M E P A R N Y F Q E L A E L A K P D A I I V A D G M I M L A K E N C P D I E

UniRef90_V4U8U1 R L V K S A G L K A K P K F A V M F N K S D I P S D R D R A I R R A E R C L E A
UniRef90_G8RJC0 A Q F A E E F T V L A E F T G A K D G R V P V V P N Q W I S E M L A D L D A
UniRef90_L0EG29 R E G R A R G L T V L A E F V G K K E A G S A I N S Y A L A D A A E A D W D A
UniRef90_UPI000474FC12 S D F S K E F K V L S E F V G Y K D Y E Q T S L T L S S E Q W I D E Y I Q E D L E A
UniRef90_M5WGY9 R L I K S G G L K A K S E F A V Q I N K S D I P I D V D L L I R R A E R C L E A
UniRef90_UPI0002C30C83 D R A L E S G G F R V F S E V G R K V N E W S P Q T G L D L L I S D L A E R C L E A
UniRef90_B6WW16 R M I K N S G G L R A K P I F A V K F N K S D I P E D I D L L I R R A E R C L E A
UniRef90_M4FCF9 R L V K T S A G M K A K P H F E V M F N G E S D I P E D V D L L I R R A E R C L E A
UniRef90_UPI00032A6F96 D K V Q S A G L K A K P E L G I Q F F G S S G K V D L D W V I R R A E R Y L E A
UniRef90_W2RSN4 R L V K N S G M R P K P E L G L S F F G S S G K V D L D W V I R R A E R Y L E A
UniRef90_Q4VQ13 D A V R A Q G L P Y F E V G K K D P Q H Q L S L K E T I H Q I E H A R S L
UniRef90_T1BXA8 R L V K R A Y G L K P K P E V G I Q W G A D G D A S D P K W L I D R A K M F L E A
UniRef90_M5G6D7 H L I K G G G L K A K P Q F S V K F P S S E I E D V D L L I R R A E R C L E A
UniRef90_MORTE2 K L T K S G L K A K P E I G I F F G A G S D T E G L E K G T R D D P R W V I E V
UniRef90_UPI0004407B87 R L I K K A G L K A K P E N F G V R F F G A S D I P V D V D L L I R R A E R C L E A
UniRef90_W1NQ69 R L I K S G G L K A K P H F Q V I K F F G A G G T S D P G K L I N L G R K Y L D Q A
UniRef90_I1KLA4 D K V H S Y G L K A K P E L G I H F H G G E N A E N P N W V I K R A E R C L E A
UniRef90_C4JH8 R M V K K S G M R A K P E L G L H F H G G E N A E N P N W V I K R A E R C L E A
UniRef90_A9RX02 R L I K T S G L R A K P I F S L K F D S S D I P P S V D L L I R R A E R C L E A
UniRef90_J3MGY4 R L I K S S G L R A K P I F S V K F N K S D I A F D V D L L V R R A E R C L E A
UniRef90_M1BYS1 K D I K N A G L K A K P E I F S L K G A G G G T E I D I N E T I E L C E E F L K N
UniRef90_UPI0003813B7E K K L S S N F F V M S E V G R K S S D P E F E L T P Q Q W I D H C E I S A Q S
UniRef90_Q3AKF7 E K V Q S Y G L K P K P E L G I Q F G A G G G T E D P G K L I N L G K K F L D A
UniRef90_D4AQJ4 D F A K S N N I P F T M E V G K K G S E K N Q L S L D E T I E G V N R D L E Y
UniRef90_S0AT14 K R V Q N A G L K A K P E V S F M I G A G G G T R N S L V E D F L N E C R V F L L E A
UniRef90_UPI000475929D K K A K Q A L E F T V I A E I G R K D P A M D A E Y N I V D Q R I P E A S R Q L L A A
UniRef90_UPI0002E8DE7D R L V K S A G L K A R P H F Q V K F N A S D I P E D V D L L I R R A E R C L E A
UniRef90_V7CLY7 N Q F S A N F Q V I S Q V T N M V I E G G H L S F D K W I Q F A E D E L Q A
UniRef90_UPI00047D5A47 R M A R Q A G L D V V S E V G K K S P V I E D Q N L L M D T R V A Q A A A E L E A
UniRef90_W4LTP9 I K A Q E A G F K V F T E V G K K D P K E A L P I S E V H K I Q E D I I N
UniRef90_X0ZE27 R L I K N A G L R A N P R F S T K F N S A D I P E D V D L M I R R A E R C I K L
UniRef90_S8DKY0 E R V Q S Y G L K P K P E L G I Q F F G A G G T S D P G K L I N L G K K F L D A
UniRef90_C5FX02 R I I K N E R L K A K P E L G I N F E G S E M I E D V E L L I R R A E R C L E A
UniRef90_A9NRE7 R L I K S D G M K A K P Q F T L K I N R S D I P I D V D L L I R R A E R C L E A
UniRef90_F6I2G5 A A A K R V I P L V I T E V G K K L S H D V D L V R C A E G A L R D L E A
UniRef90_F8IH85 R L I K N T G L R A K P L F S V K F D S S D I P E D I D L L I R R A E R C L E A
UniRef90_M8BH18 D L I Q S A G L E F Q W K V G K K D P E R D H Q L G V D D T L E K I K E A V K M
UniRef90_K0IK14 K Q A T D R D L R V L V I E I G Y K K N Q E M D D S L S V P E R I G H I D S A F R A
UniRef90_A9B4P5 E F A K S N D L I L M E V G K K R I A E Q L L T L N E T I D K I S E A Q F E F
UniRef90_T0MU70 G M A E R R G L E V Q F E L G K K H G G A F S S D T T E Q L I S Q G R R W L D A
UniRef90_Q01WZ1 G D F A H E F T V E S E V G Y K D Q K R S R E L H P S R W I E Y I E E D L Q A
UniRef90_F5L8M6 K M A Q E Y G L K V L G E T V G S K K V S D I K L I K D I K N L I K D I K N C
UniRef90_X1VA55 K R I K T L G M K P K P E I G I Q E F G Y E N K I S L E R L I E E A E Q F F S A
UniRef90_K2B9E8 D A I L A K N L E F Q W K V G K K D P E R H Q L S I D T V T A K V E A A V K L
UniRef90_K0IQ2 E R F Q S R G F E V I Y E F G R K N P E A A F T V Q E L G R L V A D V T D A
UniRef90_F0IZY1 R R A R A M G L S V Y G E A G R K E G T M D D A A L L R D V A N C L D A
UniRef90_UPI00036CC706 Q F A R T L G L N V L T E V G R K D P T D R L L S G S E I H R L V E D L E A
UniRef90_T1BUH9 K R I Q K I G L K P K P E I G V K E I G Y Q E L T V D Q F I E E G V E F F E A
UniRef90_B6J3M6 R M I K N E G L K A K P G L F L F E E G K F A L P D A K T I I E T A E N F I G A
UniRef90_D8SYU6 E K V S K K S I K V L N E I G V A F A H S E E S I F V Q R L I N Q S K K F L N A
UniRef90_UPI0003655D4B D K V H A A G L I A K P E I G V I Q F A G S G D T E S S D L V S L G O S D
UniRef90_G2WXT1 E T M Q K H G F E V I Y E F G R K N P T E P F S L A Q L E R V I R S N V A M
UniRef90_K0MKS5 R A A R Q A G L D V V S E V G K K S P V I E D R N L Q M D A R I D S V
UniRef90_W4MDN0 G W F R D R D F V S E V G R K T P D E P L D L D R L G T I V G A V R A A
UniRef90_L1KBK0 R L I K N N G L R A K P L F S V K F D S S D I P E D I D L L I R R A E R C L E A
UniRef90_W5HP96 E F S R S H G L R L K P E V I G R K S S H N Q L S L E E T V E R S V A K E W
UniRef90_T0YA12 E R V D E H G L R L K P P E I G V Q F G A G G E A I D P S A I N E A K R H L D A
UniRef90_J2Z8B2 D Y V N G K G M K P I V I C G L S F A H E D G R T F A K R K K A Q A K H A L D N
UniRef90_A3JUW7 H E A K K E G F N T I T L C Q T E A N S L S T G A I E A L I H K R F E L D K A A
UniRef90_UPI0004682C90 R L V K S G G L K A K P H F Q V K F N E S D I P E D V D L L I R R A E R C L E A
UniRef90_C6TDJ0 R R A H G Q G L L V F A E L S H H N G H L T H P D E V I R Q V H S D L Q A
UniRef90_UPI00040A7299 E N I S K K G V K V L N E I G T A F A H S D K S I F I E R L K N Q S K K F L N A
UniRef90_UPI0003821DDA A L V T K Y P I G M K A K P E V G I Q
UniRef90_UPI0004418736 K L T K S I S I N F M Y E H H W K P G S S D L P S S S D E I L K T A Y P F L N D
UniRef90_UPI0003754A5D A D F A S E F E V I S E V G Y K D Q Q R S Q E L H P A K W I E F I N E D L N A
UniRef90_W0BCP3 Q R A I D C G M S L I P E S G W R K V E K A K A S N A G Q I S S A E P F L E H
UniRef90_UPI0003610A67 R V A V I E N E M K F L F E F H W R D T A K D V A S T G E E I I R N A A P F I D D
UniRef90_B9K3P3 R L I K N T G L P Y F S Q V
UniRef90_W512K6 D A V R A Q G L P Y F E V G K K D P Q H Q L S L K E T I H Q I E H A R S L
UniRef90_T0ZCC0 E K V Q S Y G L K P K P E L G I Q F G A G G G T E D P G K L I N L G K K F L D A
UniRef90_D4D0G7 S L A V I E E F
UniRef90_X1QBR6 I H I S T Q A Y R F W Y E L G A K R V V T A R E L S L K E I K E Q I P E D M E
UniRef90_R5SZK3 I H I S T Q A Y K F W Y D H G K R V V S A R E L S L A E E I S Q I R A N I
UniRef90_D5HGv7 I H I S T Q A Y R F W N E Q G A K R V V S A R E L S L A E E I R E I R S H I
UniRef90_U2CVR2 L H I V S T Q A Y L F W N R M G A K R V V S A R E L S L A E E I R E I R S H I
UniRef90_R5J1L1 I H I S T Q A Y R F W W E Q G A K R V V S A R E L S L A E E I R E I R S H I
UniRef90_F7K6K2 I H I S T Q A Y R F W W E Q G A K R V V S A R E L S L A E E I R E I R S H I
UniRef90_C6LGK8 V H I S T Q A Y R F W W H L G A K R V V S A R E L S L A E E I R E I R S H I
UniRef90_S0JKM5 L H I S T Q A F R F W Y H K L G A K R V V S A R E L S L A E E I R E I R S H I
UniRef90_R7IX85 I H I S T Q A F R F W Y G L G A K R V V T A R E L S L A E E I K E I R S E I
UniRef90_R7CLB7 R H I S T Q A Y R F W Y N L G A K R V V T A R E L S L A E E I R E I R S H I
UniRef90_UPI00041D8AE6 I H I V S T Q A Y K F W Y K L G A K R V V A R E L S L A E E I R T I R E N I
UniRef90_R7PGK5 I H I S N Y G T Y L F W H L G A R V V S A R E L S L A E E I R E I R D H I
UniRef90_D4JZ21 R H V S T Q A Y K F W Y D L G A T R V V S A R E L S L A E E I K E I R A N I
UniRef90_A4XHX4 I H I S T Q S A R F W Y E L G A K R I V L A R E L S L A E E I K E I R Q N I
UniRef90_UPI00047E7077 I H I V S T Q A Y N F W Y D L G A K R V V A A R E L S I K E I K E K I P E D L E M
UniRef90_D4LRY6 T Q A N N E T Y R F W Y R Q G A K R V V T A R E L S L A E E I R E I R A N I
UniRef90_C4Z584 I H I S T Q A Y N F W W N Q G A K R V V A R E L S L A E E I K E I R E H I
UniRef90_R6XN27 K E Y T N L E L H V S T Q A N I T N K E S A K I W V K L
UniRef90_R9MLR4 R H V S T Q A Y R F W W E L G A K R V V S A R E L S L A E E I K E I R E H L
UniRef90_R9J7N3 I H I S T Q A F R F W Q R L G A K R V V S A R E L S L A E E I K E I R E
UniRef90_R5QLF5 I H L S T Q A Y R F W Y G Q G V K R V V S A R E L S L A E E I K E I R E Q I

UniRef90_V4U8U1 G A D M I M I D S D D V C K H A D 170 S L R A D I I A K V I I G R L G L E 190 200
 UniRef90_G8RJC0 G A A Y V T I A E G R E S G T V G V G L Y H A D G S V R T D L L D S I A E L L D T D G
 UniRef90_L0EG29 G A S L V T I E A R E S G T V G V G F D G D G R P D P A V F S Q I V I K L I P T D
 UniRef90_UPI000474FC12 G S V K V T L E S R E S G R S G I C L A N G E I R Y E L T S K I I I N G I N T K
 UniRef90_M5WGY9 G A D M I M I D A D D V C K Q A D S M R A D I I A K V I I G R L G V E
 UniRef90_UPI0002C30C83 G A D M I M I E A D D V C K Q A D S M R A D I I A K V I I G R L G V E
 UniRef90_B6WW16 G V D K V I V E A M E I G Q S V G V C L M D A E G N P S E E G L R A L T E A A G P E
 UniRef90_M4FCF9 G A D T I M I D A D D V C K Y A D S V R A D I I A K V I I G R L G V E
 UniRef90_UPI00032A6F96 G A D M I M I G A D D V S K H A D K M R A D V I A K I I G R L G L E
 UniRef90_W2RSN4 G V E R I M I E S E G I T E N V K S W R T D V I Q A I M R D V P S E
 UniRef90_Q4VQ13 G A D M I M V N S D S E G L T E N S T N N C H T D L V A K I I T E R L G L E
 UniRef90_T1BXA8 R P R K V I V E S R E S G R G V G I Y D S D G A V K W D W V R S I L A D H P R E
 UniRef90_M5G6D7 G A S M I M I E S E G I T E N V K N W R T Y V I S A I T S A L P N D
 UniRef90_MORTE2 G A D M I M I D A D D V C K Y A D S L R S D I I A K I I G R L G L E
 UniRef90_UPI0004407B87 Y H Q Y I I E S E G I T E N V K E W R T D V V S S L T S A L P V D E
 UniRef90_W1NQ69 G A D M I M I D A D V S K Y A D S L R A D I I A K I I G R L G L E
 UniRef90_I1KLA4 G A D M I M I D A D D V S K H A D N M R A D I I A K I I G R L G L E
 UniRef90_C4JH8 G V E R L M I E S E G L T E N V K S W R T D V A S A I I M K E L P P E
 UniRef90_A9RX02 G A D M I M I E A S D G L T E N N I S N W R S D I V S K I I E Q L G L E
 UniRef90_J3MGY4 G A D M I M I D A D D V C Q R A D S L R A D I I A K I I G R L G L E
 UniRef90_M1BYS1 G A D M I M I N A D D L C R Q A G L L R S D I I A K I I G R L G L E
 UniRef90_UPI0003813B7E G A Y M L M I E S E G I T E G L P E K W R V D I I K A V V N K F G Y E
 UniRef90_Q3AKF7 G A S L I T L E S R E S G R S G Y V S D G G Q V D S V L L E S I T A R L P I G
 UniRef90_D4AQJ4 G V E R L M I E S E G I T E N V T N W R T D V V S Q I I M K Q L P Q E
 UniRef90_S0AT14 E P D V V I V E G R E T G K G V G V F D I E G L I K W D W V R L A E N F P I E
 UniRef90_UPI000475929D G V H M I M I E S E G I T E D L E K W R L D I I R K L I D S F G Y E
 UniRef90_UPI0002E8DE7D G A W K I V L E A R E S G T L G I Y D N K K S V K E T T V D T W L K E L D A G E
 UniRef90_V7CLY7 D A D M I T L D A D G V S K H A D N M R G D I V A K I I G R L G L E
 UniRef90_UPI00047D5A47 G A S H I I I K E S A Q M P L Y G K N G L A A Y L A A N A S N H T I D L N
 UniRef90_W4LTP9 G S W K V I V E G R E S G N V G V Y A G D G F D I N G K I K K D E M E G I I S
 UniRef90_X0ZE27 G A K K V I I E A R E A G K G V G L F D I N G K I K K D E M E G I I S
 UniRef90_S8DKY0 G A D M I V I C A D D V C K Q E G E H V R G D L T A K L V G R I G I E
 UniRef90_C5FX02 G V E R L M I E S E G I T E N V T N W R T E V A S E I I M K Q L P Q E
 UniRef90_A9NE7 G A D M I M I D A S E G I S G R A D M L R T D A V A K I I G R L G L E
 UniRef90_F6I2G5 G A D M I M I D A D D V C K Y A D S V R A D I I A K V I I G R L G L E
 UniRef90_F8IH85 G A D Y V L L E G R E S G E G V G I Y D P G G K V L D D A L T V F V D A L P P D
 UniRef90_M8BH18 G A D M I M I D A D D V C Q R A D S L R A D I I A K I I G R L G L E
 UniRef90_K0IK14 G S K K I V L E A N E G V N V G I Y D E K A L V K W S F V G A I T N E Y P P S
 UniRef90_A9B4P5 G A D A V I L E A R E A G E G Y S V F K T N Q A K N A D L V T Q L L K S Y D L E
 UniRef90_T0MU70 E P D T I I I E G R E T G K G V E I Y D E L G N I K W D W A D S L L E C I S L D
 UniRef90_Q01WZ1 G A R E L V V E A R E S A K G V G L F D N D G E F N G T L A D R F A H E F S L D
 UniRef90_F5L8M6 G A A M V L T E A R E S G T S G I C R E N G E L R H D L T E E L T E T
 UniRef90_X1VA55 G V W V M F E A A E L F E N G K F K S N I I K A I S Q D I D I K
 UniRef90_K2B9E8 G A F M L M V E S E G I T E G I P D P K N W R K D I I I E L I N Q F G H E
 UniRef90_K0IQ2 G S D K V V L E A N E G V N V G I Y D E K G A I K W N F V G A L T A K F P P N
 UniRef90_F0IZY1 G V A H V I V E Q A S E I D M L D A D A M R T L V R Q D W F A S L L I E
 UniRef90_UPI00036CC706 G A D R V F L E A A E L F S A N Q V R S L T A A L A R E F P R E
 UniRef90_T1BUH9 G A H H I V E G R E S G Q G V G I Y D E E G R I E E E F L K M V H A A D T H
 UniRef90_B6J3M6 G A H T L M I E S E G I T E G I A D P K N W R K D V I F A L V E F G H E
 UniRef90_D8SYU6 G A D V I R L E S D L D I L T T D V I A K I I E R V G L D
 UniRef90_UPI0003655D4B G S W K I L L E S E G L T E N K E N Y R W N I I D R I I S P L K L S
 UniRef90_G2WXT1 G V H H T I I E Q S E S A S N P A I L K D I A A R D W F R N
 UniRef90_K0MK55 G V H H T I I E Q S E S A S N P A I L K D I A A R D W F R N
 UniRef90_W4MDN0 G A H H V I V E Q S E I D L V T R S D A G I L D R L A R A P W F D
 UniRef90_L1KKBK0 G A D M I M I D T D D V C Q R A D S L R A D V I A K I I G R L G L E
 UniRef90_W5HP96 S P D L L I V E G R E S G R S V E I Y D D A G A I K W D W V D R L I A E A P I L
 UniRef90_T0YA12 G A Y K I M V E L E G I T E R V R E W R T D V A F E I A N G V G I E
 UniRef90_J2Z8B2 G A Y K I M V E L E G I T E R V R E W R T D V A F E I A N G V G I E
 UniRef90_A3JUW7 G A W K V L V E A E G V F E N V G E E R W D F V D D F A N L P V R
 UniRef90_UPI0004682C90 G A T Y V S L S Q Y P G L W L L E A M K D K L P L P
 UniRef90_C6TDJ0 G A D Y L L L P G R E A E W M V E K Q R L V E I M E A M G P L Q N
 UniRef90_UPI00040A7299 G S W K I L L E S E G L T E N K E N F R W N I I D K I I S P L Q L S
 UniRef90_UPI0003821DDA G A E F I V L D H E E F E L Q K D N A K K V F D E I I N T V G L N
 UniRef90_UPI0003610A67 G A S R V I T E A R E S G A S G I C R S N G E L R Y G L T E E I H G I D L N
 UniRef90_UPI0003610A67 G A F T V L I D H E E I E L Q A E V V K D V L S E V I E Y F G R E
 UniRef90_B9K3P3 G A F A L L I D H E E L E F Q E E R M K D E I G K V I D R F G L D
 UniRef90_W5I2K6 R P R K V I V E
 UniRef90_T0ZCC0 G V E R L M I E S
 UniRef90_D4D0G7
 UniRef90_X1QBR6
 UniRef90_R5SZK3
 UniRef90_D5HG7
 UniRef90_U2CVR2
 UniRef90_R5J1L1
 UniRef90_F7K6K2
 UniRef90_C6LGK8 G
 UniRef90_S0JKM5
 UniRef90_R7IX85
 UniRef90_R7CLB7
 UniRef90_UPI00041D8AE6
 UniRef90_R7PGK5
 UniRef90_D4J2Z1
 UniRef90_A4XH4
 UniRef90_UPI00047E7077
 UniRef90_D4LRY6
 UniRef90_C4Z584
 UniRef90_R6XN27 G A K R L V L A R E L N V Q E E I K E A V G E
 UniRef90_R9MLR4
 UniRef90_R9J7N3
 UniRef90_R5QLF5

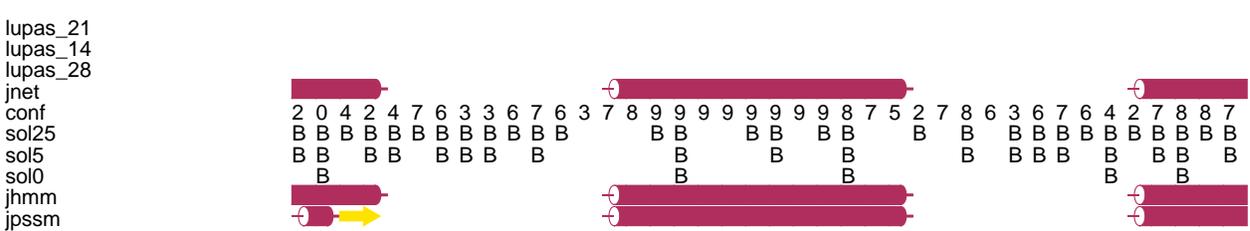
UniRef90_V4U8U1 K T M F E A T N P R T S E W F I R R Y G P K V N L F V D H S Q V M D L E C L R
UniRef90_G8RJC0 R V I F E A P R K A Q Q S E L V G R F G A D V N I L G N V I A S G D I V L A L L E T L R
UniRef90_L0EG29 R L M W E A P R K E Q Q V F L I R A A G P N V N H L G N I A S F N D I V L A L L E T L R
UniRef90_UPI000474FC12 D I I F E A P N K D M Q V H F I K E L G A N V N L L A N I A S F N D I V L A L L E T L R
UniRef90_M5WGY9 K T M F E A S N P R T S E W F V K Q Y G P K V N L F F V D H S Q V M D L E C L R
UniRef90_UPI0002C30C83 K T M F E A S N P R T S E W F I Q D R L G T N V N L F F N I P P M E S V L V L E A T R
UniRef90_B6WWV16 R I I F E A P L R H Q Q E I F I K R Y G P N V N L Y V D H S Q I M D L E C L R
UniRef90_M4FCF9 K T M F E A S D A K L A E W F I K R Y G P N V N L Y V D H S Q I M D L E C L R
UniRef90_UPI00032A6F96 K T M F E A S N Q S T S E W F I K R Y G P N V N L F F I D H S H L V D V L E C C
UniRef90_W2RSN4 N L M F E A A D P V F V N W Y I R E F G N S V N L F F I D H S H L V Q L L E S C L R
UniRef90_Q4VQ13 K I M F E A N D P N V S E W F I Q N Y G P K V N L F N V N Y S Q V G Q L L E R L R
UniRef90_T1BXA8 E L I F E A P G E A Q Q V A L L R E L G A D V N L G N V I A L G S V I A P L A S E R
UniRef90_M5G6D7 K L M F E A A D P E V F A Y H I Q N Q G A H A N L F V D H S Q I V Q L L E C L R
UniRef90_M0RTE2 K T M F E A S S G K T S E W F V K R Y G P R V N L F F V D H S E V M N L E C L R
UniRef90_UPI0004407B87 K L M F E A A E P A V F A Y Y I Q R T L G A D V N V F V D H S Q I V Q L L E C C L R
UniRef90_W1NQ69 K T M F E A S T P E T S E W F I K R Y G P K V N L F F V D H S Q I V M K L E C C L R
UniRef90_I1KLA4 K T M F E A S N Q R I S E W F I K Q Y G P N V N L F F I D H W N V V D V L E S C L R
UniRef90_C4JI8 R V M F E A A D P S V F N W Y I R E F G V D V N L F F V D N S Q I V Q L L E C C L R
UniRef90_A9RX02 R I M F E A S D P K V S E W L I E K Y G S K V N L Y V V D H S H V G Q L L E R L R
UniRef90_J3MGY4 K T M F E A S N A N T S E W F V R R Y G P R V N L F V D H S D V M N L E R L R
UniRef90_M1BYS1 K T M F E A S N P K I S E W F V K R Y G P K V N L F I V D H S Q I V M D L E C L R
UniRef90_UPI0003813B7E K W M F E A A E P Q V F K W Y L K N V S K K V N L F I D H S Q I V E F N A W R
UniRef90_Q3AKF7 R F L F E A P I K S V Q T Y L I K R Y G P H V N I G N I S L G D L V A V E S L R
UniRef90_D4AQJ4 K V M F E A A D P K V F S W Y I R E F G I D V N L F F I D N S Q I V Q L L E C L R
UniRef90_S0AT14 K L M F E A P V E R Q Q V E L V I R M G N T V N L G N I A P A L E T Q R
UniRef90_UPI000475929D K L M F E A S D P P V F K W Y L K N V S K K V N V F I D H S Q V V E F T A W K
UniRef90_UPI0002E8DE7D S L L F E A L H K H Q Q A W F I N R L G N Q V N L A N I Q A K D V V G L E C L R
UniRef90_V7CLY7 K T M F E A S N Q R I S E W F I K Q Y S P K V N L F I D H S H V L D V E C L R
UniRef90_UPI00047D5A47 R V I W D A S Q K S E Q I E L I N L F G S N V N L Y N I A S F D V I A L E T K R
UniRef90_W4LTP9
UniRef90_X0ZE27
UniRef90_S8DKY0 R A M F E A S D P K T S E W L I K Q Y G T R V N L A V D H S G V M D L E C L R
UniRef90_C5FX02 K V M F E
UniRef90_A9NRE7 K T M F E A S P E T F E W F V R R Y G S R V N L F V D H S H V G K L E C F R
UniRef90_F6I2G5 K T M F E A S S A Q T S E W F I K H Y G P K V N L F V D H S Q V M D L E C L R
UniRef90_F8IH85 R V I W E A P
UniRef90_M8BHI8 R T M F E T S G A N T S E W F V K R Y G P R V N L F V D H S E V M N L E R L R
UniRef90_K0IK14 T F I F E A P L E S Q Q S A L I A E F G Q R V N L A E V H P D A I A S V E S Q R
UniRef90_A9B4P5 K L I F E A P T R N S Q I Q M V Q L L G P N V H M A N I P F D E I P R I E T I R
UniRef90_T0MU70 K V M F E A P L E K Q Q V E L I L R Y G K E I N L G N V S V D S V A S L A S Q R
UniRef90_Q01WZ1 T V T F E A P N K P S Q F A L L D H F G P Q V R L C N I R L E E L L R V E I Y R
UniRef90_F5L8M6 I F E A P N K Q L Q T Y F I R K F G T N V
UniRef90_X1VA55 N I I F E L P H S L Q Q V W L I E N L G S D V N I A N V D P F E V L G L E V E R
UniRef90_K2B9E8 K L M F E V S P E K T F K W Y L K E I H P D V N L M M N A K N I V E F N A W R
UniRef90_K0IQ2 T F I F E A P L E H Q Q S A L I A E F G Q R V N L A E I H V D A V S S T E S Q R
UniRef90_F0IZY1 T D P Y R F P Q Q H A E M L N L Y G P E I N L A N V T P G Q V L R L E G L R
UniRef90_UPI00036CC706 R L I Y E L P K H K I T A W L V R E L G T D V N L A N I E W D E L Y L L E L V R
UniRef90_T1BUH9 R L I W E A P Q K S Q Q E E L I R R F G S D V N L G N V P Q N E I L A L E A L R
UniRef90_B6J3M6 K L M F E V S P E D T F K W Y L K E V S R D I N L M M N S K N I V E F N A W R
UniRef90_D8SYU6 R L I F Q A R E P K V F E W F I T N Y G R Q V N L F V D H S H V P Q L E C L R
UniRef90_UPI0003655D4B Q F M V E A D D Q D V F C K Y I E I Y G P N I N M M I D Y S R L L K M E D A R
UniRef90_G2WXT1
UniRef90_K0MK55 I F I E A D P Y P K G H A T L L E K F G D G V N L A N I T A D Q V L R L Q G F R
UniRef90_W4MDN0
UniRef90_L1KBK0 D I L I E A D P P A Q H A D L I R R F G A N V S L A N I A P G Q A L R L E G L R
UniRef90_W5HP96 R T M F E T S G A N T S E W F V K R Y G P R V N L F A D H S E V M N L E R L R
UniRef90_T0YA12 P L M F E A P H E I Q Q T E M I L R L G P R V N L G N V A M S S V A A L E T Q R
UniRef90_J28B2 H Y V F E A A D P Q V F E W F I K N F G P N V N L F V D N S Q I V A L E C L R
UniRef90_A3JUW7 D L M F E A D D Q D V M S Y Y L N A Y G P K V N V F V D H T Q V M Q I E A A R
UniRef90_UPI0004682C90 E F I F P A S Q A A E Q T A L I E M Y G N H M N I S H I P F E D A L T L E T Y R
UniRef90_C6TDJ0
UniRef90_UPI00040A7299 R L I L K T R N P L L Q L R L V E E L G G K L N L A D V N P E T V T L L E A L R
UniRef90_UPI0003821DDA E F M V E A D D Q D V L C K Y I E I Y G P N I N M M I D H T R L L K M E D A R
UniRef90_UPI0004418736
UniRef90_UPI0003754A5D K I C F E S P R E D I N Q W Y I K L F G S E C N V C N I M P S Q I L Q V E P L R
UniRef90_W0BCP3 S L I F E A P N K D L Q T Y F I K H I G H E V N L A N I A F D D V I A L E T L R
UniRef90_UPI0003610A67 R I A F E S P K E A E M T W Y F Q L F G T D C N I T N I M X S Q V M L I D P L R
UniRef90_B9K3P3 K L I F E V T S P K E L T R Y F S T F G G S I N V A N I M P S Q A M Y V E V L R
UniRef90_W5I2K6
UniRef90_T0ZCC0
UniRef90_D4D0G7
UniRef90_X1QBR6
UniRef90_R5SZK3
UniRef90_D5HG7
UniRef90_U2CVR2
UniRef90_R5J1L1
UniRef90_F7K6K2
UniRef90_C6LGK8
UniRef90_S0JKM5
UniRef90_R7IX85
UniRef90_R7CLB7
UniRef90_UPI00041D8AE6
UniRef90_R7PGK5
UniRef90_D4J2Z1
UniRef90_A4XHX4
UniRef90_UPI00047E7077
UniRef90_D4LRY6
UniRef90_C4Z584
UniRef90_R6XN27
UniRef90_R9MLR4
UniRef90_R9J7N3
UniRef90_R5QLF5

UniRef90_V4U8U1 G R N L G K
 UniRef90_G8RJC0 L G L R A D T
 UniRef90_L0EG29 R G L R N D T F
 UniRef90_UPI000474FC12 L G L R A D T L N
 UniRef90_M5WGY9 G R S L G K
 UniRef90_UPI0002C30C83 G R N L G R
 UniRef90_B6WW16
 UniRef90_M4FCF9
 UniRef90_UPI00032A6F96 I R G R N L G R
 UniRef90_W2RSN4 S G I W G D T F G K I
 UniRef90_Q4VQ13 S G L P G
 UniRef90_T1BXA8 M G L R G R
 UniRef90_M5G6D7 K G L W G S T F S R I
 UniRef90_MORTE2
 UniRef90_UPI0004407B87 K G I W G D L F G R V
 UniRef90_W1NQ69
 UniRef90_I1KLA4 G R N L G K
 UniRef90_C4JII8 R G I W G D T W G K V
 UniRef90_A9RX02 S G S H G S
 UniRef90_J3MGY4 F N M R G S S
 UniRef90_M1BYS1 G R N L G Q
 UniRef90_UPI0003813B7E L G L W G D
 UniRef90_Q3AKF7 R G L R S D T L L A V
 UniRef90_D4AQJ4 R G I W G D T W G K I
 UniRef90_S0AT14 L G L R G D T F G
 UniRef90_UPI000475929D L G L W G D
 UniRef90_UPI0002E8DE7D L G L R S D N F N L I
 UniRef90_V7CLY7
 UniRef90_UPI00047D5A47 L G L H S S T L L K L
 UniRef90_W4LTP9
 UniRef90_X0ZE27 C G
 UniRef90_S8DKY0
 UniRef90_C5FX02 S G
 UniRef90_A9NRE7 G R N L G K
 UniRef90_F6I2G5
 UniRef90_F8IH85
 UniRef90_M8BHI8
 UniRef90_K0IK14 R G L S K S A F G
 UniRef90_A9B4P5 R G L H A D T F
 UniRef90_T0MU70 L S L R G D T F S
 UniRef90_Q01WZ1 R G L H S D A F C K
 UniRef90_F5L8M6
 UniRef90_X1VA55 M N L
 UniRef90_K2B9E8 L R L W G D S
 UniRef90_K0IIQ2 R G F
 UniRef90_F0IZY1 Q G I
 UniRef90_UPI00036CC706 L G F A G D T
 UniRef90_T1BUH9 R G L R A D T L
 UniRef90_B6J3M6 L K L C G D
 UniRef90_D8SYU6 A G
 UniRef90_UPI0003655D4B I G Y G P S Q F G K V
 UniRef90_G2WXT1
 UniRef90_K0MKS5 Y G
 UniRef90_W4MDNO
 UniRef90_L1KBK0 R G I
 UniRef90_W5HP96
 UniRef90_T0YAI2 Q G F R G D T F G
 UniRef90_J2Z8B2 S G L W G S S W G R
 UniRef90_A3JUW7 R G Y G P C T L
 UniRef90_UPI0004682C90 R
 UniRef90_C6TDJO
 UniRef90_UPI00040A7299 R G M N P D
 UniRef90_UPI0003821DDA L G F G P S Q F G K V
 UniRef90_UPI0004418736
 UniRef90_UPI0003754A5D
 UniRef90_W0BCP3 L G L R S D T L
 UniRef90_UPI0003610A67 S G E R P
 UniRef90_B9K3P3 L N
 UniRef90_W5I2K6
 UniRef90_T0ZCC0
 UniRef90_D4D0G7
 UniRef90_X1QBR6
 UniRef90_R5SZK3
 UniRef90_D5HGV7
 UniRef90_U2CVR2
 UniRef90_R5J1L1
 UniRef90_F7K6K2
 UniRef90_C6LGK8
 UniRef90_S0JKM5
 UniRef90_R7IX85
 UniRef90_R7CLB7
 UniRef90_UPI00041D8AE6
 UniRef90_R7PGK5
 UniRef90_D4J2Z1
 UniRef90_A4XHX4
 UniRef90_UPI00047E7077
 UniRef90_D4LRY6
 UniRef90_C4Z584
 UniRef90_R6XN27
 UniRef90_R9MLR4
 UniRef90_R9J7N3
 UniRef90_R5QLF5

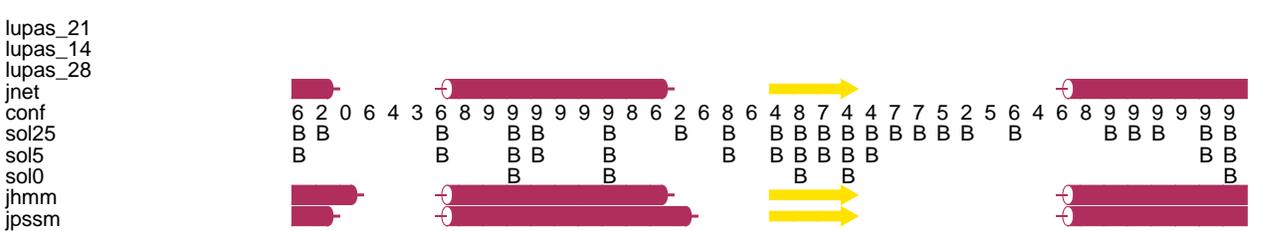

```

UniRef90_R5KZF3      A V Y I G G E V F G L F S L E E M K E G V D F A H S H G V K V Y V T A N I L A H
UniRef90_UPI000361CA5A  A V Y L G G K S F G L F D L E E M R R E G I D F A H S H G V K V Y V T V N I F A H
UniRef90_R6QG30     A V Y I G G G E M Y G L F S M D D V R E G I C F A H E H G V R V Y Y I T A N I V A H
UniRef90_R5RQP2     A V Y I G G G E A F G L F S M E D M K A G I Q F A H E H G V K V Y V T A N I L A H
UniRef90_UPI0003B4BE30 A V Y L G G G D A F G L F S P D E M R A A V A Y A H E R G V K V H V T A N I L A H
UniRef90_C2L1J4     A I Y M G G G E A F S L F S L E K M K E A V D Y A H E R G V K V Y V T A N I L A H
UniRef90_R5RM78     A V Y I G G G E M Y G L F S N E D I K A G I E F A H K Y G K R V Y V I T A N I T A H
UniRef90_R7JXW1     A V Y I G G G D V Y G L F S P E D M K E G V S F A H E H G K R V F V T A N I T A H
UniRef90_J4K949     A V Y I G G G E F F S L F T K E D M K S G I K Y A H E R G K K V Y V T A N I L G H
UniRef90_R7N3X6     A V Y I G G G E A F G L F D K E S M K E G I A F A H E R G V R V H V T A N I L A H
UniRef90_R5YR25     A V Y I G G G E V F G L F S L E E M R E G V K F A H E H N V K V Y V T A N I L A H
UniRef90_R6SGV5     A V Y I G G G E A F G L F S M E D M K K G V E F A H A H S V K V H V T V N I L A H
UniRef90_R6BZ61     A V Y I G G G E A F G L F S M E E M A E G I A F A H A H S V R V Y V T A N I L A H
UniRef90_R6MIZ1     A V Y I G G G E M F S L F S K E D M Q E G I K Y A H D R G K K V Y L T A N I L P H
UniRef90_R6ZC23     A V Y L G G G E A F G L F S M E E L R E G I A F A H E R G K V R V Y V A A N V F A H
UniRef90_H1HSZ7     A V Y I G G G E A F G L F S P E E M A E G L C L A H E R G K R V Y V T A N I L A H
UniRef90_R7R7B8     A V Y I G G G E A F G L F S M E D M A A G I A F A H E H G V K V Y V T A N I L A H
UniRef90_R5A3F8     A V Y L A G K S F G M F G E E L R E A V S F C H E N G V K V Y V T C N T L P R
UniRef90_K0NLM8     A V Y L A G K D F S L F T D T Q L F D A V T L A H Q H N V K V Y L A C N I Y S R
UniRef90_G8LZV6     A V Y L G G E E F S L F S R E H L I E G I D F A H S R G K K V Y V T M N I I P H
UniRef90_R6ILF0     A V Y I G G G E A F G L F S I E N I R E G V M V A A A R Q A S V P V F V T A N I A V
UniRef90_W3ANJ8     A V Y I G G E A F G L F S I E N I R E G V A Y A H E R N V K V F V T A N I L A H

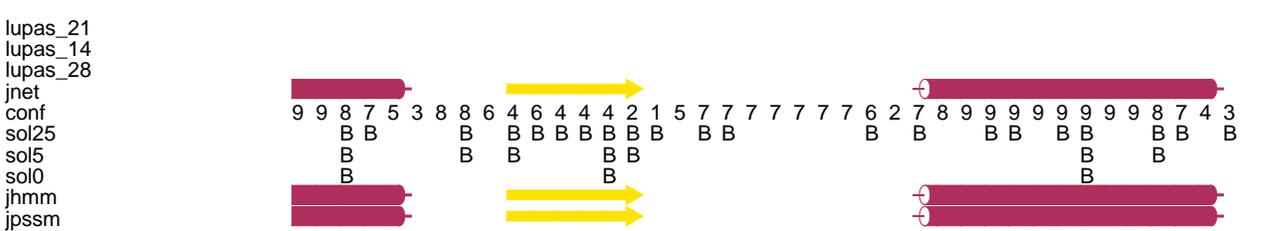
```



	90	100	110	120
UniRef90_R5KZF3	N A D T E P V K V Y F N D L V K T V K P D A L I I S D P A I E I L P D M E L H I S			
UniRef90_UPI000361CA5A	Q A D L R Q L P V Y L R A V Q E A G A D A L I I V A D G V L D L A R E E T P R L P			
UniRef90_R6QG30	N G D L S G I R E Y F R E L R N I K P D G L I I S D G V F M I A K E E C P E I E E			
UniRef90_R5RQP2	N Q D L E G V R S Y F Q E L K E I R P D A L I I S D G V F M I A K E V C P E I E E			
UniRef90_UPI0003B4BE30	N D D M K A A E G Y F E E L R D I G P D A L I I A D G L F M L A K R I C P D I E E			
UniRef90_C2L1J4	N A D L L P M R E Y F S E L N E V G M D A V L I A D G A F L L A K E M M P G V E E			
UniRef90_R5RM78	N R D L E G V R K Y F E E L K E I N P D A L I I S D G V F T I A K E V C P E I E E			
UniRef90_R7JXW1	N G D L E G I R H Y F E E L K E I G P D A L I I S D G V F D I A R E V C P E I E E			
UniRef90_J4K949	N D D L D A A R G Y F E E L K E I G P D A L I I S D G L F T V A K E V W P E I V			
UniRef90_R7N3X6	N R D L E G A R E Y F K E L K E L K P D A L I I A D G M F T L A R E I C P E I L D			
UniRef90_R5YR25	N A D L E P V R A Y F E D L K T V N M D A L I I A D P A I T I A K E M L P D T E			
UniRef90_R6SGV5	N D D L P G V E E Y L K E L K E V G P D A L I I A D G V F E L A K E K I Q R H V			
UniRef90_R6BZ61	N G D L N G A R T Y F E E L K N L K P D A L I I S D G M Y T I A K E V C P E I E			
UniRef90_R6MIZ1	N D D I E E F E G F V K D I K N Y G F D A V L V A D G L F D M M Q E L A P E I V			
UniRef90_R6ZC23	G Q E L P G V E E Y F E K L R E L K P D A L I I S D G V I M L A K K L L P E A E			
UniRef90_H1HSZ7	N D D L N E A E R Y F Q E L A E L R P D A I I V S D P A L F M L A K R L C P G I			
UniRef90_R7R7B8	N D D L E G A R A Y F N E L K E M K P D A L I I S D G M F M I A K E			
UniRef90_R5A3F8	N E E F K E L P A F L A A C Q D M G V D A F I I S D G V L A M			
UniRef90_K0NLM8	N H E K K L E A F L S K T G R I G P D A I I I S D G I I Y L A K K I I P N I I			
UniRef90_G8LZV6	N D D L P G M P D Y I R F L G E I G V D A I I L S D G V F E I C P D M E I H L S			
UniRef90_R6ILF0	H F D H G K T E Q K I G Q A L E L G F T S V M F D G S H L P L D E T C R I I			
UniRef90_W3ANJ8	N G D M E D A R E Y F K E L S T T G I D A V L V A D G M F M I A K E T L P E T I			



UniRef90_R5KZF3 T Q A T N Y G Y N F W Y N L G A K R V V S A R E L S L N E I K Q I R E N L
UniRef90_UPI000361CA5A V H L S S R A V R F W A G Q G V K R V V L A R E L S L D E I R E I R R E
UniRef90_R6QG30 R H I S T Q A Y K F W Q E Q G A S R V V A A R E L S L R E I K E I R E H L
UniRef90_R5RQP2 R H I S T Q A Y Q F W H Q Q G A K R V V S A R E L S L E E L K E R L S E D M E
UniRef90_UPI0003B4BE30 R H V S T Q A F R F W Y E Q G A K R A V C A R E L S L K E I K E L
UniRef90_C2L1J4 I H I S T Q A F R F W H Q L G V K R V V C A R E L S L A E I K E I R A H I
UniRef90_R5RM78 I H I S T Q D Y L F W Q R L G A K R V V S A R E L S V K E I K E I R A N I
UniRef90_R7JXW1 V H I S N Y G T Y L F W Q M G A K R V V S A R E L S I R E I K D I R A H I
UniRef90_J4K949 S T Q A N N T N Y A T Y L F W W K L G A S R V V T A R E L S L E E I K K I R D N
UniRef90_R7N3X6 I H V S T Q A Y R F W Y Q Q G A K R V V S A R E L S L D E I K E I R E H I
UniRef90_R5YR25 I H I S T Q A Y N F W Y N L G A K R V V T A R E L S M K E I K E I R E H I
UniRef90_R6SGV5 S T Q A N N T N Y A T Y Q F W W K Q G A S R V V S A R E L S L R E I K E
UniRef90_R6BZ61 R H I S T Q A Y R F W W E Q G A K R V V S A R E L S L R E I K E I R E N I
UniRef90_R6MIZ1 V L A R E M S F K E I A E F Q K K I P E
UniRef90_R6ZC23 I H I S T Q T F L F W Y R Q G A S K V V A A R E L S L S E I R E I R E H L P A
UniRef90_H1HSZ7 E L V S T Q A F L F W R E L G A S R V V T A R E L S L A E I R E I R E
UniRef90_R7R7B8 V L C P E I E I H I S T Q A N N T N Y Q T Y L F W W Q Q
UniRef90_R5A3F8 A K Q A A P K V I E R H I S T Q T G I A A A Q V C W E L
UniRef90_K0NLM8 H L S T Q A N T T F W Q E M G I K R V N L A R E L S I N E I K Q I S S D
UniRef90_G8LZV6 T Q A N N T N Y K F W Y N L G V K R I V L A R E L S V N E I I E
UniRef90_R6ILF0 E M A R P Y G A A V E A E L G S E D G S E E I A M H C T D P A D A V R F E Q E T
UniRef90_W3ANJ8 E H I S E T F L F W W K M G A K R V V C A R E L S L K E I K E I R E H I



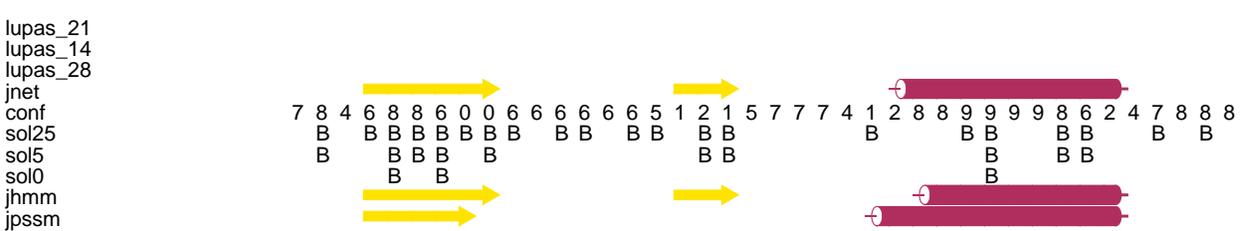
	170	180	190	200
UniRef90_R5KZF3				
UniRef90_UPI000361CA5A				
UniRef90_R6QG30				
UniRef90_R5RQP2				
UniRef90_UPI0003B4BE30				
UniRef90_C2L1J4				
UniRef90_R5RM78				
UniRef90_R7JXW1				
UniRef90_J4K949				
UniRef90_R7N3X6				
UniRef90_R5YR25				
UniRef90_R6SGV5				
UniRef90_R6BZ61				
UniRef90_R6MIZ1				
UniRef90_R6ZC23				
UniRef90_H1HSZ7				
UniRef90_R7R7B8				
UniRef90_R5A3F8				
UniRef90_K0NLM8				
UniRef90_G8LZV6				
UniRef90_R6ILF0				
UniRef90_W3ANJ8				

I P E E M E I E

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

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

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



UniRef90_R5KZF3
UniRef90_UPI000361CA5A
UniRef90_R6QG30
UniRef90_R5RQP2
UniRef90_UPI0003B4BE30
UniRef90_C2L1J4
UniRef90_R5RM78
UniRef90_R7JXW1
UniRef90_J4K949
UniRef90_R7N3X6
UniRef90_R5YR25
UniRef90_R6SGV5
UniRef90_R6BZ61
UniRef90_R6MIZ1
UniRef90_R6ZC23
UniRef90_H1HSZ7
UniRef90_R7R7B8
UniRef90_R5A3F8
UniRef90_K0NLM8
UniRef90_G8LZV6
UniRef90_R6ILF0
UniRef90_W3ANJ8

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

