

1 10 20 30 40
QUERY E R V P E G S I R V A I A S N N G E Q L D D G H F G S C L R F L V Y Q V L S A K D A
UniRef90_UPI0003138A51 M K V A F A T Q D L E R S L D D A H F G W A K N I A I Y D L V T T P S D E S D Y
UniRef90_UPI00037B754D K V K T G S L R V A F A T Q D M Q R L D N A H F F G W A K N I A I Y E D V T T S P D D G Y
UniRef90_I0JYS0 M K V A F A T Q D D L N R S L D N A H F F G W A K N I A I Y E D V T T S Q D D G Y
UniRef90_W6RI68 E Q R P E G T L R V A I A T Q D M R G L D N A H F F G W A K R F A I Y E D V T T S P D D A W
UniRef90_A0ZAV0 M K I A F T T S D R I H I N A H F F G W A R E I D V Y E I S S A D E D E A
UniRef90_G3IZ30 G S V R I A C A S T N S D G I N V D D G H F F G S C S Q F M V Y E Q V S D T T G Y
UniRef90_U9VIA6 M R I A F A T Q D S L H I N A H F F G W A R Q L D V Y E V S D T T G Y
UniRef90_A1VPQ3 M K I A F A T Q D K E R V L D D A H F F G W A K S I V Y E V S P E G H
UniRef90_A4VJ66 D R V P E G S I R V A I A S N N G E R L D D A H F F G S C L R F L I Y Q I G L D S L
UniRef90_G8AJS2 R K G G S M K V A F T Q D M Q H V D D A H F F G W A K N I V Y E I V D K E A G Y
UniRef90_UPI0003617541 M K I A F A T Q D K Q R V L D D A H F F G W A K H L A V Y E I V D K E G Y
UniRef90_G4E2Z3 G F V R V A V A S N Q G E L L N G H F F G A C L R F L I Y Q I V S S Q N V
UniRef90_Q07HY6 M K V A F A T Q D L V H V D D A H F F G W T K N I A I Y D I A S P E G S
UniRef90_S5S5Z5 K R K V G A L R V A I A T Q D M R S L D D G H F F G S A K R F A V Y E D V T S A D D W
UniRef90_UPI000349115A M K I A F T T E D G I H I N A H F F G W A K Q I A V Y E V T T S A D E R Y
UniRef90_L0LQT6 P K G V L R V A I A T Q D L K R L N A H F F G S A K L F A V Y D V T T P T G W
UniRef90_A1KYE1 M K V A F T T S D N V H V N A H F F G W A K N I D L Y D V S P R D G F
UniRef90_P55675 G A L R I A I A T Q D M K V L N A H F F G S A K H F A V Y D V S R D G W
UniRef90_UPI00040F9665 M K V A F A T Q D L V R V D D A H F F G W A K N I S I Y D V S P D G H
UniRef90_UPI000346CC2A M K V A F T T S D R L I H I N A H F F G W S K E I D V Y E V S S K D G Y
UniRef90_K9FAC5 N S I R I A V A S N T D E Q L D D G H F F G S C H R Y L I Y Q L W A E D G
UniRef90_L0GYR3 S I R V A C A S N T G E A L D D G H F F G S C C R R F L I Y Q V W A E G N
UniRef90_UPI00036E3510 G S V R I A C A S D D G I H I N A H F F G S C C T R F L I Y D A T A E D E S
UniRef90_I6UE45 M K I A F T T S D Q V H I N A H F F G W A K M I D V Y E V S K D G Y
UniRef90_G6FYE6 M K I A F T T S D Q V H I N A H F F G W A K M I D V Y E V S K D G Y
UniRef90_UPI000476403C E G D M P N S I R L A C A S N S G E M L D D G H F F G S C E R F L V Y Q V S A S E A
UniRef90_Q98AP2 A G A L R V A I A T Q D M G T N L D N A H F F G S A K R F A V Y D V T T S R E E W
UniRef90_UPI00036F0BAD M K V A F A S T D K I H I D E H F F G S Q A K E F Y L W E I G P E N A
UniRef90_UPI00042146B5 E M P Q S L R V A I A N R G E N L D D G H F F G S C E R F L I Y Q V G P T A M
UniRef90_B3E3U6 M K I A F T T T D G S M I D D Q H F F G G C E S F Q I W E V G P D Q A
UniRef90_Q2RS11 V T G R M K V A L A T Q D M K T V N A H F F N G A R H M A I Y E V G P D G Y
UniRef90_I0IS23 M K I A F A T Q D M E T V D D A H F F G W A K N I A I Y D L E S P D G F
UniRef90_X5JHF1 M K I A F T T S D R V H I N S H F F G W A R E I D V Y D V S P K G Y
UniRef90_K9YAC8 S V K I A V A S N T G E E L D D G H F F G S C H R Y L I Y Q L A V D E M
UniRef90_B6IXK4 T L R V A I A T Q D M K S L N A H F F G S A R T F A I Y D V T T A D S D A
UniRef90_F8EUQ1 P T L R I A I A T Q D M Q S L N A H F F G G A S R F A V W D V T T A D S D A
UniRef90_H8Z4E2 P E G V I R V A I A S N N G E L L D D G H F F G S C E R F L V Y Q V S L D D Q V
UniRef90_H1G608 S V R I A M A S N T G E K L D D G H F F G S C C L R F L V Y Q V S A T E S
UniRef90_O87628 K E K A M K V A F A T Q E L Q R V L E A H F F G W A K N L A V F E L W P N G Y
UniRef90_Q9F0V5 E G A L K V A V A S N T G E L L D D G H F F G S C A R F L V Y Q V S E E G V
UniRef90_Q3A2R6 M K I A F A T S D N E T I D D A H F F A Q A N Q F A V Y E I A S D Q A
UniRef90_H0PXC8 M K V A F A T E N L I D V D D A H F F G W A K K I A I Y E V T T P D S S
UniRef90_M1WWH5 M K I A F T T S D H I H I N A H F F G W A Q E I D V Y E V T T P D S Y
UniRef90_H6SMM6 G R M K V A L A T H D M T H V N A H F F N G A R T L A I Y E V T T P D S Y
UniRef90_F0SYJ6 M L V A F A T T G E D K V N A H F F G M A P A F A V Y E I T P G D Y
UniRef90_B2JYA9 M K I A F A T Q D K V H I D D A H F F G S A K N I V T Y D V T A D S H
UniRef90_F8B5P8 L K V A F A T S D G I V V D D Q H F F G S C R R F D V Y E V S A E E A
UniRef90_F7Y534 G A L R V A I A T Q D V K Q L N A H F F G S A K R F V I Y D M T S A E E W
UniRef90_Q47G72 E G E M P G S L R V A F A A N R G E T L D D G H F F G S C E R F L V Y Q V S P E Q
UniRef90_G3IZ43 E T A L K I A F A T Q D M E T V N G H F F G S A K S F A I Y A F E D M D D A S
UniRef90_V3SZ48 H L M S N H L L V A F A S Q D G L T I N G H F F G G C R L F F I Y A F E D M D D A S
UniRef90_I3CDK9 Q M M D M N A I Q V A F A S T D M K T V N Q H F F G S S E S F V I Y A V T T E K A
UniRef90_A7HES7 M R I A F T S S T G E R V D D E H F F G R A G H F V W Y E V G T A E A
UniRef90_Q53U96 M L V A F A T E S Q K F V D D A H F F G L A S A F S V Y D V T P A E I
UniRef90_W9VFM1 E A N P M G T M K V A F A T S D M K H V D D Q H F F G A A E A F A I Y S L D E Q D A
UniRef90_UPI00037B9AC9 A I T V A V A S N T A E Q L D D G H F F G S C H R F L I Y Q I S T P D Q
UniRef90_K8GDV6 S I R I A V A S N N G E K L D D G H F F G S C L R Y L I Y Q L S T E E M
UniRef90_A4VJ74 S I R I A C T S D G G E R L D D G S F G S C A R F L V Y Q I S P S A S
UniRef90_UPI000309ECF0 M K V A F A T Q D L E R V L D D A H F F G W A K N I A F Y E V T V D S Y
UniRef90_B0UAK7 E Q A A G P A L R V A I A T Q D L K S L N A H F F G S A R R F A I Y D V T V R G W
UniRef90_Q1K0I9 M K V A F A S T D K I H I N E H F F G S A Q E F Y I W D V A A D D A
UniRef90_V4KXN8 G S I R V A C A S N G G E A L D D G H F F G S C Q R F L I Y Q V A S Q E
UniRef90_F9U831 E G D M P G S L R V A C A S N G G D E L D D G H F F G A A R H F L V Y Q V A S G E V
UniRef90_UPI00047EABF0 G E P K L R V A I A T Q D M K S L N A H F F G S A R K L A I Y E V T A R D S
UniRef90_C8S0S9 N A L K I A I A T N D M E N L N A H F F G S A R N F A I Y E V S A T A A
UniRef90_UPI000406C4BF P P G A V R V A I A S T D L K G L N A H F F G S A P K F A I Y D V T P A A G W
UniRef90_A5GAJ8 M K I A F T T K T G E T I D D Q H F F G M S D S F H I W E I G P D E A
UniRef90_B5ECQ6 M K I A F T T K T G E T I D D M H F F G A A D S F H I W E V G P E E A
UniRef90_K9HQN8 E R K R G T M K I A F T T Q D M K T V D D A H F F A S A R N I A V Y E V G D D A G Y
UniRef90_E6W6M0 M K V A F C T N S L K E V D D E H F F G R S H Q M A I Y N V K P E G Y
UniRef90_UPI000463E74C A L R V A F S S N D G L H V D D G H F F G S C H L F F I Y N V K P E A G S
UniRef90_UPI00036628BB E T A I K V A F A T T D M A H V D D Q H F F G S A K S F A V Y A V D P E Q S
UniRef90_U2MIE1 Q R K P Q L R V A F C S Q D G L M I N G H F F G G Q R L F F I Y G F D D E G C
UniRef90_Q47G27 G S V R V A I A S T K G D L I N G H F F G S C L R F L V Y E I V S P D E I
UniRef90_Q39XW1 M K V A F T S T T G E M I D D E H F F G M A K N F H I W E I G P E A S
UniRef90_UPI00034DCCEB S I R I A V A S N F G V T L N G H F F G S C I R F L I Y Q L S R D E Y
UniRef90_A0A011PW11 G S L R V A C A S N R A Q L L D D G H F F G S C E R F L V Y E V N S P D E V
UniRef90_K8GDZ1 M K I A F T T S D N I H I N S H F F G S A R K I D V Y E V N Q T E Y
UniRef90_E4TY41 A L K V A F A T K D M E E I N A H F F G G A K E F V V Y N V S K D G Y
UniRef90_E0S115 M K I A F A S Q D G L T I N G H F F G Q C R L F F I Y A F D Q D G S
UniRef90_UPI00037680D3 G S I R V A C A S D T G E L L D D G H F F G A A R R F L V Y Q V S A S E V
UniRef90_W0E0Y5 T E R P L R V A F A S S D R E R V D D Q H F F G A A R A F T I H G I D R T S H
UniRef90_UPI00035E10E5 M K V A F A T Q D L R R V D D A H F F G W A K N I A I Y D V T T P G G H
UniRef90_A4WRY8 P L R I A I A T S N G L E H L D D A H F F G S C A R F A I W E V T A K S A
UniRef90_B2AIX9 M K I A F A T Q D K E H V D D A H F F G W A K H I L V Y D V T A A A H
UniRef90_I3YCD8 K R M N T A V K V A F A T S D L K Q V D D Q H F F G A E S F A I Y A I G N D P E Q A
UniRef90_Q9KJL6 M K V A F A T T D F I H I D D G H F F G S A K Q M A L Y E I N D T G Y
UniRef90_Q8YU30 M K I A F A T S D R I N V D D A H F F G W A Q E I D V Y E I S D G G Y
UniRef90_W4E769 M K V A F A T D D G S R V N A H F F G S P M F A V Y N V T P A G A
UniRef90_Q56JU0 M K V A F T T D D G I L V N A H F F G Q S P M F A I Y E V T K A G I
UniRef90_W6LYV4 S I Q I A C A S N N S E R L D D G H F F G S C A R F L I Y Q V S A T A A

QUERY S L V D I R S T L 50 60 70 80
UniRef90_UPI0003138A51 S F V E S V S F F L D Q E V D A G L A E D K N A Q P K V L E A L Q D K G C C S L L Y V V A A I G G G S P A G
UniRef90_UPI00037B754D N F V E Q T V A S F F E D V E T D G N E D D D R K L I T P K K V L E A L K N G D C C S H L L L Y F V A A I G G G S P S G
UniRef90_I0JYS0 Q H L E A T V V F F D D V E D A E G N E D D R K L I A P K K V L E A L K G D C C C Q T L L Y F V A A I G G G S P S A
UniRef90_W6R168 S L V E A V V F F D D V E D A E G N E D D R K L I A P K K V L E A L K G D C C C Q T L L Y F V A A I G G G S P S A
UniRef90_A0ZAV0 E F L D I L R K F E P K G L E V D D K N F R A E L I V D C C C Q T I L Y V I A S A I G G G S P A
UniRef90_G3IZ30 R L I D I R D F I P K G L E V D D K N F R A E L I V D C C C Q T I L Y V I A S A I G G G S P A
UniRef90_U9VIA6 T F L E A L K F L K E E D D G N E D D K L E A P K K V L E A L Q D N C C C Q T I L Y V I A S A I G G G S P A
UniRef90_A1VPQ3 H F L E S F D F L E E T F A E D D K L A P K K V L E A L K D V C C C Q T I L Y V I A S A I G G G S P G A
UniRef90_A4VJ66 A L V D V R S A L E T E F A E D D K L N G A R A E L I K D C C C Q A V L Y V V A S I G G G S P A
UniRef90_G8AJS2 T M V E T C Q F G G E D D G N E D D K L I P K K L D A L A D Y C C C A I V Y L S A I G G G S A A
UniRef90_UPI0003617541 H H V E D F D L D E E D D G N E D D K L I P K K L D A L A D V C C C Q A V L Y V V A S I G G G S P A
UniRef90_G4E2Z3 R L V A I R S A L T A G Y E Q A E D R N A Y R T Q L I K D C C C A L L Y V V A S I G G G S P A
UniRef90_Q07HY6 R F I E V V V Q F S D E D D G N E D D K L I Q R T E A I K D C C C A L L Y V V A S I G G G S P A
UniRef90_S5S5Z5 Q L V E T L F F E E V E T D G N E D D K L I A P K K V L E A L K G C C C H L L Y F V A A I G G G S P S A
UniRef90_UPI000349115A E F L E T L F F G E A D D G N E D D R I L A M R V L E A L K G C C C H L L Y F V A A I G G G S P S A
UniRef90_L0LQT6 E L V E A V D F F G E A D D G N E D D R I L A M R V L E A L K G C C C H L L Y F V A A I G G G S P S A
UniRef90_A1KYE1 N F V E N T L E S F F L K E E D D G N E D D K L V P K K V L E A L D G C C C H L L Y F V A A I G G G S P S A
UniRef90_P55675 D F V E A V S F D D D V S E G E D D R I L A P K K V T A L T G C C C H L L Y F V A A I G G G S P S A
UniRef90_UPI00040F9665 E F L E T L F F L Q E D D G N E D D K L E P K K I N A V K D C C C A I L L Y V A A I G G G S G A
UniRef90_UPI000346CC2A E F L E T L K F L K Q E D D G N E D D K V G P K K L D A L V D C C C K I V Y V S A I G G G T P A
UniRef90_K9FAC5 K L I D V R S A L E A D L S D N K N Q F R V N L I R D C C C P V L Y V V S I G G G P A
UniRef90_L0GYR3 R L V D V R E V D E A M A A D D K N N Y F R A G L I G D C C C Q V L Y V A S I G G G P A
UniRef90_UPI00036E3510 R L I D L R D T P D Q G L E V E D K N V F R A G L I K D C C C Q T L L Y V A S I G G G P A
UniRef90_I6UE45 T F L E A L K F L K E E D D G N E D D K L V P K K L N A L K E D C C C Q T I V Y V A S I G G G S A
UniRef90_G6FYE6 Q F V E T I K F L K E E D D G N E D D K L V P K K L N A L K E D C C C Q T I V Y V A S I G G G S A
UniRef90_UPI000476403C R L I D L R S T L E A E E A E D D K N L A R A A L I K D C C C Q V V Y V Q S I G G G P P A
UniRef90_Q98AP2 H L V E A V A F D D V T E D D R V T P K V E A L N G C C C H L L Y F V A A I G G G P S A
UniRef90_UPI00036F0BAD E F T G V L Q V N E G D D G D D R V E A R S A A L A D C C C A L L Y V G Q I G G G P A
UniRef90_UPI00042146B5 K L V E V R G A L E A D D G N E D D K N A A R A A L I K D C C C Q I L Y T M Q I G G G P P A
UniRef90_B3E3U6 S F I E S V K T E A H G D E E D R I A A A R A K L S D C C C A L L Y T M Q I G G G P P A
UniRef90_Q2RS11 S F V E V I Q F D H S D D G N E D D R V R A K V K A L D G C C A L L Y F V K A I G G G S P A
UniRef90_I0IS23 N L S H V A S F E S E D D G N E D D K L V P K K D A L K G C C C A L L Y V A A I G G G S G A
UniRef90_X5JHF1 N F L E T L K F F D K S E D D G N D D K L V P K K V D A L S D C C C T L L Y V S A I G G G I A
UniRef90_K9YAC8 R L I D V R S T I D A D W A K D K T E F R V N L I R D C C C A I V Y M V A I G G G P A
UniRef90_B6IXK4 R F V E A V G F S N D T A D G D D R I G P K V A A L Q G C C H L L F I L A I G G G P P A
UniRef90_F8EUQ1 R F V E A L G F S N D T A D G D D R I G P K V A A L Q G C C H L L F I L A I G G G P P A
UniRef90_H8Z4E2 R L I D R E I D D R Q A D D D K N G Y R A G L I A D C C C Q V L Y V V S I G G G P A
UniRef90_H1G608 R L V D I R E T E T A D D G S D D K N A A R A A M V A D C C C Q V L Y I Q G I G G G P P A
UniRef90_O87628 S F V Q T H S F D K E D G S D E D D K L A P K I E A I K E C C C A I L Y V A A I G G G S P G
UniRef90_Q9F0V5 W L I D V R S T E G T D D A D D D R N V A R A A L I N D C C C H L A Y M Q S I G G G P A
UniRef90_Q3A2R6 S F S G L V E E F L E A T E D D D K I N A R K V L A L G D C C C T L Y V T Q I G G G P A
UniRef90_H0PXC8 R L V E V E F L A E D D G T D K L P K L D A V V R D C C C A M L Y V A A I G G G S A
UniRef90_M1WWH5 K F L E T L N F Q E Q H N N E N K L D S K I D A L S D C C C T T Y V V S Q I G G G I A
UniRef90_H6SMM6 S F V E A I Q S F H A E D D G E D R I K A K V E A L K G C C V A L F V K A I G G G P P A
UniRef90_F0SYJ6 R F V K T I L S P E Q A S E D D K V E A R A D M L K E C C T I L Y V C N H I G G G P A
UniRef90_B2JYA9 T F V E A F Y F G D E D D G D E D K L I T Q K L E V I Q G C C C A I L Y V A A I G G G S G A
UniRef90_F8B5P8 S L Y E S R V L D P A V D D E E K I T S R L D A I R D C C C A I L H F V A A I G G G T P A
UniRef90_F7Y534 E L V E V I E F D D V S D E D D R I T P K I K A L K G C C H L L F C L A I G G G P S A
UniRef90_Q47G72 K L I A I R T T V E A D T A E D K N A A R S A L I N D C C C Q L V Y V Q S I G G G P A
UniRef90_G3IZ43 Q L L E A A Q F G E Q D D G N E D D S V K L E L L D G C C A A V Y C C E A I G G G S A
UniRef90_V3SZ48 W L Y A L R R Y P G E S P D Q E G N D V R A D L L K D C C H L L F C C E A I G G G P A
UniRef90_I3CDK9 T L K E V A Q F Q A Y D G N E D D K L A E K F K L L D G C C A A V Y C C Q A V I G G G S A
UniRef90_A7HES7 R F V E R V S V T S A E D D D R I A A R A S A L A G C C A T V Y T A Q I G G G P P A
UniRef90_Q53U96 H A K G T V Y C P K E T P E D D D K L I E G R L Q S I S D C C A V Y T A Q I G G G P A
UniRef90_W9VFM1 N L V E V V Q F L D M D G N E D D K L S A K I E A L D G C C I A V Y C Q A I G G A S A
UniRef90_UPI00037B9AC9 Q L V D I R S A L T V D A D L S A D D K N A F R V D L V R D C C C A V Y M V S I G G G P A
UniRef90_K8GDV6 R L I D I R S A L E A D L S A D D K N A F R V G L I R D C C C S V Y L V A S I G G G P A
UniRef90_A4VJ74 R L I D L R E P G P A A P H E D R H A R R A E L L H D C C C Q L L Y T L S I G G G P A
UniRef90_UPI000309ECF0 S F I E S T S F L Q E D D G D D K L I T P K V A A L K G C C S I L Y V A A I G G G S G S
UniRef90_B0UAK7 T F V E A V T F E E V T D D G D D R I G P K V E A L R G C C H L L F C L A I G G G P S
UniRef90_Q1K0I9 S L N G V V Q V K Q E G N D E E R I E A R C S G V A D C C C S L V Y V A Q I G G G P A
UniRef90_V4KXN8 R L I D A R D I D D S S E Q D D K N A F R A E L I A D C C C Q V L Y V A S I G G G P A
UniRef90_F9U831 R L I G V R E I A E S S G T V E D K N G A R A A L I K D C C C Q V L Y V A S I G G G P A
UniRef90_UPI00047EABF0 R F V A A A F E H R Q E G E D R I A P K V E A L A G C C H L L F C L A I G G G P S
UniRef90_C8S0S9 R F V E A V S F E K H D D E D D R I S A K K V E A L E G C C H L M F V L A I G G G P S
UniRef90_UPI000406C4BF S F V E A V S F E G N T E G D D R I T P K V D A L T G C C H L L F C L A I G G G P A
UniRef90_A5GAJ8 H Y L E T V T V G H G D D E E D K I S A R A D L L T E C C C A I V Y T M Q I G G G P A
UniRef90_B5ECQ6 H Y V Q T L T V G E H T G D E E D R I A A R A S L L A D C C C A I V Y T M Q I G G G P A
UniRef90_K9HQN8 R F L E A L Q F H T D D G E D R I A A K I G A L D G C C A I L F V K A I G G G P A
UniRef90_E6W6M0 E F V E V R E M G A V D S A Q D A H A S K V Q R I K D C C A I V Y M T E I G G G P A
UniRef90_UPI000463E74C Q L I D I R H F V G A D E T Q E D N E T R A R L L Q N C C C H L L Y F C E A I G G G P A
UniRef90_UPI00036628BB E F M E A A Q F G E Q D D G N E D D K L S V K I Q L L E G C C A A V Y C C E A I G G A S A
UniRef90_U2MIE1 W L H S L R R Y P S A P Q E D E P N E V R A K L L D D C C C Q L L Y F C E A I G G G P A
UniRef90_Q47G27 R L I D I R D T M D A G E F A D D K N L W R A R L I G D C C C H V C Y V V S I G G G P A
UniRef90_Q39XW1 S F L E T V T I G H G D D E E D K I A R A A A L R E C C C A I V Y T M A I G G G P A
UniRef90_UPI00034DCCEB R L I D I R S T V E A E S S D D K N L F R A N L I K D C C C H V L F V Q S I G G G P A
UniRef90_A0A011PW11 R L I A V R P T V A A D H A E D D R N V A R A A L I N D C C C Q T I V Y V Q S I G G G P A
UniRef90_K8GDZ1 T F V E T L R F D A E D D G N E D D K L L P K I E A L H D C C C T I V Y V S T I G G G S A
UniRef90_E4TY41 E V S E V I K T D N A E E D D D K T D Y R V R A L K G V N I M Y S E S I G G G T A
UniRef90_E0S115 W L H D L R R Y Q P A G G E Q E G N A V R S A L I N D C C C Q L L Y F C E A I G G G P A
UniRef90_UPI00037680D3 R L I D V R R I D D S G A E D R N A Y R A G L I A D C C H L L Y V A S I G G G P A
UniRef90_W0E0Y5 R L L E V T I E F A P G D G N E G K L G E R T V A I E G C C L A V Y C E A I G G A S A
UniRef90_UPI00035E10E5 V F L K A I E F E K E D D D D K L T A P K I E A L K D C C A I L Y V A A I G G G A G
UniRef90_A4WRV8 R F V E A L E F D K H D D S A D R I T P K V E A L A G C C A L L F V A A I G G G P A
UniRef90_B2AIX9 R F I Q A F D F P Q K H D N E E K L G Q R L E A I H D C C A L L Y V A A I G G G A G
UniRef90_I3YCD8 N L I E V V Q F L D M D L G E N E D D K L A A K I E A L H G C C I A I Y C Q A I G G A S A
UniRef90_Q9KJL6 Q A L E P M T F G G N L G E Q D E K L H A K V E A L D C C T I V Y V L E I G G G P A
UniRef90_Q8YU30 E F I E T L S F N K E G E S D D K V A Q K I A A L S D C C K I V Y V A S I G G G T A
UniRef90_W4E769 E L L E L R R Q L S A V Q H Q E A K I E S R I R D S V G D C C T L I F L M Q I G G A S A
UniRef90_Q56JU0 E L V E H R Q V L P E S H Q D E A G K L I S S R I R A I S D C C V L F L V Q I G G A S A
UniRef90_W6LYV4 R L V A V R P A P S A R L S V D H S A E R V A L I S D C C D L L C V L S I G G P A

QUERY	K	L	V
UniRef90_UPI0003138A51	K	V	M
UniRef90_UPI00037B754D	K	V	L
UniRef90_I0JYS0	K	A	M
UniRef90_W6RI68	K	V	L
UniRef90_A0ZAV0	K	A	L
UniRef90_G3IZ30	K	V	M
UniRef90_U9VIA6	K	A	L
UniRef90_A1VPQ3	K	A	L
UniRef90_A4VJ66	K	L	L
UniRef90_G8AJS2	K	A	L
UniRef90_UPI0003617541	K	V	L
UniRef90_G4E2Z3	K	I	M
UniRef90_Q07HY6	K	A	L
UniRef90_S5S5Z5	K	V	L
UniRef90_UPI000349115A	K	A	L
UniRef90_L0LQT6	K	V	L
UniRef90_A1KYE1	K	V	L
UniRef90_P55675	K	V	L
UniRef90_UPI00040F9665	K	A	M
UniRef90_UPI000346CC2A	K	A	L
UniRef90_K9FAC5	K	I	L
UniRef90_L0GYR3	K	V	M
UniRef90_UPI00036E3510	K	A	M
UniRef90_I6UE45	K	A	L
UniRef90_G6FYE6	K	A	L
UniRef90_UPI000476403C	R	I	M
UniRef90_Q98AP2	K	V	L
UniRef90_UPI00036F0BAD	K	A	M
UniRef90_UPI00042146B5	R	I	M
UniRef90_B3E3U6	K	A	M
UniRef90_Q2RS11	K	I	M
UniRef90_I0IS23	K	I	L
UniRef90_X5JHF1	K	A	L
UniRef90_K9YAC8	K	A	L
UniRef90_B6IXK4	K	I	L
UniRef90_F8EUQ1	K	A	M
UniRef90_H8Z4E2	K	I	M
UniRef90_H1G608	K	S	M
UniRef90_O87628	K	A	M
UniRef90_Q9F0V5	K	V	L
UniRef90_Q3A2R6	R	A	M
UniRef90_H0PXC8	K	V	L
UniRef90_M1WWH5	K	V	L
UniRef90_H6SMM6	K	I	L
UniRef90_F0SYJ6	K	R	L
UniRef90_B2JYA9	K	A	L
UniRef90_F8B5P8	K	L	L
UniRef90_F7Y534	K	V	L
UniRef90_Q47G72	Q	I	M
UniRef90_G3IZ43	K	A	I
UniRef90_V3SZ48	K	R	L
UniRef90_I3CDK9	K	A	V
UniRef90_A7HES7	K	A	M
UniRef90_Q53U96	K	R	L
UniRef90_W9VFM1	R	A	I
UniRef90_UPI00037B9AC9	K	I	L
UniRef90_K8GDV6	K	I	L
UniRef90_A4VJ74	K	A	M
UniRef90_UPI000309ECF0	K	V	L
UniRef90_B0UAK7	K	V	L
UniRef90_Q1K0I9	K	A	M
UniRef90_V4KXN8	K	V	M
UniRef90_F9U831	K	A	M
UniRef90_UPI00047EABF0	K	A	M
UniRef90_C8S0S9	K	A	M
UniRef90_UPI000406C4BF	K	V	L
UniRef90_A5GAJ8	K	A	M
UniRef90_B5ECQ6	K	A	M
UniRef90_K9HQ8	K	A	L
UniRef90_E6W6M0	K	I	M
UniRef90_UPI000463E74C	K	A	L
UniRef90_UPI00036628BB	K	A	I
UniRef90_U2MIE1	K	R	L
UniRef90_Q47G27	K	I	L
UniRef90_Q39XW1	K	A	M
UniRef90_UPI00034DCCEB	K	A	L
UniRef90_A0A011PWI1	R	I	M
UniRef90_K8GDZ1	N	I	M
UniRef90_E4TY41	N	I	M
UniRef90_E0S115	K	R	L
UniRef90_UPI00037680D3	K	V	M
UniRef90_W0E0Y5	R	A	L
UniRef90_UPI00035E10E5	K	A	M
UniRef90_A4WRV8	K	V	L
UniRef90_B2AIX9	K	V	I
UniRef90_I3YCD8	R	A	I
UniRef90_Q9KJL6	K	A	L
UniRef90_Q8YU30	K	A	L
UniRef90_W4E769	K	V	L
UniRef90_Q56JU0	K	I	L
UniRef90_W6LYV4	K		

UniRef90_U7FTE3 1 MDA P Y L Q V A V A S N N G E M L V 20 D G H F F G S C L R F L I Y R V I T Y D A N 40
UniRef90_K7T1F8 M L I A F A S S N D G G E E L V N D G H F F G W S K S F F L Y R I V T E D N A
UniRef90_A1WTQ2 P E G A L R V A F A S S N T Q D G E E L V N D G H F F G A C N R F F L Y A F A D D Q G G C
UniRef90_D1KS40 Q R T P Q I R V A F A S S Q D G L E I V N D G H F F G A Q N R L F F I Y A F A D D Q G G C
UniRef90_Q7MRG1 I K V A F A S S K D S E F V V N D G H F F G W A R Q F F I Y E V I S S E T T G G F A
UniRef90_G4E6C2 P L K V A F A T S D L Q H V V N D G H F F G A A S K K F A I Y E I V T S P E R T T G A
UniRef90_UPI0003B4FF61 M K V A F A C T N N K T H V D D E H F F G R S I A I Y E I V T S P E R T T G A
UniRef90_A4VJ79 L K V A F A S S D R R T V V D D Q H F F G S S R S F V F Y G I L D D P E R A Y
UniRef90_W9GZU3 M K V A F A C T Q D M A R V D D A H F F G W A K N I A I Y R M D D P T E G Y
UniRef90_L0H238 P S V R V A F A S S T D M K L V D D Q H F F G G A T A F A I Y R M D D P T E G Y
UniRef90_A1K2X2 I R V A F A S T D R S T V V N Q H F F G S T E A F A I Y E V I G Q D N S S
UniRef90_D5V3N5 M R I A F A S K D N I H V N Q H F F G W A K E F F Y I Y E V I K T A K D N Y
UniRef90_W9H032 G E K P I L V A V A T K G G G E R I N E H F F G H A K E F Q I Y E V I T A K D N Y
UniRef90_UPI000464AE05 E G D E K N V L K V A F A T D D I K K V N Q N F F S R A K K F I V Y E I T T K E G Y
UniRef90_W6LYU7 Q A M T T A N I R V A F A T S D R K R V D D Q H F F G T A S A L A I Y E A S S P Q T G A
UniRef90_I3XGU2 G S L Q V A V A T K G G G R I N E H F F G H A K E F Q V Y E A S S P Q T G A
UniRef90_UPI000468B154 M I I S F A S L D G G I N V N E H F F G W C E R F Y M Y E V N E N D F
UniRef90_UPI00047005EA M K V A F A S I N G R S L V D D Q H F F G Q C P S F S I Y E F S E S E K G Y
UniRef90_H1G611 P V L I A F A S T D L K R V D D Q H F F G S A Q C L A I Y R L E S E S E K G Y
UniRef90_G2HZ58 M K I A F A S S Q D N I H V N Q H F F G W C K E F F I Y E I T G E D Y
UniRef90_I4DAS2 M L I A F A S S N G E S I D D S H F F G S A P V I V E F F G G K K Y
UniRef90_UPI00046F1440 M K V A F A S R D G G K R I N E H F F G Q C R T F S I Y E L N V E K Y
UniRef90_Q47FX6 Q E P E A V T K V A F A S T D R S R V N Q H F F G A A E G F A V Y E I T P D N A
UniRef90_UPI000374406E G P L L F A V A T K G G G R I N E H F F G H A K E F A V Y E A S S A S G I
UniRef90_UPI00036C25F4 I L K V A F A T T D M K Q V N Q H F F G S A K S F A I Y A L N E S Q F
UniRef90_UPI000361D112 I L V A V A T K G G G L V N Q H F F G H A K E F A I Y E V D G K Q V
UniRef90_B3DYY9 I L V A V A T K G G G K I N E H F F G H A K E F Q V Y E V N S T K G S
UniRef90_Q2JP82 P S I L V A V A S K G G G L V N R R H F F G H A R E F L I Y E V N A R G S A
UniRef90_W9VIA7 G S V R V A V A S N E G L M L D G D F G T C L R Y L V Y Q V S S E E I
UniRef90_Q9Z5Y3 L K I G F A T S D G S A V D D S T S T W C R R R F D V Y E V G P E A Y
UniRef90_P46038 L K I A F A T G D G T A V D D Q H F F G W C R R R F D V Y E V G P E A Y
UniRef90_K0Q4Z6 G S L Q V A V A T K G G G R I N E H F F G H A K E F Q V Y E A S S P K G T
UniRef90_UPI00037F9C47 R R E T P P A L I A V A T K G G G V I N T H F F G H A A E F L I Y E A N D Q D V
UniRef90_UPI0002E2EC9B M K V A F A T S D G T Y V N T H F F G V A K E I D V Y E V Y M D G F
UniRef90_F8EUR1 E Q T V L V A I A S K Q G G R I N Q H F F G H A K E F Q I Y E V S S H G V
UniRef90_UPI00036E18EC P V L M A V A T S G S G V I N Q H F F G H A R E F F V Y E A S S P D G V
UniRef90_UPI000477FEE8 E I K V L V A V A T K G S G L I N Q H F F G H A K E F Q I Y E L S T S G A
UniRef90_A6LR34 S Y K I A F A S S D G K V V N Q H F F G R T K Q F L I V E V D D K E Y
UniRef90_UPI00030A42D9 P K I L V A V A T K G G G L V N Q H F F G H V K E F Q I Y E V D D G N D A
UniRef90_K9ZGU4 Q N K P K I L V A V A T K G G G L V N Q H F F G H A K E F Q V Y E V D D G N E V
UniRef90_B0UBK8 E Q T L L V A V A T K G G G R I N E H F F G H A K E F Q V Y E A G P G G V
UniRef90_Q07HX3 I R V A V A T K G G G R V N E H F F G H A H E F Q I Y E V S T A G A
UniRef90_A1K2T5 E E K P A R P I R V A I A S K G G G L V N E H F F G H A H E F L V Y E V G P T S H
UniRef90_V6EZU2 V A V A T K G G G R V N Q H F F G H A S E F Q V Y E V D H D G V
UniRef90_K9WBJ6 P K I L V A V A T K G G G L V N Q H F F G H A K E F Q I Y E V D A N D A
UniRef90_I0IS25 K A P P I L V A V A T Q G G G E I N Q H F F G H A R E F Q V Y E V D A N E A
UniRef90_UPI000376350E E M S A I T L L V A V A T K G S G L I N E H F F G H A K E F Q V Y E L S T S G A
UniRef90_Q98AT9 K S L L V A V A T K G G G R I N E H F F G H A K E F Q V Y E A S S P A G S I
UniRef90_E6QRU3 I L I A V A T K G G Q G R V N E H F F G H A K E F Q I Y E V I G S A G S
UniRef90_B8FZP4 I K V A F C S E D M Q H V D A H F F A L S S N I V I Y E F L P A S F
UniRef90_W4V0L6 Y K V A V A S S D G K V V N T H F F G R A L N F M I Y E F L P A S F
UniRef90_I9C1L0 S V L V A V A T K G H G V I N E H F F G H A K E F Q V Y E L S S A S G A
UniRef90_C1DK65 M T E F P V K L A V A S K E G Q A I S E H F F G H A K R F A I Y E V T P E S C
UniRef90_I3BPY9 K Q E T R P V L M A V A T A G G V I N Q H F F G H A R E F L I Y E A N A H D V
UniRef90_R9Y23 E G V P E G T Y K A A V A S S D G I V V N Q H F F G R A D T F Y I Y E V A G A G V
UniRef90_W6ECT1 V K V A F F T N D L K N I D A H F F G S G E Q F A V Y D V N A E G F
UniRef90_B7KG80 E K E S P K I L V A V T T K G G G L V N Q H F F G H A K E F Q V Y E V D G T E V
UniRef90_UPI0002DD3EF5 M K I A F A T T D K G L V N N S D F F G S A E K F D I Y E I L S K S G Y
UniRef90_I3YARO K P E P P V L M A V A T T G G G V I D Q H F F G H A R E F L V Y E A S S Q D V
UniRef90_UPI00040B1E9 E Q K E M R V A V A S K D R Q Q I N E H F F G H A D A F H V Y Q L G P A G V
UniRef90_K6T217 P I K V A A A S S D G K L V N Q H F F G G A K F L I F E L I D N G E Q
UniRef90_F2JLB1 Q K P Y R F A V A S K S G M I V D Q H F F G H V E E F Y I Y D Y Q G E E A
UniRef90_B4VJQ1 I R V A V A S K G G G L V N Q H F F G H A K E F E I Y E V N R D E A
UniRef90_K8GDY3 K N S P K I L V A V A T K G G G I V N Q H F F G H A K E F Q I Y E V D A N E A
UniRef90_G3IZB1 K L T T R P V L M A V A T S G Q G V I N M H F F G H A K E F L I Y E A S P D G V
UniRef90_C5BTB4 G S V R I A C S N R G E N I D G Q F F G D C M R F F L I Y Q V S P D Y I
UniRef90_A9H5T3 E A P V L V A V A T K G G G R I N Q H F F G H A R E F Q V Y E V G A S G I
UniRef90_UPI0002F935EE E S A S A G A V T V A V A T K G D G V I N Q H F F G H A K E F Q I Y Q A D R D G V
UniRef90_A0A011QVF3 R V A F A S N D R N T V N Q H F F G G A A T G F A I Y A L D G K E R A
UniRef90_UPI00028943F6 S Y K I A F A S S D G K A I N Q H F F G G R A E Q F F V Y E V E K N N F
UniRef90_C4LAM9 V A V A T Q G G Q V I D Q H F F G H A K R F H I Y S I S S E S E G V
UniRef90_D8G538 P K I L V A V A T K G G G L V N Q H F F G H A K E F Q I Y E S I S S E S E G V
UniRef90_D3CZR2 K P E D T V L V A V A T K G S G V V N Q H F F G H A T E F W I Y E A G L N W A
UniRef90_A0YP01 K D Q P K I L V A V A T K G S G L V N Q H F F G H A K E F Q I Y E V D G S E V
UniRef90_D5V3N5 V L I A V A T K G G G R V N A H F F G H V S E F Q I Y E V S A G G A
UniRef90_UPI000349137A T E N S P K I A V A T K G G G I V N Q H F F G H A K E F Q I Y E V D V N N I
UniRef90_P06770 E M S A I T V L V A V A T K G S G L I N E H F F G H A K E F Q L Y E L S T S G A
UniRef90_P17434 P K L L V A V A T T Q G G G R I N Q H F F G H A T E F Q V Y E V D A T G V
UniRef90_D3RS02 P V L M A V A T T G G G V I D Q H F F G H A R A F R I Y E A S V Q D V
UniRef90_UPI000464AAD9 E M S E L K L L V A V A T K G D G L I N L H F F G H A K E F Q I Y Q L S T A G P
UniRef90_C7RQK0 L K V A F A S N D R S T V N Q H F F G A A E G F A V Y T L D V G E R A
UniRef90_A1AUR0 M L I A F A S K D G S T E I N Q H F F G H A E R F L I Y E V E G E G V
UniRef90_W6N691 R N N K N N Y R I A V S S K T G V N I D Q H F F G H A S E F Y I Y D V I N G Q I
UniRef90_D5CPD5 P V L M A V A T K G G G V I N E H F F G H A S E F L I Y E A S S E G V
UniRef90_V4KV82 M N E K P I R L A V A S K E G I A I S E H F F G H A K Q F W I Y Q L N A G T C
UniRef90_G7WJH6 M L V A F A S S D G K T I D S H F F A S A P L F E M Y K F A G E P Q
UniRef90_Q10X83 E K V A E P P L L L A V A S K G N G L V N Q H F F G H A K E F M T I Y E V D G V K A
UniRef90_UPI0002889AA4 S Y K V A I A S S D G K F V D Q H F F G K A S K F T I Y E I E N N K F
UniRef90_UPI00046F7D51 E Q V G R G S M R I A V A T R G G G Q V N V H F F G H A R E F L V Y E V S G Q E Q
UniRef90_A0L6X4 R L A V T S K S G T H L D Q H F F G H A R E F L V Y D A S P H G V
UniRef90_UPI0003604979 R F A V A T K S G M L V D D Q H F F G H A Q E F Y I Y E S D G E T A
UniRef90_H5WW71 V L V A V A T E G Q G R V N Q H F F G H A T E F Q I F Q V S R K Q A

UniRef90_U7FTE3 Y L H E V R D A A H L D A G S E R N A 60 L R A D L L K D C Q L L Y V Q S I G G P P A
UniRef90_K7T1F8 E F I K T R L D S A D A L E D S E H E R K L A Y K T S T I V K E A D Q L M Y C C Q S Q I I G G G P T A
UniRef90_A1WTQ2 R L A D L R R P R Y A S A S V S A E D D A L S G A R R V A R L L E A D C C H V L L Y C C C Q C E I I I G G G P P A
UniRef90_D1KS40 W L A D L R R R Y A S A S V S A E D D A L S G A R R V A R L L E A D C C H V L L Y C C C Q C E I I I G G G P P A
UniRef90_Q7MRG1 R L A E L I K F D E S E D S E D E E G K L T D R R R L E A G I K E A G L L Y C C Q Q A A L I G G G P T A
UniRef90_G4E6C2 R L L E E A R F A P T D G S E E E D K L G A K A K A L K G D C C A D A V Y C C Q Q A A L I G G G P T A
UniRef90_UPI0003B4FF61 S F D E M R P M T A V D G S N E R E D H E A K A E K L S D R C C A M I Y Y M E Q O A G G G P P A
UniRef90_A4VJ79 E L Q S V V E F L D Q D D G N E D K L A A K L E L L D D G C C I A V Y C C R A C G G A S A
UniRef90_W9GZU3 R L L E A V A Q F F A M D G N E D K L V A P K I A A I L E G C C A V Y Y L A A A V G G A S A
UniRef90_L0H238 G L L E V A Q F P A M D G N E D K L V A R L A A I L E G C C A V Y Y C C L A A V G G A S A
UniRef90_A1K2X2 T L V E V A T E F L D T D G N E N K L P A K I A T L A G C C A V Y Y C C L A A C G G A S A
UniRef90_D5V3N5 T F V K S V D S S I E J E E E K L L N Y K I E C C C E D C V L V Y V Q Q I G G P K A
UniRef90_W9H032 K F V G H R R V D L Y C E G E D G L L E T T I N A I N D C C V A V F V A K I G G G C P
UniRef90_UPI000464AE05 T T S G I I E T D T S N L P E E K T E Y K L S A L K G V N I M Y C C K S I I G G D
UniRef90_W6LYU7 T L V E F A Q V L E A Y D H E D A T L Q A K M A L L H G C C V A V Y C C A R V I G G S A
UniRef90_I3XGU2 K F V G H R R V D L Y C H G H E D A T L G D I I A A L E G I D F V L C C Q A R I G G D C P
UniRef90_UPI000468B154 S L I K E I D S S K H D D E I D K L E Y K I N C L E N S D M V C C V S Q I I G G P K A
UniRef90_UPI00047005EA K W L E S R S V D D N G E H H D K A D L R V K V I K D C C K L V F V C E A G G A S A
UniRef90_H1G611 A L V E A V Q F Q A R D G E H E D K L M A K F D A L K Q G C C A A V Y C C E A A G G A S A
UniRef90_G2HZ58 T F L K S V S S L E I D D E I E K L S Y K I E C L E D S D T L Y V C E Q A T I G G P K A
UniRef90_I4DAS2 G F V H A E S F A G E K D E S D R I A R R V E A I K E C C A I V Y C C T Q I I G G S P A
UniRef90_UPI00046F1440 K W L E S R S V D D E A E E H E S R I A R R V E A I K E C C A I V Y C C S A I G G S D A
UniRef90_Q47FX6 T L V G V A E F A E E D G N E D K L G A K V D F L E G C C A A V Y V M A I I G G A S A
UniRef90_UPI000374406E N F V G H R R V D L Y C Q D G N E H A L E T L K M A A L E G I D V L C C A K A G G S C P
UniRef90_UPI00036C25F4 T L L E V A Q F L A Q D G N E D K L A V K M A A L K G C C A A V Y S Q A M G G S S A
UniRef90_UPI000361D112 R F V G H R R K I D Q Y C C Q G G A A L E N I T A A I A D C C K A V L V A K I T I G G E T P
UniRef90_B3DYY9 K F I G H R R V D L Y C Q G D D A L L E T V I R A I R D C C R A V F V A K I G G C C P
UniRef90_Q2JP82 Q F V G H R R K I P Q Y C H G H D D N L L E Q I L D L I R D C C R A V L V S K I G G D C P
UniRef90_W9VIA7 R L I E V R G T G G E K A A G E N R P V W R A E R I G D C C Q L L L A R S V G G N R A
UniRef90_Q9Z5Y3 L L F E T R E L L E A A E S D D E D K I E S R L A A G L V D C C A I L N I C D I G G G T A
UniRef90_P46038 H L F E T R L L E A A E S D D E D K I E S R L A A G L V D C C A I L N I C D I G G G T A
UniRef90_K0Q4Z6 T Y V A H R K V E Q Y C L G G E A E E A T I A A L E G I D V V L C A K I G G E C P
UniRef90_UPI00037F9C47 R F I G H R K V E Q Y C S G G E A L A I T Q A L S G C C A A V L C C S K I G G Y P
UniRef90_UPI0002E2EC9B H F V E T R L T V D E E A T H E D K I A T P K M E A V L D C C K I L Y V K A G G K V
UniRef90_F8EUR1 K F I S H R K I P P Y C A G E D A L D V I V K A L E G V Q A V L C C A R I G G D C P
UniRef90_UPI00036E18EC R F I S H R K A D Q Y C C Q G D D T C G E K I R S L Q G C C E V V L C C S K I G G Y E P
UniRef90_UPI000477FEE8 K F V G H R R P I H S Y C I Q G D D K L E I A I D A I N D C C H A V L V S K I G G G C P
UniRef90_A6LR34 K Y V E T R F N E P S C H H T E D A L S K S I E L I S D C C K A V F V A R I G G Q G A
UniRef90_UPI00030A42D9 R F V G H R R K V D H Y C C Q G G Y S G L D N I Q A I A D C C K A V L V S K I G G D S P
UniRef90_K9ZGU4 R F V G H R R K I D Q Y C C Q G G Y S E E A I M K A I A D C C K A V L V S K I G G N C P
UniRef90_B0UBK8 T F V G H R R K V D S Y C C L G D A T L D G V I A A L E G V E V L C A K I G G D C P
UniRef90_Q07HX3 K F V G H R R K V D L Y C C Q G D A S L G P I I K A L N D C C T A V L V A K I G G L C P
UniRef90_A1K2T5 R F L T H R R K C T P Y C E M G D E L G V I I K S L E G V E V L L A S K I G G F F E P
UniRef90_V6EZU2 R F V G H R R K V D N Y C C Q G G W G D D V L E T L A G I E A V F V S K I G G S C P
UniRef90_K9WBJ6 K F V G H R R K I D H Y C C Q G E E A T L E H I I K A I S D C C K A V L V S K I G G H C P
UniRef90_I0IS25 K F V G H R R R V D L Y C C E G E A D S L T R I T E A L S D C C H A V M C A K I G G G C P
UniRef90_UPI000376350E K F V G H R R R V D L Y C C Q G G E D R L S A I M R G I Q D C C H A V F V A K I G G G C P
UniRef90_Q98AT9 S F V G H R R K V E Q Y C C Q G D E K S T L D G V V S T L E G V D L V L C A R I G G N C P
UniRef90_E6QRU3 K F V G H R R R V D L Y C C Q G G E T L P S V V R A I N D C C H A V F V A K I G G G C P
UniRef90_B8FZP4 H R V K T K S F E T E T I N E R R L A E R L E A I Q D C C D T L Y C S Q I G G S P A
UniRef90_W4VOL6 E F V E S R R E N D P A C H S G E D G L Y T A Q L L S D C C K V V L V A M I G G P G A
UniRef90_I9C1L0 K F V G H R R R V D L Y C C Q G E D A L G T V T E A I N D C C H A V F V A K I G G G C P
UniRef90_C1DK65 R L L E S R E V E H Y C C L G N S S N Q S T L E A I K D C C R A V F V A K I G G D G P
UniRef90_I3BPY9 R F I S H R K T D L Y C C S G D D T L Q K T I N A L K G C C E V V L C C S K I G G Y E P
UniRef90_R9Y23 R F L E T R T A S P L C H N E E K L C S N I S K F K D C C K Y I L V S R I G G M G A
UniRef90_W6ECT1 A L S G V I P T G E E R T E G R V E L L Q N V D I M Y C C V E I I G G P A A
UniRef90_B7KG80 K F I G H R K I T D N Y C Q E S D A T L E N I K S I S D C C K G I J A S K I G G A P C P
UniRef90_UPI0002DD3EF5 H F L D T I C V E K Q G G E S D T D I A N T V L D A L N D C C T I V Y T S S R I G G A V P
UniRef90_I3YARO R F I G V R K V D K Q Y C A G G E T A L H K T L R A L D G C C E V V L C C S R I G G Y E P
UniRef90_UPI00040B1E9 E Y I E E R Q E V D H Y C C Q G G D K R E V I L R A L A D C C S A L F V A R I G G E P A
UniRef90_K6T217 V F I E L R E T D P R C C G G D I K E K T I D L I S D C C D F L L V S Q I G G P G A
UniRef90_F2JLB1 T Y I E K R K I N K Y C C M G G E D K I T R I I D S I E D C C Q G V I T L R I G G S P
UniRef90_B4VJQ1 H C I E R R S V T P Y C C Q G G D V L D N I Q T L A D C C K A V L V S K I G G E C P
UniRef90_K8GDY3 K F V G H R R K V D Q Y C C Q G G D A T L E Y V I K A I A D C C Q A V L V S K I G G E C P
UniRef90_G3IZB1 R F I S H R K A D Q Y C C Q G G D S T C G D T L R A L A G C C E A V L C C S K V I G G Y E P
UniRef90_C5BTB4 R L I D I R E P S P K I K A T E R G A A R A K L E D C C S M L Y T I S A V G G A A A
UniRef90_A9H5T3 S F V G H R R K S E T Y C C E G D A T L D G G I I A T L E G V D A V L C C A K I G G D C P
UniRef90_UPI0002F935EE R F L G A R K V N D Y C C E M G D S S L A Q I I E L L R D V D L V L C C A K I G G D C P
UniRef90_A0A011QVF3 Q L V E V V E F L P F H S G N E N K L P A R I A M L A G C C A A V Y C C L A A G G A S A
UniRef90_UPI00028943F6 K L V E L R K S A D P E H S E N E K L K N T I E G L R G C K I V L V T Q I A G D G A
UniRef90_C4LAM9 T L V G E R H V A Q Y C C Q G D D V M A D T L N L L A D M D A V F C S R L I G G L G P
UniRef90_D8G538 K F V G H R R K I D H Y C C Q G G A T E L H T I K A L S D C C K A I L V S K I G G V P
UniRef90_D3CZR2 R L V Q T R D V Q R Y C C E G A T E L D K T I A M L S D C C A A V L C C S K I G G P G
UniRef90_A0YP01 S F V G H R R K I D H F C C Q G G E A T L D N I I K A I T D C C K G V L V S K I G G D C P
UniRef90_D5VFN35 I F V G H R R R V E A Y C C Q G G E A T L P L I Q A I G D C C H A V L V A K I G G L C P
UniRef90_UPI000349137A R F V G H R R K V E H Y C C Q G E E A T L E N I K T I S D C C R A V I A S K I G G S P
UniRef90_P06770 K F V G L R R V E G Y C C Q G E E D R L S V I M R D I R D C C H A V F V A K I G G D C P
UniRef90_P17434 R F A F H R R C D D N Y C C G A E D R L D R V T A A L D G I D E T V L V A K I G G C P
UniRef90_D3RS02 R F I G T R Q V D L Y C C T G A S D R R L T T T I G A I N D C C H A V F V A K I G G Y E P
UniRef90_UPI000464AAD9 K F V G H R R V D L Y C C Q E E G R L T T T I G A I N D C C H A V F V A K I G G S P
UniRef90_C7RQK0 R L V E I V E F P P A E D N E G R L P A R V A S L A G C C A A V Y C C L A A G G A S A
UniRef90_A1AUR0 T L V D E K R V E R Y C C S F D H V L R G I A E A L D G C C A A V Y T A Q M A G G E H P
UniRef90_W6N691 K F K E K R N V N K Y C C N G E D K L D I I K T I E D C C N A V L V L R A G G F E P
UniRef90_D5CPD5 R F I S H R K T I P Y C C L G S A M D Q I L Q T I A G C C E V V L C C S K I G G Y E P
UniRef90_V4KV82 A L L E K R E V E H Y C C L G N S A M D Q I L Q T I A G C C E V V L C C S K I G G E G P
UniRef90_G7WJH6 G I I H T S A E D L Q E S E D K V D V R I K M L R K C C D V Y C T Q I G G G P A
UniRef90_Q10X83 R F I A H R K V D H Y C C L G E S L E N I K A I S D C C K A V F V S K I G G S P
UniRef90_UPI0002889AA4 N L L E V R E N K P S C H Q E S A M F N S N L L D C C K V V L I G M I G G V G P
UniRef90_UPI00046F7D51 K L L G V R R I Q A Y C C N G E A I L D E T V A N L L Q D C C S L V L C A A I G G P P
UniRef90_A0L6X4 T F V E E R N A Q Q Y C C N G D H I C G S D K L K T I T D C C S A I L C E R I G F M P
UniRef90_UPI0003604979 N F I E K R N A Q Q Y C C N G D P D K I C S L Q T I K D C C S A V L A L R V G G S P
UniRef90_H5WW71 L F V G H R R V D L Y C C Q G D E Q L P S I V N A I N D C C H A V L V S K I G A C P

UniRef90_U7FTE3 A A K V I R A G I 90 H P V K F P L P E P A R E R L V Q L Q Q H L L D N P P P W L A
UniRef90_K7T1F8 S K M V V L A S K I V Y P M R S G E N D R A D E T L V K L Q Q E L L L G N P P P W L Q
UniRef90_A1W1Q2 A A K V V I N A G I V F P M K R D V G G G A A G G H M K D E V L S A A L A K R N P P P W L A
UniRef90_D1KS40 A A R L I R H Q I H P M K A P V G T T I Q A Q C D A V S A M L A G R L P P W L A
UniRef90_Q7MRG1 A A K V V R A K I H P I K V N E E K S I K E A L E E V L T K M L A G N P P P W I K
UniRef90_G4E6C2 V R Q L L R E M R V Q P L K V E A G T P I N S L I A L L Q Q S L R K Y P P W V A
UniRef90_UPI0003B4FF61 A A V V L R K G I H P V K V E P G T A I D N I L N N I V E V L G D N P P P W L K
UniRef90_A4VJ79 V R Q L L A I G V Q P V K V S E A E G I A E L L E T L Q A E L R E G P S A W L A
UniRef90_W9GZU3 A A R I V A K K I H P V K V E Q G T E A I V G L C E K L V T L L A G S P P W L R
UniRef90_L0H238 I T Q L L A G R G I Q P I K V A A G T S V P R L I T E L R T E L R E G P S A W L A
UniRef90_A1K2X2 V K Q L L A A G V Q P V R V E E G S V I D N L I G D I Q G E L A S G P S G W L A
UniRef90_D5V3N5 S L M V K A A S K I F P M Q A S A E E K I E E L L Q K L T K M K E N P P L W M R
UniRef90_W9H032 S K S L E A A G I E P V D S Y A F E Y I E E A L L A Y
UniRef90_UPI000464AE05 A A K V I S S G I T P V K V K Y T D D I E E L L N Q F V Y M L N N N P P P W I K
UniRef90_W6LYU7 I R Q L L T A D V Q P F K V A E G T L I E P L L H E L Q A A L N A G S K P W L N
UniRef90_I3XGU2 K K Q L L E A G I Q A T D A F G Y D Y I E A A I S A L Y A T K H S
UniRef90_UPI000468B154 A N L V Q K C G I Y P M K S S D D T I E G V L K S L Q N M I K D N P P L W L Q
UniRef90_UPI00047005EA T K K V M K A G I M L L K A E E G S E L P H L E K L Q M L K E R P P L W L T
UniRef90_H1G611 V K Q L L A L G V Q P L K V A H G T R I G P L L G E L Q D V I R G C P P P W L A
UniRef90_G2HZ58 S M M V K S C K I F P M Q S S E N E K I I D I L L E Q F T K M Q K N P P L W M R
UniRef90_I4DAS2 A A R L V Q C G I H P L K V P E G T R I Y D E L G K L V Q L E N G K T P P W L K
UniRef90_UPI00046F1440 V K R L M K Q G I M L L K V P E S E V I P Q M N R L L N L R E R P P P W L V
UniRef90_Q47FX6 I K K L L A K G V Q P I R V D E V D A I D D L L L E I S R A M T E G G V A W L D
UniRef90_UPI000374406E K D Q L R E A G I R A I D D Y G Y D Y I E T A I S A L Y A E E F G S A T G W V A
UniRef90_UPI00036C25F4 V Q Q L L R M N I Q P I R V E A G S N I T T I L I K T L Q D D I H S G A T G W V A
UniRef90_UPI000361D112 K Q K L H A I G I E T V E A Y D P I E K V A L E Y Y Q Q Y L Q Q T
UniRef90_B3DYY9 K E A L E K A G I E P I D Q F A F E Y I E A A L S Y F K D Y L R
UniRef90_Q2JP82 M K R I R E A G I E V V E D Y D L I E T V A L K F Y R T
UniRef90_W9VIA7 M A P L V H Q G I Y P V T Y L K T M T A P V A L Y A V R Q M L R D N P P P W L A
UniRef90_Q9Z5Y3 A A K V V K I R I H P M K V A K G T E I D A L L T K F V A V L A G N P P P W L R
UniRef90_P46038 A A K V V K A K I H P V K V A K G T S V E D L L T R Y V R D A G R D P P P L V R
UniRef90_K0Q4Z6 R N Q L M E A G V R A T D A Y G Y D Y I E T A I G A L Y A
UniRef90_UPI00037F9C47 W G A L E A A G I Q P N G E H A M E P I E D A V A A V Y R E L A
UniRef90_UPI0002E2EC9B G N K L M K Q G V T I V R A Q E Y D R I P D I L H M L V Q S M N G S A P P M L R
UniRef90_F8EUR1 R E K L E K S G I E A T D A F A H E W I E S G I
UniRef90_UPI00036E18EC W D E L E K A G I Q P N G E H A M E A I E E A V A A V Y Q E M A E
UniRef90_UPI000477FEE8 K A E L I K A G I E P V D Q Y A W F E I D S A I A W F K L Y L
UniRef90_A6LR34 L A E V E A K G I K G I E A P Y F L E D I L K K V
UniRef90_UPI00030A42D9 K E K V H K A G L Q T V E A Y D V I E K V A L E F Y Q Q Y L Q E Q
UniRef90_K9ZGU4 K E K L E A A G I Q T V E A Y D V I E K V A L E F Y E
UniRef90_B0UBK8 K E S L E A A G I R A T D R Y A L D Y I E A A I G A V Y A E
UniRef90_Q07HX3 K D S L A G A G I E A V E S Y A F E F I E T V I A Y F K D Y L L A
UniRef90_A1K2T5 W A D L E A A G I Q P N G E H A M E P I E E A I R A V Y D E L L A
UniRef90_V6EZU2 K K D L A A A G I T A T D A Y P F E Y I E T A I A R W Y A E I N G Q
UniRef90_K9WBJ6 Q D E L H K A G I Q T V E A Y D V I E K V A R E F Y Q Y M Q T A P
UniRef90_I0IS25 K K T L E E A N I L G I D K F A F Q S I K A L L N Y F K E Y V E G
UniRef90_UPI000376350E K S N L I K A G I E P V D Q Y A H E F I E S A I A W F R S Y L
UniRef90_Q98AT9 E D R L K E G G I R A T E A Y G Y D Y I E T A I G A L Y A A E F G S E P L
UniRef90_E6QRU3 R D E L K Q A G I D P V D Q F A H E F I E E V I T Y F K T Y L A
UniRef90_B8FZP4 A A R L I N H N I F P M Q T K E N L L I E E A A C R L Q R M F H K N P P H W L
UniRef90_W4V0L6 A Q V L E Q K G I K A F S L A G Y I D E L L D R L
UniRef90_I9C1L0 K A D L A A A G I D P V D Q Y A H E Y I E S A L I W F K D Y L A
UniRef90_C1DK65 T E K L A A I G V R A V S S Y A W E T I E A S L
UniRef90_I3BPY9 W G M L E E A G I M P N G E H A M E A I E D A V A A V Y K E M A D
UniRef90_R9Y23 A N R M E Q F G V T P M E L P G M I E E S L G K L I T Y
UniRef90_W6ECT1 A A K V V N S K I F P I K Y K E V V S L E T E L S K L Q T M I A T N P P P F I K
UniRef90_B7KG80 Q E Q L R S A G I E P F E A F D T I D A A A L D F Y Q L Y L
UniRef90_UPI0002DD3EF5 A A K L I K N G I T P M T P E D Q E K I T S L L D R L L I A V K G N P A P W L R
UniRef90_I3YAR0 W S Q L E A A G I A P N G E H A L E P I E E A V T A V Y R E M A E S
UniRef90_UPI00040B1E9 R K R L E R A G I Q A V I D D Y P Y A Q V I D T A L Q
UniRef90_K6T217 K K K L L S R G V Q P L I M Y V F I D D A L E K L Y S L M Q D
UniRef90_F2JLB1 K S K L K E K G I Q V F S T Y D R I S D A I K K A V I E A M
UniRef90_B4VJQ1 K E Q L Q A Q G I E V V E A Y D V I E N V V L D F Y E
UniRef90_K8GDY3 K A E L R E A G I H V V E A Y D V I E K V A R E F Y N E
UniRef90_G3IZB1 W E Q L E A A G I A P N G E H A M E P L I E E T V L A V Y K E M A
UniRef90_C5BTB4 T A K V V K V G I H V M Q L G K P L L A H V A L R R L Q A V L A D S P P P W L V
UniRef90_A9H5T3 R D A M R A A G I V V S D E Y A H D W I E A G I
UniRef90_UPI0002F935EE K S E L K D A G I E P N D D Y A Y E F I E P S I A S L Y S T
UniRef90_A0A011QVF3 V K Q L L R A A G V Q P I R L D D E T E I A G L L Q Q I S L A V R N G G I P W V D
UniRef90_UPI00028943F6 S R I L R S N G I E A F D V E D S I E N A L N K L I K Y
UniRef90_C4LAM9 W Q K L E T A G V Q P V V D Y A W Q P I R E A L S A
UniRef90_D8G538 K A D L Q T A G L V V V E Y A Y D V I E K V A R A F Y D T
UniRef90_D3CZR2 Y D A L E D A G I E P V E V Y E L I E K A V A
UniRef90_A0YP01 K K E L E T A G I E V F E G Y D
UniRef90_D5V3N5 R K E L S Q A G I E P V D Q Y A Y E T I E K A
UniRef90_UPI000349137A Q T E L R A A G I E P V E A Y D V I E K A A R D F Y E
UniRef90_P06770 K S G L I K A G I E P V D Q F A Y E Y I E K S T G E I Q H V Q R G V P P R W
UniRef90_P17434 R E G L E A S A G I T A R D S W A H D Y I E P A I L A L Y R E
UniRef90_D3RS02 W G K L E A A G I T P N G E H A L E P I E E A V A V Y R E
UniRef90_UPI000464AAD9 K S E L L R A G I V P V D E Y A H E F I E S V I A W F K S Y L
UniRef90_C7RQK0 V K Q L L A V G V Q P I R L D D E A A I D V L L Q Q L S R A I C S G G T A W V D
UniRef90_A1AURO R Q E L E H L G I E P Y V I T G P I K A T L Q D L A R I L
UniRef90_W6N691 A N R L K K S G I R I F Q M Y D E I N S G I E K T V K L L E N N
UniRef90_D5CPD5 W G P L E A A G I Q P N G E H A M E T I E E A I L K V Y E E M R
UniRef90_V4KV82 T G K L R A I G I D A V S D Y A Y E P I E E S L
UniRef90_G7WJH6 A A R L V Q S G I H P L K V P V G T E L E Y E L N R L K Q L F Q S
UniRef90_Q10X83 K E K V R N A G L K V V E T Y D
UniRef90_UPI0002889AA4 D Q I L F E K G I V T Y E T S D S I N D A L E Y V A S N I E G
UniRef90_UPI00046F7D51 A E R L A R A G L T T L A R K G E I G K L L E Q
UniRef90_A0L6X4 W Q S L E Q Q G I Q P I N R F A G E A I E N A L
UniRef90_UPI0003604979 S R R L E A L G I R I V V T Y D R I E E A V K K
UniRef90_H5WW71 R D E L K A A G I E P V D A F A G D F I E K A

UniRef90_U7FTE3	R V L
UniRef90_K7T1F8	R I V
UniRef90_A1WTQ2	K L M
UniRef90_D1KS40	K R L
UniRef90_Q7MRG1	K I L
UniRef90_G4E6C2	N A
UniRef90_UPI0003B4FF61	K A M
UniRef90_A4VJ79	K A I
UniRef90_W9GZU3	K A L
UniRef90_L0H238	R A L
UniRef90_A1K2X2	K A V
UniRef90_D5V3N5	R L I
UniRef90_W9H032	
UniRef90_UPI000464AE05	K I M
UniRef90_W6LYU7	Q A L
UniRef90_I3XGU2	
UniRef90_UPI000468B154	R I L
UniRef90_UPI00047005EA	K V L
UniRef90_H1G611	K A M
UniRef90_G2HZ58	R L L
UniRef90_I4DAS2	K K M
UniRef90_UPI00046F1440	K S M
UniRef90_Q47FX6	R A L
UniRef90_UPI000374406E	
UniRef90_UPI00036C25F4	K A M
UniRef90_UPI000361D112	
UniRef90_B3DYY9	
UniRef90_Q2JP82	
UniRef90_W9VIA7	K A M
UniRef90_Q9Z5Y3	K V L
UniRef90_P46038	K V L
UniRef90_K0Q4Z6	
UniRef90_UPI00037F9C47	
UniRef90_UPI0002E2EC9B	K V L
UniRef90_F8EUR1	
UniRef90_UPI00036E18EC	
UniRef90_UPI000477FEE8	
UniRef90_A6LR34	
UniRef90_UPI00030A42D9	
UniRef90_K9ZGU4	
UniRef90_B0UBK8	
UniRef90_Q07HX3	
UniRef90_A1K2T5	
UniRef90_V6EZU2	
UniRef90_K9WBJ6	
UniRef90_I0IS25	
UniRef90_UPI000376350E	
UniRef90_Q98AT9	
UniRef90_E6QRU3	
UniRef90_B8FZP4	
UniRef90_W4V0L6	
UniRef90_I9C1L0	
UniRef90_C1DK65	
UniRef90_I3BPY9	
UniRef90_R9IY23	
UniRef90_W6ECT1	K I L
UniRef90_B7KG80	
UniRef90_UPI0002DD3EF5	K V L
UniRef90_I3YAR0	
UniRef90_UPI00040BB1E9	
UniRef90_K6T217	
UniRef90_F2JLB1	
UniRef90_B4VJQ1	
UniRef90_K8GDY3	
UniRef90_G3IZB1	
UniRef90_C5BTB4	K A M
UniRef90_A9H5T3	
UniRef90_UPI0002F935EE	
UniRef90_A0A011QVF3	K A I
UniRef90_UPI00028943F6	
UniRef90_C4LAM9	
UniRef90_D8G538	
UniRef90_D3CZR2	
UniRef90_A0YP01	
UniRef90_D5V3N5	
UniRef90_UPI000349137A	
UniRef90_P06770	
UniRef90_P17434	
UniRef90_D3RS02	
UniRef90_UPI000464AAD9	
UniRef90_C7RQK0	K A I
UniRef90_A1AUR0	
UniRef90_W6N691	
UniRef90_D5CPD5	
UniRef90_V4KV82	
UniRef90_G7WJH6	
UniRef90_Q10X83	
UniRef90_UPI0002889AA4	
UniRef90_UPI00046F7D51	
UniRef90_A0L6X4	
UniRef90_UPI0003604979	
UniRef90_H5WW71	

UniRef90_W8L6C5
UniRef90_C5BTC9
UniRef90_UPI00047DD12D
UniRef90_C6HVB8
UniRef90_UPI0004246836
UniRef90_UPI000465A537
UniRef90_U6EBA4
UniRef90_UPI0002FB68C3
UniRef90_B2JYC0
UniRef90_B4U920
UniRef90_Q46A95
UniRef90_UPI000403017D
UniRef90_UPI000362ADE4
UniRef90_I9LX11
UniRef90_UPI000289E9F7
UniRef90_W6ED10
UniRef90_E8WVH1
UniRef90_W6RJL9
UniRef90_X5A2F6
UniRef90_E6UE49
UniRef90_A6LUZ5
UniRef90_J9DD62
UniRef90_UPI0004720417
UniRef90_R5R7X3
UniRef90_M1WZ25
UniRef90_A1VML0
UniRef90_A1KYD1
UniRef90_E6VSZ6
UniRef90_R5WS96
UniRef90_G2HZ44
UniRef90_A6TTX6
UniRef90_V3V0I5
UniRef90_UPI000373E623
UniRef90_D5XC16
UniRef90_UPI0003FB3FED
UniRef90_I3BYB8
UniRef90_B9M0T2
UniRef90_UPI0003B31CC5
UniRef90_X4ZEP3
UniRef90_B0NBS6
UniRef90_S0FRK0
UniRef90_UPI000463A24E
UniRef90_UPI00047B7E2B
UniRef90_I8SF04
UniRef90_W6NHL9
UniRef90_Q47G28
UniRef90_E6U987
UniRef90_UPI00047D298F
UniRef90_D8GL53
UniRef90_F6D757
UniRef90_H2JJN1
UniRef90_W4D7C1
UniRef90_W6RSC4
UniRef90_A7HES5
UniRef90_F8B5P3
UniRef90_UPI00046E9774
UniRef90_K9T9A5
UniRef90_UPI00047B25DF
UniRef90_H8FMN4
UniRef90_Q6NA04
UniRef90_UPI0004224A4D
UniRef90_UPI00046D3BBB
UniRef90_W6S003
UniRef90_F0SXX9
UniRef90_UPI00047BEC7F
UniRef90_H2J2H8
UniRef90_A5N6Z7
UniRef90_E1Y8C8
UniRef90_B5XPG5
UniRef90_E0SI08
UniRef90_UPI000362FF55
UniRef90_UPI0002FFCA90
UniRef90_D8MG8
UniRef90_B6YRJ3
UniRef90_M1Z4M5
UniRef90_A4FXP2
UniRef90_C6BX24
UniRef90_W4V518
UniRef90_S9TKT5
UniRef90_T2GA32
UniRef90_A6UNA0
UniRef90_UPI00036DC4F3
UniRef90_B1R1M5
UniRef90_UPI00047D2C5F
UniRef90_C6B4Y4
UniRef90_R6YRU0
UniRef90_U6EAP4
UniRef90_H7ELT9
UniRef90_H6SN65
UniRef90_UPI0002481C42
UniRef90_A1K993
UniRef90_R9IL99

1 10 20 30 40
P V L M A V A T Q G G G V I N Q H F F G H A R T E F L V Y R A S S P E G V
K L A V A S K D G G S I N N E H F F G H A D T F F W I Y T A S S G K E I
E A P S L L V A V A T T A G G E G R V N N Q H F F G H A K R E F F Q Q V Y E A A S S P A T E G L
P V L M A V A T A G G Q G L I N N Q H F F G H A K E F F L V Y E A S S P A G V
H L K V A F A S S D M K T Y I D D Q H F F G G S C L L V Y G V L E N D D G H
S I K V A F A S S D M G K Y I N N Q H F F G H A S Q S F L I Y Q L E N D D G H
P K V L V A V A T K G G G L V N N Q H F F G H A K E F F M I Y E V I D A T E A
E G D M K I A V A S K G R G R V N N A H F F G H V S E F F Q I Y E V I G A A G A
K V L V A V A S K G Q M T V N N E H F F G T A N E F L I Y E V I S A I G A
E K Q S S E K F K V A V T S K S G K L V D D Q H F F G Q T T D F M I Y E V I N G E D Y
K K P A K A V R F A V A S K S G M L V D D T H F F G H A K E F F Y I Y D Y A D A G Q V
Y R I A V A T S K H G K L V D D Q H F F G H A T E F F L I Y E V I N D G S F
E A I E M T K Y K F A A S K S G L V D I N D H F F G H A K E F F Q I Y E S Y E G G N I
M K I A F A S T D N L V H I N D H F F G W C K C F Y L Y E L K E D S F
M L F A V A S R D G K E I N N Q H F F G H V E R F L I Y Q V E D D I V
G R L H V A V T T K G G G R I N N E H F F G H A T E F L Q V Y A V S S Q K G L
S Y K L A V G S S D G G E L V D D Q H F F G R S E F F Y I Y E V S A I G A
R L A I A T S D G F T V N N E H F F G H A K F F R V Y D L G E D G Y
E V T E E K P L K F A I A S K S G L V D D M H F F G H A S E F F Y I Y E A S K N S A G V
V L V A V T T R G G A R V N N Q H F F G H A K E F F Q V Y E A S S A G V
M K V A V G S S D G G V N V N N Q H F F G R S D R F L I Y E V D D E G Y
K K G E N T M R I A V T Y E N G Q I F Q H F F G H T E T F F K I Y D V E N N K T V
I L V A V A T K G S G L V N N Q H F F G H A K E F F Q I Y E V D D E G Y
V L V A V A T K G G G R V N N E H F F G H V T E F F Q V F Q V S A A E A
P K I L V A V A T K G N R L V N N Q H F F G H A K E F F Q I W E V D D G S Y
V A V A T R E G R L V N N Q H F F G E A K T F Q I F G P D G S G Y
K G E F T M R I A V T Y E N G Q I F Q H F F G H T E Q Q F K L Y D V E D G K V
G N L K V A F A S T D L E N I D D S H F F G S A K Q F A V Y E I L G K D L T
Y K I A I A S K T G R L I D D Q H F F G H V K E F L V Y K Y T E A G A
V A V A S S Q G G E I D C H F F G H A E R F Q I Y S L S A T A G V
N K A T G A L K I A V A T K G G R V N N A H F F G H I S E F L Q V Y D G N S A T G A
G K K I Y R I A V A S K R G D L I D D Q H F F G H A S E F F L I Y D G N G R Y F
M K L A V T Y S N G E I F Q H F F G H S E Q F K I Y E V E E G N V
I A V A S K E D G L A I S D E H F F G H A A F W I Y A V T P D A C
M L I A V A S K T G D G K E I D D Q H F F G H A E R F L I Y D V A G N E A
E A K P A R K I R I A V A S K T G M T V D D Q H F F G Q A E Q F Y I Y E S D G D A A S
E T G M L R I A V A T R G G K V N N M H F F G H A K E F F L I Y E V H A G R E S
K E R R H M K I A V T Y E N G Q V F Q H F F G H T E Q F K V Y D V E A G K I
S Y R L A V A S S D G K V V N N Q H F F G H S R Q F I Y E I D G G E W
Y R F A V A S K S G L V I D D T H F F G H A K E F F Y L Y D Y L N G E V
U P I 0 0 0 4 7 B 7 E 2 B L K F A I S S K S G L N I D D Q H F F G H S N E F F Y I Y S Y D G V N V
Q N L K K K Q Y K I A V T S K Y G K L V D D Q H F F G H A S K F I Y S G D G Q D F
E L I K G K K Y K F A I S T K S G V N I A E H F F G H A N E F F Y I Y S Y E E G T I
E G L P E G S V L M A V A G K N G V I A E H F F G H A K E F L I Y E A S P S G V
A F R V A A A S S D G E R I D L H F F G Q A H T F Y I Y E L T K E S A
Y R F A V A S S D G V V V N D D H F F G K A K G F F Y I Y Q V S E D E N
Y R F A V A S K S G V S I D E H F F G H A T E F Y I Y D V I N D E I
M K V A V T S T N G K D I D L H F F G D A K S F L I F E V K D G S S
A Y K I A I A S S D G K V V N N Q H F F G H C R F F L I F E N D E T G W
Q Q G Q H P T K V A V A T R G G D K V N N Q H F F G H A T E F F M V Y E T D G V S V
M K V A V A S S D G K L V N R H F F G R A E K F Y I Y E I A D K T F
S A R I A V A T R G G Q V D E H F F G Q A R E F L V Y D D S R A G A
K P E R T V L I A V A T K G G G V V N N Q H F F G H A E E F W I Y E A G E R W A
R V A V A S R G G D K V N N Q H F F G H T T E F M I F D T D G T E V
V A V A S Y E G V L V N N Q H L G Q A D T F F E I F W E K T D G G F
V A V A S R G G G R I N N Q H F F G H A T E F L V F E V S A K G V
V A V A T T K G G G R I N N Q H F F G H A R E F H V F E V D A L G V
M D T P H L R I A L T T N N L L Q V D A N F A A A R Q M V I Y D L A R D S S A
R V A V A T K G A L G L I N E H F F G H A K E F F Q V Y E L S T S G A
M R F A I A S T D G K S V D E H F F G R A R R F W I Y D L E A G G P
K V S G R H L K F A V A T R S G M T I D M H F F G R A A E E F Y I Y E Y R N D T V
L K V A V A S T D G I H I N E H F F G R A S E F M I Y E Y R N D E G Y
R I A V A T S D G K M V N E H F F G H A R H F L I I D I Y Q D G Y
V A V A T S Q G Q A V D D Q H F F G H A D R F T L Y S L S A A G V
K E S K Y R F A V A T K S G V N V D A H F F G H V S Q F Y I Y D V V N K K I
E K D N E N K P Y V A V A S M E G T L V N M H L G E A D R F M I Y G K S F D G Y
D E W S M K V A F A S S D Y R H V D D Q H F F G A T P R L V V Y G V K A D R V
W S M K V A F A S S D Y H H V D D Q H F F G A T P R L V V Y G V K E D Q V
V A A G V Y R I A V T S K Y Q K L V D L H Y G H A E Q F H I Y Q V R G K Q M
M D A P H L R L A I T T N S L V E L D A N F A A A K Q F V L Y D V S A E E S
K K Y K F A V S S K S G I N I D D Q H F F G H A N E F F Y I Y T Y N D G T T
R V A V A S N E G L L V N N L H L G E A R K V Y I F E Q S K N G Y
P F K V A V A T T G E G K V N N Q H F F G Q A K E F F Q I F E V S R K N G L
T L K V A I A S T D G V N V N N M H F F G A A T H F L I F E V K D N V A
V A V A S R E G M L V N N Q H L G E A K E F H I W A E D G G G F
S Y R I G F A S T D G T V I D D Q H F F G S A R Y W Q I Y D V D K E A
L R I A V A S T D R A H V D L H F F G G A E R L V I F D V A P G R A
V A V A T S N G E T V D T H L G H A R R L L I Y Q N D Q G L V
K T L K I A V S T D G V N I N N M H F F G S S T H F L I F E V I N D K I A
R R G D S N M K I A V T Y N D N G E V F Q H F F G H T E Q F K V Y E V E D G K I
K G D N M K I A V T Y N D N G E I F Q H F F G H S E K F K L Y D V E D G K I
M K I A V T Y N D N G G R V N E H F F G H A T E Q F K V Y E V E D G K V
L L I A V T T N G G G R V N E H F F G H A Q E I Q I F S V C K K G L
K K G A D T M R I A V A Y E N G Q I F Q H F F G H T E Q F K I Y D A E D G A V
M K I A V A S T D G K V I D L H F F G D A N R F L I F E L E D G E G
R K G E R T M R V A V T H E N G Q V F Q H F F G H T A E F K I Y D V E D G K I
V A V T T R G G G R I N A H F F G K V T E F Q I Y E V D A A G V
E A K K E I S Y T F A V A T S S G M Y I D Q H F F G H V G E F Y I F S Y W L N S I
R V A V A T K D G L A V S E H F F G H A K V F H V Y D V D T A G A
M K I A V T Y E D G M V F Q H F F G H T Q Q F K L Y E V E N G A V

UniRef90_W8L6C5
UniRef90_C5BTC9
UniRef90_UPI00047DD12D
UniRef90_C6HVB8
UniRef90_UPI0004246836
UniRef90_UPI000465A537
UniRef90_U6EBA4
UniRef90_UPI0002FB68C3
UniRef90_B2JYC0
UniRef90_B4U920
UniRef90_Q46A95
UniRef90_UPI000403017D
UniRef90_UPI000362ADE4
UniRef90_I9LX11
UniRef90_UPI000289E9F7
UniRef90_W6ED10
UniRef90_E8WHN1
UniRef90_W6RJL9
UniRef90_X5A2F6
UniRef90_E6UE49
UniRef90_A6LUZ5
UniRef90_J9DD62
UniRef90_UPI0004720417
UniRef90_R5R7X3
UniRef90_M1WZ25
UniRef90_A1VML0
UniRef90_A1KYD1
UniRef90_E6VSZ6
UniRef90_R5WS96
UniRef90_G2HZ44
UniRef90_A6TTX6
UniRef90_V3V0I5
UniRef90_UPI000373E623
UniRef90_D5XC16
UniRef90_UPI0003FB3FED
UniRef90_I3BYB8
UniRef90_B9M0T2
UniRef90_UPI0003B31CC5
UniRef90_X4ZEP3
UniRef90_B0NBS6
UniRef90_S0FRK0
UniRef90_UPI000463A24E
UniRef90_UPI00047B7E2B
UniRef90_I8SF04
UniRef90_W6NHL9
UniRef90_Q47G28
UniRef90_E6U987
UniRef90_UPI00047D298F
UniRef90_D8GL53
UniRef90_F6D757
UniRef90_H2JJN1
UniRef90_W4D7C1
UniRef90_W6RSC4
UniRef90_A7HES5
UniRef90_F8B5P3
UniRef90_UPI00046E9774
UniRef90_K9T9A5
UniRef90_UPI00047B25DF
UniRef90_H8FMN4
UniRef90_Q6NA04
UniRef90_UPI0004224A4D
UniRef90_UPI00046D3BBB
UniRef90_W6S003
UniRef90_F0SXX9
UniRef90_UPI00047BEC7F
UniRef90_H2J2H8
UniRef90_A5N6Z7
UniRef90_E1Y8C8
UniRef90_B5XPG5
UniRef90_E0SI08
UniRef90_UPI000362FF55
UniRef90_UPI0002FFCA90
UniRef90_D8MG8
UniRef90_B6YRJ3
UniRef90_M1Z4M5
UniRef90_A4FXP2
UniRef90_C6BX24
UniRef90_W4V518
UniRef90_S9TKT5
UniRef90_T2GA32
UniRef90_A6UNA0
UniRef90_UPI00036DC4F3
UniRef90_B1R1M5
UniRef90_UPI00047D2C5F
UniRef90_C6B4Y4
UniRef90_R6YRU0
UniRef90_U6EAP4
UniRef90_H7ELT9
UniRef90_H6SN65
UniRef90_UPI0002481C42
UniRef90_A1K993
UniRef90_R9IL99

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

UniRef90_W8L6C5 W S T L E A A G I T P N P N H A M E P I 100 E D A I L A V Y R E M 110 120
UniRef90_C5BTC9 T E K L R K I G V F A V S D Y A Y E A V I E E S L
UniRef90_UPI00047DD12D K D Q L L E A A G I R A S D A Y A H D Y I E
UniRef90_C6HVB8 K K T L E E A G I L P I D G Y A Y Q S I K P S L
UniRef90_UPI0004246836 W G L L E Q A G I Q P N G E H A M E S I E A A V M A V Y R E L A E T P A P D Q K
UniRef90_UPI000465A537 F R Q L M A A G I R A I R V I E H G T S I T S L I Q S L Q D
UniRef90_U6EBA4 I D I L L E N N I D P Y I A P T F I E D A L E K M V I R K
UniRef90_UPI0002FB68C3 Q K E L Q K A G L T V V E A Y D V I I E T V A R H F Y D E
UniRef90_B2JYC0 R K E L S R A G I E P V D Q Y A G E F I E A A L A W F A D Y
UniRef90_B4U920 R D V L K R A N I D C V D E Y A F L T I D E A L A K Y Y K E
UniRef90_Q46A95 Q K K L G E F G I E C I E Y C Y T V E R G L K Y L Q T M R K
UniRef90_UPI000403017D K E K L N A Q K G I M A V E N T Y D V I I E D A V R K
UniRef90_UPI000362ADE4 R K D L A A A G I A A V E D Y A H E Y I E E A S L
UniRef90_I9LX11 Q Q R L L E H G I V S V E Y Y C Y T V I E E G L A Y A V E Q L
UniRef90_UPI000289E9F7 V K T L E E K G I K L I Q M Y D S I D K G I K R A A E E M
UniRef90_W6ED10 S L M V K E G S G I F V L K S E E N E R I E P V L R D L A K I L
UniRef90_E8WVN1 K G E L E R L G V E P Y V V I E G E I E P V L R D L A K I L
UniRef90_W6RJL9 K K Q L L A E A G I R A T D A F G Y D Y I E T A I G E L Y A
UniRef90_X5A2F6 Q Q R L K A G I S V Y S S R G T V I E D A L G K L
UniRef90_E6UE49 A A Y L I G R G V R V F E V S G P I D A V L N R F I E
UniRef90_A6LUZ5 K R K F K S M N I E V F M T C E T I E T A V S K A A E A L K G T
UniRef90_J9DD62 Q E Q L S A A G I V A T D A Y A Y D Y I E T A V S A W Y A A E Y G R P
UniRef90_UPI0004720417 T A V L N N A G I T A L I A V E A P L D K A L N R L V A F L H S G
UniRef90_R5R7X3 Q T A L A A A G I K L Y G G V S G S A D E A V N A F L A G N L N F N P
UniRef90_M1WZ25 K K Q L H Q A G I K T V E A Y D
UniRef90_A1VML0 K D D L T A A G I E A V D Q Y V G E F I E A A L E W F N D Y
UniRef90_A1KYD1 Q E E L R K A G I E P Y E A Y D
UniRef90_E6VSZ6 R M L L E E H G V A P H S V T G F I E D A L R A I Y E T
UniRef90_R5WS96 Q N A L A E M G I K L F G G V S G S A D E A V E A Y L A G N L N Y N P
UniRef90_G2HZ44 A A K I I N S G I F P L K Y K E S V S I E E E I K K L T T M L N T N P P P F I K
UniRef90_A6TTX6 R K E L E A N H I H I G E M Y E E I E K G I K K V V T Q L K
UniRef90_V3V0I5 W K K L E N S G I E P C V E G A W Q N V T D V L
UniRef90_UPI000373E623 R K E L S D A G I E A V D K Y A G E I V E V A
UniRef90_D5XC16 R Q R L L K K G I V S I G E H Y G T V E E G L S F A V Q K I E G
UniRef90_UPI0003FB3FED M Q A L N D N G I E V V A G A S G D T D E V V T A Y L N G E L E S T
UniRef90_I3BYB8 I E K L A A I G V R A V A D Y A W E T I E E L L D Y V R N T
UniRef90_B9M0T2 Q E M E R L G L D V F V T E G P I K P T L V E L G K M L
UniRef90_UPI0003B31CC5 L K K L E T K G I R V F T L Y E N V A V N D A A R A L
UniRef90_X4ZEP3 Q E K L R Q A D I M A L T R K G G L Q E L L A E
UniRef90_B0NBS6 R N A L A E A G I K L F P G A Q G D A D A Q V E S Y L A G T L N Y D P
UniRef90_S0FRK0 E Q A L G N A G I R A Y V I P D L T Y T A L N K V I A S L
UniRef90_UPI000463A24E T R K L A E E K G I K P V N T Y D M S I E D A V K K A A A M
UniRef90_UPI00047B7E2B I K K L E K K G I R V I Q M Y D S I N E G I Q K A A K E M Q G
UniRef90_I8SF04 K E R L N K K E I Y S V E Y C D T V N N G L Q Y A V S Q L A D R
UniRef90_W6NHL9 T E K L K A N G I K V I E M Y D S I N K G I N R A A K I L E E T
UniRef90_Q47G28 W G K L E A A G I A P N G E H A M E P I E D A V M A V Y K E I A A T
UniRef90_E6U987 A Q Y V L Q A G L R V F E A P Y L I E P V L E K L R A
UniRef90_UPI00047D298F A A M A E S M G I E S Y E P G M I Q E S I E K L K Y I K
UniRef90_D8GL53 I D R L H E K G I R L F Q M Y Q E I N E S I R K A A K L L K
UniRef90_F6D757 S I E L R K S G I R P I Q L A D M S V K D A L K E
UniRef90_H2JJN1 V Q A L T L A Q I R A F C A V G L I E Q V L E K V N E T L N
UniRef90_W4D7C1 R A S L N K A G V L P L V R K G E I Q D V I
UniRef90_W6RSC4 E K Y I G E R G L V A L E I P G F I D E V L E K L S K
UniRef90_A7HES5 S A R L A A A G I E A V V D Q A F R P I E T A
UniRef90_F8B5P3 R E T L A A A G I E A V E C Y D I I D S V V A
UniRef90_UPI00046E9774 R A A L N K A G V L P L V R K G G I Q E A I
UniRef90_K9T9A5 K E V L I E C G V L P V E M N G F I E E G L K A V Y E
UniRef90_UPI00047B25DF K K K L A A A G I T A S E A H A Y E W I E E A G I A
UniRef90_H8FMN4 R N D L A A A G I E A V D T H P F E Y I E S A V A A W Y A E
UniRef90_Q6NA04 A V R V H N L R V F P V D K N E C Y A R F L D D V V A Q L Q R L M N G S P P L W L R
UniRef90_UPI0004224A4D R S E V L K A G I E V V D Q Y A Y D F
UniRef90_UPI00046D3BBB A A E L A A R G I E V V V Q P G P L P A A
UniRef90_W6S003 K K K L S K E N N I R I F T S C E R I E D A V A I F A K E I
UniRef90_F0SXX9 A R T L S Q K N I R S F A L S E S I D K A L
UniRef90_UPI00047BEC7F M D R L R K R G I L P L V M P G Y I K D A I E A F
UniRef90_H2J2H8 W K R L E A A G I E P Q V D G A W Q P V E T A L A Q W Q R K L A G G
UniRef90_A5N6Z7 L A M L H E K G I K V F Q M Y F S I E Q G I K K A I E L L
UniRef90_E1Y8C8 K Q I L E L A G I L P I E M E G F I D E G L D A V
UniRef90_B5XPG5 F R Q L L Q V G V R A E R V P D Q T T I L G L L Q E I Q
UniRef90_E0SI08 F R Q L L Q V G V R A V R V P A D T P
UniRef90_UPI000362FF55 K A R L Q Q A G I V S V E S C N S V D E G L L F A A E C L R
UniRef90_UPI0002FFCA90 A V R V N E L K V F P V K S E R V R A I D D V I A Q V Q N M M S G T Q P L W M R
UniRef90_D8MG8 T E K L E K R G I K V I E M Y D S I N K G I V K A V K L L E D
UniRef90_B6YRJ3 M K M M R E K G I R V I Q M N G L I D A G L D A I Y
UniRef90_M1Z4M5 M N R L R E Y G I E S V M A D G S I D D E L R L R A E
UniRef90_A4FXP2 K S V L E E K G M K V I A T E N T L K D A L K E F
UniRef90_C6BX24 Q V M L A E D G V E P Y V I G G F I E D A L A T V Y
UniRef90_W4Y518 A A V M I A K G K R V P I E A T G E V E D I L A R L V G
UniRef90_S9TKT5 I R R L M A L G I Q P I I V D S G H E I D L L N E V S L A L V Y G G L P W V E
UniRef90_T2GA32 Q R V L G E H G L S V R V V P E D T D V A A A V
UniRef90_A6UNA0 K S I L L E K N G I K V V I S K N T L K E A L K E
UniRef90_UPI00036DC4F3 R N A L A E A G I Q L Y P G A C G D A D A Q V E A F L A G S L N Y D P
UniRef90_B1R1M5 K N A L A S N N I E I Y P G A R G N A D E Q V Q S F L S G N L S Y N P
UniRef90_UPI00047D2C5F Y D A L K E Y G I E M F A G A E G S A D E A V E A Y L K G E L E S T
UniRef90_C6B4Y4 T N K L A R R G V R A T G A Y G G S Y I E Q A I D A
UniRef90_R6YRU0 K D A L E A A G I R L Y G G V S G S A D E A V S S F L N G T L S F Q P
UniRef90_U6EAP4 T I E L R K L G I K P I G L D C D V K D A I E
UniRef90_H7ELT9 K S A L A E A G I T L Y G G V S S A D D A V A A L L S G S L N Y N P
UniRef90_H6SN65 R R R L E E A G L V I S E A E A L D Y I E P A I G R
UniRef90_UPI0002481C42 Q K K L E D V G I K V F Q T C G T I E E G L R Y A V K E L S Q N
UniRef90_A1K993 T E K L K A K G I A G V G D Y A W E A I D E
UniRef90_R9IL99 Q N A L A A A G I Q L Y G G I S G N A D E A V S A F L A G T L A Y N P

UniRef90_W8L6C5
UniRef90_C5BTC9
UniRef90_UPI00047DD12D
UniRef90_C6HVB8
UniRef90_UPI0004246836 R A
UniRef90_UPI000465A537
UniRef90_U6EBA4
UniRef90_UPI0002FB68C3
UniRef90_B2JYC0
UniRef90_B4U920
UniRef90_Q46A95
UniRef90_UPI000403017D
UniRef90_UPI000362ADE4
UniRef90_I9LX11
UniRef90_UPI000289E9F7
UniRef90_W6ED10 R F
UniRef90_E8WVN1
UniRef90_W6RJL9
UniRef90_X5A2F6
UniRef90_E6UE49
UniRef90_A6LUZ5
UniRef90_J9DD62
UniRef90_UPI0004720417
UniRef90_R5R7X3
UniRef90_M1WZ25
UniRef90_A1VML0
UniRef90_A1KYD1
UniRef90_E6VSZ6
UniRef90_R5WS96
UniRef90_G2HZ44 K
UniRef90_A6TTX6
UniRef90_V3V0I5
UniRef90_UPI000373E623
UniRef90_D5XC16
UniRef90_UPI0003FB3FED
UniRef90_I3BYB8
UniRef90_B9M0T2
UniRef90_UPI0003B31CC5
UniRef90_X4ZEP3
UniRef90_B0NBS6
UniRef90_S0FRK0
UniRef90_UPI000463A24E
UniRef90_UPI00047B7E2B
UniRef90_I8SF04
UniRef90_W6NHL9
UniRef90_Q47G28
UniRef90_E6U987
UniRef90_UPI00047D298F
UniRef90_D8GL53
UniRef90_F6D757
UniRef90_H2JJN1
UniRef90_W4D7C1
UniRef90_W6RSC4
UniRef90_A7HES5
UniRef90_F8B5P3
UniRef90_UPI00046E9774
UniRef90_K9T9A5
UniRef90_UPI00047B25DF
UniRef90_H8FMN4
UniRef90_Q6NA04 R M
UniRef90_UPI0004224A4D
UniRef90_UPI00046D3BBB
UniRef90_W6S003
UniRef90_F0SXX9
UniRef90_UPI00047BEC7F
UniRef90_H2J2H8
UniRef90_A5N6Z7
UniRef90_E1Y8C8
UniRef90_B5XPG5
UniRef90_E0SI08
UniRef90_UPI000362FF55
UniRef90_UPI0002FFCA90 R A
UniRef90_D8GMG8
UniRef90_B6YRJ3
UniRef90_M1Z4M5
UniRef90_A4FXP2
UniRef90_C6BX24
UniRef90_W4V518
UniRef90_S9TKT5 R A
UniRef90_T2GA32
UniRef90_A6UNA0
UniRef90_UPI00036DC4F3
UniRef90_B1R1M5
UniRef90_UPI00047D2C5F
UniRef90_C6B4Y4
UniRef90_R6YRU0
UniRef90_U6EAP4
UniRef90_H7ELT9
UniRef90_H6SN65
UniRef90_UPI0002481C42
UniRef90_A1K993
UniRef90_R9IL99

UniRef90_E3HYP6
UniRef90_R6UNF4
UniRef90_F2NEQ9
UniRef90_K6U8T8
UniRef90_UPI0004643276
UniRef90_UPI0003B39268
UniRef90_UPI0004700760
UniRef90_C0C6K2
UniRef90_H6LKJ2
UniRef90_UPI0003B4EA8D
UniRef90_N2AK32
UniRef90_UPI0003B68B49
UniRef90_UPI0003B63A5C
UniRef90_G8LYC5
UniRef90_B8DR83
UniRef90_E3HAJ5
UniRef90_UPI00047DC6ED
UniRef90_S7UTM7
UniRef90_W6EGE0
UniRef90_R7NMZ8
UniRef90_UPI00037CA21C
UniRef90_R5C785
UniRef90_F0JD05
UniRef90_UPI00047AA94B
UniRef90_UPI0001C37C3B
UniRef90_UPI000404BFCC
UniRef90_R6K8J8
UniRef90_UPI000407A195
UniRef90_W0DYV9
UniRef90_H7ELS3
UniRef90_UPI0004663056
UniRef90_R6N171
UniRef90_E3PTD5
UniRef90_UPI00039B781C
UniRef90_UPI0001C373F9
UniRef90_R9PKC4
UniRef90_D1KS57
UniRef90_B3E3U3
UniRef90_E0S1U8
UniRef90_D9PU91
UniRef90_K6U0C6
UniRef90_C9LYD9
UniRef90_N1ZK57
UniRef90_G7LK21
UniRef90_G4E8L1
UniRef90_R6VWK9
UniRef90_R5QW30
UniRef90_C1DI38
UniRef90_B8FAB7
UniRef90_R7CQS7
UniRef90_X8K3V3
UniRef90_B1KVVW9
UniRef90_D3E134
UniRef90_A1BEG4
UniRef90_I9MA12
UniRef90_F1TDE8
UniRef90_UPI0003B3C5BE
UniRef90_UPI00037530B0
UniRef90_S9TKS9
UniRef90_G8AYN8
UniRef90_F0T6J0
UniRef90_E6U4G5
UniRef90_A4SFV3
UniRef90_B5JMT4
UniRef90_UPI0004677645
UniRef90_I4CET3
UniRef90_R5L4A9
UniRef90_G7QBS6
UniRef90_D8EZZD5
UniRef90_I0GW84
UniRef90_W3AKN4
UniRef90_X4Z5T7
UniRef90_A5N5V2
UniRef90_G9YS76
UniRef90_G9XDB7
UniRef90_V7I5E1
UniRef90_E8RBV7
UniRef90_UPI00046D63A8
UniRef90_I0X962
UniRef90_E3H8V1
UniRef90_UPI0003B5D742
UniRef90_F3YU44
UniRef90_UPI000479D905
UniRef90_UPI00046963D6
UniRef90_E8N2N3
UniRef90_W6NA25
UniRef90_A0A011QLB7
UniRef90_K6T7H9
UniRef90_UPI000309C626
UniRef90_Q8R8V1
UniRef90_R8WA06
UniRef90_E3HYQ4

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

UniRef90_E3HYP6
UniRef90_R6UNF4
UniRef90_F2NEQ9
UniRef90_K6U8T8
UniRef90_UPI0004643276
UniRef90_UPI0003B39268
UniRef90_UPI0004700760
UniRef90_C0C6K2
UniRef90_H6LKJ2
UniRef90_UPI0003B4EA8D
UniRef90_N2AK32
UniRef90_UPI0003B68B49
UniRef90_UPI0003B63A5C
UniRef90_G8LYC5
UniRef90_B8DR83
UniRef90_E3HAJ5
UniRef90_UPI00047DC6ED
UniRef90_S7UTM7
UniRef90_W6EGE0
UniRef90_R7NMZ8
UniRef90_UPI00037CA21C
UniRef90_R5C785
UniRef90_F0JD05
UniRef90_UPI00047AA94B
UniRef90_UPI0001C37C3B
UniRef90_UPI000404BFCC
UniRef90_R6K8J8
UniRef90_UPI000407A195
UniRef90_W0DYV9
UniRef90_H7ELS3
UniRef90_UPI0004663056
UniRef90_R6N171
UniRef90_E3PTD5
UniRef90_UPI00039B781C
UniRef90_UPI0001C373F9
UniRef90_R9PKC4
UniRef90_D1KS57
UniRef90_B3E3U3
UniRef90_E0S1U8
UniRef90_D9PU91
UniRef90_K6U0C6
UniRef90_C9LYD9
UniRef90_N1ZK57
UniRef90_G7LK21
UniRef90_G4E8L1
UniRef90_R6VWK9
UniRef90_R5QW30
UniRef90_C1DI38
UniRef90_B8FAB7
UniRef90_R7CQS7
UniRef90_X8K3V3
UniRef90_B1KVVW9
UniRef90_D3E134
UniRef90_A1BEG4
UniRef90_I9MA12
UniRef90_F1TDE8
UniRef90_UPI0003B3C5BE
UniRef90_UPI00037530B0
UniRef90_S9TKS9
UniRef90_G8AYN8
UniRef90_F0T6J0
UniRef90_E6U4G5
UniRef90_A4SFV3
UniRef90_B5JMT4
UniRef90_UPI0004677645
UniRef90_I4CET3
UniRef90_R5L4A9
UniRef90_G7QBS6
UniRef90_D8EZZ5
UniRef90_I0GW84
UniRef90_W3AKN4
UniRef90_X4Z5T7
UniRef90_A5N5V2
UniRef90_G9YS76
UniRef90_G9XDB7
UniRef90_V7I5E1
UniRef90_E8RBV7
UniRef90_UPI00046D63A8
UniRef90_I0X962
UniRef90_E3H8V1
UniRef90_UPI0003B5D742
UniRef90_F3YUU4
UniRef90_UPI000479D905
UniRef90_UPI00046963D6
UniRef90_E8N2N3
UniRef90_W6NA25
UniRef90_A0A011QLB7
UniRef90_K6T7H9
UniRef90_UPI000309C626
UniRef90_Q8R8V1
UniRef90_R8WA06
UniRef90_E3HYQ4

50 60 70 80
D L V G F M E F P K A E Q E G D K V I P K L D F V Q E C A A V Y A A S I G A S S
T A T R L L D T N G N G H S A L V T L L K A N Q V D A T L I C G G I G G G A
H L I A E R P A P P Y G N G G L Q R W Q A L A E T L E D C C N G A V I S L S A I G G D S P
L F V E K R D V D P Y C G N G K D K F K R T M N V L E D C C N G I I S L R I R I G G S S A
T F L D V T K F A S Y P R R H D Q L S A R V A S L E E C D V L F C V L G L I N D L L A
UniRef90_UPI0003B39268 T Y L E E R R A N A Y L C H C E G G F D E V T R L L K D V D A V F V L K I G G S S A
UniRef90_UPI0004700760 T F L E V R Q V Q A Y C L G G R A D N G E P V D L F A D C Q A I L C S G I G G S S P
UniRef90_C0C6K2 I S S E V K S T D G Q G H G A L A A A L L S D V D V L I C G G I G G G G A
UniRef90_H6LKJ2 Q E F K E R V T I G K Y C L S G G E D K L G T L L R A L I T D C C N D G V L T M R I G G D L P
UniRef90_UPI0003B4EA8D E E L E Q R F V N P V C L G G H H D V N Q L R G I L D C C N D F V L A A R I G G D G A
UniRef90_N2AK32 E K A Q V V I G T D G N G H G A L A G M L S S L Q V D T L I C G G I G G A G A
UniRef90_UPI0003B68B49 E Y V E E R R L N P L C H C E G G F E A A Y D L L K D T D A L F V L R I G G S S A
UniRef90_UPI0003B63A5C V S A Q V V I G S N G A G H G A L A G V L A E Q Q V N V L I C G G I G G P G A
UniRef90_G8LYC5 E F I E N R M V Q N F C S G E D N L N G I I E A V K D C Q V V I A Q R L G G H F P
UniRef90_B8DR83 Y L V E E R L A P K P Y C G P S R W K Q V A H T L R D C C R A L L C A A F G G A H P
UniRef90_E3HAJ5 E F M E E R E I E K Y C T G D S K E K V I K T L G D C C K M V L S V R I G G Y G P
UniRef90_UPI00047DC6ED Q F V E E R E A P P A G T G D N R W L D M A R T L K D C C R A V L V S G I G G E N P
UniRef90_S7UTM7 A L V D E R P A P A P G G G P D R W Y K L A A A L L V D C C R A V L V S G I G G D T P
UniRef90_W6EGE0 K F I M H R K V E E N C N G T Y P I E I K N A L S D C H L L L T S Q K I G G D C P
UniRef90_R7NMZ8 K T I A S E I V D T N G Q Q G H G A L A G V L H A L N T D L L I C G G I G G E G A
UniRef90_UPI00037CA21C T L L K E V I V D K Y C S Y H P Q F N A I L A A L E G C K A V I T Q M I G G L P
UniRef90_R5C785 S G A Q I V D T N G S G H G A L A G F L K N A D V L I C G G I G G G G A
UniRef90_F0JD05 R L T E E R P A P Q A G C G P Q R W A D L A A L L K D C C R A V L C A A V G G E T P
UniRef90_UPI00047AA94B E E L E Q R F V S P V C G G S H H D S Q K L E A L L D C C N F V L A A K I G G A G A
UniRef90_UPI0001C37C3B E Y K G T R E V E R V C C Q G H Y H N D S V D V L H A V L V A K I G G S G A
UniRef90_UPI000404BFCC T F V E S R K A A P I C R G Q E H D D R Q L K M L E D C D Y V L V S R I G G A G A
UniRef90_R6K8J8 V S D T K I T E D A Q G S G H S A L A T M L D D I N V D A L V C G G I G G N G A
UniRef90_UPI000407A195 K S S E I I G S D G Q G H G A L A G L D N I D V L I C G G I G G G G A
UniRef90_W0DYV9 R L L D E R P L A R Y C N G A E H C D P A L A A L A D C A M V L C S R I G G L A P
UniRef90_H7ELS3 R S I G E R S V R A A C S G G Q C M D K I A E A L S D V Q Y V L A A R S I G T P H A
UniRef90_UPI0004663056 D L L N V G H F E Q A T M K E D K V I A K I E F V G D C A A V Y A A S I G T S S
UniRef90_R6N171 V S S E T V D T G D S G H G T L A G F L A A R D V S T V I C G N M G G A G A
UniRef90_E3PTD5 V N S E K V K E N P G H R P G F L P V F L H E Q G V N V I I S G G M G G G A
UniRef90_UPI00039B781C V V V K K E T V A S P G H G H G I V P H F L A Q Y G V K A V I V G M G E N A
UniRef90_UPI0001C373F9 I N E Q V V I G T N G A G H G A L A G F L K N A D V L I C G G I G G G G A
UniRef90_R9PKC4 Q L L E A L L Q F D Q A K P G H E E R K I K S R I R I D A L A G C A A V Y S N A C G H S A
UniRef90_D1KS57 M L L R V A D F A V F G H Q E D K L S S R I N A L E D C V T L Y C V A I G G E M V
UniRef90_B3E3U3 V L L Y E V I Q A P P Y C G G T D K L A A I A G G L G A C R V V V T A M I G G E S P
UniRef90_E0S1U8 E L V S S K V S G T N G T G H E A Q L A D L L S D E D V D V L I C G G I G G G G A
UniRef90_D9PU91 E F V E E R T V D J A E S D K H Q W R K V L D S I M D D V V I A I Q V I G G L K G
UniRef90_K6U0C6 K F I E L R E N K P T C H S E L S M E K S V K L I S D C Q T V L A G Q I S S G A
UniRef90_C9LYD9 E K S E V V S T Q G S G H G A L A G L L K E N E V D A L I C G G I G G A G A
UniRef90_N1ZK57 E L I K N K E F V S T D G S G H E A L A D F L T V H S V N V V I C G G N I G S G A
UniRef90_G7LK21 I P L G E R F T Q R Y C R G G S A L E R I I D T L H D C A A V L C C A K V I G L A P
UniRef90_G4E8L1 W P L E T R E V L P Y C A G S S A L E R I I D T L H D C A A V L C C A K V I G G F F E A
UniRef90_R6VWK9 V V A S E V V D T N G Q G H G A L A G L T A L K A D V L I C C G G I G G G G A
UniRef90_R5QW30 V L S S E V M S S N G T G H G A L A G L L A E Q G V D V L I C G G I G G G G A
UniRef90_C1DI38 E L L G V G E F V Q A N M P E D K V I A K L K F L E G C S A I Y A A S I G T S S
UniRef90_B8FAB7 Q L L E A R T P A A N G M E R W E Q L A E T I S D C G T L L V S G I G P N P
UniRef90_R7CQS7 V S S E V I G S N G T G H G A L A G L L A E Q G V N V L I C G G I G G G G A
UniRef90_X8K3V3 Q E S K L V E V T A E G G H G A I A G L L K E S E V D A V I C S G I G G E G A
UniRef90_B1KVVW9 L N K N F T P N P G H R P G Y L P V F L K E L N V N V I I A G G M G E T A
UniRef90_D3E134 S F I E H R T V E I E K D S K H Q N P K I I K A L A D C E V A I C E E F G G F K A
UniRef90_A1BEG4 S L L D S R A A P P S G G G Q E R W K A L A D L L K D C C R A L L V N G A G D S P
UniRef90_I9MA12 T F L E S R D N I S P N S H A H E R A S T A D L L T D V E V V L A K Q I G P G A
UniRef90_F1TDE8 S R K E F I P N P S G H R P G F L P N F L N D V N V I I S G G M G G G A
UniRef90_UPI0003B3C5BE V S S E V I S N G S G H G A L A G L L G D K G I D V L I C G G I G G G G A
UniRef90_UPI00037530B0 H F F E E R L I E A P C H H D E S A L E K A V L A V V D C R Y V L C A Q I G G G A
UniRef90_S9TKS9 D A I E C R D I A A F A Q G E D R R D T I C R M L A D C Q V L L V A K I G P N P
UniRef90_G8AYN8 E L H G I G E F D P A H P P E D K V A V K I A F L D G C A A V Y A A S I G V S A
UniRef90_F0T6J0 E F S E I R E K N G M D N H Q E R W L A S L D L V E D C C A V L C S K I G V K E P
UniRef90_E6U4G5 I Q D R S V L N T N G N G H A L A G I L K Q A G V D V L I C G G I G G E G A
UniRef90_A4SFV3 R F I E T R P A P P T G G G N R W E A L A E L F S D C C R A V L S S G A G G S P
UniRef90_B5JMT4 E F L A F R P A P P L G G R D D R W A Q L A H T L K D C C R A I V N A A G M A
UniRef90_UPI0004677645 M F V Q H R K I N S A Y G S E D N I K E I S D V L K D C K L L L T A K I G E T P
UniRef90_I4CET3 Q L I E K R P A P P G L G A E R W T R L A E V L H D C R A V L V E N V I G G D T P
UniRef90_R5L4A9 K I L N S E V V D T N G T G H G A L A V F L A L R V K A L I C G G I G A G A
UniRef90_G7QBS6 S F V E D R W A P D P G A G P K R W E L A K V L S D C R A V L V A A Y G E T P
UniRef90_D8EZZ5 T L I E T R K T P E P G G G L K R W E L G A L I G D C R A L L V A G I G G D N P
UniRef90_I0GW84 K E S H I L S N S N G V G H G A L A T L L Q E E D I N T A L I C G G I G G G A
UniRef90_W3AKN4 I S S Q I V G T N G E G C G A L A G I L N V A Q V D V L I C G G I G G G A
UniRef90_X4Z5T7 T L V E V R T T G S E G H S Q E Q G L N Q I I A L I S D C S T V L V S R L I G M G A
UniRef90_A5N5V2 K N E E F K P N P G H K P G Y L P V F L K E L D V N I V I S G G M G A T A
UniRef90_G9YS76 V S A R V V I E T G S G H G A L A G F L R G L G V D T L I C G G I G G G A
UniRef90_G9XDB7 K S S R V I D T N G N G H G A L A G F L R A A E V E T A V I S M R I G G A G A
UniRef90_V7I5E1 R F R E R R S V S K Y C G G N G R A L E D I L T V G D C C S A V V S M R I G G E P
UniRef90_E8RBV7 R H I E D R Q A P P A G G G I Q R W F N I S R L A D C C R A I L V N D L G G D S P
UniRef90_UPI00046D63A8 L L V E E R P A P P P G G G P D R W R E L A E G L G D C C R A V L V S R I G G E P
UniRef90_I0X962 D L V E K R S V T P V C L G D G S H M E S V K Q F K D C C K Y V V A S R I G G A G A
UniRef90_E3H8V1 I L I T K E F V D A P P H E P G L L P K F L G E L N I N T I I T G G M G Q R A
UniRef90_UPI0003B5D742 K L V H E E I V D T N G Q G H G A L A G F L F G G K V D T L I C G G I G G G A
UniRef90_F3YUU4 R M V G V R Q A P E P G G G E R W K G L A E T L A D C C A L L V A D A G E T P
UniRef90_UPI000479D905 V K T E A V S N P G H R P G F L P V F L N D V N V I I S G G M G G G A
UniRef90_UPI00046963D6 Q Y V E E R E M P D K G G G D Q R W I D V A R L L L D C C R A I L V A G I G G E N P
UniRef90_E8N2N3 V N T E M R E K E V H Q H H D D E Q E H M F D L L K D C Q V L I S G G M G T P A
UniRef90_W6NA25 S G K R L V E L S I E Q S L H A S H H Q L A E P L A G D I N T L I T G G M G P G L
UniRef90_A0A011QLB7 E F I E Y M E N N N P S E K H A S W Q E G L N L G D C E V I I A S Q A G M K A
UniRef90_K6T7H9 Q T R Q L L Q I T K D Q S F H E S S P K D A H P L D T V Q V M I S G G I G R G L
UniRef90_UPI000309C626 K N S S F L P N P G H R P G F L P Q E F L K G V D C V I S G G M G M S A
UniRef90_Q8R8V1 E L I D P M G E G H G A L A G F L Q A H G V D A L I C G G I G G G A
UniRef90_R8WA06 V L V E K R S I S E A L E G E D V R D T A C R I L A D C K V L L L E K V I G A N P
UniRef90_E3HYQ4

UniRef90_E3HYP6 I R R L M A L G V Q P I I V D E G H D I D L L N E V S L A I V H G G L P W V 120
UniRef90_R6UNF4 K N A L A E A G I E L Y G G A C G D A D A Q V T S F L N G N L Q Y N P
UniRef90_F2NEQ9 R E V L R K Q Q G I M P V V M Q G F I D Q G L Q V V Y R G G D P
UniRef90_K6U8T8 T N K F K S K G I E V F M T C E E V I E G A V L K A A E S I I K G
UniRef90_UPI0004643276 A V R I R D A G V F P V K M E T V R E T D E V L A S L Q W R M N H N P P L W I R
UniRef90_UPI0003B39268 A Y H M I R Q G I R V F F E A H G F I D K I V S E L L D E
UniRef90_UPI0004700760 R S K L L R Q G I A A I S G K G D I E E L L
UniRef90_C0C6K2 R N A L S E A G I D L Y P G A V G E A D A Q A A S F L A G T L S Y D P
UniRef90_H6LKJ2 T K R L E C K G I K V F F S T Y D R I E D A V K
UniRef90_UPI0003B4EA8D V Y E L R E K G I A A F E M P G S V P D G L R R L D G Y L K
UniRef90_N2AK32 Q N A L A E A N I R L Y G G V S G S A D E A V E A L L A G T L S F N P
UniRef90_UPI0003B68B49 A G Y M I Q H G K R V F E A H G F I E N I V N E L I G
UniRef90_UPI0003B63A5C Q A A L T Q Q G I E L C A G A E G D A D E A V E A Y L R G E L
UniRef90_G8LYC5 Q K V L E E Q G K L V T I Q A Y G F I D E E T C K
UniRef90_B8DR83 E G L L V A A G V K P V E A S G F I E D A L E
UniRef90_E3HAJ5 K Q M L R S N N I Y T Y E L Y D T I E D G I N
UniRef90_UPI00047DC6ED K A I I G S C G V R I I E M T G L I D E G L D G I Y N
UniRef90_S7UTM7 R T V L E E E G I V P V E M E G F I D E G L A V Y Y G
UniRef90_W6EGE0 Q K E L E S I H L T C D E S F A D E P I E I S V L K G V R K H
UniRef90_R7NMZ8 I N A L K A E N I K L F G G V S G D C D M V V N G Y L S G M L N Y N P
UniRef90_UPI00037CA21C K Q E L A K K V G I T P I V T T G L I A E A L K
UniRef90_R5C785 R N A L L E A G I E L F P G A C G D A D A Q V E S Y L A G N L N Y D P
UniRef90_F0JD05 R L V L E E H D I K A H T V D G F I E D A L R F V
UniRef90_UPI00047AA94B A Y E L K E S H G I A S F E M P G E V E N S I F R L D G Y I K
UniRef90_UPI0001C37C3B S Q Q L E S R G L T V Y E A P F P V E P L V E K I
UniRef90_UPI000404BFCC R A A L E Q N Q T E V F E L P G Y I E D S V R R L
UniRef90_R6K8J8 M E A L V Q M G I E V C S G V S G D A D E A V A E Y L N G S L E S Q
UniRef90_UPI000407A195 K T A L D E K G I E L C A G A E G D A D E A V A A Y L R G E L V N T
UniRef90_W0DYV9 W E R L E T A G I R P N G E L A M L P T E Q A L R A A H R E L A E Q
UniRef90_H7ELS3 I R A L A K Y G V T A F D I V L P I G E A I S K I N D Y R K K T
UniRef90_UPI0004663056 I R R L M N A G I Q P V I V D Y G H E L V D L L N E V S F A L V H G G L S W V D
UniRef90_R6N171 Q N A L T E A G I Q F V G G V A G N T D D R V Q E Y L E G R L C Y Q P
UniRef90_E3PTD5 I E I F N E K N I E V I T G A K G E L E N T I N S Y L S G E L K S T
UniRef90_UPI00039B781C I Q R C Q Q Y G E P I L S I Q G P I D T V I D Y L K K Q L Q S V P V P
UniRef90_UPI0001C373F9 K M A M Q E A G I T L Y G N M G S A D E A V Q A F L A Q T L N E N P
UniRef90_R9PKC4 N E L L K Q Q G I C S L M V D S D T E L S V L L Q E I H L Q F V H Q P L P W M
UniRef90_D1KS57 F R Q L L Q I G V R A V R V P A S T T I G E L L G E I
UniRef90_B3E3U3 K E E M E R L G I D I I S L S G P I I D V L K E V
UniRef90_E0S1U8 M D A L E S N S I T V C S G A S G D A D E A V K N Y L S G A L E S T
UniRef90_D9PU91 K M G I E D A G L K F V A D E G P V G E V L E R W V R
UniRef90_K6U0C6 I D I L L K K N I N P Y I A P T F I E D A L E Q L A G L
UniRef90_C9LYD9 I E A L T D A G I R V Y A G V K G A D E A V A Q H L A G T L E Y T
UniRef90_N1ZK57 K N A L R E K R I E L I P G V S G T A D D M I V K Y L S G E K M G N P
UniRef90_G7LK21 W Q R L E S A G I E P C V S G A W Q P V R E T L E R
UniRef90_G4E8L1 W Q G L E A A G I L P S G E H D G L M I E Q A V I G I Y R E L
UniRef90_R6VWK9 Q M A L A A A G I K L Y G G V S G S A D A A V E A L L A G N L D Y N P
UniRef90_R5QW30 K D A L T E A G I T L C A G A E G N T D Q A V E A Y L A G E L V I S T
UniRef90_C1DI38 I K R L I M A G I Q P I I V G T G Q T I E D L L N E V S L A L H C G G L S W V
UniRef90_B8FAB7 Q Q V L S E S G V K V L E I E G L I D E A V R A V F A G Q P
UniRef90_R7CQS7 Q T A L T E A G I E L C A G A Q G N T D Q A V E S Y L K G E L
UniRef90_X8K3V3 Q T A L A E A G I E L Y A G V S G D C D E A V E K L L A K T L E Y S
UniRef90_B1KVVW9 Q D L F N E N G I E V V G I Q G F S D D M A Q K Y I Q G E L K S T
UniRef90_D3E134 S I F A E D A G L K L V K D E G T V E E V L K K
UniRef90_A1BEG4 T K V L N A N G I E V M V L E G M I E D A V
UniRef90_I9MA12 E Q E L R N K G I L A L S V N S S I E K A L Q A
UniRef90_F1TDE8 I E I F N E K G I E V I T G A S G D A E T V V Q N Y L Q G S L K S T
UniRef90_UPI0003B3C5BE F S A L E E N G I E V C A G T S G N T D E V V E A Y L S G N L E S S
UniRef90_UPI00037530B0 E R V L E I Q G I Q A I A V R D F I E N A M K L I A Y
UniRef90_S9TKS9 Q E K L A R A G I E A S D R H A G R P I I E A V A E
UniRef90_G8AYN8 T K R L M E A G I Q P I I V D K G H D I L D L L N E V S L A L V H G G L G W V T
UniRef90_F0T6J0 S I E L M K L G I K P I K L D
UniRef90_E6U4G5 R Q M L S A A G I Q V V S G I E G R V E D T V N T Y L A G N L
UniRef90_A4SFV3 T K V L N A S G I E V M V L E G V I E D A T I
UniRef90_B5JMT4 K E A L H A A G I Q V I E M A G M I E A G L S H L Y E E L P P S L R
UniRef90_UPI0004677645 K N E L L N E G I S V D D S Y A F E P I E S V L N A A R K Y F N
UniRef90_I4CET3 R A V L S E H N I P V I E M T G L I E M G L E A V Y N
UniRef90_R5L4A9 Q N A L A D A G I Q L Y G G V S G S A D A A A Q A F L K S E L K Y N P
UniRef90_G7QBS6 R K V L S A S G I L P Y E C S G F L E T A L A E V Y G
UniRef90_D8EZD5 R R V L K Q K G I D I L I E V D G L I E E A V A A V
UniRef90_I0GW84 Q N A L A Q A G I T L Y G G V Q G D A D A A V N D F L A G K L A Y D P
UniRef90_W3AKN4 Q R A L Q E A G I R L C A G V S G N T D E A V D A F I K G T L
UniRef90_X4Z5T7 S E E L K E R G I A F S T D Y I S L K H A Q E K L V I T V
UniRef90_A5N5V2 Q E I F N E N G I E V V V G A E G L C S D T V E K F I K G E L K S T
UniRef90_G9YS76 R S A L A E A G I Q L Y P G A S G S A D A Q V E A L L A G S L A Y D P
UniRef90_G9XDB7 R N A L K R E V G I K L L P G V T G N A D E M V K N Y L S G N L E Y N P
UniRef90_V7I5E1 K E K L R T R G I A S F T Y D R I E D A V K A V Q Q Y L A G
UniRef90_E8RBV7 R E M L K K R G I Q P V A M A G F I E R G L E A V Y T
UniRef90_UPI00046D63A8 R A I L T E A G V P L E M D G F I E L G L S A V
UniRef90_I0X962 L Q A L T S S G I J S M E L P G S I D D A I L K V
UniRef90_E3H8V1 I D I L F T A Q N I D V I L G A S G K I D N N L K E F T G
UniRef90_UPI0003B5D742 Q V A L S E A G I K L Y G G V S G N A D E A V K A L I E E R L D Y N P
UniRef90_F3YUU4 R A A L A G H G L Q V R R V S G F I E D A V A
UniRef90_UPI000479D905 V D I F N E K N I E V I T G A Q G K A E D L V N S Y L L G E L K S T
UniRef90_UPI00046963D6 A S I L K E C G I R V V Q M T G M I D E G L D G I Y N N L
UniRef90_E8N2N3 F E R A R Q G I E V I L T G E R S I E K A L Q A Y L K G V L E S D L R
UniRef90_W6NA25 I D I F S E K N I E V I V G A K G N A K A V E A Y L Q G F L K S T
UniRef90_A0A011QLB7 F E R L M Q S G I L P V V T M E E D P D A A V S A M L G N R L E R L P V P
UniRef90_K6T7H9 K Y G I K K A N L K L V E D E G T I E V L E R F
UniRef90_UPI000309C626 A R R L E S K G I Q P L I T A E T D L D V A V M A Y L T D T L
UniRef90_Q8R8V1 I E L F N N Y G I D V I T G A E G E V D K V V K K Y L V I T L M A S N S P
UniRef90_R8WA06 R V A L A Q A G I T L Y P G V T G D V E A V I A L A Q G T L N Y N P
UniRef90_E3HYQ4 R A M L E A A G I E P I E K Y K G E Q V I E T A L A A V

UniRef90_E3HYP6
UniRef90_R6UNF4
UniRef90_F2NEQ9
UniRef90_K6U8T8
UniRef90_UPI0004643276 R
UniRef90_UPI0003B39268
UniRef90_UPI0004700760
UniRef90_C0C6K2
UniRef90_H6LKJ2
UniRef90_UPI0003B4EA8D
UniRef90_N2AK32
UniRef90_UPI0003B68B49
UniRef90_UPI0003B63A5C
UniRef90_G8LYC5
UniRef90_B8DR83
UniRef90_E3HAJ5
UniRef90_UPI00047DC6ED
UniRef90_S7UTM7
UniRef90_W6EGE0
UniRef90_R7NMZ8
UniRef90_UPI00037CA21C
UniRef90_R5C785
UniRef90_F0JD05
UniRef90_UPI00047AA94B
UniRef90_UPI0001C37C3B
UniRef90_UPI000404BFCC
UniRef90_R6K8J8
UniRef90_UPI000407A195
UniRef90_W0DYV9
UniRef90_H7ELS3
UniRef90_UPI0004663056 R A
UniRef90_R6N171
UniRef90_E3PTD5
UniRef90_UPI00039B781C
UniRef90_UPI0001C373F9
UniRef90_R9PKC4
UniRef90_D1KS57
UniRef90_B3E3U3
UniRef90_E0S1U8
UniRef90_D9PU91
UniRef90_K6U0C6
UniRef90_C9LYD9
UniRef90_N1ZK57
UniRef90_G7LK21
UniRef90_G4E8L1
UniRef90_R6VVK9
UniRef90_R5QW30
UniRef90_C1DI38
UniRef90_B8FAB7
UniRef90_R7CQS7
UniRef90_X8K3V3
UniRef90_B1KVV9
UniRef90_D3E134
UniRef90_A1BEG4
UniRef90_I9MA12
UniRef90_F1TDE8
UniRef90_UPI0003B3C5BE
UniRef90_UPI00037530B0
UniRef90_S9TKS9
UniRef90_G8AYN8 R A
UniRef90_F0T6J0
UniRef90_E6U4G5
UniRef90_A4SFV3
UniRef90_B5JMT4 Q
UniRef90_UPI0004677645
UniRef90_I4CET3
UniRef90_R5L4A9
UniRef90_G7QBS6
UniRef90_D8EZD5
UniRef90_I0GW84
UniRef90_W3AKN4
UniRef90_X4Z5T7
UniRef90_A5N5V2
UniRef90_G9YS76
UniRef90_G9XDB7
UniRef90_V7I5E1
UniRef90_E8RBV7
UniRef90_UPI00046D63A8
UniRef90_I0X962
UniRef90_E3H8V1
UniRef90_UPI0003B5D742
UniRef90_F3YUU4
UniRef90_UPI000479D905
UniRef90_UPI00046963D6
UniRef90_E8N2N3 R
UniRef90_W6NA25
UniRef90_A0A011QLB7
UniRef90_K6T7H9
UniRef90_UPI000309C626
UniRef90_Q8R8V1
UniRef90_R8WA06
UniRef90_E3HYQ4

1 10 20 30 40
UniRef90_Q3Z7D4 K V A V A S Y E G V L V N Q H F G M A E Q L F I Y Q R T D S G Y
UniRef90_B8G297 M L A F A S K D D G G K F V V S N E Q H F G H S P Q F Y I V F E I V N E S S W
UniRef90_A7H949 MK V A F A S T R D D G M H V V A E H F F G R R A P Q Q L V V F E I V T Q A A G H
UniRef90_H5XTE3 E L K M K I A V A S D N D G M V V T G H F F G H C Q G F S Y I F E I V E K N G
UniRef90_F6DVA2 K I A V A S E K E L V V T G H F F G H C Q N F S Y I F E I V E K N G
UniRef90_Q56JU5 P V L V A V A S R D G H G K V V S N Q H F F G R A K E S F M F I F E S E D N G V V
UniRef90_G8QTY4 MK I A V A S D N G N V V S G H F F G H C Q S F M L Y F D E S D N G S
UniRef90_C7LPB4 V A V A S S T G K T V V D M H F G Q A S E F R L Y G R D D Q G M V
UniRef90_R1CXLS MK V A I A V D G K S V S Q H F F G H C Q F N F Y E V E S D S E I
UniRef90_UPI0004280A06 S Y K V A V A T S S D G K Q V V D D L H F F G E A D K F L I Y T V S D S E I
UniRef90_UPI000369836B E K R P Y V A I S S R E G L L I N N Q H F F G E T K S F Y I W G E D D Q K G F
UniRef90_UPI00035D7879 V A I S S R E G L L I N N Q H F F G E T K S F Y I W G E D D Q K G F
UniRef90_UPI000479FF2D V A V A S R S D G E Y V V D D H F F G Y A K S F D L Y R V G K A G G V V
UniRef90_R5QW18 MK V A V T Y E N G E V V F Q H F F G H S E A F K L Y E V E G G G G V V
UniRef90_E9SDT5 K G T D N M K I A V A S R S D G E Q V I F Q H F F G H T E A E R F F Q I Y S L E S P A G V V
UniRef90_Q6D307 V A V A S S H G E V I D Q H F F G H T E E Q F K L Y D I E N Q K V
UniRef90_D4JC06 MK I A V A T R E D G A L I D N E H F F G H T E E Q F K L Y D I E N Q K V
UniRef90_I5B6E9 V A L A T R E D G A L I D N E H F F G H T E E Q F K L Y D I E N Q K V
UniRef90_S7VH36 Y K I A V P S Y E N E K I V E D E H F F G H C Q Y F T V F T D N Q D D K A
UniRef90_G5GRD1 Q D K G E H T M R I A V P Y E N E K I V E D E H F F G H C Q Y F T V F T D N Q D D K A
UniRef90_R7K782 MK V A V T Y E N D G K V F Q H F F G H T E Y F K L Y D I V K D G K V
UniRef90_R7BSJ3 M R I A V T Y K N G N I V F Q H F F G H T E Y F K L Y D I V K D G K V
UniRef90_UPI00046F5BD3 R V A I G S S D G Q W I D Q H F F G S C E Q F M L Y D V S A E G W
UniRef90_R9MCJ5 M R L A V P Y E D G Q V V D M H F F G H T E Q F K F Y D V E N G L V
UniRef90_W1U1Q2 E K I M K F A V A T R S D G M T V D M H F F G H V S E F Y I Y E Y R H G S A
UniRef90_R7L7N6 MK I A I T Y E N G K V V F Q H F F G H T E K K I K I Y Q I N N G G
UniRef90_R6TM18 MK I A V T Y E N G S V V F Q H F F G H T E Q F K L Y E V E Q N D G K V
UniRef90_C7H1P6 MK I A I P Y E N G M V V F Q H F F G H T A E F K F Y E V E Q N D G K V
UniRef90_B5YHR6 M R L A L A T E N G H V A Q H F F G R C P G F T V V D I E N G K I
UniRef90_H2J7P7 MK I A V F G T K D G V S H L D E H F F G H S E L Y V Y E Y D D G N F
UniRef90_R6LH94 MK I A V T Y E G G V S V S G H F F G H C E G F T T Y D V E N G K A
UniRef90_D8GTY5 MK I A I A S D G K Y V S G H F F G H C E G F T T Y D V E N G K A
UniRef90_C4XQV7 K I A I P S R D G Q V V D E H F F G H C S E F T V L T I G P D K A
UniRef90_B7C9Z6 M R I A V S Y K D G E V F Q H F F G H S S E F K V I D T D H N E I
UniRef90_UPI0004657516 V A V A S R E G L L V N M H L G E A H K F Q I W K Q E G S D A F
UniRef90_F4LTC7 MK I A I P T D K G Q V V S A H F F G H C E E F T I Y D V I N E S E K
UniRef90_D4MPJ8 K G D A V M R V A V T Y E N G M V V F Q H F F G H T S Q F K L Y D I E N S G R V
UniRef90_H7ELS9 S Y K V A V A S A S G M V S V D S H F F G K S R S F F V Y S V D D D G Y
UniRef90_R6Y2B3 MK I A V T Y E N G Q V V T E H F F G H T A Q F K L Y Q V E S T G V
UniRef90_B3QG75 K V A I A T G N G V G V F T H F F G Y A T D F Q I W D V S T S T P
UniRef90_UPI0003B7A9BD V A V A S S A S G M E V D L H L G Q A P Q F L I Y G R R E G L P
UniRef90_E6UE54 Y K A F A S S D G E N I D E H F F G A A K K F Y I A E I T D K D D Y
UniRef90_S9SDQ0 P Q P H L K A F A S T N S L A W V D A G F V R A R H L V F Y A E I P T T R A
UniRef90_D7CK08 M R T A V A S R E G D M V S E H F F G H C E Q F V L F D V E G T N V
UniRef90_D9RSU6 M R V A V A S D G S M V S G H F F G H C E Q G F T L Y D V D N V E
UniRef90_S9TKS5 M E R D H L R L A I T T N S L Q C D A N F I S A K Q M V F Y H V G A S W S
UniRef90_D6GSL6 Q Q K G N N T M R J A I T Y E N G Q V V F Q H F F G H T A Q F M M Y D I E N N T I
UniRef90_UPI0004261548 S Y L I A V A T S D G E L I D T H F F G H A D S F L L V E D D D G Y
UniRef90_A4XMA1 R V A I A T S D G K L V N R H F F G N S G N F L I V D F D D G C
UniRef90_D5V3N9 V A V A T T A G E G T V N L H F F G N A T E F L I Y E V G D K A I
UniRef90_I4D266 MK I A V A S N G M V V A E H F F G H C H S F S I F Q V E N N
UniRef90_F8C308 M R V A I A T E G D M V A Q H F F G H C P G F T I V D I E N G K I
UniRef90_R6QX54 MK I A V T Y E N G D I F Q H F F G H T E Q F K I Y E T A D G E V
UniRef90_B4S9I2 V A A T S M E G V L I N Q H L G E A E R F L I Y A L D K A E T E
UniRef90_B5XPF5 V A V A S R S H G E V I D C H F F G H A D R F S I Y S L S A A G M
UniRef90_G2HB97 V A V A S S D G F D V D E H L G H A R Q F L V Y D L M T G P V
UniRef90_L0R877 S Y K I A L P S R D G V I D D G H F F G H C E A F T I E T L D D S K N Y
UniRef90_UPI0003B43CA9 S Y Y I A V A T S D G E L I C Q H F F G H A S F L I L E V D D G N Y
UniRef90_R5E991 M R J A I P Y E D G V V V C Q H F F G K A P Q F K I F D V Q P Q G V
UniRef90_T2IAP3 L L V A V A T K G N R L V N D E H F F G H A K E F Q I Y E V D G T E V
UniRef90_K2PDS3 MK V A F G T I D G K K I I D E H F F G H S N I Y V V Y E F D G E N F
UniRef90_L0F481 MK I A L P S R Q N R J I D D H F F G H C E Y F T I Y T V D N N S K
UniRef90_UPI0004746278 MK I A V A S E G R L V A Q H F F G H C E E F F N V Y T V Q E G K A
UniRef90_UPI0003B375B5 MK L A V T Y A G G D I V F Q H F F G H C T E E F K I Y E I E D D K V
UniRef90_T0PLV1 MK I A L P S R N N S I D S H F F G H C E Y F T V F T V D T N T K
UniRef90_E8REU7 R V A V A S A T G M E V D L H L G Q A K T L L V Y E G P R E D G V
UniRef90_B3QSD4 M L I A V A S Q N R K E I T G H T G R C H R F W I Y E M V D G K I
UniRef90_D8FZ17 MK I A L A S Q N K T A I T E H A G H C R K F W I Y E T N A T E I
UniRef90_A1VH32 K I A L P S R D G I V D E H F F G H C E Y F T L A T V D E G R R
UniRef90_C0EC77 M R V A V T T E N N Q V F Q H F F G H C Q L F T I A E V E D G K
UniRef90_I4A7R7 L K I A V A S E E E R V A E H F F G H C V N F N I F E A E K S Q
UniRef90_A5UKZ0 M R I A L A S S N G D I V D L H L G K A V S L V I Y D V V D N D F
UniRef90_F0RUP8 L K V A A S E N K M V C G H F F G H C E T F E V F D T E N G
UniRef90_F0JFT8 M I A I A L P T R E G L I D D H F F G H C D H Y T L V T V E D N R I
UniRef90_A0A010ZEU3 MK I A V T Y D N G E L I F Q H F F G K T E Q F K V Y Q I E E K K I
UniRef90_R6BG14 MK L A V S C N G N Q I W A H F F G H C E N F M V Y E A E N G V I
UniRef90_UPI0003B73370 V A V A T R E G V L V N Q H F F G E A T H L N I Y D L G L D V P
UniRef90_I3VXW5 MK I A I A T D G R S V V S M H F F G H C E G F T I F N V E E D K I
UniRef90_H1XS34 MK V A I V T D G Q F V S S Q H F F G R S K Y Y K V Y T I E D N Q I
UniRef90_E2ZC27 MK I A V P Y E D G K V V F Q H F F G R A R E I K L Y T V E N G A V
UniRef90_UPI0003B62C24 Y K V A I A S T D G E T V N Q H F F G K A E K F Y I Y S I D D Q G Y
UniRef90_UPI000370092B MK I A I A S N K R V A E H F F G H C E D F A I Y D I S V N K Y
UniRef90_UPI00040E413A M I A V P Y E N K Q V F Q H F F G K T E T F K I Y E V S D G R I
UniRef90_V4IH00 V A V A S S T G T H V D L H L G K C S H L L I I G P D E N Q I
UniRef90_F0SVZ8 MK I A V A S E G P M V S E H F F G H C S S F F I F D T E K E Q I
UniRef90_B8CZ66 MK I A V P S E G N K I S P H F F G R C S Q F T I I D V N D G G L
UniRef90_UPI0004098B31 P Y K I A V A S S D G V N I D V N F F G A A H K F L I Y E V G E G E Y
UniRef90_UPI0003732F80 M L I A I P T K N G N V D N H F F G H C A Y Y T F Y T V D E N K N
UniRef90_UPI0003B3BD20 MK L A V P I E G E M V A E H F F G H A P Q F A I Y E V D G D G I
UniRef90_A2SSB9 D M R F F G R A P Y F A V I N L A A N T A
UniRef90_U2L974 R I A F A C D G G F V S P H F F G H C H V L I Y T V A N K
UniRef90_F6CJ65 MK I A L P N D C G R V N Q H F F G R S E E F V I F E M S G Q E I

UniRef90_Q3Z7D4 V F A E E T R P T P E K G G G E E R W K K L A E I I G D C Q A L L V N G I G E T P 80
UniRef90_B8G297 T F A E R R E N S P P P C H D D Q T F A D S I S L L S D C C Q V L F A V K V I G G S Y A
UniRef90_A7H949 R L E R V S P F E S P D P G R Y G T D F E R L R A I A G C C S I V Y V S A I G G P S S A
UniRef90_H5XTE3 Q I V I S E S E T P P N P G T H K P G F L P N F L N D V K V I I S G G M G G S A
UniRef90_F6DVA2 R I I K S E S V P N P G T H K P G F L P N F L N D V K V I I S G G M G G S A
UniRef90_Q56JU5 Q F V G I R K T E V S Y P C H G G T E T M K E I T Q T V Q D C A L L L S S G G M G D A P
UniRef90_G8LPTY4 V V K T E T V A N P G S H K P G F L P V F L H E K G A K V V I S G G M G G S A
UniRef90_C7LPB4 G L I G T R P A P A P G G G S R W E G V A E V L S D C T Y L L V A S V G P K P
UniRef90_R1CXL5 K N S H F V P N P G H R P K G F L P K Y L A E K G I N V I I T G G M G N T A
UniRef90_UPI0004280A06 T F S E T R I L Y D E S K K S D G E L H K K I E L I K D Q R V V L S G K I G F G I
UniRef90_UPI000369836B S L I E E R K V P P K A C G P K R W E E L A L L L N D C R T V L T A A I G G E T P
UniRef90_UPI00035D7879 Y F V E S R K T P K P G G G S K R W E D L S D M L S D C R A L M V T G L G D S P
UniRef90_UPI000479FF2D E A L A A R D I E A Y C R G G Q N R M S R A L H T L E G V D V L L C S R I G L P P
UniRef90_R5QW18 K S S E V V P T N G S G H G A L A G F L R E R G V E V L I C G G I G A G A
UniRef90_E9SDT5 I S E Q V L G T N G A G H G A L A G F L K V M G A D V L I C G G I G G G A
UniRef90_Q6D307 V L V N E R F T P K Y G G S E E R L S A L L A L L A D V D A V F C C R I G G F P
UniRef90_D4JC06 V A S E V V G T N G S G H G A L A G F L A E H Q V Q V L I C G G I G G G A
UniRef90_I5B6E9 T F V E T R V L P K P G G G D A R W Q N L A R T I K D C H T I L V S G Q T P
UniRef90_S7VH36 V V G E E T F T P P P Q C G G C K S N L V G T L R D M Q V K V L I G S N M G D G A
UniRef90_G5GRD1 Q A S E V V D T V G E G H G A L A S F L H N A K A D V V I C G G I G A G A
UniRef90_R7K782 V G S E I L P T D G S G H G A L A G F L A A H K A D A L I C G G I G G G A
UniRef90_R7BSJ3 I K T E L I D T N G S G H G A L V G V L S A V K A D V L I C G G I G G G A
UniRef90_UPI00046F5BD3 T L A E V R K T G S D G H S Q E Q L N K I I G L L S D C S T V L V S R I G M G V
UniRef90_R9MCJ5 V K E Q L A D T S G S G H G A L A G F L K A A K V D V L I C G G I G A G A
UniRef90_W1U1Q2 M F L E R R T I E K Y C N G E N K I D K L Y T I L S D C S G V I T G R I G E E P
UniRef90_R7L7N6 K I V S E N I V D T S V C G H E K L V E F L K N N I D I L I C G G I G Q G A
UniRef90_R6TM18 I S T Q V V D T N G S G H G A L A G F L A A Q K V D S L I C G G I G P G A
UniRef90_C7H1P6 T A S E V V S T N G Q S G H G A L V G F L A Q H N A N V V F C C G G I G P G A
UniRef90_B5YHR6 N S K N F I E N P G Y K A H Q P G A V P M F L R N Q N V D C V T A G G M G P N A
UniRef90_H2J7P7 K K V E E I K N P A E T H M H A K V E E I L E F L G H C K V W V G L S M G K G S
UniRef90_R6LH94 T S M Q I V H A G G A G H S A L A G F L S E Q S A N I L I C G S I G E K G A
UniRef90_D8GTY5 S Q G Q F T A N P A E G H R P G Y L P V F L K G V N V I I A G G M G E T A
UniRef90_C4XQV7 V V A E E T F S P P A E C G C K S N L V N D L L A Q N V T A L V A G N M G Q G A
UniRef90_B7C9Z6 I K S E I I T V E G H G H V G V S N A L K E Q N V N I V L C G G I G Q G A
UniRef90_UPI0004657516 V F V E E R F A P E P G T G T K R W I D L A K L L S D C R A V L I A A C G E T P
UniRef90_F4LTC7 R V N S K E C I T N P G H Q P G F L P R F L A K Q G I N C I I A G G M G L K K A
UniRef90_D4MPJ8 T A S E I A D T N G S G H G A L A G M L T A M K A D V L I C G G I G G G A
UniRef90_H7ELS9 D F L E R R T V S Q L C M D G S H M D E R A G L F S D C R Y I V A S R F G D C A
UniRef90_R6Y2B3 L S S Q V V E T N G S G H G A L A G F L Q A Q G V D T L L C G G I G G G A
UniRef90_B3QG75 R L L E T R R N I P G C G A D D P L A D V S V D L V A D C R A V V A K I G E C G
UniRef90_UPI0003B7A9BD V L L G T R T A P E P G S G S A R W E K V A E L L P D C F A L L A A G A G E S P
UniRef90_E6UE54 D I G G H V D F R P S C N G G Q H F A A A L D A L G D V S A V V A Q R A G P G A
UniRef90_S9SDQ0 D F L D A P E F R P V A S G D G S V A A R L A C L E G C G V L F T T A L S D H T
UniRef90_D7CK08 T N M T V D N P G H Q P G F L P G F L K D K G V D V V I A G G M G P K A
UniRef90_D9R5U6 V V N K S F E D A N P G H K P G Y L P V F L K E Q K A N V I I A G G M G E A A
UniRef90_S9TKS5 E F A D V V H F E D V E P G N D P L A D R V E A A D G S V L F T C G L S D L A
UniRef90_D6GSL6 K D S K I F D T Q G S G H G A L A T F L K N N E T D L I C G G I G S G A
UniRef90_UPI0004261548 E E I E E R D V R S A C G S Q Q E D M N D V A E N L K D V D F V L C A R S G P H A
UniRef90_A4XMA1 D L I C V R E F N S T C S S G Q K M E K R V E M L R D D V I I A N K V G L C A
UniRef90_D5V3N9 K F V M H R K V P E D C D G S Y P I E E I K N T L K D V D I L L T E K I G G C P
UniRef90_I4D266 Q I V Q I D S I L N P G H K P G F L P D F L D D V S V I V S G D I S G G A
UniRef90_F8C308 T R K N F V E N P S Y K S H Q P G A V P M F L K N Q N V D Y V I A G G M G P K A
UniRef90_R6QX54 L N S V V S T M G S G H G A L A G F L Q E H G A D T L I C G G I G A G A
UniRef90_B4S912 R L V E S R P A P P A G S G T M R W E S V A A V L S D C R A L L V N G V I G E S P
UniRef90_B5XPF5 V L V G E R F T P K Y C R G E A R L A L L A L L A D V K A V F C C V R I G H T P
UniRef90_G2HB97 E L L G V R P A P P A G S G D A R W E A L A A V L S D C A Y L L V S S A G Q R P
UniRef90_L0R877 I I E E E Q L T P P S G C G C K S N I A V P T L A E M G V K V L L A G N M G Q G A
UniRef90_UPI0003B43CA9 E E I E D R Q V R P A C G G G C H A E I A E S L K D V D F V L C A R S G P H A
UniRef90_R5E991 V E S V V I D S E A S G H E A L A E F L A A Q G V Q A V I C G G I G Q G A
UniRef90_T2IAP3 K F V A H R K V D H Y C H E E A T L D N I I K S I S D C K G V L A A K
UniRef90_K2PDS3 K K I E E K N P A E T H M H A K V D E I L E F L G H C K V W I G N S M G K G S
UniRef90_L0F481 E I L E E E T V A P A G C G C K S N I A Q T L S E K G V K V M L A G N M G E G A
UniRef90_UPI0004746278 T G S K F V I Q N P G H K P G F L P N Y L N G V N V I I S G G M G G G A
UniRef90_UPI0003B735B5 V A S T V I G N E G L G H E S L A G L L A E Q K V E K L I C G G I G Q G A
UniRef90_T0PLV1 E I L S S E Q V A P A G C G C K S N I A S V L A D M G V K V M L A G N M G D G A
UniRef90_E8REU7 C L L Q E I R Q A P E P G S G E S R W E Q L A D T L H D C F A L L A A S A G Q R P
UniRef90_B3QSD4 Q Q K E F L E L S K E Q S F H Y A S V H E A H E L D R V D V L I C G G I G Q G L
UniRef90_D8FZ17 L G K Q L L E L S P A Q S F H D S S P D E S H P L D D I Q V L I A G G M G R G L
UniRef90_A1VH32 V V I E E Q L A P P G C G C K S N I P V L V I E K G V R V L L G G N M G E G A
UniRef90_C0EC77 L I S T S F L D A N G S G H S A L A V L L K Q G V D L L I C G G I G Q G A
UniRef90_I4A7R7 I V K R A C I P N P G H K P G F L P N F L N E M G V N V I I S G G M G G G A
UniRef90_A5UKZ0 D F V E T R K L A D K D A K H Q G G D V I T Q E C N D C D V I I S T K Y G F K S
UniRef90_F0RUP8 K I L T N K S I P N P G H R P G F L P N F L H E L G V N T I I S G G M G G G A
UniRef90_F0JFT8 T F S E R M D S P Q G C G C K S D I A P I L A E R G V K V M L A G N M G E G A
UniRef90_A0A01OZEU3 T S A E V V N T E G N G H G A L A D F L K G A D A V I C G G I G E G A
UniRef90_R6BG14 T S E Q S V P N P G H R P G F L P N F L A D M G V A V I I S G G M G G G A
UniRef90_UPI0003B73370 V M V D K R S L P E P G G R N R W M Q V A E I I K D C G V L L V S G I G Q A P
UniRef90_I3VXW5 I S A N F I E N P G H R P G Y L P E F L K D V I E C I I S G G M G S S A
UniRef90_H1XS34 I N X E M R E R G G C H H H S E S K H V T M I K K I A D C D V L I A G G M G S A
UniRef90_E2ZC27 T A A H L V A N E A E G H G A V T R L L K E L G V N I V I C G N I G G C A
UniRef90_UPI0003B62C24 D L J E E E R H V I Q P V C H E I S R M K K S V L N F T D C R Y I V V S R L G A A A
UniRef90_UPI000370092B V A K N V I P N P G H K P G F L P N Y L N D V K V I I A G G M G A G A
UniRef90_UPI00040E413A T A A E I L S A D G R G H G E L I D I L K K V S V L I C G G I G S G A
UniRef90_V4IH00 G L R E T R E T P P P G G G D K R W R T L A E T L A D C F A L V A A A V G D T P
UniRef90_F0SVZ8 L K S E A V I Q N P G H R P G F L P N F L N D V K V I I A G G M G A G A
UniRef90_B8CZ66 I N K E V I P N P G H T P G F L P K F L N E Q G V D V V L V S G M G R R A
UniRef90_UPI0004098B31 A L L E I R E A V K E C Q S S K E S H P W V D S I A D C R C V I C K K I G F H I
UniRef90_UPI0003732F80 I V D E K R F E A P H S G C G C K S G V A T T L K E L G I K L M L A G N M G D G A
UniRef90_UPI0003B3BD20 R K E I H V P P P H S E P G V I P Q W L A S L G V N C I L C G M L G R R A
UniRef90_A2SSB9 S I F Q N P F T D A E S G V G P K V V Q L L A S N G V S V L I T G R S G G A
UniRef90_U2L974 T M V K V E S M D S P E H Q H G A L P N L L K E K N V D L V I A G G M G G A
UniRef90_F6CJ65 K S R E T V S T V T L Q H N H E G L A E L F K N K G V E V L I L G G V I G P R A

UniRef90_Q3Z7D4
UniRef90_B8G297
UniRef90_A7H949
UniRef90_H5XTE3
UniRef90_F6DVA2
UniRef90_Q56JU5
UniRef90_G8QTY4
UniRef90_C7LPB4
UniRef90_R1CXL5
UniRef90_UPI0004280A06
UniRef90_UPI000369836B
UniRef90_UPI00035D7879
UniRef90_UPI000479FF2D
UniRef90_R5QW18
UniRef90_E9SDT5
UniRef90_Q6D307
UniRef90_D4JC06
UniRef90_I5B6E9
UniRef90_S7VH36
UniRef90_G5GRD1
UniRef90_R7K782
UniRef90_R7BSJ3
UniRef90_UPI00046F5BD3
UniRef90_R9MCJ5
UniRef90_W1U1Q2
UniRef90_R7L7N6
UniRef90_R6TM18
UniRef90_C7H1P6
UniRef90_B5YHR6
UniRef90_H2J7P7
UniRef90_R6LH94
UniRef90_D8GTY5
UniRef90_C4XQV7
UniRef90_B7C9Z6
UniRef90_UPI0004657516
UniRef90_F4LTC7
UniRef90_D4MPJ8
UniRef90_H7ELS9
UniRef90_R6Y2B3
UniRef90_B3QG75
UniRef90_UPI0003B7A9BD
UniRef90_E6UE54
UniRef90_S9SDQ0
UniRef90_D7CK08
UniRef90_D9R5U6
UniRef90_S9TKS5
UniRef90_D6GSL6
UniRef90_UPI0004261548
UniRef90_A4XMA1
UniRef90_D5V3N9
UniRef90_I4D266
UniRef90_F8C308
UniRef90_R6QX54
UniRef90_B4S9I2
UniRef90_B5XPf5
UniRef90_G2HB97
UniRef90_L0R877
UniRef90_UPI0003B43CA9
UniRef90_R5E991
UniRef90_T2IAP3
UniRef90_K2PDS3
UniRef90_L0F481
UniRef90_UPI0004746278
UniRef90_UPI0003B375B5
UniRef90_T0PLV1
UniRef90_E8REU7
UniRef90_B3QSD4
UniRef90_D8FZ17
UniRef90_A1VH32
UniRef90_C0EC77
UniRef90_I4A7R7
UniRef90_A5UKZ0
UniRef90_F0RUP8
UniRef90_F0JFT8
UniRef90_A0A010ZEU3
UniRef90_R6BG14
UniRef90_UPI0003B73370
UniRef90_I3VXW5
UniRef90_H1XS34
UniRef90_E2ZC27
UniRef90_UPI0003B62C24
UniRef90_UPI000370092B
UniRef90_UPI00040E413A
UniRef90_V4IH00
UniRef90_F0SVZ8
UniRef90_B8CZ66
UniRef90_UPI0004098B31
UniRef90_UPI0003732F80
UniRef90_UPI0003B3BD20
UniRef90_A2SSB9
UniRef90_U2L974
UniRef90_F6CJ65

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

UniRef90_Q3Z7D4
UniRef90_B8G297
UniRef90_A7H949
UniRef90_H5XTE3
UniRef90_F6DVA2
UniRef90_Q56JU5
UniRef90_G8QTY4
UniRef90_C7LPB4
UniRef90_R1CXL5
UniRef90_UPI0004280A06
UniRef90_UPI000369836B
UniRef90_UPI00035D7879
UniRef90_UPI000479FF2D
UniRef90_R5QWI8
UniRef90_E9SDT5
UniRef90_Q6D307
UniRef90_D4JC06
UniRef90_I5B6E9
UniRef90_S7VH36
UniRef90_G5GRD1
UniRef90_R7K782
UniRef90_R7BSJ3
UniRef90_UPI00046F5BD3
UniRef90_R9MCJ5
UniRef90_W1U1Q2
UniRef90_R7L7N6
UniRef90_R6TM18
UniRef90_C7H1P6
UniRef90_B5YHR6
UniRef90_H2J7P7
UniRef90_R6LH94
UniRef90_D8GTY5
UniRef90_C4XQV7
UniRef90_B7C9Z6
UniRef90_UPI0004657516
UniRef90_F4LTC7
UniRef90_D4MPJ8
UniRef90_H7ELS9
UniRef90_R6Y2B3
UniRef90_B3QG75
UniRef90_UPI0003B7A9BD
UniRef90_E6UE54
UniRef90_S9SDQ0
UniRef90_D7CK08
UniRef90_D9R5U6
UniRef90_S9TKS5
UniRef90_D6GSL6
UniRef90_UPI0004261548
UniRef90_A4XMA1
UniRef90_D5V3N9
UniRef90_I4D266
UniRef90_F8C308
UniRef90_R6QX54
UniRef90_B4S9I2
UniRef90_B5XPF5
UniRef90_G2HB97
UniRef90_L0R877
UniRef90_UPI0003B43CA9
UniRef90_R5E991
UniRef90_T2IAP3
UniRef90_K2PDS3
UniRef90_L0F481
UniRef90_UPI0004746278
UniRef90_UPI0003B375B5
UniRef90_T0PLV1
UniRef90_E8REU7
UniRef90_B3QSD4
UniRef90_D8FZ17
UniRef90_A1VH32
UniRef90_C0EC77
UniRef90_I4A7R7
UniRef90_A5UKZ0
UniRef90_F0RUP8
UniRef90_F0JFT8
UniRef90_A0A010ZEU3
UniRef90_R6BG14
UniRef90_UPI0003B73370
UniRef90_I3VXW5
UniRef90_H1XS34
UniRef90_E2ZC27
UniRef90_UPI0003B62C24
UniRef90_UPI000370092B
UniRef90_UPI00040E413A
UniRef90_V4IH00
UniRef90_F0SVZ8
UniRef90_B8CZ66
UniRef90_UPI0004098B31
UniRef90_UPI0003732F80
UniRef90_UPI0003B3BD20
UniRef90_A2SSB9
UniRef90_U2L974
UniRef90_F6CJ65

R [L L]

R [L I]

UniRef90_UPI00036CCD69
UniRef90_F9Z4X8
UniRef90_A4J292
UniRef90_UPI0002F1711E
UniRef90_S6A4G6
UniRef90_D0WFG6
UniRef90_R5IEN6
UniRef90_UPI00047B5CC0
UniRef90_A0L906
UniRef90_A1Z1W7
UniRef90_E3DNM2
UniRef90_F2JUN0
UniRef90_B2TUN09
UniRef90_E6UAL7
UniRef90_UPI00037BB459
UniRef90_UPI0003B79FC7
UniRef90_UPI000287C482
UniRef90_C5VQGO
UniRef90_W0ECY3
UniRef90_D4IPJ7
UniRef90_UPI000471A02A
UniRef90_X1QTW5
UniRef90_K2DD31
UniRef90_H1PN88
UniRef90_F3ZRE4
UniRef90_M1N460
UniRef90_A5D4Q8
UniRef90_S3JZ67
UniRef90_UPI00047E8199
UniRef90_D2Z718
UniRef90_M1P090
UniRef90_E0E1E3
UniRef90_UPI0003B533B5
UniRef90_H6LCZ7
UniRef90_M1WJF3
UniRef90_W8TJ37
UniRef90_I7LHF5
UniRef90_A1HNG5
UniRef90_F8WVA8
UniRef90_UPI00037310DF
UniRef90_R9PK56
UniRef90_E1QR52
UniRef90_E6MK20
UniRef90_D2BJJ6
UniRef90_H1XW67
UniRef90_R5SZJ2
UniRef90_C6IMP0
UniRef90_W4UQN1
UniRef90_E1B72
UniRef90_R6I7U4
UniRef90_R7I2T1
UniRef90_N9XZL3
UniRef90_UPI000361F7AD
UniRef90_F3Z2B5
UniRef90_A9KQ62
UniRef90_E1R3Y2
UniRef90_Q8R8V3
UniRef90_D3RWI9
UniRef90_R7PZF4
UniRef90_UPI00047A99E5
UniRef90_UPI0002D8BAF3
UniRef90_D4H3J4
UniRef90_UPI0003B532A3
UniRef90_B8FWH1
UniRef90_S7VFT2
UniRef90_R4K4P3
UniRef90_D5EC85
UniRef90_D5XBW5
UniRef90_F0JD10
UniRef90_R6WE36
UniRef90_F0K7K8
UniRef90_GOGAM1
UniRef90_L0K9I9
UniRef90_Q1NW47
UniRef90_R5XYR1
UniRef90_G7M498
UniRef90_D4KAH8
UniRef90_I2F817
UniRef90_L8JD94
UniRef90_F9U5Y7
UniRef90_D8K1S7
UniRef90_E3HZB8
UniRef90_X8ISK9
UniRef90_UPI00036867DD
UniRef90_X1PNI5
UniRef90_H7ELR4
UniRef90_L7EPZ3
UniRef90_UPI00025554CC
UniRef90_D4KKT9
UniRef90_H3ZMV8
UniRef90_S2Y5K8
UniRef90_N1JRT8

1
E E L T
E K G E N T
T E G R
K G N G S
M E E I F
E K M E
M S N E
E N M E Q
G K Y J
N K N E I M
K G D K I
K V A K N K
K N M I
S
A
P K P T
K S
K G D Q I
N R K K K P

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

UniRef90_UPI00036CCD69 C F L D I R V T D G N H Q N H 60 I T E D I K D C D I V I S G K I G E G M
UniRef90_F9Z4X8 I V C T E I Q A S P E G C G C K S N I A S V L E E K G V E L M L A G N M G G E G A
UniRef90_A4J292 K E T K I L T S N D G L Q H G G S N I A Y M L K A E N G V D T I I C G G G I G G G M
UniRef90_UPI0002F1711E I I G Q E T V T S P E G C G C K S N I A G T L A E M G V K V M L A G N M G G Q G A
UniRef90_S6A4G6 K N V R V V P N P S A P R G A G V Q A A Q F C I N E G V D V V I A G Q F G P N S
UniRef90_D0WFG6 T A S R V I E D E G E G H A R K L A T M L G L G V T T V I C G G G I G M G A
UniRef90_R5IEN6 R I V S T A I V D T M G N G H G A R K L A T M L G L G V D A L I C G G G I G M G A
UniRef90_UPI00047B5CC0 I K T E E V S T A E L A H E H Q G L A D L L L R Q G T N V V I T G G I G N G A
UniRef90_A0L906 E G R T L L E L D P M E Q A F H E S S P H E P H P L E D N G I Q V F I C F G G M G G V
UniRef90_A1Z1W7 G L I G H L K L D P Y C L G E T T L N S I I E A L E G I D F L C F Q G I G I P
UniRef90_E3DNM2 K K N E V L E N P G H E P G L L S P K L L S D A G A E V I I A S G M G Q K A
UniRef90_F2JUN0 I H Q T A L N T E G S G H G A L V A A L K E G V D T L L C G G G I G G P A
UniRef90_B2TN09 K S L N N G D L G H E H G K C Q P I K A L S G V D D A V I V G G I G K G A
UniRef90_E6UAL7 A K E K T I S F Q E G C S G D H R G E A R L E L V E N C Q Y V I A A R I G S R I
UniRef90_UPI00037BB459 T K T E V V A P E H E H E S M P K F I A G H C C T D V I C G G I G G M A
UniRef90_UPI0003B79FC7 E Y V D E I D T G L A C N G H H E N I E A V A E K I S H C K Y A L S A R I G P G A
UniRef90_UPI000287C482 N K S F V E N P G H K P G F L P V F L N D L G I N T I I S G G M G E R A
UniRef90_C5VQG0 V G K E Y I E S P G H K P G F L P V F L N E K G A N V I I A G G M G E H A
UniRef90_W0ECY3 L K Q E L M D T Q G F E H Q H A G I A Q L L K S K G V E T V I C G G I G P G A
UniRef90_D4IPJ7 A A R E E L P S P Q G C G C K S G I A A D L Q R L G V T A M L A G N M G E G A
UniRef90_UPI000471A02A V V G R E I V D N P G H Q P G Y I P R F L H D R G V V K C I I A Q G M P R A
UniRef90_X1QTW5 K V I T N T E T V V P A H E P G I L P K W L S G L C I A G G M G R R A
UniRef90_K2DD31 E F V N N V Q N L E A A Q G A G I Q A A Q T V A N Q D V D A L I T G H C G P K A
UniRef90_H1PN88 L E S K I V D T S G S G H G A L A G L L K E L D V D S V I C G G I G G G A
UniRef90_F3ZRE4 I T E T K R F D A P S G C G C K S G V A T T L Q E M G V K V M L A G N M G N G A
UniRef90_M1N460 Q I T A S E T V Q P A G C G C K S N I A S T L A E I G V K V M L A G N M G E G A
UniRef90_A5D4Q8 K K I T S K E V L K A P P H Q P G D L L P R L L H E K G V N V V I A G G M G V R A
UniRef90_S3JZ67 T K T E V I D N G A P F H H D L A T Y L K S L G V E T L I L G N R G Q G A
UniRef90_UPI00047E8199 R F I E K R K T P V S G D C S N K W I E L C N V L T D C Q A I L V S G S G K K P
UniRef90_D2Z718 V Q G K R E T E T P P K H E P G V L P R W L K E N G T D V L V S G G L G S R A
UniRef90_M1P090 C L L M A R Q T P G T G G G P N R W K L L A E C L H D C F A L L A T H A G D T P
UniRef90_E0E1E3 I V I S R E E L D T Q G N H C S S M P D F V L Q N K I N V I I T S G M G Q G A
UniRef90_UPI0003B533B5 G V V A S T N E T P P T H E P G V F P K W I A Q L K G V D L V L A G G M G A K A
UniRef90_H6LCZ7 E I I G Q E T L A S P A G C G C K S N I A Q T L S G V K V L L A G N M G D G A
UniRef90_M1WJF3 I V S K E P M D S P E G C G C K S D I A P I L S Q M G V K V M L A G N M G Q G A
UniRef90_W8TJ37 K N I V A E E T V A S P V G C G C K S N I A Q T L S G V K V M L A G N M G D G A
UniRef90_I7LHF5 K A R E I V A K S P G H G A L I G G F L K E N E V E L V I S G C M G E G A
UniRef90_A1HNG5 I V K E T L T P P P H A P G V I P N W L A D Q G C T L L L A G G I G E N A
UniRef90_F8WVA8 R K V V N H K E T V A P E H T P G A F P K F M A E Q K V N V V I T G G M G Q K A
UniRef90_UPI00037310DF V H V Q H A H N E D S A Q E H D T H E R V A Q K F T N I D V V I S G G M G Y G M
UniRef90_R9PK56 T Q L D D F S W Q Q Y C Q G S E Q C D D S L S Q L K H V D T I L C S R I G H A P
UniRef90_E1QR52 K L V E S R D N P L G N I P D T D D P T V I N V L R D V D A V I A S G G C E T S
UniRef90_E6MK20 A E T A V V D T N G Q G H G A L G G F L K N A D V D A L I C G G I G G G A
UniRef90_D2BJJ6 T G K E Q R P A A G A C H G F N A H S Q S I H A I T D C Q L V I A G G M G M G A
UniRef90_H1XW67 M T Q E I R E N P G E G E H G G A K N I M Q L L K D C C T V F L A R S M G M H S
UniRef90_R5SZJ2 C K L E E R T V V Q H D E G C E G G S N D R V E C V T D C T F V V C S K I G F H M
UniRef90_C6IMP0 I L S S E T I P S P Q G C G C K S N I A G E L E N M E V S V M L A G N M G Q G A
UniRef90_W4UQN1 R L I E K R D L S V I R N S P D R W N E L A N L L S D C F L L L T S R V G G K P
UniRef90_E1B72 V A R E V R S K E D H S H S D P R W D A L L D A I R D C Q V V I A G G M G A G M
UniRef90_R6I7U4 L V G S R N L P S Q G H L C G S Q A N F L R Q I E V K V L L C G T I S E K D
UniRef90_R7I2T1 E I L S I E K I P E E G I I S C A A D W I A E L G T N V V L A G G M G M R P
UniRef90_N9XZL3 R L I G N G D L G H E H G A K Q P I K A L S G V D A V I V G G I G A G A
UniRef90_UPI000361F7AD T S I D V T E E Q E I P L F G P G H R T K I E A L K G M D A V I S T K F G L P A
UniRef90_F3Z2B5 R V G A M S L H I P P P H E P G V L P K W L A E L G V G L V I A G G M G Q R A
UniRef90_A9KQ62 I S K A T L K N T G S G H V A T V D L L K G V D V V I C G G I G S A
UniRef90_E1R3Y2 V T C E R R P A P A R G G G D A R W K E L A R L L D D C A Y L L V G G V G E R P
UniRef90_Q8R8V3 K K V E E R E N P D G K H R H A E T E E I M E V L K D C D V L L G K S M G K E S
UniRef90_D3RWI9 K L V E N P H V P K R G H A K A L P R L L K E E G V E V V F A K H V G E G M
UniRef90_R7PZF4 E L L R Q V R P G D L G S H K D H I E A A V T L L D D C D I I A V R E I G D M P
UniRef90_UPI00047A99E5 L G S R V I S A G E N G H S A L A D L L Q G V T V M V C G G I G D G A
UniRef90_UPI0002D8BAF3 R R I A G R Q T L P A A E G C G C K S D I A P R L H G V D V M L A G N M G D G A
UniRef90_D4H3J4 D F I A N S D V A H E H G A C N P V A A L A G V D A I V V G G I G Q G A
UniRef90_UPI0003B532A3 T F S E I R E W K E N T N G E G S E E K V K L L E D C R C I I C T H I G P K M
UniRef90_B8FWH1 S G Q E R I D T A D F Q H Q H E G I A Q L L K S K G V E T V I C G G I G P G A
UniRef90_S7VFT2 Q S V S T I P N E E H V I Q G G C M V P V N L L A R N K V N A L I V G G I G M R P
UniRef90_R4K4P3 Q Y I E T F D K E E D H D D S Q L L G R I S L L S K Y D A V L V N K I G N K A
UniRef90_D5EC85 V E R K I Y A T P K G E H V P G A M P Q W I A T L G A D V V I T G G I G G R A
UniRef90_D5XBW5 V D I E E I S A E G L Q H R H E G L A G L L K N K G V I E V V I V G G I G P G A
UniRef90_F0JD10 C L L G M R D L P E P G T G A Q R W E D L S E T L H D C F V L L A A S A G E S P
UniRef90_R6WE36 V V S T E R L D S P Q G C G C K S N I A S V M Q Q M G I T M M L A G N M G M G A
UniRef90_F0K7K8 V N A E K I S S V E L L H Q H Q G L A D L L V K N G V D V V I V G G I G A G A
UniRef90_GOGAM1 E R S Y E E F P P P H E P G A F P R W E A Q Q G V D V V I T G G I G S R A
UniRef90_L0K919 V K Q Q V I E N P G H K P G F L P R F L N E K G V D F I L A G G M G R K A
UniRef90_Q1NW47 C L L E T R H L P K P G S G D N R W E Q V A E L L K D C F V I L A A S A G Q K P
UniRef90_R5XYR1 K S I L N N G D L G H E H G K C Q P I K A L E G V D A I I V G G I G A G A
UniRef90_G7M498 K I T D T E L D K S P D G G C G C K S N I A S T L K G V K V M L A G N M G E G A
UniRef90_D4KAH8 T G A E V V S T D G Q G H G A L V G F L N G V N V L L C G G I G G G A
UniRef90_I2F817 V S H E L E V N P F E Q H E P G E I P G Y V K S K G A D V I T R G M G G R A
UniRef90_L8JD94 K K I T G R N D I D A P H E P G L P R W L G E R E V N L V I S G G M G Q K A
UniRef90_F9U5Y7 P K E V E R L S L H E Y H G E D H P L F E L A L N G I V T Q G A G N G F
UniRef90_D8K1S7 I L H K K T L G A Q A H G C G A T P M M L A R E G V N L V L A G G M G Y T P
UniRef90_E3HZB8 V L T G T L D L P M E M S H H E H P A E A H P L D G I D A L I T A S C G G P F
UniRef90_X8ISK9 I T S R V V D T K G A G H A L A G F L T A N K V D T L I C G G I G G G A
UniRef90_UPI00036867DD R L V E K R T N P S E T M Q H L K T L D V Y E L L R D C T I I S G T I G K K G
UniRef90_X1PNI5 T I T R K E L I A S P G H E P G L L P V W L A E E G V S V V I A S G M G S R A
UniRef90_H7ELR4 S F L E E R K I K E E C E S G C S C G S N F E V V S D C T Y F L V A K I G P K P
UniRef90_L7EPZ3 N S K K V R S L D G A R S G D S Q L I G K I S L L S K Y D A V L V N K I G N R A
UniRef90_UPI00025554CC E F L E Q R N A P G E C H R D S E R I E A V A V L S D C N Y I T A K I G P K P
UniRef90_D4KKT9 K I V N T Q V V D T N G Q G H G A L A G F L N S T D I D V L I C G G I G G G A
UniRef90_H3ZMV8 K N V E I V E V P F D E H G P G D L P N F I K E H N A E V V L A Y G M G R R A
UniRef90_S2YK8 T T S Q V V D T N G S G H G A L A G L A E H Q V D V L I C G G I G G G A
UniRef90_N1JRT8 A I K L E A R P N P Y F E N H R H L D E I L Q V I G D C P V W I G S A M G E R S

UniRef90_UPI00036CCD69 I N S L G D L G I 90 E A I V D E E T L N P I E A I S K L 110 120
UniRef90_F9Z4X8 K H T L E D H H I R V I R G C S S G S V E A V V N A W L Q G A L T D S
UniRef90_A4J292 I N Q A L Q Q I G I K V V I R G A S S G S L E A V A E A Y A T G G T L V T R P
UniRef90_UPI0002F1711E V N V L N Y S G I E V I R G C S S G D V K E V A L K W I D G S L
UniRef90_S6A4G6 A Q V L E A S G I K F V S A L P T M R V I E A V A F L R G E L
UniRef90_DOWFG6 I E G M Q K K D V E I Y T S I S G D A D E A V K K Y L S G D L
UniRef90_R5IEN6 R L A L E E A G I R L Y P G A A G S A D E A V H A F L A G T L Q Y Q P
UniRef90_UPI00047B5CC0 I Q C L Q Q N G L Q V I K G A S G E Y T K V I E E Y I D G N L E D
UniRef90_A0L906 R Q R L T S K G I D C V I T E E S D L E T A V K H Y L A H L A K G E P
UniRef90_A1Z1W7 R N K L A R R G V Q A T S A Y G N A Y L E Q A I D A L Y T
UniRef90_E3DNM2 I T L F E K N K I E V T C G A K G E A L T A V E N D Y L N N K L K T T
UniRef90_F2JJN0 K S G L E K E G I K V I S G L S G E V E Q L V F D Y L Q G K L
UniRef90_B2TN09 I T K L N S M G L K I F K A I E G N V N E N L E A Y K K G E L T E F P
UniRef90_E6UAL7 Q R Y F E T Q R K K Y F E M P G S D T D Y V T I E K I V E Y R K R S
UniRef90_UPI00037B459 K E M L N E L G I Q V H S G A P A L P I E E I I E Q
UniRef90_UPI0003B79FC7 A R I L L S K G I K A L E I E N E I D Q A I E K L
UniRef90_UPI000287C482 Q E L F A E N S I E V V V G A S G I C D D L V N E Y I K G N L K S T
UniRef90_C5VQG0 Q E L F A E N N I E V V V G A V G S I E E T V D Q Y I K G E L K S T
UniRef90_W0ECY3 I Q G L E S N G L E V L R G C S S I R D V A E S Y A K G T F K G T
UniRef90_D4IPJ7 K N K L E A H G I T V V R G C S G D I E T V V K S Y L A G
UniRef90_UPI000471A02A A E I F G S L G I E A I V G V T G K V S D T I A L L L E G K L A G G
UniRef90_X1QTW5 Q Q L F A Q N N I D V V V A P D N T P Q E L A L Q Y L T G Q L Q S G
UniRef90_K2DD31 F K V L S A N I K I Y T G A E G T I K E A I E K L K N
UniRef90_H1PN88 Q T A L A D A G I K L Y S G V S G D C D E A V N K F L A G T L E Y G
UniRef90_F3ZRE4 L N V L G N N I K V V R G C S G D V N E V V K A Y L E G N L T D S
UniRef90_M1N460 V R V L N N A G I D V V R G C S G E I N T V A L N W L K G S L
UniRef90_A5D4Q8 Q D L F R Q N G I E V V V G S N G S P E N I M S Y L A G S L Q T G
UniRef90_S3JZ67 I D A L N N A G I H Q L A G L T G S P D E A V A F L A G T L Q D N P
UniRef90_UPI00047E8199 T S T L Q S N G I R V I Q M K G L T D T G L D T V Y N
UniRef90_D2Z718 S E I L V S Q G I Q V I T G V T G P L D Q A I A K L T G E L K G T
UniRef90_M1P090 R K E L A E L G I Q V I L T E D N V E G L V D V L
UniRef90_E0E1E3 I D G L A A K G V K S F S G I V G D P Q V A V E N Y L A G K L E D
UniRef90_UPI0003B533B5 Q S L L K E E S G V Q V L V G A P S V D P E E V L K W L E G T L Q T G
UniRef90_H6LCZ7 V N V L N R S G I E V L R G C S S G D V K S V M L N W L A G
UniRef90_M1WJF3 V N I L Q S N N I K V I R G C S S G E I D T V A A N Y L A G
UniRef90_W8TJ37 V R V L N D S G I E V L R G C S G D V K A V A L K W L E G A L E D S
UniRef90_I7LHF5 F N G L K A Q G I K V L T G A E G T P D E I K D Y I E G K L N
UniRef90_A1HNG5 Q Q I L A Q K G V K V L C G A P S A P P E E V V S Y L A G K L A S R
UniRef90_F8WVA8 M D I L R A N K I E I L L G A S G K I E D V L K Y L E G N L
UniRef90_UPI00037310DF K S R F D S A G I K T I I T S E K D I K A A L N F L Q G S L K H
UniRef90_R9PK56 Q L E L S A M N V K A N T D Y A
UniRef90_E1QR52 Y E Y F T S M G I Q L F F V I E P G T P I D T L I E Q L R N
UniRef90_E6MK20 R M A L A D A G V A L Y A G V S G E
UniRef90_D2BJJ6 R Q S L E Q A G I D V H M T D V A D I D I A L K L Y L E G K L P
UniRef90_H1XW67 I P K L V E K G K P M L T R I N R I D E A I S R L
UniRef90_R5SZJ2 Q K L L A K H A V T A F D V E C T I D E A I H K I G C Y L A R Q R K A W
UniRef90_C6IMP0 L N V L T A H N I K V I R G C S S G N I L D V A T D Y L N G K L
UniRef90_W4UQN1 L R S L T E N G F L V E A V E G N V S
UniRef90_E1IB72 D Q R L R S A G I N A I R T Q I P S I E I A I E K Y L N G K L
UniRef90_R6I7U4 A E S M K A A G I T V V Q G A E G R A I T A A D N Y L K Q
UniRef90_R7I2T1 L N A F A Q K G V K V I T G C P E M D I K E L V T Q
UniRef90_N9XZL3 I R K L G S M G I K T F K A I D G D L E E N L K A F N N G T L K E
UniRef90_UPI000361F7AD I E L L R E E G I V P I E D S G N V K E A L R R
UniRef90_F3Z2B5 Q A I F S E H G V K V V G A Q G G T P Q E A K A Y L G G M L T T G P
UniRef90_A9KQ62 M G L L M D E D I L V I P G M Q G D I E V A V A
UniRef90_E1R3Y2 G S V L A A S G L K V L V I E G
UniRef90_Q8R8V3 Q R R I E E W N K T P I V A K E V E M V E E A M K
UniRef90_D3RW19 R E N L K E F G I R V E I V G E D E I S K L V D R L K
UniRef90_R7PZF4 R R V I E G R G K K V F V T S A P V R D A V
UniRef90_UPI00047A99E5 K Q A L Q A W G I R V L A G V Q G P V E Q A V E A Y L A G R L
UniRef90_UPI0002D8BAF3 K N V L Q R N G I A V I R G C H G P V E E V V A A Y L A G R I A D S
UniRef90_D4H3J4 I A K L M Q D G I Q V M R S A S G L V E D D I K L Y V K G E L
UniRef90_UPI0003B532A3 S K Q F T V R G I S I F D I E G E L E P I I K R I A E Y Y K
UniRef90_B8FWH1 I T G L E N A G I E V L R G A N G
UniRef90_S7VFT2 L M G F R Q M G I D V Y Y D A E R I D I Q P V V A D L Y I A G T L P
UniRef90_R4K4P3 E K M L T F S G L H A F E N G G I E E A L S K L Y I Y L K R T
UniRef90_D5EC85 S A M L R A Q G L D V L C V K P M S T I E A F L N Q N L E V L
UniRef90_D5XBW5 L E A L E S Q G F K V L F G A S G P I K E V A E A F A R
UniRef90_F0JD10 R Q L L S A R K G L S V L I T D G E I E G T V D V L Y
UniRef90_R6WE36 F N K L S A H G L S V I R G C K G D I N D V L A Y L D G K L T D S
UniRef90_F0K7K8 L T A L R Q K G F K V I R G A S G I Y T E V I K E Y I N G N L E D
UniRef90_GOGAM1 L A M F K R L G I E V R S V P E D P R E V V R A Y V E G R L P E A E E P
UniRef90_L0K919 V N L F D R N N I E V V T G A T G E I D T V I K S Y L A N S L E T
UniRef90_Q1NW47 R D I L G R H G L T V L L L E D N I E G T V D M L Y
UniRef90_R5XYR1 I M K L N A M G T K V Y R G V N D T I E A N L K L L Q E
UniRef90_G7M498 I R V L N N A G I Q V L R G C S G D V K T V A S R W L E G S I A D S
UniRef90_D4KAH8 Q M A L A Q A G I R
UniRef90_I2F817 R Q F F E T Q G V H A I T G A S G T V E E L V K T Y I E G E L
UniRef90_L8JD94 K Q L F E G L Q Q A I E V I V G A P A E T P E S L V A Y L D G T L
UniRef90_F9U5Y7 L Q R M A R H G I Q V Y T T S A T D P P E K A V K D H L E G L L A S G
UniRef90_D8K1S7 R Q V F E R A G I Q V I T V I E P D P E K A V K D H L E G L L A S G
UniRef90_E3HZB8 A K R L A E R G V R V I L T S E T D P M T A V T A L L S G
UniRef90_X8ISK9 Q Q A L R D A D I K L F G G V S G N T D E A V E M L L K D E L E F N P
UniRef90_UPI00036867DD V E R L Q E R G L K L F F R K G N I Q E A L A D V V K E
UniRef90_X1PNI5 Q D L F R Q N R I E V V T N A E S D P D K A V L D Y I S G R L A
UniRef90_H7ELR4 H R L L Q E N K V N C L L E A P F E T E E A V S K L N G Y
UniRef90_L7EPZ3 E K L V F S G L H A F E N D G T I E E A L P K L Y T Y L K R T
UniRef90_UPI00025554CC Q A V L K A G I T A L E S P T D L G V A I G K L N T Y
UniRef90_D4KKT9 Q A A L A A G I T A L F G G V S G D A D E A V K A Y L E G N L T Y N P
UniRef90_H3ZMV8 I E Y F N Q L G I E V V T G A Y G K L D V E A F L H Q V L E V D P Y W K E
UniRef90_S2Y5K8 Q A A L A E V G I K L Y G G V T G E A D Q A V E A F L N E A L S Y D P
UniRef90_N1JRT8 L K R L A E M N Y E P V I L L E P M T N D E A L K A Y L N E

UniRef90_UPI00036CCD69
UniRef90_F9Z4X8
UniRef90_A4J292
UniRef90_UPI0002F1711E
UniRef90_S6A4G6
UniRef90_D0WFG6
UniRef90_R5IEN6
UniRef90_UPI00047B5CC0
UniRef90_A0L906
UniRef90_A1Z1W7
UniRef90_E3DNM2
UniRef90_F2JJN0
UniRef90_B2TN09
UniRef90_E6UAL7
UniRef90_UPI00037BB459
UniRef90_UPI0003B79FC7
UniRef90_UPI000287C482
UniRef90_C5VQG0
UniRef90_W0ECY3
UniRef90_D4IPJ7
UniRef90_UPI000471A02A
UniRef90_X1QTW5
UniRef90_K2DD31
UniRef90_H1PN88
UniRef90_F3ZRE4
UniRef90_M1N460
UniRef90_A5D4Q8
UniRef90_S3JZ67
UniRef90_UPI00047E8199
UniRef90_D2Z7I8
UniRef90_M1P090
UniRef90_E0E1E3
UniRef90_UPI0003B533B5
UniRef90_H6LCZ7
UniRef90_M1WJF3
UniRef90_W8TJ37
UniRef90_I7LHF5
UniRef90_A1HNG5
UniRef90_F8WVA8
UniRef90_UPI00037310DF
UniRef90_R9PK56
UniRef90_E1QR52
UniRef90_E6MK20
UniRef90_D2BJJ6
UniRef90_H1XW67
UniRef90_R5SZJ2
UniRef90_C6IMP0
UniRef90_W4UQN1
UniRef90_E11B72
UniRef90_R6I7U4
UniRef90_R7I2T1
UniRef90_N9XZL3
UniRef90_UPI000361F7AD
UniRef90_F3Z2B5
UniRef90_A9KQ62
UniRef90_E1R3Y2
UniRef90_Q8R8V3
UniRef90_D3RWI9
UniRef90_R7PZF4
UniRef90_UPI00047A99E5
UniRef90_UPI0002D8BAF3
UniRef90_D4H3J4
UniRef90_UPI0003B532A3
UniRef90_B8FWH1
UniRef90_S7VFT2
UniRef90_R4K4P3
UniRef90_D5EC85
UniRef90_D5XBW5
UniRef90_F0JD10
UniRef90_R6WE36
UniRef90_F0K7K8
UniRef90_G0GAM1
UniRef90_L0K9I9
UniRef90_Q1NW47
UniRef90_R5XYR1
UniRef90_G7M498
UniRef90_D4KAH8
UniRef90_I2F817
UniRef90_L8JD94
UniRef90_F9U5Y7
UniRef90_D8K1S7
UniRef90_E3HZB8
UniRef90_X8ISK9
UniRef90_UPI00036867DD
UniRef90_X1PNI5
UniRef90_H7ELR4
UniRef90_L7EPZ3
UniRef90_UPI00025554CC
UniRef90_D4KKT9
UniRef90_H3ZMV8
UniRef90_S2Y5K8
UniRef90_N1JRT8

UniRef90_R5BW09
UniRef90_J0N369
UniRef90_T4W0L0
UniRef90_UPI00036C69D5
UniRef90_R5T213
UniRef90_I2F846
UniRef90_U5CTL9
UniRef90_G0HPPB6
UniRef90_UPI000306FF38
UniRef90_F6DR74
UniRef90_S7TEJ3
UniRef90_R7I2F2
UniRef90_UPI0003B5598D
UniRef90_E3CYG8
UniRef90_R7G883
UniRef90_Q9UZX7
UniRef90_R6GKT2
UniRef90_Q6NB13
UniRef90_H2J7F0
UniRef90_C9XQQ8
UniRef90_I7A183
UniRef90_D1YVX8
UniRef90_X1CU13
UniRef90_B2A0V5
UniRef90_Q1JWH8
UniRef90_D2RGT0
UniRef90_G2T7Q4
UniRef90_UPI00047E99E3
UniRef90_W6SEE5
UniRef90_D6SL46
UniRef90_UPI0002555910
UniRef90_D1B8M7
UniRef90_G5F4Y7
UniRef90_F4BXS8
UniRef90_C8W5D3
UniRef90_Q2NET1
UniRef90_UPI00036942CA
UniRef90_Q212B9
UniRef90_I0X7W0
UniRef90_J9FPJ7
UniRef90_X1FYK9
UniRef90_S7U017
UniRef90_F7NHC6
UniRef90_UPI00029AD633
UniRef90_B6IXM6
UniRef90_A4J6N0
UniRef90_H8YFF1
UniRef90_Q3A6K2
UniRef90_D7EBT3
UniRef90_W8NTB7
UniRef90_D2RHW4
UniRef90_F6CJ69
UniRef90_Q8PY77
UniRef90_E3HAJ6
UniRef90_X0W927
UniRef90_K1ZJL7
UniRef90_E1RAB5
UniRef90_H0PXC3
UniRef90_I3ZW97
UniRef90_C6BY95
UniRef90_D1AM47
UniRef90_Q5JDE3
UniRef90_B1L498
UniRef90_B9K7J1
UniRef90_E8RGV3
UniRef90_B8D448
UniRef90_UPI0003B3F38D
UniRef90_X0SKP2
UniRef90_G2TBR0
UniRef90_I3ZSK1
UniRef90_S7U2E5
UniRef90_F2KQA5
UniRef90_Q6ARF4
UniRef90_F2LUF0
UniRef90_O30293
UniRef90_UPI00037EA077
UniRef90_Q2LWF7
UniRef90_O50091
UniRef90_Q1JW11
UniRef90_Q3AR31
UniRef90_UPI00036213F8
UniRef90_B5IGD7
UniRef90_I0GL80
UniRef90_UPI0003B61658
UniRef90_H8I851
UniRef90_E1YHQ6
UniRef90_UPI00037E1FFF
UniRef90_UPI000410FC1E
UniRef90_S5Z9D4
UniRef90_F8AF33
UniRef90_F5Y9P9
UniRef90_E1YI59

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

UniRef90_R5BW09
UniRef90_J0N369
UniRef90_T4W0L0
UniRef90_UPI00036C69D5
UniRef90_R5T213
UniRef90_I2F846
UniRef90_U5CTL9
UniRef90_G0HPB6
UniRef90_UPI000306FF38
UniRef90_F6DR74
UniRef90_S7TEJ3
UniRef90_R7I2F2
UniRef90_UPI0003B5598D
UniRef90_E3CYG8
UniRef90_R7G883
UniRef90_Q9UZX7
UniRef90_R6GKT2
UniRef90_Q6NB13
UniRef90_H2J7F0
UniRef90_C9XQQ8
UniRef90_I7A183
UniRef90_D1YVX8
UniRef90_X1CU13
UniRef90_B2A0V5
UniRef90_Q1JWH8
UniRef90_D2RGT0
UniRef90_G2T7Q4
UniRef90_UPI00047E99E3
UniRef90_W6SEE5
UniRef90_D6SL46
UniRef90_UPI0002555910
UniRef90_D1B8M7
UniRef90_G5F4Y7
UniRef90_F4BXS8
UniRef90_C8W5D3
UniRef90_Q2NET1
UniRef90_UPI00036942CA
UniRef90_Q212B9
UniRef90_I0X7V0
UniRef90_J9FPJ7
UniRef90_X1FYK9
UniRef90_S7U0J7
UniRef90_F1NHC6
UniRef90_UPI00029AD633
UniRef90_B6IXM6
UniRef90_A4J6N0
UniRef90_H8YFF1
UniRef90_Q3A6K2
UniRef90_D7EBT3
UniRef90_W8NTB7
UniRef90_D2RHV4
UniRef90_F6CJ69
UniRef90_Q8PY77
UniRef90_E3HAJ6
UniRef90_X0W927
UniRef90_K1ZJL7
UniRef90_E1RAB5
UniRef90_H0PXC3
UniRef90_I3ZVW97
UniRef90_C6BY95
UniRef90_D1AM47
UniRef90_Q5JDE3
UniRef90_B1L498
UniRef90_B9K7J1
UniRef90_E8RGV3
UniRef90_B8D448
UniRef90_UPI0003B3F38D
UniRef90_X0SKP2
UniRef90_G2TBR0
UniRef90_I3ZSK1
UniRef90_S7U2E5
UniRef90_F2KQA5
UniRef90_Q6ARF4
UniRef90_F2LUF0
UniRef90_O30293
UniRef90_UPI00037EA077
UniRef90_Q2LWF7
UniRef90_O50091
UniRef90_Q1JW11
UniRef90_Q3AR31
UniRef90_UPI00036213F8
UniRef90_B5IGD7
UniRef90_I0GL80
UniRef90_UPI0003B61658
UniRef90_H8I851
UniRef90_E1YHQ6
UniRef90_UPI00037E1FFF
UniRef90_UPI000410FC1E
UniRef90_S5Z9D4
UniRef90_F8AF33
UniRef90_F5Y9P9
UniRef90_E1YI59

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

UniRef90_R5BW09
UniRef90_J0N369
UniRef90_T4W0L0
UniRef90_UPI00036C69D5
UniRef90_R5T213
UniRef90_I2F846
UniRef90_U5CTL9
UniRef90_G0HPB6
UniRef90_UPI000306FF38
UniRef90_F6DR74
UniRef90_S7TEJ3
UniRef90_R7I2F2
UniRef90_UPI0003B5598D
UniRef90_E3CYG8
UniRef90_R7G883
UniRef90_Q9UZX7
UniRef90_R6GKT2
UniRef90_Q6NB13
UniRef90_H2J7F0
UniRef90_C9XQQ8
UniRef90_I7A183
UniRef90_D1YVX8
UniRef90_X1CU13
UniRef90_B2A0V5
UniRef90_Q1JWH8
UniRef90_D2RGT0
UniRef90_G2T7Q4
UniRef90_UPI00047E99E3
UniRef90_W6SEE5
UniRef90_D6SL46
UniRef90_UPI0002555910
UniRef90_D1B8M7
UniRef90_G5F4Y7
UniRef90_F4BXS8
UniRef90_C8W5D3
UniRef90_Q2NET1
UniRef90_UPI00036942CA
UniRef90_Q212B9
UniRef90_I0X7W0
UniRef90_J9FPJ7
UniRef90_X1FYK9
UniRef90_S7U0I7
UniRef90_F7NHC6
UniRef90_UPI00029AD633
UniRef90_B6IXM6
UniRef90_A4J6N0
UniRef90_H8YYF1
UniRef90_Q3A6K2
UniRef90_D7EBT3
UniRef90_W8NTB7
UniRef90_D2RHV4
UniRef90_F6CJ69
UniRef90_Q8PY77
UniRef90_E3HAJ6
UniRef90_X0W927
UniRef90_K1ZJL7
UniRef90_E1RAB5
UniRef90_H0PXC3
UniRef90_I3ZW97
UniRef90_C6BY95
UniRef90_D1AM47
UniRef90_Q5JDE3
UniRef90_B1L498
UniRef90_B9K7J1
UniRef90_E8RGV3
UniRef90_B8D448
UniRef90_UPI0003B3F38D
UniRef90_X0SKP2
UniRef90_G2TBR0
UniRef90_I3ZSK1
UniRef90_S7U2E5
UniRef90_F2KQA5
UniRef90_Q6ARF4
UniRef90_F2LUF0
UniRef90_O30293
UniRef90_UPI00037EA077
UniRef90_Q2LWF7
UniRef90_O50091
UniRef90_Q1JWI1
UniRef90_Q3AR31
UniRef90_UPI00036213F8
UniRef90_B5IGD7
UniRef90_I0GL80
UniRef90_UPI0003B61658
UniRef90_H8I851
UniRef90_E1YHQ6
UniRef90_UPI00037E1FFF
UniRef90_UPI000410FC1E
UniRef90_S5Z9D4
UniRef90_F8AF33
UniRef90_F5Y9P9
UniRef90_E1YI59

R

1 10 20 30 40

UniRef90_A6DDA2 MKL I A I P Y G E D L K V F T R T G R A P F F A I F E F D G D K F N
UniRef90_X1Q4Y9 MR Y A V P V D N K V A S N Q H F G G H C S H F A L F D V D E G G T R E N
UniRef90_T0MWF9 MR I A I L A T Q G G D L V S N S Q H F G K S K S F Y T I A T D V E D G K K I
UniRef90_W6N762 MK I A I P T S Q N F K T I T E G H H F G K S R R F L I Y E T D P D P V I
UniRef90_UPI000376A10F T MK L A V P T M G E A G L E S G H F G R C D C Y F T V V E I E N G G E I
UniRef90_F7UVS7 MK I A L P I D N N R L S T A H F G R C E K F M I V E I E N G G E I
UniRef90_Q58000 MR I A L T S L D L E T V S T A H F G R C E S F L V Y E A E A S A S A
UniRef90_W9H687 MK I A A L P K N G D N V S E H F G H A K E F L V V D V E N G K E
UniRef90_UPI00046797E8 I R V A M P I E G D N L C E H F G H A P K F A F F D I E N G K V
UniRef90_UPI00046D7199 MK L A V S S V G N A L V D A R F F G R C Q Y F I V V D P Q T L E F
UniRef90_X1TC19 MK Y A I P I S R D E G V N G H F G R S A P C Y G I Y D D A T E T K L
UniRef90_E4TH11 MK I A I T S T G P K L V D P R F F G R C H Y F I L F D T D S N K F
UniRef90_X0ZLB8 MK I G I T S Q N F R T I T G H F G K G R R F L I F T V Q E G Q P
UniRef90_UPI0003B3698F E K I T G G S M V I A I P A L D N S E R I S D A H F G R A Q Y F A I V E L L T G D E K I
UniRef90_A8F470 K I A I P S M S N E G L S D A H F G S C Q Y F T I I L N G K I
UniRef90_Q0W829 MR V A I P E L Y G K V N S P H F G Q S T N F S I I D L N N S E I
UniRef90_D5X9F2 MK I A I A T N D Y T Q V S S G H F G Q A T D W L L Y D S D A D K P
UniRef90_UPI000366F899 V L I C V P S I E G D N L S S Q H F G K T P Y F V L I K W E N G K I
UniRef90_K6TV26 MR L A V P A E D D R K V S M H F G K A R Y F V F V D V D D N E I
UniRef90_F4HKL9 MR I A V P S Q N F R T I T P H A G K T R R F L I F E V T G A P A
UniRef90_A4WTL7 MK V A I P S D N Q S T I T K R T G Q S K G F M V I E V T D N K I
UniRef90_UPI00029A34C3 MK I A V A S T G S H V A R H F A L C E S F H I Y M V Y G G K I
UniRef90_U2CK43 MK I A I P T M G A G G L S E H F G H C D C Y F T V V T V E N D S T I
UniRef90_R6ZR44 MK V A I A K D G G D F V S S E H F G R C K E Y A L F V V E N S K I
UniRef90_B8GDH5 MR I T I P A K D D K E V C E H F G R A K Y F V F V D V Q D D K I
UniRef90_F0LHT4 MK V A I T S Q G S L L D Q R F F G C G W F V V A D T E E A G N W
UniRef90_A5D4Q4 Q S A M L V A V P S G G K Y Y M S P H F G M A A K F V I A R T E A G R Y
UniRef90_A1RVW2 M V I A V P E N N G E N T S E H F G H A P Y F A F F D T E K Q Q
UniRef90_A6LKL6 M L V A V A S Q N F T T V T Q H F G K T R R F L L E D A T A G G V
UniRef90_S9SBG1 MK I A I T T S Q G L Q V A Q H F G H A P Y F I L L V D I E D G A V
UniRef90_I3Y7D4 K I A I P T E G G K L C A H F G H C E S F Y M A T I Q E G
UniRef90_U6REU4 MK L A I P S S T G Q N L V D A R F F G R C Q Y F I I E P G M M E F
UniRef90_X1TEW3 MK F A I P M A M G K L T A H F G H C R E F C F V T V E N N E I
UniRef90_C0QD71 MR I V I P T N D G L M A K A H F G R A P F Y V M V D I E N G K I
UniRef90_UPI0004638493 MK L A L T S Q N R R D L I T A H A G R C R H F V V V D T H S P Q L
UniRef90_C1DAC3 MK F A L V S D D F Q T I T G K T G R A R K F L V Y E V E P T L L
UniRef90_A3IPU3 MK I A I P T D D G R T V A S H F G S A E Y F M I V E F E D G K E
UniRef90_H9UEH8 MK L C L P S L G N G L V S E H F G R A P T F T V V D M V S N K V
UniRef90_D1JGS7 K E D S K MK I C F P S V N N L G L E G H F G T A P M F V V C D L V S N E V
UniRef90_R6FQ75 MR L A I P A E E N R F V S E H F G R A R Y F V F V D V E G N E I
UniRef90_B7R5L8 MK I A I T A H G Q A T V D D S R F G R A D Y F V L Y D Q E N D T W
UniRef90_T0IJG2 MR I A I T A Q G P T L F D D M H F G R A P Y F I L L F D T D G E W
UniRef90_F8AAR6 M I A V P V M N E A K I S E H F G H A P Y F A F V K V E D N K I
UniRef90_C5CI50 MK I A V P T R A N A V A D D H F G H C E S Y S I F T L G E N K D
UniRef90_F5IV88 MR I A V A V D S F S L V A G H A G Q A K R W L V F E A A G E P
UniRef90_G2TBW5 MK I A V C S Q G G A M I D S R F G R C Q Y L L V Y D S E Q K N W
UniRef90_UPI0003726333 S L T I A C A T D D G L V N I N R H F G D A D Y Y Y I Y N L T P E G A
UniRef90_B8D206 K V A V A T K D G G K E V S C E H F G R A R T F T V I D L E D D Q V
UniRef90_X1MP52 MR F A V G T Q D Y R S I A T H F G G R T R R F L V F E A D P V E V
UniRef90_G8APW1 MK T A L P N N G N M V N Q H F G M S Q S F V I V T V E N N K I
UniRef90_U5RWD1 MR V V I P T S D G L L A K A H F G K A F Y I V V D I E D G E V
UniRef90_B9L879 MK V M I A A D R G V L V C P H F G H A P E F R L V E I D E S K
UniRef90_D3L3L9 S V V V A I P S S G G L H L G A H F G H C D L Y T V V K L I T D G R Q V
UniRef90_F2NHF6 MR I A V T S Q N F R T I T G H A G K T R R F L L E A D G R E I
UniRef90_G2E3M7 MK I A V I A A K D F A T V S S H A G Q A R Q W L L Y D C R P G A P
UniRef90_UPI0003B5109B MK F A V V S Q D F E T V S G G K T G A R K R K F L V Y E A T K D S I
UniRef90_G8QFV4 I A V A S S S G S S V D R G F G N A D R F L V Y S V D G P E V
UniRef90_B7K4Y9 MK I A I T S Y G E D A I D S R F G R A D Y F L I Y D Q D K E A W
UniRef90_M4YM33 S I K V A V P V E E N L V I V T R T G R A P Y F A I Y E F D G N E F
UniRef90_I8TST7 MK L A V P S L G E G G L S G H F G H A D C F T I A T I E N G E I
UniRef90_B9L878 T MK L A V P T M G E A G L E A H F G H C D R F T I V T I E D G K V
UniRef90_G1WJ58 MR V A L P T K D G E I F L R Y G E T K E F T V E V E I
UniRef90_R9L563 MK V A F T S Q G N S L F D E R F G R A M Y F I I Y D T D T N E T
UniRef90_U5RWD1 MR I A I P L A D G D V A P H V G H C R S Y L I A D V E D G K V
UniRef90_Q67LE0 MK I A V A S Q N R K D I T G H T G R C R K F W I Y R I E N G G V V
UniRef90_H8GQ35 K I A I P T N G E V L D A H F G R A A F T V F E I E G Q T A
UniRef90_I4D8Q2 MT G A S F R I A V A S Q N F R T I T P H A G K T R R W L V E D C E E D S G
UniRef90_W8RN82 MK I C I P S Q K E N K G F E S H F G S A P F L V V D T D T N E I
UniRef90_UPI00042179CC MK V A V P S M A P G G L S A H F G H C D A F T I V E Y D N G Q I
UniRef90_E1QF93 MR I A I A T K E G E R V P G P F G H A P R Y A I Y E V G P E E L
UniRef90_F6DF71 MR I A I P T N N P G G M E A H F G H C D V F T L V E V D D N K I
UniRef90_M1PUE1 MK V S I P T K D E G V V E P H F G K A P T Y T I I D T E T N Q
UniRef90_Q46BG8 MK I C V P S M G E D Q V G Q H F G K V L N Y I M Y D T E T S E
UniRef90_L0KXY3 MK I A V T A T E D A R M D P R F F G R C P Y F L V V E T D D G S F
UniRef90_X1KCN5 MK I A V V S E N N K I T S Q H F G R A E G F F V Y D G T N K E Y
UniRef90_U7VDQ6 MR I A I T S M G T S L V D P R F G R A Q Y L L I V E D G K L V
UniRef90_L4C534 MK V A I S T E D G F T I T R H F G E N E F L I Y E L S R D E I
UniRef90_L0HGY8 MR I A V T S E D F A T I S G S H A G R C R R F V V F E A D G G K V
UniRef90_K2R1E8 MR I A V T V K D D K M L S D E S H F G R A K L F L V Y D S G Q Q W
UniRef90_G4E6Z0 L L I A F G I D D G K E L S N K H F G M A K Y F H V Y R F S G D D K E
UniRef90_M1E5Q0 MK V A I P C T D G K E I S S K Y F G R A R Y F Y I Y D T K S Q E G
UniRef90_X1GMA0 MK I A V A C D G K N V S G H F G R A E G F E L F T E D G G N I
UniRef90_NOBCY2 MK I A V S A E G Q E L V N P R F G R C E Y F V I Y D Q Q T G S I
UniRef90_E6U9G1 R I A I P S T G G M D V G A H F G H C C Y T V I D V A D G Q M F
UniRef90_C8W5D7 MK V A V T T S G E D L V G H F G R C P C F I V V D L E T M E F
UniRef90_E1K1Z1 M I I G L P T D D G V T V S E H F G R S K N F I V V D I E N G K Q
UniRef90_X1G1U5 M L I A F P S Q G E S V I F E H F A A P V F A I Y D T S S G E Y
UniRef90_T0LMV6 MR I A I A L A K G E V Y P G P F G H A P R F A I Y Q V E G A
UniRef90_D4H3J8 MK V A I P V L D E K T V C S H F G K T P F F M I F E I N E N K
UniRef90_K7QW92
UniRef90_A9A6I7

UniRef90_A6DDA2 K F L E R E N G H A E N H H S H V K A A R L G E C K Y I V C R A L G P N M 80
UniRef90_X1Q4Y9 V I R R E I V A S P G H Q P G L L P A W L A E E G I S V V I A S G M G S R N A
UniRef90_T0MWF9 K N P R V I Q N P G F S A G S G A G M Q A A Q A V A D C N V V I A G G A V G P N A
UniRef90_W6N762 T Q I E K I L S E D L A H Q H Q G L A D L L V K H G T D V V I A G G I G G G A
UniRef90_UPI000376A10F E L L P K D M S V H A Y H G E D H P L F Q L G L A A I V T Q G A I G G Q G F
UniRef90_F7UVS7 K N T T E V I A N P P H E H G G C L R S V N L L A N A N G V D A I V A A G M G P R P
UniRef90_Q58000 K N K E I E N T N G M H G G G T T S A S L I A N M G V N A I I V A Q N I G P K A
UniRef90_W9H687 E P V R V E D I R L A E D Q I F H V F E S L D A V T V V I T G N A R E K F
UniRef90_UPI00046797E8 I L A R E I A T P F Q G E H V S F G A M P H W L A G A N L V I T G G I G Q R A
UniRef90_UPI00046D7199 E L M Q I E P A P E P F E G S F P Q W V K Q K N A D V V I V A G I G P K A
UniRef90_X1TC19 E A V P N P N L A A T H G A G I Q T A Q M V A G K G V T V I L T G N C G P N A
UniRef90_E4TH11 Q V I Q S K N S H G S H G S C H S T T V L K K L G V D D A V I C G G M G H N A
UniRef90_X0ZL8 E A V E N T G A Q G M G V G I K S G Q I M A D K G V E T V L T G S C G P N A
UniRef90_UPI0003B3698F I T A S D R L D L P L N M S M H A W D G L G K H L F E L D Y L I T A G C G G E G F
UniRef90_A8F470 D V K H I A I N T G E F H G G S R A I D V V I N H N A S V V I A H S M G Q K A
UniRef90_Q0W829 A E V E A I G N G S E D G G H S C A A P A F L L A H A D V Q A V L V S G I G G R P
UniRef90_D5X9F2 V G M K T I S A H G L Q H K Y D Q T A Q L L Q A N Q V D V V L A G K I N K K C
UniRef90_UPI000366F899 E R I R L S K A Q V F H H W E G E T H P L D E G A V I V A A S A G E G F
UniRef90_K6TV26 E T F Q I M E S N G K H M G G Q M T P G E F I A G S G A N T L V C A N S L G P K A
UniRef90_F4HKL9 K G F E V T E V P F E H H E P G D L P N F V K E H G G D V V L A Y G M G R K A
UniRef90_A4WTL7 R E A G R L D L P K E L S I H E F R G E G P H P L D E V D A V I A G S A G E G F
UniRef90_UPI00029A34C3 V N S E Y R E N T Q D E H D E H S H H Q I J E L I N D V D L L V A A I G K Y M
UniRef90_U2CK43 M K E T D I P N P G L R P A M L P E F L Q K V N A V I C G G M G G R T
UniRef90_R6ZR44 T A T E V L D N L P H E E G G C M R P V S L L A E H G A D A I V A A G M G M R P
UniRef90_B8GDH5 T S Q E I L V S P E G H G P M K L P A L L A E H K V T H V I A A G M G P A A
UniRef90_F0LHT4 E N V E T V I E V P F S D H S P G D L P N F I K E H G G E L V L A Y G I G R R A
UniRef90_A5D4Q4 E A V S N E Q N L S S A Q G G A G I Q S A E T V C R C G A E A V I T G H V G P K A
UniRef90_A1RVW2 E I V E V L Q N P H P P E G G G R G R A V V E M L K G V Q A V V A L S V G H G A
UniRef90_A6LKL6 L I I E E N P L E E H N P G D I P N Y I Y S K G A N V L V R G L G Q R A
UniRef90_S9SBG1 R E V G R L D L A E G M A H D F A G D G P H P L D Q A K V V M A S G S A G E G F
UniRef90_I3Y7D4 T A T R D I A N P F A E A H Q P G E I P E F I R O Q Q A E V M L S G M G G R A
UniRef90_U6REU4 I I V I E E T M V T P A H E P G L Y P A W V G Q Q G V I G T V I A G G M G E K A
UniRef90_X1TEW3 E A L A N P S I T A T H G A G I Q T S Q L I A S K G A T V V L T G N C G P N A
UniRef90_C0QD71 T G T E V L E P A H A G E I G V L P K W L H D H G I N V L A G M G P K A
UniRef90_UPI0004638493 K D V D F A Q N S G H G D G A C D N A V S N I K N L G A D A L I V A G I G P R P
UniRef90_C1DAC3 P V Q W L Q L P L A G T L H E A D D V I A D H P L A G I D V L I T A G A G D C L
UniRef90_A3PU3 E K L E V P E T Q P T F H D L H E D D I T P H P L D H S L I T G E A G V G L
UniRef90_H9UEH8 I S R R L S E N L H A E G H R H G H E E V F A S T G E I Q A V I A V R I G P H M
UniRef90_D1JGS7 K I V N N G D L N H V G V G N C S P I K A I K D I D I V V V N G I G Q G A
UniRef90_R6FQ75 R G V E V V I E V P F E E H G P G D L P K F I K E H E G E I V L A Y G M G Q K A
UniRef90_T0JJ2 D T V P N T Q N L E A A H G G A G I Q A G Q S L A K T G A S V L I T G N V G P K A
UniRef90_F8AAR6 Q A V E N Q A M A P Q G A G I A A A N F L A E N G I D T L V T G Q V G P K A
UniRef90_C5CI50 S S V E I E P N P F E D H G P G E I P E Y I Y R K G A K V L I A R G M G A R A
UniRef90_F5IV88 I E G T E T L A S P Q G G C G C K S N I A S V L Q D K D V I M L A G N M G T G A
UniRef90_G2TBW5 R E I D R I E J E R L Q H H F H F Q D D V P H P L D D G V A V V I A S A G E G F
UniRef90_UPI0003726333 Q T L P A P G C N S G G G A G I E T A R F L V G Q G V Q V L L A G H V I G P N A
UniRef90_B8D206 T F I K K V E N T P G E E E G H A D P E K A R S I E N V G V V G V S R F G G P
UniRef90_X1MP52 K N V K V V D S P A A S Y E H G A G P L V V K M L A D V G V V V A G E F G L G A
UniRef90_G8APW1 E R I E L A E D E V L H L A G D G R P H P I D A V R V V I T G S S G G G A
UniRef90_U5RWD1 G N V E E V S T V Q L A H G H E G L A N L L V K H N V D L V I T G G I G G G A
UniRef90_B9L879 K E V N A V Q N P G H A A G A C G N A V S N I Q S L G T D A L I V A G I G G R P
UniRef90_D3L3L9 V V K E E I Y T N P G H A P G V L P R W M K D L D V D I V I A G D M G P R A
UniRef90_F2NHF6 Q E V A T L P N V P H E Q G G C M A P V N H L A R H G V Q V L I A G G M G M R P
UniRef90_G2E3M7 D R L D L Q P N M S M H D Y Q G N D H P L F D L G L D V I I T Q S A G R G F
UniRef90_UPI0003B5109B I L T V I E I E P A P E H Y E G S F P E W I K S K N A D V V I V A G M G P K A
UniRef90_G8QFV4 L P A G E R E L A K E Q V I H F H F D D N G P H P L D G V E V I A S A G D G F
UniRef90_B7K4Y9 E K L E I L P D N E P T F H D L H N D D I T P H R L N G T I L I T G E A G E G L
UniRef90_M4YM33 N M V R E V R P G D L D S H R D H I E A I V N L L D D C D I I A V S E I G D M P
UniRef90_I8TST7 E S L P N T Q N L E A A H G A G I Q A G Q A I A K T G A S V L I T G H V G P K A
UniRef90_B9L878 K L L G F N E N T H A G E H H H K A S K V D D C D Y I V V R A V I G P N M
UniRef90_G1WJ58 T G T E I I D N P P H E E G G C M R P V G I L A D A G T D A V I A A G M G M R P
UniRef90_R9L563 S E T G V V E N P P H E S G G C L R P V G L L A G E G V D A I V A A G M G G R P
UniRef90_R6PQS5 E L V R A K E V V P L G D K T I A E F L T E Q D I N V V L C A N I R S A G
UniRef90_M1E914 K V L E N M A G V E S G H G A G I S A K K L V D A K V D A V V T G N C G P N A
UniRef90_Q67LE0 V H T E E V A N P G H G P G G S P P V F L A N Q G V N L V A W G I P Q H A
UniRef90_H8GG35 A G K E L L E L P K E G S F H E S S P L E L S P L D D V Q V L I A G G M G A S
UniRef90_I4D8Q2 R L V E V L S T V G L Q H Q H E G L A N M F K N K G V E V L V C G G I G G M
UniRef90_W8RN82 A L V P A R L D L P R G M A I H D W G D R A D P L F E M D A V I V A S C G A G F
UniRef90_UPI00042179CC T A I N N G D L N H E H G K C Q P I K A I A D I D V V L V L G I G A G A
UniRef90_E1QF93 G A V E V L F N Q G H V I Q G G C M A P V M T L K N A G V D V L L S G G M G A P
UniRef90_F6DF71 R L L E I R E N P A K E H G E E K H A K M R E L L K D V A L K V A R F G H G G
UniRef90_M1PUE1 T S V E M L P V P D H G A G G C M V P V N F L R D A G V Q A I V V G G I G A R P
UniRef90_Q46BG8 V T V I P N T S E H M G G T G L P P E Y L H N N G V N T M L C G G L G F K A
UniRef90_L0KXY3 V S V I P N T S E H N G G V I G L P P E L M S Q N G V S V M L C G G L G T K A
UniRef90_X1KCN5 E A V E N E S V S L G G G A G I Q S A Q V M A D K G V Q T V L T G N C G P N A
UniRef90_U7VDQ6 V V K E E I Y T N P G H A P G V L P R W M K D L D V D I V I A G D M G P R A
UniRef90_I4C534 E A V D N S K G F N A F S G A G I Q A G K L L A D K K V D V L V T G N C G P N A
UniRef90_L0HGY8 K L I E R R I N S T P E E D H G S R E K A R A L K D I P V L V G Y Q F G P N
UniRef90_K2R1E8 P P R C G G D P N L E E T I E L I S D C D I L L V S Q I G P G A
UniRef90_G4E6Z0 A R V E V P G A L V F H H Y Q G G E H P L L E A R P E A V I T Q S A G A G F
UniRef90_M1E5Q0 E E F E N V I Q N F K A P Q G A G I Q A A Q T I I N A N V D V V I S K N I G P K A
UniRef90_X1GMA0 E F V E K R E N V K F E G D E H G D P R K A K A L Q G I D V V V G R R F G P N L
UniRef90_NOBCY2 G L V R I E C K F Y Q N P H K P G F L P N Y L N D N T I I A G G I G G S A
UniRef90_E6U9G1 T E C K F Y Q N P H K P G F L P N Y L N D N T I I A G G I G G S A
UniRef90_C8W5D7 E A I A N P G T S G A G G A G I K T A Q A L A N K K I D V V L V G N V G P N A
UniRef90_E1K1Z1 T K V D T L P N V P H V I Q G G C M A P V N H L S E N G V T V L L A G G M G M R P
UniRef90_X1G1U5 E I I Q N T A V S A H G A G I A A A Q L V A S R G V T A V L T G N V G P N A
UniRef90_T0LMV6 L F R K V E D N P H N K E L D D R H G R V L K L L T D V K K V I C Y N L N A R M
UniRef90_D4H3J8 G Q I L N E E A T L S A G S K N A S D L L T K A G I D V V V A A G I G D G A
UniRef90_K7QW92 R L L E I R P N P A A L H G E G K H E K M R E L L K D V D L K V A G A R F G H G
UniRef90_A9A6I7 E L V G S K Q V G E E H G G Q G P G T T V I Q T L E G V N A V V F V N M G Q R S

UniRef90_A6DDA2 K D A I L R E G I T P I M V S D G E N A F E V L E K I K G E L K
UniRef90_X1Q4Y9 Q S L F R E N R I E V V I N A E D D P E K A V W D Y I K G T L A
UniRef90_T0MWF9 F Q V L S M A K L E V L E C P G V T V Q K A L E E Y M Q G R L Q
UniRef90_W6N762 L L G L Q N N G L K V I K G A S G E Y I K V I E E Y I N G N L K D
UniRef90_UPI000376A10F V Q R M G R H G I T V H A T S E S D P L P A V
UniRef90_F7UVS7 L M G F N Q A G I T V Y
UniRef90_Q58000 Y S V F K Q L G I D V Y K A N T T S I D E C I K
UniRef90_W9H687 I R K C A G R G I Q A V L T S E T D P I A A I K G L F A G T L P
UniRef90_UPI00046797E8 S Q M L R D G G V N V A C V P P
UniRef90_UPI00046D7199 K E L F E S F G I R V I S N V R P K K A K E L V E D F
UniRef90_X1TC19 F Q T L S A A G I Q V I V G V S G T V K D A V E K Y K K G E L Q
UniRef90_E4TH11 L L K F K N M G I K V Y Y S S D N L T V K E L T I Q K A K E
UniRef90_X0ZLB8 F Q T L Q A A G I K V I T G A S G T V Q E A I D R F K
UniRef90_UPI0003B3698F I Q R L A R S G V Q V K V T S E T D P V A A V E A L L A G N L P
UniRef90_A8F470 L D N L H Q A G I T V L K T I A K T V E E A V F E Y K Q G K L
UniRef90_Q0W829 L M S L T Q Q G I K V Y A G A V G K V S D A V Q D F N D G L
UniRef90_D5X9F2 F N T L K N Y G F L V I S G V D G D I I S A A I A Y A Q G E L
UniRef90_UPI000366F899 R R R M D K R G V Q V L L T G E R D A A R A L R A V L N D E V L P
UniRef90_K6TV26 V Q M L Q N A G I E V Y S G A S G T V I E A V Q D W A E G K L K
UniRef90_F4HKL9 I S Y F T E L G I Q V I T G V Y G S I K D V V R A F I D Q V L E I D P K W R E
UniRef90_A4WTL7 V R R M A A R G I R A V A T A E T D P A E A A A A L A A G R L R P A A P
UniRef90_UPI00029A34C3 K K D V D R S S I K Y E I V N E E K L D Q L I D
UniRef90_U2CK43 E E L C R E K G I A T Q A G V I G D T R T A A L D Y L K K L R N D G
UniRef90_R6ZR44 L M G F A Q A G I T V Y F E S E T P N V I G E V
UniRef90_B8GDH5 V D L F C A T N I E V F L G V Q G K I E T V I R D F
UniRef90_F0LHT4 M T Y F Q S L G I Q V V T G A H G K I E D V V K D F
UniRef90_A5D4Q4 F K V L N A A G I K V Y C C T G G T V A E A L E K F K G E L K E T
UniRef90_A1RVW2 Y R H L Q A A G I E V Y Y P P R I P I E E A L Q A L L Q
UniRef90_A6LKL6 I Q H F Q Q L G I E V I R G A S G T V K E L I Q L Y L E N N L K N
UniRef90_S9SBG1 I R R M D A R G I V T V L T E E T D P V A A I R Q Y V E G A L A
UniRef90_I3Y7D4 I E F F T Q A G I K T A T G A T G T V R E S L E K Y L G G T L V A A A P
UniRef90_U6REU4 K E L F R Q E N I Q V F V G A D A K T P R E L V E D F
UniRef90_X1TEW3 F Q T L S A A G I Q V I V G V T G T V K D A I E R Y K K G E L Q
UniRef90_C0QD71 Q E L F A E A G V K V V T G A P T E S P E V L V K Q
UniRef90_UPI0004638493 F E G F I N E G I D V Y Y D D S T N T V E E A I N R F
UniRef90_C1DAC3 R Q R L A R A R G I R L V I S G Q T P D M A L A G Y L A N
UniRef90_A3IPU3 K E R L S R R G I T V Y I T S E T P L A A I Q G V I K G N
UniRef90_H9UEH8 F E D L K E R G I G I Y L V R P G T S I D E A I A K F
UniRef90_D1JGS7 I S A F E Q L G I E V Y V G A S G T V S E A L S A F Q A
UniRef90_R6FQ75 I N G L N N G I K V F K A V E G T I G E N L K A Y S E G R L
UniRef90_B7R5L8 I A F F N Q L G I T V V T G A H G R I K D V V D A F I K Q A L E V D P H W K E
UniRef90_T0IJG2 F K V V N A A N I A M Y S I G T M G T V E E A L A A F
UniRef90_F8AAR6 F A V L N A A G I K V A Q A Q A G T V K E A I E A F K Q
UniRef90_C5CI50 K A F F S S F G V E V L T G A S G S L K E I I D G Y L E G Q L K S
UniRef90_F5IV88 L N I L T K H G I K V Y R G C S S G
UniRef90_G2TBW5 G R R M T K R G V E S V L T A E S D P L K A V T D H L E R T L A P P
UniRef90_UPI0003726333 M R V L D A A G V Q V Y T G I E G T
UniRef90_B8D206 I K R V K H F V P V L V Q A S E I E E G L K E L Q
UniRef90_X1MP52 S V F L K D K N I R V V K V E A G T N V S R A V
UniRef90_G8APW1 I N H M K R R G I E P V T T L E T D P V Q A I R D W F A G T V R T
UniRef90_U5RWD1 L M G L Q Q C G L K V I K G A S G E Y R D V V Q S Y I D G K L E D
UniRef90_B9L879 L E G F K Q V G I K V Y F D N V S P T V E E A I D K F
UniRef90_D3L3L9 R D L F A S F G I T V Q T Y D P M S V D S A L E A F K G Y L S G S
UniRef90_F2NHF6 L M G F N Q V G I D V L Y G G E T Q T V G E A L D A L I N G R L P
UniRef90_G2E3M7 T E R M A Q R G I Q V H T T S L T D P R D A A T T L A A G R P L P
UniRef90_UPI0003B5109B K E M L E N A G I R V I T N V V P K N A R E I I E D F
UniRef90_G8QFV4 I R H M A K H G A Q V L L T G E T D P A A A L A R V L A G E V L P
UniRef90_B7K4Y9 T E R L S R R G I T V Y I T S E T N P L T A I Q G V I E G N P T P
UniRef90_M4YM33 R S V I E S R K K K V I V T D G
UniRef90_I8TST7 F K V L E A G K I A M Y S I G D M G S V E D A L A A F
UniRef90_B9L878 K D A L E M A G V K I K V I S D G E T A P E V L E K I K E Q L K
UniRef90_G1WJ58 M Q G F A A A G I T V L Y D A E T P L V G D V A R R
UniRef90_R9L563 L A G F N Q A G I T V Y
UniRef90_R6PQS5 R T L L R T K R I E L I Y G V T G N A D E A M I R Y L S G E Q L G T
UniRef90_M1E914 F Y V L S E N N I K I Y L S N A K T V K E A I E D F K N
UniRef90_Q67LE0 R E L F R R H G V E Y I V G C H G E A R R V L Q D Y L A G T L K
UniRef90_H8GG35
UniRef90_I4D8Q2 I N G L N A V G L Q V V S G A S G R V A D V A Q A Y
UniRef90_W8RN82 L R R L L G R H G V R V A V A A T P D P E A E V A N F L
UniRef90_UPI00042179CC I N K L N S L G K K V F K A E
UniRef90_E1QF93 L M G F Q Q V G I D V Y F M G G A P T V N L A V E L L
UniRef90_F6DF71 M Q G F A E V G I D V Y W A D R N S I P D A A A V M E K F S A G Q L P
UniRef90_M1PUE1 V N M F E S Y G I E V F V G A G G T
UniRef90_Q46BG8 V A M F E Q Y G I E V Y V G A Q G T I W D A L K A
UniRef90_L0KXY3 Y Q T L A A A G I A V I V G C G G T V A D V V E Q F K A
UniRef90_X1KCN5 L N N L K S L D I K V F S G L E G
UniRef90_U7VDQ6 F K A L Q A A G I K V G V E Q S G T V Q E T L E R F Q Q
UniRef90_I4C534 I L R I K D K F L P V L S K E A R I E K T L E L L K K
UniRef90_L0HGY8 Q K K L I N R G V R P L I M P V F I E D A L E K L Y S V L Q N G
UniRef90_K2R1E8 V Q R L T A H G I A V H V T G A S D P L A A V
UniRef90_G4E6Z0 F N L L R S Q N I K I Y T T D E
UniRef90_M1E5Q0 L R L L K K F V C I V A R R E T I D D A I Q
UniRef90_X1GMA0 R E Y L Q K R G I K V L E G F D G K V E D I I
UniRef90_N0BCY2 I E L F N E K N I E V I A G A R G D A A E A V E Q Y L K G Q L K S T
UniRef90_C8W5D7 V E T L N A A K I D L Y S G I T G T V Q E S I D L Y K K G A L K T N Q P
UniRef90_E1K1Z1 L M G F N Q V G I K V Y H G G D A P S V G M A V Q A F L S G K L P
UniRef90_X1G1U5 Y S A L S S S G I K I V T G V S G I V E D A V R R F
UniRef90_T0LMV6 E D N L A S L K I S I K R I E L G S K I D E I L R E
UniRef90_D4H3J8 I N R L N G L G I E V F W S H A G M V E Y D L K L F L S G K L A G
UniRef90_K7QW92
UniRef90_A9A6I7 V N A L A S V V E L Y Q T S L E D V E A V L N E F L N G N

UniRef90_A6DDA2
UniRef90_X1Q4Y9
UniRef90_T0MWF9
UniRef90_W6N762
UniRef90_UPI000376A10F
UniRef90_F7UVS7
UniRef90_Q58000
UniRef90_W9H687
UniRef90_UPI00046797E8
UniRef90_UPI00046D7199
UniRef90_X1TC19
UniRef90_E4TH11
UniRef90_X0ZLB8
UniRef90_UPI0003B3698F
UniRef90_A8F470
UniRef90_Q0W829
UniRef90_D5X9F2
UniRef90_UPI000366F899
UniRef90_K6TV26
UniRef90_F4HKL9
UniRef90_A4WTL7
UniRef90_UPI00029A34C3
UniRef90_U2CK43
UniRef90_R6ZR44
UniRef90_B8GDH5
UniRef90_F0LHT4
UniRef90_A5D4Q4
UniRef90_A1RVW2
UniRef90_A6LKL6
UniRef90_S9SBG1
UniRef90_I3Y7D4
UniRef90_U6REU4
UniRef90_X1TEW3
UniRef90_C0QD71
UniRef90_UPI0004638493
UniRef90_C1DAC3
UniRef90_A3IPU3
UniRef90_H9UEH8
UniRef90_D1JGS7
UniRef90_R6FQ75
UniRef90_B7R5L8
UniRef90_T0IJG2
UniRef90_F8AAR6
UniRef90_C5CI50
UniRef90_F5IV88
UniRef90_G2TBW5
UniRef90_UPI0003726333
UniRef90_B8D206
UniRef90_X1MP52
UniRef90_G8APW1
UniRef90_U5RWD1
UniRef90_B9L879
UniRef90_D3L3L9
UniRef90_F2NHF6
UniRef90_G2E3M7
UniRef90_UPI0003B5109B
UniRef90_G8QFV4
UniRef90_B7K4Y9
UniRef90_M4YM33
UniRef90_I8TST7
UniRef90_B9L878
UniRef90_G1WJ58
UniRef90_R9L563
UniRef90_R6PQS5
UniRef90_M1E914
UniRef90_Q67LE0
UniRef90_H8GG35
UniRef90_I4D8Q2
UniRef90_W8RN82
UniRef90_UPI00042179CC
UniRef90_E1QF93
UniRef90_F6DF71
UniRef90_M1PUE1
UniRef90_Q46BG8
UniRef90_L0KXY3
UniRef90_X1KCN5
UniRef90_U7VDQ6
UniRef90_I4C534
UniRef90_L0HGY8
UniRef90_K2R1E8
UniRef90_G4E6Z0
UniRef90_M1E5Q0
UniRef90_X1GMA0
UniRef90_NOBCY2
UniRef90_E6U9G1
UniRef90_C8W5D7
UniRef90_E1K1Z1
UniRef90_X1G1U5
UniRef90_T0LMV6
UniRef90_D4H3J8
UniRef90_K7QW92
UniRef90_A9A6I7

K

R

1 10 20 30 40
UniRef90_H1YXJ0 MKKVAIVT S K D K D S V F G R F G R T P Y F L I F D T E S D E C
UniRef90_X0X6U1 MKVAIAE S N N G L E I V S A G H A G R Q A R H W L V L E V Q E S D G K V
UniRef90_L0GT64 MKVAIAI A T H D Y T D V L S A S G H A F G R Q A R H W L V L E V Q E S D G K V
UniRef90_I4C533 MKVAIAI P S T M H P G G L L N D D H F G R S P Y F L I F D T E S D G K V
UniRef90_D7DT92 MKKICIT S T S T E N G K E L L N D D H F G R S P Y F L I F D T E S D G K V
UniRef90_C3J930 LKLA V P T R E N S V A D D D H F G R S P Y F L I F D T E S D G K V
UniRef90_H2JM9 MLYAVP NDGGERVY S G H F G R S P Y F L I F D T E S D G K V
UniRef90_I4BU57 MKVMI A V D G D M V C P H F G H S P E F R L V E I D D G N M
UniRef90_UPI00046D512F MKLCF P V E R P E R V Y S G H F G R S P A F V L V D T E T S Q E I
UniRef90_L0HKLO MKIAV P S T D E S E I V S M H F G R A P Y Y T F V K L E T E N S G E I
UniRef90_A4Z1Z6 MR I A V P T R D W S T I S S H A F G Q A R C W L L Y D L T N H A A
UniRef90_W0EIA8 K R R N T N M K L A V A I E G K E V A K H F G H C S H F V V A Q L D D A D
UniRef90_W0E0T5 MKVAI P T A N G P G S L D A H F G H C S H F V V A Q L D D A D
UniRef90_E6VQX7 MKIAV L P T A N G P G S L D A H F G H C S H F V V A Q L D D A D
UniRef90_K1RD69 MKIAV P T Y E N G Q Y F S D V T F F K N A R T F Y V Y E V S E N W G A
UniRef90_K2AQ77 MKICV P T K N N S E V I S D H F G S A P F F M I V D T A G K C
UniRef90_G9F5M9 MKLAI S S T G K T M L D R F G R C K Y F Q I Y D I E S K E V
UniRef90_H6SLA3 MR F G L S T G N F R T L C A H A G R A R R Y L V Y E V D E S A G T
UniRef90_A0A017RS47 MR I A I S S E G K S L D V R F G R C N Y F L I Y D L E S A G D M
UniRef90_B2A0V6 MRVA V A V E P S G Q L S D Q R F G R C E Y F V L Y R Q N D D E V
UniRef90_I0HS22 MRVA V A V E P S G Q L S D Q R F G R C E Y F V L Y R Q N D D E V
UniRef90_G2TFQ6 MKIAV M L M G D K L S P H F G G S E K V C I Y T I E N G A I
UniRef90_D9TG17 VLVAV A T E N G Q Y F S D V T F F K N A R T F Y V Y E V S E N W G A
UniRef90_A0PYW6 MKIAV S S T G K L M D D R F G R C T Y F V I Y D S E T N E E
UniRef90_K1JP43 MKIAI P S V G G L Q V G A H F G H C D C Y T L V D V E D G A V
UniRef90_O58552 MRVAI P A E D K S N V A G H F G R S R Y F V F V D I E G G Q V
UniRef90_D0YVX0 M M M A V A V T G R H E V A G H F G K A A F V V F D E Q G Q V
UniRef90_R6CR44 K T A I P T N D G K L W A H F G K A P Q V T F V T I D N N K V
UniRef90_R5FZV8 T L K L A V P T M G K A G L N A H F G H C D C F T L V D I V D G M L
UniRef90_Q12UC2 MKL I C I T S R G F S Q C D P R F G R C P Y F V I V D H D S M S F
UniRef90_K1XZX9 K F A I P L E N G V L C S H F G H C Q Q F A I I D V E N N A I
UniRef90_Q12Y84 MKI C V T A T D K N L D L R F G R C P Y F L I Y D S E T M E F
UniRef90_UPI00034B94CA MKIAV A S H E G E N L V A G H A G Q S R F W L L Y D L S A P G H
UniRef90_E3I2P3 MKIAI A T K D W Q S V A G H A G Q S R F W L L Y D L S A P G H
UniRef90_UPI00035833B MKL I A I T A Q G N D L F D P R F G R A Q Y F L I Y D T E T D S F
UniRef90_UPI00029A1D02 MR F G L P S P N G M E V N D H F G M S E H F A I L D V E G D N I
UniRef90_A0LNS8 MRVAI P S T H P G G L E A H F G H C D L Y T L V E V A D G K V
UniRef90_D1Z1B3 MR F G L P S P N G M E V N D H F G M S E H F A I L D V E G D N I
UniRef90_W9V891 MKVAI S S S G N D Q V D P R F G R A Q Y F L I V I D T E S S E T M
UniRef90_X1UB02 MKIAV S S S G G S L V S E K F F G R A Q Y F L I V I D S E T M
UniRef90_X1K1D1 K I A I P T N G E V V D A H F F G R A Q Y F T V F E I E N G N M
UniRef90_G2FY04 S L V A V P S D A P G G L S A H F G H C D V Y T L A R V E N G A V
UniRef90_G1UVE4 MKIAV P V K E K S M P D D R F A R A K Y F L I Y D T P E T G N E
UniRef90_I2F3F9 MKIAV P A D E K S L V C P S F F G R A P Y F L I Y D T E T N E S
UniRef90_W8T9I8 E T G G V K R MKI C V A S G E G L E V D P R F G R C S Y F V I Y D P E T R N V
UniRef90_Q46BG7 MKIAI P S T G D W A S V A G H A G K A R R W F I Y D L D G D A L
UniRef90_A7IGH4 MKIAI S S A G K D L L D S R F G R C K Y F Q I H D T E S G E V
UniRef90_D8GTY8 N K MKI C I T S Q G K D L I D P R F G R C K Y F I F Y D T E T N Q Y
UniRef90_F8C310 MKIAI A P D E N S P I S P I F G H C C A Y A I Y D T A T D K I
UniRef90_B5IFB4 MKIAI P L E E G R L S Q H F G H C C R Q F A I I E A E G T I
UniRef90_UPI0003737990 MKIAI P S E S D T G L S G H F G H A P Y F T I Y T E D M D I A
UniRef90_R7B3M1 MRVAV S A T G P T L S D A R F G R C P Y F V I V D P D T M Q F
UniRef90_X1QYJ5 MKLAI P S Q G R D L S N D R F A R A E L F V I Y D L D N D E I
UniRef90_H2J7P8 MRVAI P T S D G K N T S K H V A L S K Y F N I Y E N N E N I K
UniRef90_W0JLU3 MR I A I S S E G K S N V D S R F G R A R Y F L V V D T E S M N Y
UniRef90_I3VXW8 MKIAI S A N G K E L V D A R F G R C D L F Q I H D E G E K K
UniRef90_UPI000288EBBB MKIAI S C Q G N D L I D P R F G R A K G F L V C D T D A D T Q
UniRef90_C6BY96 MKIAV S S S G N S Q I D P R F G R C A Y F V V V D S E N M A
UniRef90_D8F6A1 MKIAV S T S Q G N G L I D P R F G R A S G F M I V D S D T L E H
UniRef90_F3Z2B6 MRVAI P T N N P G G L D A H F G H C D V F T V I E L N E Q G I
UniRef90_K1YJL6 MR I A V A S T E G Q V Y D D G H F A H A P I F K L I Y E Y T P G G G
UniRef90_A3MVM1 MKI C I T S S G N S D I D P R F G R C N F F L F Y D T D T K Q Y
UniRef90_B5YHR5 MR I V I S T E N G N V A Q H F G R C P E F T L V D I E N G V L
UniRef90_UPI0003645D0A MKI A V P V E E N L E I V T R T F G R A P Y F A I F E Y E G N N F
UniRef90_UPI000463A22B K I V L T A N D R E G L S G H F G H C S H F V L A Q L D S D N K
UniRef90_W9VDQ4 M L I A I S S Q G R T L M D P R F G R A S G F V I Y Q S E S G E H
UniRef90_UPI0003B6D0D3 R V A I P S V G K D L V S D R F A R A E Y F I I Y D T E S G N V
UniRef90_B1LC59 MKI C I T S Q G N S E V D S R F G R C A Y F L I I D P E T M D F
UniRef90_X0ZPZ3 MKIAV T A K D D V K V D S R F G R A F Y F A L I D L D T E E V
UniRef90_L0KA95 M L V A V P T S E G L L I C E S H F G S P L Y A F C D T D S G R
UniRef90_B3EQI2 K V A V P T S G G R V H E S L V R A E T F T V E L D G G N I
UniRef90_C6A552 M A M A L A L T P R E Q V A G H F G K A A V F V I Y D Q Q G Q V
UniRef90_Q1ZND2 M A M A L A L T P R E Q V A G H F G K A A V F V I Y D Q Q G Q V
UniRef90_W0JIT4 G D I L L S E H F G R A Q R F V I Y E I E N G
UniRef90_UPI00036FADB7 Q Q R P K G A L R T A I A T Q A M K G L K A Q F E S A K R L A I Y D A I R D A W
UniRef90_R1AXH5 MKI C F T S T G E T M L D P R F G R C K Y F L I Y D T E T K E H
UniRef90_I3BR18 M K T G H L K I G V S S Q N D R T I T G H A G K G R R F E V P D G A D V
UniRef90_H5XTD8 MKI A I P V D D K T T V C Q S F G R T P Y Y L I Y D T E S A K P
UniRef90_UPI00046E5D42 MKI C I T S E G D A K V D P R F G R C R Y F L I I D A D T L E F
UniRef90_K2QBQ4 I C V P S N E G L Q V S Q H L G K T P Y F V L I K W E N D Q I
UniRef90_W0JXX7 MKI A V P V K D N S L I F P R T G Q A P Y F A I F N D S
UniRef90_F6D2E1 I C V P T E S D T E M S A H F G K T S Y F V F A E V E N G I T
UniRef90_Q8TP38 K P E K I M K I A V P V Q G K L V N A H F G K S N Y F A I V D I A T E K
UniRef90_F0S3Q1 MKIAV P V Q G K L V N A H F G K S N Y F A I V D I A T E K
UniRef90_X0V2F6 MKIAV T S S G D D E V E A R F G R C P Y F L I I D P D T L E F
UniRef90_UPI0004180F39 MKI V F T L K G G G L V D R R F G R A E T F L V Y A N S E T G E R
UniRef90_A1BGF8 MKV I P L N E A S R M C E H F G S A P Y Y A V A D T E T
UniRef90_O58610 I K I A I P T S K G G L V H E S L V R A E T F T L V E V K D G K I
UniRef90_UPI00046FD7F0 MKI A V P T L M S D A E I D P R F G R C P Y F V I V D P D T M Q F
UniRef90_A6UVB0 MKI A I P M E S D K I C S H F G K S P Y F L I A E I D D D K K
UniRef90_C0QA75 MKL C I T A A G K S I D A N F G R A P W F L I V D T D T G T I

UniRef90_H1YXJ0
UniRef90_X0X6U1
UniRef90_L0GT64
UniRef90_I4C533
UniRef90_D7DT92
UniRef90_C3J930
UniRef90_H2IJM9
UniRef90_I4BU57
UniRef90_UPI00046D512F
UniRef90_L0HKL0
UniRef90_A4Z1Z6
UniRef90_W0EIA8
UniRef90_W0E0T5
UniRef90_E6VQX7
UniRef90_K1RD69
UniRef90_K2AQ77
UniRef90_G9F5M9
UniRef90_H6SLA3
UniRef90_A0A017RS47
UniRef90_B2A0V6
UniRef90_I0HS22
UniRef90_G2TFQ6
UniRef90_D9TG17
UniRef90_D4H6W5
UniRef90_A0PYW6
UniRef90_K1JP43
UniRef90_O58552
UniRef90_D0YVX0
UniRef90_R6CR44
UniRef90_R5FZV8
UniRef90_Q12UC2
UniRef90_K1XZX9
UniRef90_Q12Y84
UniRef90_UPI00034B94CA
UniRef90_E3I2P3
UniRef90_UPI00035B5833B
UniRef90_UPI00029A1D02
UniRef90_A0LNS8
UniRef90_D1Z1B3
UniRef90_W9V891
UniRef90_X1UB02
UniRef90_X1K1D1
UniRef90_G2FY04
UniRef90_G1UVE4
UniRef90_I2F3F9
UniRef90_W8T9I8
UniRef90_Q46BG7
UniRef90_A7IGH4
UniRef90_D8GTY8
UniRef90_F8C310
UniRef90_B5IFB4
UniRef90_UPI0003737990
UniRef90_R7B3M1
UniRef90_X1QYJ5
UniRef90_H2J7P8
UniRef90_W0JLU3
UniRef90_I3VXW8
UniRef90_UPI000288EBBB
UniRef90_C6BY96
UniRef90_D8F6A1
UniRef90_F3Z2B6
UniRef90_K1YJL6
UniRef90_A3MVM1
UniRef90_B5YHR5
UniRef90_UPI0003645D0A
UniRef90_UPI000463A22B
UniRef90_W9VDQ4
UniRef90_UPI0003B6D0D3
UniRef90_B1LC59
UniRef90_X0ZPZ3
UniRef90_L0KA95
UniRef90_B3EQI2
UniRef90_C6A552
UniRef90_Q1ZND2
UniRef90_W0JIT4
UniRef90_UPI00036FADB7
UniRef90_R1AXH5
UniRef90_I3BR18
UniRef90_H5XTD8
UniRef90_UPI00046E5D42
UniRef90_K2QBQ4
UniRef90_W0JXX7
UniRef90_F6D2E1
UniRef90_Q8TP38
UniRef90_F0S3Q1
UniRef90_X0V2F6
UniRef90_UPI0004180F39
UniRef90_A1BGF8
UniRef90_O58610
UniRef90_UPI00046FD7F0
UniRef90_A6UVB0
UniRef90_C0QA75

50 60 70 80
K A V K N P Y S E E A S G V G P R A A Q L L V D N S I N K V I T G N V G G N A
K E P V K V I A N P Y S H G E P G Q V P S F L K E Q G I E V I I A G G M G P R A F
E T P Q R L E L A P K H G E V L H H A W K E D G P H P L Q E D V I S V I V A G S A G D M R F
T D I S I V Q N P A P V I O G G C A A P V N L L H Q T G A H A I I V V G G I G M P P
E A I S D N T S S A H G A G I G S A Q L I I Q N K A K V L I S G N I G P N A
K A S T T L P S P Q G C G C K S N I Q A T L Q E M G V D L M L A G N M G D G R A
Q N L A N I A A M P Q G S G C K A K S Q M I Q S L D Q N I Q S L D V A V L V R N M G E R A
U P I 0 0 0 4 6 D 5 1 2 F R V V K K E I Y T N P G H A P G V L P R W M K D V D I V I A G D M G P R A
D A V T N R D Q H G P G H G R C S P L K A L E D G V D A V V V G G I G R G A
U P I 0 0 0 L 0 H K L 0 K N V E T I A V P F A E H H G P G D L P N F V R E H G G E V V I A Y G M G H R A
U P I 0 0 0 A 4 Z 1 Z 6 S R V E L A K D Q V L H H F K D D C P H P L D G T D I V L A G S A G D G F
U P I 0 0 0 W 0 E I A 8 M N S E T I P N P F D A G H R P G F L P N F L N D V K V I I S G G I G G A
U P I 0 0 0 W 0 E 0 T 5 R L V G A E V V I A N P F A D A H Q P G Q L P A Y I Q D A D V V L A G G M G A K A
U P I 0 0 0 E 6 V Q X 7 K D V R T L P N V P H Q Q G G C M A P V N H L A Q N S V K V L I A G G M G M R P
U P I 0 0 0 K 1 R D 6 9 T H A K V V D T N G S G H G H L A G F L M Q H G V D S I V C G G I G G G A
U P I 0 0 0 K 2 A Q 7 7 E A I L E N E G I N N N Q H H S H G M C Q P L Q T I H D F S I V V R G I G Q G A
U P I 0 0 0 G 9 F 5 M 9 K I L E N E G Q N A S G G A G I V I A S N Q L V D E K I D V I I T G N I G P N A
U P I 0 0 0 H 6 S L A 3 S A L A P L Q L A P G M T V H D F H G R G P H P L D D D L D I V I T G N C G P R G Y
U P I 0 0 0 A 0 A 0 1 7 R S 4 7 K C V E N S G Q S A S G G A G I A A A Q Q I I D E K V I I T G N I G P N A
U P I 0 0 0 B 2 A 0 V 6 E T L P N R A R N S D S G A G V R A A Q L I A D Q G V K V I I T G K V G P K A
U P I 0 0 0 I 0 H S 2 2 A V E L A R E Q L P H H F K D D G P H P L R G C E L L V V G S A G E G F
U P I 0 0 0 G 2 T F Q 6 A D V K V L A J A P A H E H G G C M A P V R L L A E A G V T A L V T A G I G G R P
U P I 0 0 0 D 9 T G I 7 I T K E Y F E M P E H R A G L F A K F I K E K G A D V V I A G S M G E R A
U P I 0 0 0 D 4 H 6 W 5 H L R E I R T L R Y D D S D G H L L R N V Q E L L N D C S V M V C S V A G K S A
U P I 0 0 0 A 0 P Y W 6 R F I L E N E G H K T R G A G A G I A A A Q Q I L D E D I N V I I T G Y L G P N A
U P I 0 0 0 K 1 J P 4 3 V K S E V I P S C A H E H G G C L A P V N Y L A D R G V T V L L A G G M G M R P
U P I 0 0 0 O 5 8 5 5 2 K N V E V V E V P F E E H G P G D L P N F I K D H G A K L V I T Y G I G R R A
U P I 0 0 0 D 0 Y V X 0 A L V E N H T K A I H E G C K H K K R I Q R Q L S D L G V Q I V L G N I G Q R R S
U P I 0 0 0 R 6 C R 4 4 I A K E V K D S P A H G H G V M A E F L A E N G V E E V V C G G L G A G A
U P I 0 0 0 R 5 F Z V 8 T N V T E L D N P P H E E G G C I A I V D L L K G V Q A I A A G M G M R P
U P I 0 0 0 Q 1 2 U C 2 E A L E N P G P L A E G G A G I K A A Q A L T A L N V D V L L T A G N M G P N A
U P I 0 0 0 K 1 X Z X 9 V G E K L V T P P P H E P G L L P G W L A E C G V T D V I A G G M G Q R A
U P I 0 0 0 Q 1 2 Y 8 4 K A V D N S A A S A A G G A G I Q A A Q N I S A D K G I D V L L T G S I G P N A
U P I 0 0 0 U P I 0 0 0 3 4 B 9 4 C A E F I E N P A R Q D G S G A G I K A V Q A V A D V E A V V V P R I G P K A
U P I 0 0 0 E 3 I 2 P 3 I Q L T N A E L L H Y F E D D G P H P L D G V N V V V A G S A G D G F
U P I 0 0 0 U P I 0 0 0 3 5 B 5 8 3 3 B E A I A N E A V N A P Q G A G I A A A N Y L A E K G S L L I T G N C G P K A
U P I 0 0 0 U P I 0 0 0 2 9 A 1 D 0 2 V N V Q V V P N P G Y S Q G G A G A V A A A H F V Q G A D V V I A G G M G P N S
U P I 0 0 0 A 0 L N S 8 V K V K T L P N V P H Q Q G G C M A P V N H L A R H G V Q V L I A G G M G M R P
U P I 0 0 0 D 1 Z 1 B 3 V K M E F V S D S P E L K A H K T P A A L L A E Q G V N V L A G G I G S H M
U P I 0 0 0 W 9 V 8 9 1 E D K V V A K L E L L Q G V A A V Y A V S I G S S S
U P I 0 0 0 X 1 U B 0 2 K P V A N A A Q S A G G G A G I Q A A Q T V A D Y E V E T V L T G N V G P N A
U P I 0 0 0 X 1 K 1 D 1 K F D V L A P N P Y I G E L S G E V G P H T A S L I A K C E I V L T G T C G P N A
U P I 0 0 0 G 2 F Y 0 4 K K V E L L S A T P G L Q H Q H G E G L J A S M F K R N G V E V L I C G G I G G M
U P I 0 0 0 G 1 U V E 4 S D V R V L P N S G H E H G N C L Q P V Q E L A Q Q G V T A L L A G G M G M R P
U P I 0 0 0 I 2 F 3 F 9 E Y I E P D N S V A H G A G P M A V N M L T K S K V D A L L A F H R I G G N A
U P I 0 0 0 W 8 T 9 I 8 K F I D N S A A A S Q G G A G V K A A Q T I I D S K A D A L L T P R C G E N A
U P I 0 0 0 Q 4 6 B G 7 E S I S N A A A F T S G G T G I K A E I V A N A G I D V L L T G T M G P N A
U P I 0 0 0 A 7 I G H 4 P A A A R V I E L G K E S I L H H F T D D R P H P L D G V A L V I A G S A G D G F
U P I 0 0 0 D 8 G T Y 8 K I I E N K G Q E S S G G A G I A A S N Q L I D E V N A I I T G N I G P N A
U P I 0 0 0 F 8 C 3 1 0 E V V E N P W R E A P K G A G T Q A G Q F V A S K G T K I L I T G N V G P G A
U P I 0 0 0 B 5 I F B 4 E F V P N A S A M Y A R G A G V Q A A Q Q I A N L G V T V I T S G I G P N A
U P I 0 0 0 U P I 0 0 0 3 7 3 7 9 9 0 L R E T L T P P H E P G L L P G W L A E R G V T E V I A A G M G Q K A
U P I 0 0 0 R 7 B 3 M 1 N V D S L K N V D H D A V G C G G V I D F V S G L N V D G I L A S G M G I P
U P I 0 0 0 X 1 Q Y J 5 E A L E N S A T A G G A G I S T G Q M I A S K G V V V L T G N C G P N A
U P I 0 0 0 H 2 J 7 P 8 V E V V E N N A S E A H G M G P K V S Q M L A E K G V N V L I L E S V G K N A
U P I 0 0 0 W 0 J L U 3 E S V P L H S H N G R G L G A G R I P S L L A R Q N V G A F L A R E I G D G M
U P I 0 0 0 I 3 V X W 8 K V I D N T A A S S A G G A G T K A A Q L L D E G V D S I I S S N V G P N A
U P I 0 0 0 U P I 0 0 0 2 8 8 E B B B Q F Y V L D N E G K S S S G G A G I V A A Q Q L I E N V D Y I I T G N V G P N A
U P I 0 0 0 C 6 B Y 9 6 E Y I D N T Q N L N A A Q G A G I Q S A Q N V A T G A T A V I T G H V I G P K A
U P I 0 0 0 D 8 F 6 A 1 V Q V F D N E S I A L G Q G G A G I Q A A Q F V A S K G A K A I L T G N V G P N A
U P I 0 0 0 F 3 Z 2 B 6 T Y V P N E Q N M L P Q G A G I Q A A Q C V A N A G A K A V I T G H V I G P K A
U P I 0 0 0 K 1 Y J L 6 D N V A T I A N G G H E A G G C M V P V Q L L H D A A V E A I V V G G M G A R P
U P I 0 0 0 A 3 M V M 1 R P V E E R K N P H H H G V S K Y A W L R E V L P D V D V I A G A G A Q T S
U P I 0 0 0 B 5 Y H R 5 E A V E N S W K E A S G G A G I Q A A Q F V I Q K G V D K V F T G R V G A N A
U P I 0 0 0 U P I 0 0 0 3 6 4 5 D 0 A E K K E I V I Q N P G H A P G V L P K Y F N Q L G C K I I A G G M G N R A
U P I 0 0 0 U P I 0 0 0 4 6 3 A 2 2 B K L L S L N E N T H A K E A H H H K H V K A S K V D G C D Y I V V A R A V G P N M
U P I 0 0 0 W 9 V D Q 4 I A S A E V H P N P Y A E R H E P G Q I P E F I K G A D V V V A G G M G A K A
U P I 0 0 0 U P I 0 0 0 3 B 6 D 0 D 3 R W L D N G D N A S Q A Q G A G I Q A A Q H V A D A G V I Q V L L T G R V I G P K A
U P I 0 0 0 B 1 L C 5 9 E V V E N T I A D A H G T G P K V I Q S L V S K G V E Y L I A S N I G R N A
U P I 0 0 0 X 0 Z P Z 3 E A I E N S N I H A T G G A G I Q S A Q F I A N K E V N A V I T G N C G P N A
U P I 0 0 0 L 0 K A 9 5 E F I N N T A N A A S G A G V K A A Q L V T D E E V E A L I S G R V I G P K A
U P I 0 0 0 B 3 E Q I 2 L Q I V D N S N S G H E H G C S P I E D F R N N I E A V L C K G I G A R A
U P I 0 0 0 C 6 A 5 5 2 K E V Q V I E N P G E P H G A G P K V A L F L V N L G V D V L L T P M E C P K G
U P I 0 0 0 Q 1 Z N D 2 A R I E N T G S R E L G C K H K K V I Q R Q L A E C G V S E I V L G N I G Q R S
U P I 0 0 0 W 0 J I T 4 V V K D K K F Y D A I E H F E D G A F P A W A K S Q G V D L V I L C G V G P R A
U P I 0 0 0 U P I 0 0 0 3 6 F A D B 7 T F V E A A G L E I S E G E D C T G A K M A L D S C Q I A F C L A M G A P S
U P I 0 0 0 R 1 A X H 5 K T V E N S G A I S A H G A G V S A A Q Q V I E A G V D V V I T G K L G P N A
U P I 0 0 0 I 3 B R 1 8 Q E I G R L D M P K E M G L H E W N G Q G E H P L F E L D Y L I T G S C G D G F
U P I 0 0 0 H 5 X T D 8 V F L D N S A J A S Q G G A G I K A A Q T I I V D N K V S A L L T P R C G E N A
U P I 0 0 0 U P I 0 0 0 4 6 E 5 D 4 2 E A L E N S H T E A S G G A G I Q A G Q L I S S K G A K A V M T G N V I G P N A
U P I 0 0 0 K 2 Q B Q 4 E K F Q V L E S G S K H L G G R M T P G E F I A G S G A N L L C G N I G Q K A
U P I 0 0 0 W 0 J X X 7 K F S H L V K N T I E H D E E N H R K Q V E A L G D I D A V L V L K I G K H I
U P I 0 0 0 F 6 D 2 E 1 K C Y E S K K C T G R H E G G T M T P A E I I A E S A D I L I C G G L G S K A
U P I 0 0 0 Q 8 T P 3 8 I S W D V S E N P A A G L E K K G L K A A E F L K D V N V L I A G E I G E A P
U P I 0 0 0 F 0 S 3 Q 1 L E V V K N P G L H L E R G R G M L I A D M E K N V K A V I V K E M G P G S
U P I 0 0 0 X 0 V 2 F 6 E A I E N P N T A L G G G A G I Q S A Q M M A N N G V S H V L T G N C G P N A
U P I 0 0 0 U P I 0 0 0 4 1 8 0 F 3 9 R L V A N S A V D A A M G A G L K A A E A I V A L G A V A V I T G E C G V K A
U P I 0 0 0 A 1 B G F 8 A I I E I S A N G S H H D H G Q C T P A V F V D M G V N A V I C N G I G A R A
U P I 0 0 0 O 5 8 6 1 0 E R I E V V E N P H E P Y G A G S K V A I F L V N N G V N T L L T P M D C P K G
U P I 0 0 0 U P I 0 0 0 4 6 F D 7 F 0 E G V E N S N A M Q A G G A G I S T G Q M I V S K G Q D V V L T G N C G P N A
U P I 0 0 0 A 6 U V B 0 E I V N T Q I I D N V P C D G Q S H G K A I N I L E K P D A I L Y I N M G N S
U P I 0 0 0 C 0 Q A 7 5 I E A V E N T A V A Q Q G A G I A T K L V T A K N I D A V L T G T V I G P N A

UniRef90_H1YXJ0
UniRef90_X0X6U1
UniRef90_L0GT64
UniRef90_I4C533
UniRef90_D7DT92
UniRef90_C3J930
UniRef90_H2JUM9
UniRef90_I4BU57
UniRef90_UPI00046D512F
UniRef90_L0HKL0
UniRef90_A4Z1Z6
UniRef90_W0EIA8
UniRef90_W0EOT5
UniRef90_E6VQX7
UniRef90_K1RD69
UniRef90_K2AQ77
UniRef90_G9F5M9
UniRef90_H6SLA3
UniRef90_A0A017RS47
UniRef90_B2A0V6
UniRef90_I0HS22
UniRef90_G2TFQ6
UniRef90_D9TG17
UniRef90_D4H6W5
UniRef90_A0PYW6
UniRef90_K1JP43
UniRef90_O58552
UniRef90_D0YVX0
UniRef90_R6CR44
UniRef90_R5FZV8
UniRef90_Q12UC2
UniRef90_K1XZX9
UniRef90_Q12Y84
UniRef90_UPI00034B94CA
UniRef90_E3I2P3
UniRef90_UPI00035B5833B
UniRef90_UPI00029A1D02
UniRef90_A0LNS8
UniRef90_D1Z1B3
UniRef90_W9W891
UniRef90_X1UB02
UniRef90_X1KID1
UniRef90_G2FY04
UniRef90_G1UVE4
UniRef90_I2F3F9
UniRef90_W8T9I8
UniRef90_Q46BG7
UniRef90_A7IGH4
UniRef90_D8GTY8
UniRef90_F8C310
UniRef90_B5IFB4
UniRef90_UPI0003737990
UniRef90_R7B3M1
UniRef90_X1QYJ5
UniRef90_H2J7P8
UniRef90_W0JLU3
UniRef90_I3VXW8
UniRef90_UPI000288EBBB
UniRef90_C6BY96
UniRef90_D8F6A1
UniRef90_F3Z2B6
UniRef90_K1YJL6
UniRef90_A3MVM1
UniRef90_B5YHR5
UniRef90_UPI0003645D0A
UniRef90_UPI000463A22B
UniRef90_W9VDQ4
UniRef90_UPI0003B6D0D3
UniRef90_B1LC59
UniRef90_X0ZPZ3
UniRef90_L0KA95
UniRef90_B3EQI2
UniRef90_C6A552
UniRef90_Q1ZND2
UniRef90_W0JIT4
UniRef90_UPI00036FADB7
UniRef90_R1AXH5
UniRef90_I3BR18
UniRef90_H5XTD8
UniRef90_UPI00046E5D42
UniRef90_K2QBQ4
UniRef90_W0JKX7
UniRef90_F6D2E1
UniRef90_Q8TP38
UniRef90_F0S3Q1
UniRef90_X0V2F6
UniRef90_UPI0004180F39
UniRef90_A1BGF8
UniRef90_O58610
UniRef90_UPI00046FD7F0
UniRef90_A6UVB0
UniRef90_C0QA75

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

MR

UniRef90_H1YXJ0
UniRef90_X0X6U1
UniRef90_L0GT64
UniRef90_I4C533
UniRef90_D7DT92
UniRef90_C3J930
UniRef90_H2JUM9
UniRef90_I4BU57
UniRef90_UPI00046D512F
UniRef90_L0HKLO
UniRef90_A4Z1Z6
UniRef90_W0EIA8
UniRef90_W0E0T5
UniRef90_E6VQX7
UniRef90_K1RD69
UniRef90_K2AQ77
UniRef90_G9F5M9
UniRef90_H6SLA3
UniRef90_A0A017RS47
UniRef90_B2A0V6
UniRef90_I0HS22
UniRef90_G2TFQ6
UniRef90_D9TGI7
UniRef90_D4H6W5
UniRef90_A0PYW6
UniRef90_K1JP43
UniRef90_O58552
UniRef90_D0YVX0
UniRef90_R6CR44
UniRef90_R5FZV8
UniRef90_Q12UC2
UniRef90_K1XZX9
UniRef90_Q12Y84
UniRef90_UPI00034B94CA
UniRef90_E3I2P3
UniRef90_UPI0003B5833B
UniRef90_UPI00029A1D02
UniRef90_A0LNS8
UniRef90_D1Z1B3
UniRef90_W9V891
UniRef90_X1UB02
UniRef90_X1KID1
UniRef90_G2FY04
UniRef90_G1UVE4
UniRef90_I2F3F9
UniRef90_W8T9I8
UniRef90_Q46BG7
UniRef90_A7IGH4
UniRef90_D8GTY8
UniRef90_F8C310
UniRef90_B5IFB4
UniRef90_UPI0003737990
UniRef90_R7B3M1
UniRef90_X1QYJ5
UniRef90_H2J7P8
UniRef90_W0JLU3
UniRef90_I3VXW8
UniRef90_UPI000288EBBB
UniRef90_C6BY96
UniRef90_D8F6A1
UniRef90_F3Z2B6
UniRef90_K1YJL6
UniRef90_A3MVM1
UniRef90_B5YHR5
UniRef90_UPI0003645D0A
UniRef90_UPI000463A22B
UniRef90_W9VDQ4
UniRef90_UPI0003B6D0D3
UniRef90_B1LC59
UniRef90_X0ZPZ3
UniRef90_L0KA95
UniRef90_B3EQI2
UniRef90_C6A552
UniRef90_Q1ZND2
UniRef90_W0JIT4
UniRef90_UPI00036FADB7
UniRef90_R1AXH5
UniRef90_I3BR18
UniRef90_H5XTD8
UniRef90_UPI00046E5D42
UniRef90_K2QBQ4
UniRef90_W0JKX7
UniRef90_F6D2E1
UniRef90_Q8TP38
UniRef90_F0S3Q1
UniRef90_X0V2F6
UniRef90_UPI0004180F39
UniRef90_A1BGF8
UniRef90_O58610
UniRef90_UPI00046FD7F0
UniRef90_A6UVB0
UniRef90_COQA75

R []

Q A []

K [V]

UniRef90_S7V9F9
UniRef90_Q8KCY1
UniRef90_C1DXJ5
UniRef90_N8ZLM3
UniRef90_H3ZMV2
UniRef90_B8J2A0
UniRef90_Q0W3L2
UniRef90_E3H8V3
UniRef90_X1CMR2
UniRef90_D5E9F9
UniRef90_UPI0003B5A3DC
UniRef90_B1I4Z6
UniRef90_UPI00037DF030
UniRef90_E6VDJ7
UniRef90_Q5JG74
UniRef90_T0LCT8
UniRef90_H1KYQ6
UniRef90_E3IT28
UniRef90_J7INQ3
UniRef90_Q6LMP9
UniRef90_C8X0B7
UniRef90_B6WQ06
UniRef90_U6EC44
UniRef90_G2FQ43
UniRef90_Q8R8U8
UniRef90_F1TDF1
UniRef90_Q2RIL4
UniRef90_H820U7
UniRef90_M9SBE7
UniRef90_J1L3C1
UniRef90_G0EF65
UniRef90_E6VQX4
UniRef90_X1IGA5
UniRef90_I3XUB1
UniRef90_K2QYL8
UniRef90_I0AIK8
UniRef90_A6US54
UniRef90_F0S2P4
UniRef90_W0EGV3
UniRef90_B5IGT5
UniRef90_UPI0003B33623
UniRef90_D1YZN9
UniRef90_UPI000237C431
UniRef90_B8J2A1
UniRef90_E8T3P4
UniRef90_Q27631
UniRef90_V5WK07
UniRef90_E1YDG9
UniRef90_UPI000376B7C3
UniRef90_UPI0003B428FB
UniRef90_F2LX04
UniRef90_V4JJN9
UniRef90_E8RGV4
UniRef90_UPI0003B4D555
UniRef90_X1JFC0
UniRef90_C5CI49
UniRef90_W6NA28
UniRef90_M1PKE4
UniRef90_UPI00035C332B
UniRef90_Q3B4G2
UniRef90_X0SQS9
UniRef90_D7DAN9
UniRef90_U6EF28
UniRef90_UPI00046ED1C4
UniRef90_UPI0001E2C7BA
UniRef90_A4J6N3
UniRef90_D1JGT1
UniRef90_Q0AA19
UniRef90_X0W9Y3
UniRef90_E4U2I6
UniRef90_A6UWS0
UniRef90_Q2LWF6
UniRef90_UPI0003B587F0
UniRef90_X0U602
UniRef90_C3KZ01
UniRef90_A8ZU79
UniRef90_X1QZE6
UniRef90_G7W5P9
UniRef90_T2GCA1
UniRef90_D2RDA4
UniRef90_E1RAB6
UniRef90_D3LTW1
UniRef90_M1ZGF8
UniRef90_C4XLM9
UniRef90_Q312G7
UniRef90_A3MXS6
UniRef90_W0JHR0
UniRef90_U9WFM3
UniRef90_J0S866
UniRef90_C0QBH6
UniRef90_M4YK06
UniRef90_F7V0P8

1

10 20 30 40

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

K E N T

P V D I

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

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

S

K E K I V

E Q N M Q R

K P Y A Y

K T S A E T

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

UniRef90_S7V9F9
UniRef90_Q8KCY1
UniRef90_C1DXJ5
UniRef90_N8ZLM3
UniRef90_H3ZMV2
UniRef90_B8J2A0
UniRef90_Q0W3L2
UniRef90_E3H8V3
UniRef90_X1CMR2
UniRef90_D5E9F9
UniRef90_UPI0003B5A3DC
UniRef90_B1I4Z6
UniRef90_UPI00037DF030
UniRef90_E6VDJ7
UniRef90_Q5JG74
UniRef90_T0LCT8
UniRef90_H1KYQ6
UniRef90_E3IT28
UniRef90_J7INQ3
UniRef90_Q6LMP9
UniRef90_C8X0B7
UniRef90_B6WQQ6
UniRef90_U6EC44
UniRef90_G2FQ43
UniRef90_Q8R8U8
UniRef90_F1TDF1
UniRef90_Q2RIL4
UniRef90_H8Z0U7
UniRef90_M9SBE7
UniRef90_J1L3C1
UniRef90_G0EF65
UniRef90_E6VQX4
UniRef90_X1IGA5
UniRef90_I3XUB1
UniRef90_K2QYL8
UniRef90_I0AIK8
UniRef90_A6US54
UniRef90_F0S2P4
UniRef90_W0EGV3
UniRef90_B5IGT5
UniRef90_UPI0003B33623
UniRef90_D1YZN9
UniRef90_UPI000237C431
UniRef90_B8J2A1
UniRef90_E8T3P4
UniRef90_Q27631
UniRef90_V5WK07
UniRef90_E1YDG9
UniRef90_UPI000376B7C3
UniRef90_UPI0003B428FB
UniRef90_F2LX04
UniRef90_V4JJN9
UniRef90_E8RGV4
UniRef90_UPI0003B4D555
UniRef90_X1JFC0
UniRef90_C5CI49
UniRef90_W6NA28
UniRef90_M1PKE4
UniRef90_UPI00035C332B
UniRef90_Q3B4G2
UniRef90_X0SQS9
UniRef90_D7DAN9
UniRef90_U6EF28
UniRef90_UPI00046ED1C4
UniRef90_UPI0001E2C7BA
UniRef90_A4J6N3
UniRef90_D1JGT1
UniRef90_Q0AA19
UniRef90_X0W9Y3
UniRef90_E4U2I6
UniRef90_A6UWS0
UniRef90_Q2LWF6
UniRef90_UPI0003B587F0
UniRef90_X0U602
UniRef90_C3KZ01
UniRef90_A8ZU79
UniRef90_X1QZE6
UniRef90_G7W5P9
UniRef90_T2GCA1
UniRef90_D2RDA4
UniRef90_E1RAB6
UniRef90_D3LTW1
UniRef90_M1ZGF8
UniRef90_C4XLM9
UniRef90_Q312G7
UniRef90_A3MXS6
UniRef90_W0JHR0
UniRef90_U9WFM3
UniRef90_J0S866
UniRef90_C0QBH6
UniRef90_M4YK06
UniRef90_F7V0P8

50 60 70 80
E V I T D N Q K N V D A F K G A G L Q A A A T L G E K Q V D V L L T G Y C G P N A
S I I D N Q N A H H D H G Q C T P A D S L A D A S A I V V K G I T G G P R A
K L V E N E H L L S G R D V V N I L S K E K V E I V I V T T K H L G G D R G A
T D K Q L T I E V E K E Q S F S Q S G E V L E K L L P M D I F V T T T G M G D R G A
K N V E I V I E N P K E P Y G A S G S R A L F F V N L R V N V L L T P M D C P K G
G H V A V R T S L G H N P G R D C G G V V Q L L S R L G V T V L A A G G M G L R Q A
U N I R E F 9 0 _ Q 0 W 3 L 2 V T C T E F V P P G R E K G G V P H L I I E H Q A T H V V V A A A G G M G P P Q A
K S I E N T A K N E S N G A G G K A V K L L S N E G V E I V V A P E L G P K A
U N I R E F 9 0 _ E 3 H 8 V 3 E A L E N P A I Q A A G G A G I S T A Q M I A N K G V E V V L T G N C G P N A
U N I R E F 9 0 _ X 1 C M R 2 E A V G N P A A G A T G G A G I Q A A Q E V A K M K A D V L I T G N V G P N A
U N I R E F 9 0 _ D 5 E 9 F 9 E L S E N Q K T K G E S V K C K T G V F A E E A G V D A V I T K C L G D G S
U N I R E F 9 0 _ U P I 0 0 0 3 B 5 A 3 D C K P Q E T E R T V P N D V G G P R V V T G L R A G V D A V I T A G G I G G A G A
U N I R E F 9 0 _ B 1 I 4 Z 6 P Q E T E R L D L P M D M S I H A W G Q S T H P L F S L D Y L I T A G C G G E G F
U N I R E F 9 0 _ U P I 0 0 0 3 7 D F 0 3 0 R T E L V K E Q L P H Y F K D D G P H P L D G V E L I V A G S A G D G Y
U N I R E F 9 0 _ E 6 V D J 7 K L L E K R H N E G H D E G H G K F K A V V S Q L L D V D V L A A F R M G P N F A
U N I R E F 9 0 _ Q 5 J G 7 4 R S M N F V Q G E G P H E E N R S E E K S K A I L M D V D A I V A T R M G P P R A
U N I R E F 9 0 _ T 0 L C T 8 T N S F I K E N P A K N L E K K K G I E T A N F L N D V D V V I V K D I G M G S
U N I R E F 9 0 _ H 1 K Y Q 6 L L E E R A T P R P G C G P E R W H A L A D M L K D C R A V I T A A C C G E N A
U N I R E F 9 0 _ E 3 I T 2 8 A F L D N S A I A S Q G G A G I K A A Q T I V D S N I D A I I T P Q C G G E N A
U N I R E F 9 0 _ J 7 I N Q 3 E R I E N T G S K E L G C K H K K V I Q R Q L S E L G V K E I V L G N V G Q R S
U N I R E F 9 0 _ Q 6 L M P 9 S Y M D N Q Q N L A A T Q G A G I Q T A Q N V A N D T G A Q A V L T G H Y V G P K A
U N I R E F 9 0 _ C 8 X 0 B 7 S Y I D N G A S Q T M S M G A G I E T A E R V A N A G V Q V L L T G N V G P K A
U N I R E F 9 0 _ B 6 W Q Q 6 E N F Q V T E S K S K H L G G A M T P G E F I A G S G A N K L L T G N L G P K A
U N I R E F 9 0 _ U 6 E C 4 4 V F L D N S A V A S Q S G G A G I K A A Q T V L V D E N G I E A L L I T S P R C G E N A
U N I R E F 9 0 _ G 2 F Q 4 3 K V V D N L A V A S Q S G G A G T R A A Q T L V D E G I E A L L I T S S N V G P N A
U N I R E F 9 0 _ Q 8 R 8 U 8 E F L D N T A T A S Q G G A G I K A A Q L L V D N E A K V L I T Y R C G E N A
U N I R E F 9 0 _ F 1 T D F 1 E A I A N A N Q N A G G A G V A A Q A L V N A G V V L L T G N V G P N A
U N I R E F 9 0 _ Q 2 R I L 4 V K S T D I C V N Y A E H G Q I P D F V K S L G A N V V L S G V M G G R A
U N I R E F 9 0 _ H 8 Z 0 U 7 T V V D N E Y A N G E G A G Y K V A K A I L G V D V V I V G G I G T H G
U N I R E F 9 0 _ M 9 S B E 7 Q T V Q R N A G A G G A G G V G I K S A Q T M V D N D A K E V V I T G Q V V G N A
U N I R E F 9 0 _ J 1 L 3 C 1 Q L V L R L Q N P N A S P G D E C K L A K L L S Q H G C E T L V A T L I R D E E
U N I R E F 9 0 _ G 0 E F 6 5 S Y V D N G A S Q A L A Q G A G I Q A A E T L A N A G V Q A V I T G S V G P K A
U N I R E F 9 0 _ E 6 V Q X 4 T N V Q S L T N S A V S A M H G A G I Q A T Q T I S G V N T I I T G N L G P K A
U N I R E F 9 0 _ X 1 I G A 5 K D V A I H K N P G H V I G A C S D A V N N I Q S L G A D V L I V G G I G G E P
U N I R E F 9 0 _ I 3 X U B 1 K E I K V T P N P A V N E G G A G I A R T M G N E K V D V I I S G S V G P N A
U N I R E F 9 0 _ K 2 Q Y L 8 E I N A F E N I D E G H H N H E N L Q Q F L D K G V E A F I V G N I G P H A
U N I R E F 9 0 _ I 0 A I K 8 V I N A K K I E N S P C E G H H D G N G S T I E T L E N V D A V I F I N M G Q K S
U N I R E F 9 0 _ A 6 U S 5 4 K F I N N V Y A C G G C K E E G K N A A D L L A E Q K V E A L L I E K I S E A P
U N I R E F 9 0 _ F 0 S 2 P 4 N F L N N S A A A S Q G G A G I K A A Q N L V D S G A E A I L T P R C G E N A
U N I R E F 9 0 _ W 0 E G V 3 K L I K T V K N P G A N L E K K R G V K A A L F L Q G G V D E V H T K N I G E D S
U N I R E F 9 0 _ B 5 I G T 5 T L E L A R E Q L P H Y F K D D G P H P L D G V E L I V A C S A G D G Y
U N I R E F 9 0 _ U P I 0 0 0 3 B 3 3 6 2 3 K L V S V I K V V H C V P D D D K K A G L L S D R G V E V L V A G R I G S C M
U N I R E F 9 0 _ D 1 Y Z N 9 V K D V I E E V P P P H E P G V I P S W L S S D R G V N T V L V G G I G Q K A
U N I R E F 9 0 _ U P I 0 0 0 2 3 7 C 4 3 1 T A Q S T L I A V P H Q Q G G C L A P V I Q L A G H G V T A L L A G G M G M R P
U N I R E F 9 0 _ B 8 J 2 A 1 E I V E N P G L H V P Q R G R G I Y I A Q M E K G V E A V L V K E M G P G A
U N I R E F 9 0 _ E 8 T 3 P 4 R F L E R R T V E I S E P K R H Q W M K A L D A I R D C D V V I A V Q A G L R G A
U N I R E F 9 0 _ Q 2 7 6 3 1 E F F D C A N R R S Q G C A P V E E L I A N V S T V V C L G M G R G A
U N I R E F 9 0 _ V 5 W K 0 7 S F V Y D N E N K G L S G G A G I Q A A G F V V S K G A E A V L T G N C G P N A
U N I R E F 9 0 _ E 1 Y D G 9 W T L D L T E I G S L H E W H V R G D G N R H P L V D I A I A G S A G D G V
U N I R E F 9 0 _ U P I 0 0 0 3 7 6 B 7 C 3 G E V S I Q P N P M H Q G G D C T G P V I Q A L L R L I G V G A L L A G G M G M R P
U N I R E F 9 0 _ U P I 0 0 0 3 B 4 2 8 F B E A I K Q P F L N N Q G G V G V S T A Q F S V E K G I N A I I S G S Y G P N A
U N I R E F 9 0 _ F 2 L X 0 4 R L Q Q Q L E L P E D A P T H H D L H E D D Q A P H P R D V L I T S E A G E G F
U N I R E F 9 0 _ V 4 J J N 9 E V V D N S D N V N A F K G A G I Q A A T M V S D K G A K V L M T G Y C G P K A
U N I R E F 9 0 _ E 8 R G V 4 I Y E L D N G D V E H V H G A C N P A S A L G G V D A V V G G I G Q G A
U N I R E F 9 0 _ U P I 0 0 0 3 B 4 D 5 5 5 E S M E N P S V M A G G A G I S T A Q M V K E V D A V I T G N C G P N A
U N I R E F 9 0 _ X 1 J F C 0 E F F E N E G T Q A H G A G P K M V E T L A S K G A E V L I A K N V G Q N A
U N I R E F 9 0 _ C 5 C I 4 9 T F I D N S A A A S T G G A G I K A A Q T M V D N K T N L L L T P R L G E N A
U N I R E F 9 0 _ W 6 N A 2 8 Q A I N N I A G K E A A H G A G I S A A A Q V A D I G V E A L L T G R V G P K A
U N I R E F 9 0 _ M 1 P K E 4 E S L I Q A R Y A S I S G C A M L F C K G L T D L H
U N I R E F 9 0 _ U P I 0 0 0 3 5 C 3 3 2 B E I I R N P N S E H V H G Q C T P A D A F A G M G A E V V I C N G I G A R A
U N I R E F 9 0 _ Q 3 B 4 G 2 E A H D N T V N L N A A Q G A G I Q T Q N I A N L D A V I T G N V G P N A
U N I R E F 9 0 _ X 0 S Q S 9 K N V K I V E N P G H K A G S G A G I K A V Q K L E K I D V V A G P N P G P N S
U N I R E F 9 0 _ D 7 D A N 9 E N I K A L P N S G F I I N A G G G A G I Q T A R I V G D E K A V I T S G S V G P N A
U N I R E F 9 0 _ U 6 E F 2 8 S M I D E R Q N S P G I I S G G E K G R A I S F L N E L D V V L V A R E F G R N
U N I R E F 9 0 _ U P I 0 0 0 4 6 E D 1 C 4 K V I D N Q A V S S Q G G A G I K A A Q A V V D S G A D A V V T F H C G Q N A
U N I R E F 9 0 _ U P I 0 0 0 1 E 2 C 7 B A E V I E N S A I A S G G A G I A S G Q L V V D K G V E V V I T G N V I G P N A
U N I R E F 9 0 _ A 4 J 6 N 3 E A M A N E A I A P G G A G I Q A A Q T M V N K G V D V V I S G N I G P N A
U N I R E F 9 0 _ D 1 J G T 1 Q W V A N P M D A D R C S G R C K L L A E L E Q A G V T R V L V R Q I I G Q R T
U N I R E F 9 0 _ Q 0 A A 1 9 K L F S L Q N N G H Q G C M E P V N D M K Q R S V T D M I V G G I G G R P
U N I R E F 9 0 _ X 0 W 9 Y 3 E D V A V V K N E G H K E G C G G A V E N I C A L G A D A L I V S G I I G S P
U N I R E F 9 0 _ E 4 U 2 I 6 N G Y R I I E N T L N K L N R K K A M A I F D L L Y D V N T V I V K N L G A G M
U N I R E F 9 0 _ A 6 U W S 0 D V L D N K A N V S L K G A G I Q A A A N I H S K G A E V L L T G F C G P N A
U N I R E F 9 0 _ Q 2 L W F 6 E A I Q N P A L S A M H G A G I Q S A Q L V L D K K Q A L L T G T G P N A
U N I R E F 9 0 _ U P I 0 0 0 3 B 5 8 7 F 0 K I V P V K P I Q G C S P V A A L E G V D A I Y T W G M G M R A
U N I R E F 9 0 _ X 0 U 6 0 2 K L L E N E G Q N T S G G A G I V A S N Q L V D V D V I T T G N C G P N A
U N I R E F 9 0 _ C 3 K Z 0 1 T A F P N E G V I G L S G G A G V Q A A S F I A S Q G V S V I T T G Y L G P N A
U N I R E F 9 0 _ A 8 Z U 7 9 E A A P N S G A T A G G G A G I A A A Q I A G K G L E A V L T G N C G P N A
U N I R E F 9 0 _ X 1 Q Z E 6 E F I D N S A I A S Q G G A G I K A A Q T M V D S G A L N A L L T P L C G E N A
U N I R E F 9 0 _ G 7 W 5 P 9 E Y V D N G A S Q T L S H G A G I N A A Q V L A K S G A G V L L T G Y V G P K A
U N I R E F 9 0 _ T 2 G C A 1 I F R I E N P H Y G A E R R K G Y L I A E L L S G V N V V V R R I I G E G A
U N I R E F 9 0 _ D 2 R D A 4 R F I D N P F K N A V G G A G V R A A E L I V K E G A S R L V S G Q I G P N A
U N I R E F 9 0 _ E 1 R A B 6 H I I S S Q I S A T A G A H G A V I A F L Q A H G T T E V I C G G I G A G A
U N I R E F 9 0 _ D 3 L T W 1 N I M E N R G E S S G G A G I A A A Q Q L I D E S V I E A V I S S N I G P N A
U N I R E F 9 0 _ M 1 Z G F 8 T Y L D N G S S Q D A M A H G A G R L E A A R R L A D A G A S V V L S G V V G P K A
U N I R E F 9 0 _ C 4 X L M 9 K A V E N P F R D L E K A G R R M A A L L H E Y G A V A V L C G E C G P K A
U N I R E F 9 0 _ Q 3 1 2 G 7 T I V E G P K V I T G R G P R W A E L Y T K L K P D V V I T K E I G K P A
U N I R E F 9 0 _ A 3 M X S 6 Q L D V I T N N N Q E L S H G A P Q A V Q R H A I D N G A S A I I S A M P G Q N A
U N I R E F 9 0 _ W 0 J H R 0 W T L D L T Q M G S L H E W H V R G D G N R H P L H F V D I V L A S A G E G V
U N I R E F 9 0 _ U 9 W F M 3 A A V R V A N E G R R M A Q G A G I A A D L E E G V D A V A G G H F G P H G
U N I R E F 9 0 _ J 0 S 8 6 6 N F L E N I A N P G G D Q S R N A G P V T A N L F L S D V T L V I A G E F G N K M
U N I R E F 9 0 _ C 0 Q B H 6 T V V E N E Y A S G E G A G Y K V A N S I L G V E H V I C G G I G T H G
U N I R E F 9 0 _ M 4 Y K 0 6 V G C Q N M P N P G L A T Q K L V T L L S E M H V D V L I A G T I E Q S V
U N I R E F 9 0 _ F 7 V 0 P 8

UniRef90_S7V9F9
UniRef90_Q8KCY1
UniRef90_C1DXJ5
UniRef90_N8ZLM3
UniRef90_H3ZMV2
UniRef90_B8J2A0
UniRef90_Q0W3L2
UniRef90_E3H8V3
UniRef90_X1CMR2
UniRef90_D5E9F9
UniRef90_UPI0003B5A3DC
UniRef90_B1I4Z6
UniRef90_UPI00037DF030
UniRef90_E6VDJ7
UniRef90_Q5JG74
UniRef90_T0LCT8
UniRef90_H1KYQ6
UniRef90_E3IT28
UniRef90_J7INQ3
UniRef90_Q6LMP9
UniRef90_C8X0B7
UniRef90_B6WQQ6
UniRef90_U6EC44
UniRef90_G2FQ43
UniRef90_Q8R8U8
UniRef90_F1TDF1
UniRef90_Q2RIL4
UniRef90_H8Z0U7
UniRef90_M9SBE7
UniRef90_J1L3C1
UniRef90_G0EF65
UniRef90_E6VQX4
UniRef90_X1IGA5
UniRef90_I3XUB1
UniRef90_K2QYL8
UniRef90_I0AIK8
UniRef90_A6US54
UniRef90_F0S2P4
UniRef90_W0EGV3
UniRef90_B5IGT5
UniRef90_UPI0003B33623
UniRef90_D1YZN9
UniRef90_UPI000237C431
UniRef90_B8J2A1
UniRef90_E8T3P4
UniRef90_Q27631
UniRef90_V5WK07
UniRef90_E1YDG9
UniRef90_UPI000376B7C3
UniRef90_UPI0003B428FB
UniRef90_F2LX04
UniRef90_V4JJN9
UniRef90_E8RGV4
UniRef90_UPI0003B4D555
UniRef90_X1JFC0
UniRef90_C5CI49
UniRef90_W6NA28
UniRef90_M1PKE4
UniRef90_UPI00035C332B
UniRef90_Q3B4G2
UniRef90_X0SQS9
UniRef90_D7DAN9
UniRef90_U6EF28
UniRef90_UPI00046ED1C4
UniRef90_UPI0001E2C7BA
UniRef90_A4J6N3
UniRef90_D1JGT1
UniRef90_Q0AA19
UniRef90_X0W9Y3
UniRef90_E4U2I6
UniRef90_A6UWS0
UniRef90_Q2LWF6
UniRef90_UPI0003B587F0
UniRef90_X0U602
UniRef90_C3KZ01
UniRef90_A8ZU79
UniRef90_X1QZE6
UniRef90_G7W5P9
UniRef90_T2GCA1
UniRef90_D2RDA4
UniRef90_E1RAB6
UniRef90_D3LWT1
UniRef90_M1ZGF8
UniRef90_C4XLM9
UniRef90_Q312G7
UniRef90_A3MXS6
UniRef90_W0JHR0
UniRef90_U9WFM3
UniRef90_J0S866
UniRef90_C0QBH6
UniRef90_M4YK06
UniRef90_F7V0P8

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

UniRef90_S7V9F9
UniRef90_Q8KCY1
UniRef90_C1DXJ5
UniRef90_N8ZLM3
UniRef90_H3ZMV2
UniRef90_B8J2A0
UniRef90_Q0W3L2
UniRef90_E3H8V3
UniRef90_X1CMR2
UniRef90_D5E9F9
UniRef90_UPI0003B5A3DC
UniRef90_B1I4Z6
UniRef90_UPI00037DF030
UniRef90_E6VDJ7
UniRef90_Q5JG74
UniRef90_T0LCT8
UniRef90_H1KYQ6
UniRef90_E3IT28
UniRef90_J7INQ3
UniRef90_Q6LMP9
UniRef90_C8X0B7
UniRef90_B6WQQ6
UniRef90_U6EC44
UniRef90_G2FQ43
UniRef90_Q8R8U8
UniRef90_F1TDF1
UniRef90_Q2RIL4
UniRef90_H8Z0U7
UniRef90_M9SBE7
UniRef90_J1L3C1
UniRef90_G0EF65
UniRef90_E6VQX4
UniRef90_X1IGA5
UniRef90_I3XUB1
UniRef90_K2QYL8
UniRef90_I0AIK8
UniRef90_A6US54
UniRef90_F0S2P4
UniRef90_W0EGV3
UniRef90_B5IGT5
UniRef90_UPI0003B33623
UniRef90_D1YZN9
UniRef90_UPI000237C431
UniRef90_B8J2A1
UniRef90_E8T3P4
UniRef90_Q27631
UniRef90_V5WK07
UniRef90_E1YDG9
UniRef90_UPI000376B7C3
UniRef90_UPI0003B428FB
UniRef90_F2LX04
UniRef90_V4JJN9
UniRef90_E8RGV4
UniRef90_UPI0003B4D555
UniRef90_X1JFC0
UniRef90_C5CI49
UniRef90_W6NA28
UniRef90_M1PKE4
UniRef90_UPI00035C332B
UniRef90_Q3B4G2
UniRef90_X0SQS9
UniRef90_D7DAN9
UniRef90_U6EF28
UniRef90_UPI00046ED1C4
UniRef90_UPI0001E2C7BA
UniRef90_A4J6N3
UniRef90_D1JGT1
UniRef90_Q0AA19
UniRef90_X0W9Y3
UniRef90_E4U2I6
UniRef90_A6UWS0
UniRef90_Q2LWF6
UniRef90_UPI0003B587F0
UniRef90_X0U602
UniRef90_C3KZ01
UniRef90_A8ZU79
UniRef90_X1QZE6
UniRef90_G7W5P9
UniRef90_T2GCA1
UniRef90_D2RDA4
UniRef90_E1RAB6
UniRef90_D3LTW1
UniRef90_M1ZGF8
UniRef90_C4XLM9
UniRef90_Q312G7
UniRef90_A3MXS6
UniRef90_W0JHR0
UniRef90_U9WFM3
UniRef90_J0S866
UniRef90_C0QBH6
UniRef90_M4YK06
UniRef90_F7V0P8

R I L

R A L

1 10 20 30 40

UniRef90_UPI000373413E MKIAIAIATANNLLEIVCPSPFGRTEFFFLIYN TNDQSS

UniRef90_X1HS68 MKIAVAASNEKAAQVSEVSGRA PYFLIFEDVVDDEI

UniRef90_R7A1B8 MKISVVPYENGEICSHLJAQVKEFLIFD

UniRef90_Q1JV98 MKLFCPTENNNGRVFSSHFGVTPKLLIVNTDTREY

UniRef90_UPI00037911D4 S V K L A I T S T N G D D T V N P R F F G R A P G F L I V D S Q S L E F

UniRef90_I3XUB2 MKLAFTTVDSESMMEARFVGRTYVLI FDEQSGQI

UniRef90_UPI00035D8A32 MKIAALCASA GESQVDP R F G R C P Y F L L V D D D N K T G

UniRef90_UPI000299F4B5 LKVA A F G M E G E E T L D A H Y G D S E F F A I Y E I C E D G V

UniRef90_X1MX00 F G R C Q Y F I V D P D T L E F

UniRef90_A8M9K8 MKLTVIVDSEENRVTGPGEGEYLIYEVNGDAV

UniRef90_UPI00047BFC6A MKIALSSGGKTLDSRFGRCTYFLVHNTDTNDL

UniRef90_Q8PY76 MKIAALCGKDPDSEVDPQFGRCN YFLVIDPDAGSL

UniRef90_X1L6F0 MKVAVPSLDAEVDPRFGRCCQYIIVADPDTMEF

UniRef90_UPI0003B3C688 MKVAIVSSEGPGLVDP R F G R A G F V I V D M D T M Q A

UniRef90_C7LQF8 R S K E L S MKIAITSEGTDRVDPRFGRAGFVVVDLETMES

UniRef90_W6EF13 A H F G K A T F Y T A V D V I D G I V

UniRef90_E1YHQ7 MKIAVITSA GADLVIDPRFGRANLITVDSETFEF

UniRef90_UPI0003B54A07 MKICIVSQQGKDLIDSRFGRCRYFVIFYDTEG EY

UniRef90_G7VH24 MKVAVANQENVVFPHGF A H A P K F R I Y M Y E G G Q L

UniRef90_C5ZV60 MKIAIPVYDEDLTFGNTHTPFFAVFEQKGNGF

UniRef90_UPI0003B6C56D MKVAIVSSEGPGRMDPRFGRAGFVLLHDLLETGTT

UniRef90_Q30WF4 MIAISASGQSGLDPRFGRAGFVLFNSSETGQF

UniRef90_R4KQR0 MKLIALVSAAGSGLSAPFGRCAYFLVFDKQGNLQ

UniRef90_U6ECS4 E P V K K D V I R F A L P V K T S Q G L S T H F G K V P Y F L I W D V Q G G D I

UniRef90_A4WK53 LKIAVAVD D G V V F P G H F A H A P L Y R I Y K Y S N G R L

UniRef90_UPI000477DADD H I Y D L N Q D T P

UniRef90_H6LD00 MKIAIPADEKILVCMSPFGRAPYFYLYETVITKMG

UniRef90_D7DT88 MKLAIPTIN EKVSSEHFGKSEYFLIYEIINENGMS

UniRef90_C3MKZ5 MKVAIAVITNGYVSGPGEGLAVQIYEIINENGY

UniRef90_R1CDL7 IAACATDNGE FVNRHFGDANFYDIYSVSKEGW

UniRef90_A6LIZ0 MKLAVPSK GKT L D E R F A R A E F F V V Y D L E K E E I

UniRef90_A0LPB3 F G S A P G F V I V D T E A

UniRef90_A6US56 MKICTV T S T G N S F F E Q K F G R S P Y F I I Y D T E T K E F

UniRef90_Q46BG9 L S E H L G K A P Y F L F V E I E E G K V

UniRef90_A0A031L08 MRVIAVIP T T N G I V D G P G E A M K V R I Y E V S G N E V

UniRef90_H5XV32 MVI I A I A S I G G E I S P H F G H S D G C M I Y S L A N Q E L

UniRef90_X1SVQ0 V H G H F G R A P Y F V I L K I A D E N V

UniRef90_A9L0D6 M I I A M P M S R E R L A S H F T K A V Q I G F Y N E Q F

UniRef90_F9S7Q7 M I Y A I P C V D N C V S N H F S R A K Q I V I F N Q A T Q Q H

UniRef90_C5BTB9 I A V A L Q R D G K V S P H A G R A L I W Q V Y N I E N G K V

UniRef90_UPI0003652BD3 MKIAVCCQNSGREVSAHPGKCTRFLVDSRGLAE

UniRef90_S0G5N9 MKIAITTDLQNSADVDP R F G R A S Y I L V V D S E T L D V

UniRef90_W0DW56 MKI V I A T G Q G Q D V D A R L G R C A Y F V V V D T E S G D F

UniRef90_D5EC82 MR L I A A V N E P S L I A E R F A R A P Y F V I L D E E G

UniRef90_T0ZR59 A T F N D S E T V F Q H F A Q A K D F I I Y N K N L E E S T

UniRef90_I0AP04 MKVAVITTDGGKHIANPFFVRTGGFLVYDVDEWQI

UniRef90_U6RDP2 MKVAITSTGDSLMDPRFGRCAF F A L Y D T E T K K V

UniRef90_C3LM18 M L A V P S R H G V P F N H F A K A P S F S V I D S N T Q Q L

UniRef90_M5DY65 AVGASNFE T I H E N F G R A N Y F A V I N C E N N Q I

UniRef90_E4U749 MR L A I A V N A T D T F P S P Y G H A P F A I Y D R K D G A W

UniRef90_S7JAP3 MKYALPIQNQR L S N H F S K A P Q F L L Y D S Q T G K Q

UniRef90_B6G045 MR I A I P V D E K N I D S E F G R T P Y F L I Y D T E N G N E

UniRef90_R6WCV9 K K E E S G M K I A I P L D E N K K V C V S F A R A P Y F M V C D G N E D A V

UniRef90_F7YJU6 H F A K A P Q L M I V D D T T A S

UniRef90_G2FY00 MR I A I S T G G D K F V D D R F G R C P Y F V F C D S E D P Q S

UniRef90_A0LNT3 MR L A V S A N L D S E L V Y P R F G R S R Y F L L I D P E T M

UniRef90_UPI000470B18B MKLITTSKGSSELFV K R F G R A A Y Y C I Y D E N S E I

UniRef90_C5F024 MKVAVPVDES L R I F G N T G H T P F F A V F E Q K G S G F

UniRef90_I6Z539 MK I I I G S D G N T L V S K R F G R A A Y Y I F E Y H S D T N S F

UniRef90_UPI000369B483 MKIAVAARNGVYVEPVFGRADMFLLV D Q N N G T

UniRef90_H1YXE1 K I A V A A L G E G T V S P V F G R S P V F C L A T V S G D L V

UniRef90_A2BKP1 K P Q G V V R V A A G T G P R S R V S W S I T H A P Y L A I V D I A D A N I

UniRef90_F4BX57 MKVVAASGLDRA R M D P R F G R C P F F V I V D T E S M S E

UniRef90_Q12Y87 L K V A I P T M E G L Q L S R H I G K A P Y Y I F I E L K D N K I

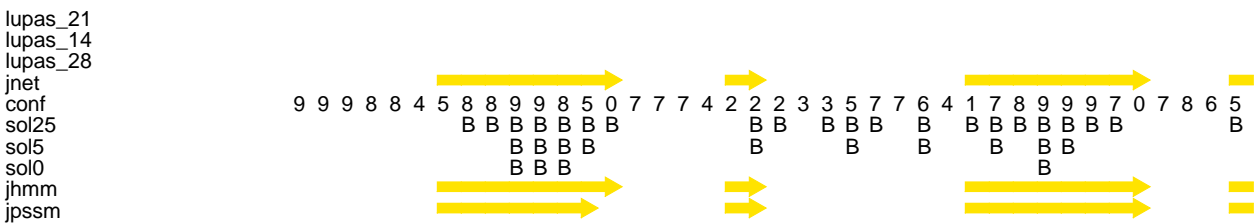
UniRef90_R8AVD1 A I P L L N D G S L S G H F A R A L R F A L Y S P Q G E H Q

UniRef90_UPI000472949F M I I A V P S R D R L A G H F T K A K E I A F Y N E Q Q

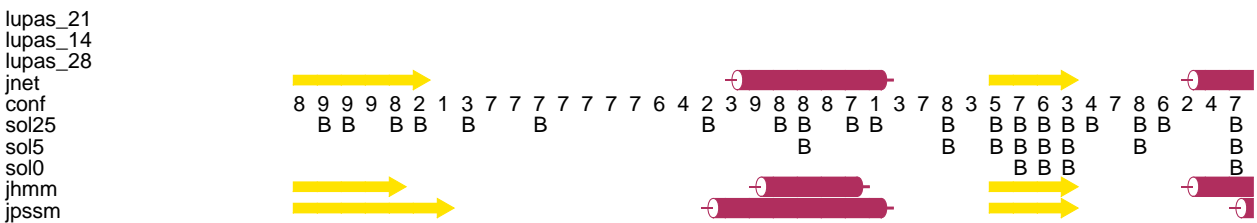
UniRef90_X1J0K1 Q V D P R F G R A A Y F V I V D T E T M D F

UniRef90_UPI000406C9C9 MK L I I P V Y D N K L I A E G F N K T T H V C I F E D P E A S D A

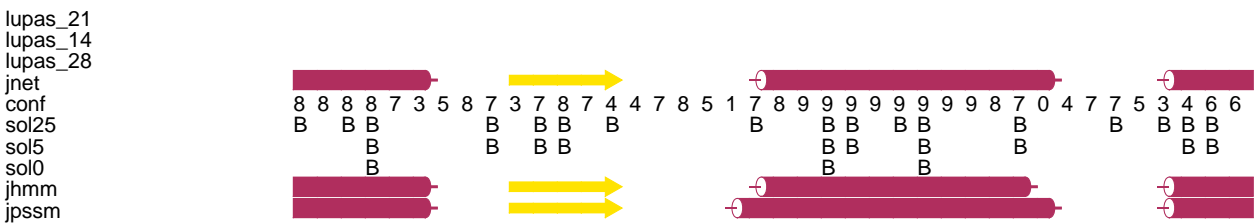
UniRef90_F6CR47 MRVIALA R W G N R L S P L F D V A Q E T L V V E I S R G



	50	60	70	80
UniRef90_UPI000373413E	K F F L D N S A A T S Q G G A G I K A A Q I L V D E H V I D V L I T P R C G E N A			
UniRef90_X1HS68	K L I K T T K N P F R I G G G A G F A V A E M L S D V K M I V S G K F G P N I			
UniRef90_R7A1B8	I S T K T V K Q T Y A N D P G A L V E F L K K E N V A V L L C D A L P I P M			
UniRef90_Q1JV98	E E V A V H T A D Q Q G G L D K V L S A L H T I S P D A I A L A G I G Q G A			
UniRef90_UPI00037911D4	S Y L D N G L S Q T M S Q G A G I Q A A Q N V A G S G A T V V L T G Y V G P K A			
UniRef90_I3XUB2	T I H D N R E I V N Q E H G A G P K M A K L M A D L G V D V I I T G G P G E N A			
UniRef90_UPI00035D8A32	Q F E A L E N T A G A P H G A G V S A A Q M V A N K K V G A V L L G V N F G P N A			
UniRef90_UPI000299F4B5	K L L E K R P N E K H D E G H G K F K A V L G Q L L D V D V L A A F R M G P N			
UniRef90_X1MX00	E A V E N P S V S A M G G A G V V S G Q F V A G K G V K A V L T G N V G P N A			
UniRef90_A8M9K8	G L I G K E P N P A L Q A E M H R G L Y A L R R V K G A D S L I V S E I G R P G			
UniRef90_UPI00047BFC6A	K V L D N K G K S A G G G A G I S A A Q Q L I D E E I D A V I T K N M G P N A			
UniRef90_Q8PY76	S S I K N P G S E A S G G A G I K A A E A V V D A G A D V L L T G S L G P N S			
UniRef90_X1L6F0	E A T E N T N I M A G G G A G I S T A Q M V M G V Q V V L T G N C G P N A			
UniRef90_UPI0003B3C688	D Y I V D N G A S Q A A Q G A G I Q T A E R L A G M G V K A V M S G Y V G P K A			
UniRef90_C7LQF8	T Y I D N G G S Q T L S H G A G I Q A S A E N I N A M G A S V L L T G S V G P K A			
UniRef90_W6EF13	Q E V S V H K N P G H V T G G C A N A S N I Q A L G A N T L V V S G L G A D P			
UniRef90_E1YHQ7	E V I G N N E N I N A L K G A G I Q A A S T I S Q K G A N V L L T G F C G P N A			
UniRef90_UPI0003B54A07	E V V E N T W R E A K Q G A G V Q A A Q F V A S K E V Q V L V T G S L G P K A			
UniRef90_G7VH24	K L L E E R T N P P P A H G L P K Y Q W R D K V L P D V D V V I A A G A C Q T S			
UniRef90_C5ZV60	D L L D L R K N P E E M S Q E E Q I A H K L E I I K D C Q A V L V K K A C P K N T			
UniRef90_UPI0003B6C56D	E Y V D N E Q N L S L P Q G A G I Q S A Q T V A G A G A A V I T G H M G P K A			
UniRef90_Q30WF4	S Y K D N T Q N L A N P Q G A G I Q S A M N V A D A G A S A V I T G H V I G P K A			
UniRef90_R4KQR0	E V I N N E G A A S A E G A G I K T T Q V L L R H H I D V V L T G R V I G P K A			
UniRef90_U6ECS4	E S Y Q I K A N P A R E D L E K R G I K T A E F L E K V D V I L G E E V L G E G P			
UniRef90_A4WK53	E L V E E R R V P D L D H G H H K Y Q W R S R V L P D V S V V I A G G A C Q T S			
UniRef90_UPI000477DADD	E F V E T R T L P K P G G G D A R W H N L A R T I X D C H T X L V S G X T P			
UniRef90_H6LD00	D F I E N G A A T S P G G A G V K A A Q I V V D N H A D I L I T P R C G E N A			
UniRef90_D7DT88	K K L E N N P C G D G S H S G H G S T V I Q T L L A E N P D A V L F I N M G Q R S			
UniRef90_C3MKZ5	K T I E E Y E N P A L N A T A A R G V H M L K S A K G V N A V V V A E M G P N G			
UniRef90_R1CDL7	E Y I K R V I N T T E E H A D P K G K G I S Q I H D V Q N V V S R Q F G P K A			
UniRef90_A6LIZ0	V E V T E N T A D D A H G M G P K V S Q M L V S K G V S V L V L E N V I G K N A			
UniRef90_A0LPB3	K S V D E I R N S D L C H V H G M C E P S K A L G G V D A V V A G G G G S E A			
UniRef90_A6US56	E T L D N L R R D S A H G A G I G A S Q A V L S K G I N V V I S G N I G P N			
UniRef90_Q46BG9	Q I V E N R F F N S E K K G G M K A A D L T I R E K A N V L A V R N V G E G P			
UniRef90_A0A031L108	K L V E E Y D N P A L K A M A A R G V H M L R I E K G A T S F L V J E I G P P G			
UniRef90_H5XV32	T V N E F V N N P A L N H G K D N C S C R F F A L H E I D V L V T G H I G D A A			
UniRef90_X1SVQ0	E I E D F Y N E F L G E K K H V G V K V I K A V H K L D L L F T S R I G E I S			
UniRef90_A9L0D6	Q L I K L V D S P A I E G D C S A K K A L L E L I Q G T D L V T A Q N I G E R M			
UniRef90_F9S7Q7	Q L F T L T D T G T N C G K K K W M L L Q A E Q V D A V V V R S I G K K M			
UniRef90_C5BTB9	W K I Q L T E K S S L H E W H V R G D G N R H P I H G V I E F A I A G S A G D G V			
UniRef90_UPI0003652BD3	P Q L L L L P A S A M L R Q A S L H G H P L A D C Q V I L A G G G G H G L			
UniRef90_S0G5N9	E V I D N A N K D A F R G A G I Q A A A A V S E K G A Q V L L T G F C G P N A			
UniRef90_W0DW56	Q T M P N P F L E T N G G A G T R T A Q W I A G Q R A E L L L T G R C G P K A			
UniRef90_D5EC82	T L L E T I Q N P L L E Q G H G A G G A A R L L S N I D I V I V P H V I G P N A			
UniRef90_T0ZR59	Q I E M V R S M E P E I I M E A E A R L E K A G L V G T T A			
UniRef90_I0AP04	K N C H Y C P D K T L D Q L I E A I A E W D A I I S R G L P K E I			
UniRef90_U6RDV2	E F I L L N T A K T A E E G A G P K A A V Q I V A P H Q V V K I I S G D F G V K L			
UniRef90_C3LM18	Q T E F H L E L D P S K S C G K K S A I L H Q L R H Y Q I V A V S Q I G Q S M			
UniRef90_M5DY65	K F V N N T A A N K S S G A G V G A A Q L C A D Q N A D A V A A Y H F G P K A			
UniRef90_E4U749	Q R I E L R D N P K A L R E G G K P R L M K Q L L A D C D L W V V G A Q			
UniRef90_S7JAP3	Q W L D I E A T E E A R S E H H K T L L A L L K Q H Q V D A V V V R N I G Q S M			
UniRef90_B6G045	E T L D N S A I A E A S A G A G I K A S Q T I V D A E V E V L L T P R C G E N A			
UniRef90_R6WCV9	E L I E N P A A E A E G G A G L K A A Q F V L D S G A D T V I T V R C G E N A			
UniRef90_F7YJU6	Q R I D V T K T E G S C G H K K Q L L A L L R E N R V D A V I V R N I G Q N A			
UniRef90_G2FY00	T A E Y K N P A L S G T G G A G I A A A E Y M A K E K V E V L I T G S I G P N A			
UniRef90_A0LNT3	R F E T V T N P D D A P T G A G T S A A Q L V Y N K G A A V I T G T I G P K A			
UniRef90_UPI000470B18B	S F I P N E Q A N A H G G A G T N A A G K M L E L G I E R I V S G D I G P K A			
UniRef90_C5F024	N L L E L R E N P Q E E Q I A H K L I E H N V E I I K D C Q A V L V K K A C K N T			
UniRef90_I6Z539	E S F A N E E E G H N H E N L E K F L E M G I T A F I V G N I G A P H A			
UniRef90_UPI000369B483	R A V H A N P Y R D D T E A A G R K V A Q W L I Q E G I T V L C G D V G A K T			
UniRef90_H1YXE1	S F E S V K S A G D I P C S A G A V S A K V L A D L G V D C V I A G G F G P Q S			
UniRef90_A2BKP1	A D I L V A P N P L A D M R G G V G I A I A R W L I D V D L V V G H I T G H H A			
UniRef90_F4BXS7	I S I A N S N V N A T S G A G I Q A A Q E I A R Q G A A L I V T G N V P N A			
UniRef90_Q12Y87	M S W D I G E N P A A D L D R K R G V K T A E Y L Q D V N I V I V K D I G G G P			
UniRef90_R8AVD1	S D L A L P L S D E G H C G R N H A V K L L Q L Q G G V N R V V R R I G Q K M			
UniRef90_UPI000472949F	Q L V A R F A N P A L A G G C S A K K A M L N L I K G A T V V L V E E I G Q R I			
UniRef90_X1J0K1	S V I E N E S A A A G G A G I S S G K V V I D A D V I E A V L T G N C G P N A			
UniRef90_UPI000406C9C9	E T C F I P W R T I P P G S K I T K Q M K E M G I A A V L T S Q I Q L L A			
UniRef90_F6CR47	R L I S R R Q V K L D D L G W P S R V E Q L L G V R V L I C G G I S N F L			



UniRef90_UPI000373413E A S V L L E A N I A I Y K A A G 90 100 110 120
UniRef90_X1HS68 M S A L E S K G I K C K E M S G L T A K E A L R K I E E
UniRef90_R7A1B8 M I A L R E T S I Q V L G G A K G A P K D R V E D F L N G M L
UniRef90_Q1JV98 L D R L R Q Q G F T V Y R G E E T V A A T L D K L Q N T L D E W P
UniRef90_UPI00037911D4 F T A L E A A H V Q V G Q D V E N M T V R Q A V E E F N K T I A S S P
UniRef90_I3XUB2 R A V L A Q M N T V I Y V G A G E M S V A E A Y K A Y Q E
UniRef90_UPI00035D8A32 V N V L G S S G I K I Y S L P Q E I S I A E A L E L Y Q A
UniRef90_UPI000299F4B5 F Q T L Q A T G V E I T T G V S G P I K E V V E K Y K K
UniRef90_X1MX00 F N L A K S L N L K V Y I V P E G V S A D D A V K M V
UniRef90_A8M9K8 F N L M K D S N I K V Y R G D N L P C E L L I K R F E E
UniRef90_UPI00047BFC6A F S V L S E A G I E I Y S G V R G T
UniRef90_Q8PY76 Y Q T L S A A G I Q V I T G V S G S V K E A I E
UniRef90_X1L6F0 F T A L K A A G L D V Y Q D M D N R S V G E A V R C L A D
UniRef90_UPI0003B3C688 F T A L K A G G V K I Y H N M M G G T V A D A V E A F K A
UniRef90_C7LQF8 L K K F L H V G I D V Y F D D K N D T V E D A L R D F
UniRef90_W6EF13 F K T L K A A K I G V A N D A S G S V K D A V K A Y L D G K L A D N P
UniRef90_E1YHQ7 E R I L G S A K I K I L E V S G
UniRef90_UPI0003B54A07 Y R F F T S S G V K M L F T D P V E V S T L E E Y I A S D P
UniRef90_G7VH24 A K V F Q E Y G I K I C K V E
UniRef90_C5ZV60 F L A L E K G G I K V Y L G A Q G S A G E N L E A Y K A G K L A
UniRef90_UPI0003B6C56D F Q A L Q Q G N V A V Y L T D S P T V H D A L E A F R Q G M L R
UniRef90_Q30WF4 M T A L S S S G V S V Y T G V S G T V A Q T L E K Y K N G L M
UniRef90_R4KQR0 R Y A L S E N V R F A S P E G G T V K E I M E N T K E M
UniRef90_U6ECS4 Y R Y F T S E G V K L L F T D P V D V E T L E A Y V T Q
UniRef90_A4WK53 K K V L G X M G F T I H E I N G M I D L V L M A I K K
UniRef90_UPI000477DADD A E V F K N T Q L K I Y K S A V G S I A D N L E A
UniRef90_H6LD00 I T S L A G K T A L Y R A N D L D V E N S L K E F L N G N
UniRef90_D7DT88 F R F L Q R Y N V K A Y L G M G L D A K T A L E K L
UniRef90_C3MKZ5 I T R V K K K F V P V I R A K D V E E G L K L V K D H L
UniRef90_R1CDL7 F E V L K A A G I D V Y
UniRef90_A6LIZ0 L T R L R A Q G V K V Y R A V H G T
UniRef90_A0LPB3 Y Y M L R D N F I K I L Q I P D G D T A R E V L D R F Q N L
UniRef90_A6US56 V R Y L S G K A K I V I V P Q G T S V D S A L N M F R
UniRef90_Q46BG9 S Q L L S R R G V E V I
UniRef90_H5XV32 F H M L R D N F V D I Y K T D E G L S V E N I I K K Y R N
UniRef90_X1SVQ0 L G K L L D A G I S V S K G S A S Q T V A T L L A Q
UniRef90_A9L0D6 L N A L F E R N L R V F S A P A K A D I
UniRef90_F9S7Q7 I R R L A E R N T T L L I S T S E T D P D K A V D A Y I A H E L
UniRef90_C5BTB9 A Q R L A A A G I T L A Q T Q E R E P L L A V A A W L A G Q C R
UniRef90_UPI0003652BD3 F K T L D A A N I K V A N D V S G T V Q S A V E R F K A
UniRef90_S0G5N9 A M V L E R A G V R V E G V S G T V A E A V
UniRef90_W0DW56 E N A L K L A G I K Y I K A E G L T L K E A L I R V K E L
UniRef90_D5EC82 V K Y A Q K N G A K P I A I D Y V G E L D K I I N T L K I S P P
UniRef90_T0ZR59 K T Q L E Q M G K E V M I T F S D S P Q N A L R A Y L S N K M Q E
UniRef90_I0AP04 K S L L T D L K I Q M I V M K Q E K T I K E I I D L L N Q
UniRef90_U6RDV2 L Q A L F N A G I R V Y A L P R G V A L T D V L T Q L Q
UniRef90_C3LM18 Y E A L K A A G I E L L D L K E Q K L I K E A F N D Y Q A
UniRef90_M5DY65 L A S L F L S G V K V F S S P A I H D I
UniRef90_E4U749 A E V L E A G E V K M Y R T F K G T A R E N I E A F K E G K L E E
UniRef90_S7JAP3 G N V F K A A
UniRef90_B6G045 L A A I L E K K I E V Y Y A P R G
UniRef90_R6WCV9 L R V I N G A N I P A Y T A S E D M T L S E A I L A W K E
UniRef90_F7YJU6 H Q A L A A V G V R M I T G M S G S I R E A V A R F K A
UniRef90_G2FY00 K D V L E K F D V E M I S L T D G Q T I E Q I R Q L K T
UniRef90_A0LNT3 A K V F L E C G L E I Y K I N Q D
UniRef90_UPI000470B18B F E M I N
UniRef90_C5F024 K L Y L S E R G V F S G I G Y D G T V D E A I A R F
UniRef90_UPI000369B483 C G V F R E C G V V P Y A A S G C R I S E A L E R Y L A G D L P
UniRef90_H1YXE1 M E A I N A K K I K I V Q P M P G E T L V N V L R R I
UniRef90_A2BKP1 M Q T L S A A N I D V Y Q Y Q G A G S V R D V V E K F K R
UniRef90_F4BXS7 F H K F H D S F I K L L E M P D D E D V E T L I G K I
UniRef90_Q12Y87 L G K L L A A G L R V Y Q A N R R A M P E A L L N A E L T E L
UniRef90_R8AVD1 L G K L L A A G I S V S Q C S R R K M T L V D L L A A
UniRef90_UPI000472949F E R T L T A A G V K L Y T A V T G T V A E A V
UniRef90_X1J0K1 L N L F V E N G I Q V Y K S S G T D L T Q N L L L Y K Q N K L
UniRef90_UPI000406C9C9 Y H Q V V A R G I Q V I P W V T G D V E E V L Q A Y L Q G Q L
UniRef90_F6CR47



UniRef90_UPI000373413E
UniRef90_X1HS68
UniRef90_R7A1B8
UniRef90_Q1JV98
UniRef90_UPI00037911D4
UniRef90_I3XUB2
UniRef90_UPI00035D8A32
UniRef90_UPI000299F4B5
UniRef90_X1MX00
UniRef90_A8M9K8
UniRef90_UPI00047BFC6A
UniRef90_Q8PY76
UniRef90_X1L6F0
UniRef90_UPI0003B3C688
UniRef90_C7LQF8
UniRef90_W6EF13
UniRef90_E1YHQ7
UniRef90_UPI0003B54A07
UniRef90_G7VH24
UniRef90_C5ZV60
UniRef90_UPI0003B6C56D
UniRef90_Q30WF4
UniRef90_R4KQR0
UniRef90_U6ECS4
UniRef90_A4WK53
UniRef90_UPI000477DADD
UniRef90_H6LD00
UniRef90_D7DT88
UniRef90_C3MKZ5
UniRef90_R1CDL7
UniRef90_A6LIZ0
UniRef90_A0LPB3
UniRef90_A6US56
UniRef90_Q46BG9
UniRef90_A0A031LI08
UniRef90_H5XV32
UniRef90_X1SVQ0
UniRef90_A9L0D6
UniRef90_F9S7Q7
UniRef90_C5BTB9
UniRef90_UPI0003652BD3
UniRef90_S0G5N9
UniRef90_W0DW56
UniRef90_D5EC82
UniRef90_T0ZR59
UniRef90_I0AP04
UniRef90_U6RDV2
UniRef90_C3LM18
UniRef90_M5DY65
UniRef90_E4U749
UniRef90_S7JAP3
UniRef90_B6G045
UniRef90_R6WCV9
UniRef90_F7YJU6
UniRef90_G2FY00
UniRef90_A0LNT3
UniRef90_UPI000470B18B
UniRef90_C5F024
UniRef90_I6Z539
UniRef90_UPI000369B483
UniRef90_H1YXE1
UniRef90_A2BKP1
UniRef90_F4BXS7
UniRef90_Q12Y87
UniRef90_R8AVD1
UniRef90_UPI000472949F
UniRef90_X1J0K1
UniRef90_UPI000406C9C9
UniRef90_F6CR47

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm