

1 10 20 30 40
QUERY M R A A V V Y K T D G H V K R I E E A L K R L E V E V E L F N Q P S E E L E N F 40
UniRef90_UPI0003F56A80 L K F A L F G N E Y K Y I E R I L K Y L E A H G A E A Q V E P V D F D N A
UniRef90_Q5P1G9 E A V L R I A K D T L R V R G L D V W I V A S Y E E I G A Q A
UniRef90_R5KQ41 M K F A C Y N S E S H S A E R V K E T L Q Q I L N A R N V K S E I V N I D D G F
UniRef90_A4BRX2 K F Y I T N Q S K D T H R I Q R Y I E G H Q G R Q C V A S D G K S V L P Q N A
UniRef90_R6PVQ7 K F Y I T N Q S K D T H R I Q R Y I E G H Q G R Q C V A S D G K S V L P Q N A
UniRef90_UPI00047BD6C5 M K I G L V V N Y E K E K A K I V D W L S L K K I K V Y I E G N T E K F L N K V
UniRef90_X1B1R9 F Y I I T N N Y E V T R Q L Q D Y L E K R G R T C L L C E R D E E I P K E T
UniRef90_S2Y4U3 A C I L R N G Q D V V F E R E T A L A T G L T D Y P A L S A E E I G R E A
UniRef90_V2IYG0 V A L V G R S N E P L A T L A D S I A T L G F E V V F E G D P A E I G A R A
UniRef90_B4EDZ8 M R F V L F G N T Y S H I E K L L N T L R R L D C E L G L P F E P D G L F E N A
UniRef90_R7CZL4 V A I I S K P Q E L L P E L V K W L E S H N Y T P A L D E T S A E Y M G Q P
UniRef90_UPI00036375FA V A I V G K I D Q S L A E I A D F L S K S G Y D V V F E S E P V I E I G R K A
UniRef90_A4VM71 I R R L K R F L V E R H L H V I L E E N Q P E E I P K S I
UniRef90_C0B752 K F Y I T N D M K D A N R I K K C I E S Y G K K C Y L E E Q P E E I P K S I
UniRef90_C0ZC12 K I G I I A N K G K V A R E L L Y L L E D R G A Q V F L D D H I A S D V K Q A
UniRef90_R4YM19 I A I V G K I D Q S L A E I A D F L S K S G Y D V V F E S E P V I E I G R K A
UniRef90_UPI000372EEA9 E D T L R H L A D F L Q K R G I T V L L D E Q L D S L L Q Q C C
UniRef90_U5N6Y7 E E W A R Y E G V T D C T S R S L E D M G R E C C
UniRef90_UPI0002557CE6 Q S T I A E V M P G H G Q Q V C K Q L M G E I
UniRef90_R5J7U5 M K F A F A K K S S H A E T F H L L E K H G A E V E F Y R F L V S D M K S V
UniRef90_UPI0003A5921C F L L D N G H S V I L E D A V A D L L P G H Q L V C S R K M M G E I C
UniRef90_S6BC69 R I A L T I A K P D D T S E D L V N T L R E R G L E V F P D R H T A E M G H R C
UniRef90_F0RYU1 V L I I A N S H A L S Q T I S E Y L T R K G I T S S I F R T N A E D D E G T
UniRef90_K2G4I7 E S L R R L A E Y L H E R G I S V F V E R E T S E H I A H A
UniRef90_Q2RIC1 E E E V T I A A
UniRef90_A7MWW3 S E G Y Q V F I D D R L A A I L D E I S Q F A S L V I E L G K N A
UniRef90_A0Q0A6 E S I I N K I Q K Y F K D S T V V L Y K D S R D S E N T R K F
UniRef90_V2RH98 M K A A L I V K P K G E V K K V I Q I L E A K G I T P L L E K E T V I E R L S Q A
UniRef90_W9VAK8 L K Q L I R F L D D K G L N V I L D Q K I A E M G E I C
UniRef90_W6MBX4 E T L N Q I A A H L R Q R E L R V L L D E S S A T I G E Q C
UniRef90_I3C5E5 M K V G I Y Y K E D E Y I L K L L E V L Q R N K A E V K T F S S F N D L D N S F
UniRef90_F5SB26 R G V E V W L E P E I A Q S I E R P
UniRef90_A5D2Z8 D E V A G Q I I R W L L E I N G C R V L M E E E T A Q L V E Q A
UniRef90_S6HIF9 E M G D L L C
UniRef90_S0FJ8 M K I G I I T N N E K Y T N M L I E S I R K F G G Q A G L D N E V E I C S K C
UniRef90_UPI00029A3709 M E I A I F G K S F G D V R Q L F D Y L H K K G P E V T G F F S S S E I L P A V
UniRef90_W9VDX9 L R R L I T H L H A H A L E V L A E S A H L I G A I G A P V A L E E L G A R C
UniRef90_UPI000371996F K I G I A V N Q K H K A H L E V L A E S A H L I G A I G A P V A L E E L G A R C
UniRef90_I4MHZ8 V A I V G K Y Q A V V D E I A Q F L H A Q G C E V S L E E Q T A Q I G R H A
UniRef90_W0UZS6 I A L V L R A H E P V Q S I L D F L H G L G H T V V F E A E T A A H L E L A
UniRef90_J3D893 I A A F L R Q H G H T I V F E E T A Q N V A L E G Y D A M S P E Q I G Q F A
UniRef90_Q46AH3 K I G I S A R C D E I T I G K V R E I L L A H F S S R V Q I F V A T P T A E E G V
UniRef90_A0A009ZIS3
UniRef90_A0L8H9 K Q H R R V T V T A E A K A A N I S P K I I K P L E D I G E G Q
UniRef90_N6WAL1 E I C
UniRef90_UPI0003B7B5DA G L S V H L A R S A A L T L G E K E Y L P S D Q E L A S Q I
UniRef90_W0TM36 K S K A E L A R I C
UniRef90_C4L8Y7 E V A H F L A R Q G L E V S L E A Q P D E I G A Q C
UniRef90_H5WP22 M K V L L M S R I D A Y A D E I R H L L S L G Y T V A L E E G T A D V L T D A
UniRef90_J0RZY1 K V I F E A E T A L N F S L T D Y D S M T E I G E C A
UniRef90_A6T230 M R I G I I A R F D E L A G K V A S F L L N R G V E L S V D L K V A E K L P D V
UniRef90_D9PXA7 F L Q Q D G Y T A V F E E T A A H L G F E M D H V R S A T E I G A H C
UniRef90_L9PJP9 I Y L D K D S I N K N L L V E A N F P A C H F I N K E E M G K K C
UniRef90_G4CQ80 L R F A L F G N K S A H V T H L L E I L R R R K A Q I C I S N E F Y D F L R N A
UniRef90_R6S9Z9 R V G I V H K A S E T A V Y V G Q E L F E G K G V E V L R D E A E V A R S A
UniRef90_B4UDL4 M K F A I V A N T E R K A K E L T G W L D S K R V S Y V L E S L S A E K L R I C
UniRef90_B3EI21 T N Q T L K R L H H W L T M Q G F E V L V E E R D E A E I G A R C
UniRef90_A3D2B0 R V G I V A N S Q K D T M S C I N W L Q K E G C L V I T A D D E S L Y L K S
UniRef90_UPI00047E385B L R F A I F G N E Y Q A V E Q V L A C L C D R G A E V C V D R P F Y E Y L S D A
UniRef90_F8N8A7 M R I N V Y N N Q D V L A R L E E E L I T R K V E F Q T F D I D S L K E F
UniRef90_R5STX2 I G L V Y R Q E S L A K K V A E F L K E R G F E V F T C P D T K K H M D D L
UniRef90_Q6MI15 F G I V Y Q S T E V A E A L A Q F L L Q R G Q D V W L E H D T A E I G E Q A
UniRef90_UPI000366D36A I G I I G R L N S A I K R L R R F L S D E G I N I L E E Q P K M M G E I C
UniRef90_Q1N0L8 R I G F V S R G D P E S R N L V E R F R S R A I E P E T F A E T R I E D M D V
UniRef90_R6W3G9 I K A G K V V E K E D F Y S M S
UniRef90_G7WQ05 L K N E Y E V F S N H T E L N S F
UniRef90_UPI00046F2A87
UniRef90_UPI0003F95E34
UniRef90_R5CE29
UniRef90_A0A037Z7G2 M K I G I N V N T N K D A E R I V E N I K K N Y V D V N V I G L D S E D T R K L
UniRef90_UPI0004696283 V Y I E Q N F Y R V L A N E L K R D F P I A G V F G V N F D V
UniRef90_E8XQL0 W L I S K G Y Q V I V E R Q V A Q D L A L E G A Q T G S L A E I G K L A
UniRef90_S8F9T6 K I V I A R N F Y Q Y L K N T L K R P F A V D G V F D T T D Y E A
UniRef90_Q02A16 G I I S K P N S T A A E L I E W L R R R G I A V R I D E Q T S E V P Q S C
UniRef90_R6R4Q4 L K F A L F A K K S T S I E K I L D Y L A Q K G A I Y V E N A Y E F L T D V
UniRef90_C6HY62 R E A I L S M G P S P L S V F D R E E I A R S A
UniRef90_R1GZB4 L D I P A D D F H D L L S I G A K A
UniRef90_A7I809 M K C F L V S R I D D C A S R M K T A L E R A G H T V V L D P D T A S M L G G A
UniRef90_M8DBQ8 F G I V A N K G K V A R E L V Y L L E E K G A R V L L D E Q M A S I G S E A
UniRef90_N2JAD0 K I G I I G R L G S T I R R L K T F L L A R R L H V I L E D I A E M G E V C
UniRef90_F5XYR5 K E T A A H A G V Q G F D S L D M E A I G R E C
UniRef90_E1VIM8 K I G L I G R E D S A L V L L I D V L E A R N L E V V L S A P T A A M L D A C
UniRef90_D7VKP4 M K I A I Y G R E F S Y V Q Q L F D F L N K K D L E I C T F T S H E D I P K D V
UniRef90_Q0YTG2 M K F A I V V N V S R E A R E L A L W L D K R G V E Y V F E T L S A E K L R Q C
UniRef90_L0WEL9 R K I A D S L S E M G L Q A A S A A Q M G E S C
UniRef90_D8FF60 V G I I Y K H H Y E A L K L A T W F E N R G L T V G V S N R R P T V P R D V
UniRef90_A1R5A4 S E L A D I E R F F G A L D T P I E I L N D H V I N L E D V
UniRef90_UPI0003198EA7 V A Q F L T R Q G C E V V L D K E T A E I G K Q C
UniRef90_B8CS28 G Y S V L V E E R V A S D V G S H T H S V D L L E I G A N C
UniRef90_UPI00047D9D66 T S D V L Q R I A G F L T H Q G C E V V L D T Q S A I H A R H C

QUERY D F I V S V G G D G T F L R I L L Q K L K R C P I F G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0003F56A80 D Y V I S M G G D G T F L K A A S R V L G D E I G V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q5P1G9 D L A V F V L G G D G T M L N T A R R F Y A K H G V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R5KQ41 D F V F V I L G G D G T L L K T A R R F Y A K S T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A4BRX2 D L I A V V G G D G T L L H A A R L L A D H V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R6PVQ7 E C V L V L G G D G T L I R A A R E L R T F C K P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI00047BD6C5 D L A L V V G G D G T M L G I G R L L A Y F G P M I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_X1B1R9 E L I I S L G G D G T L L R A A R L L A A Y D I P V F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_S2Y4U3 D C V L T L G G D G T L I Q A V R E L R N S H L P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_V2IYG0 D V A V V L G G D G T L L G I G R Q L A F Y T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_B4EDZ8 D V A I V L G G D G T M L G I G R Q L A F Y T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R7CZL4 D L A I S M G G D G T F L K A A R S L L G N D I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_I3ZFA9 E L V I V L G G D G T L L S A A R S F A R D T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI00036375FA D V A I V V G G D G T M L G I A R Q L A P N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A4VM71 D L V I V V G G D G S L L G A A R R A M A R E H L P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_C0B752 D C V L T V G G D G T F I Q A S R R F G R E L P M L F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_C0ZC12 D L V C V L G G D G T L L R I A R Q L A H N T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R4YM19 D L V I V V G G D G S L L G A A R A L A Y H N T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI000372EEA9 D L V I V V G G D G S M L G A A R T L A Y D I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_U5N6Y7 D L V V V V G G D G T M L G V A R Q L A Y S V I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0002557CE6 D L A I V V G G D G S L L G A A R S L A K S I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R5J7U5 D M V I C I G G D G T F L K A A S R V G D N I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0003A5921C D L V I V V G G D G S L L G A A R A L R Y N V I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_S6BC69 D L A I I V G G D G T F L S S A R R L G D Q I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_F0RYU1 D L V I C L G G D G T V L Y C A R R Y L A R G V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_K2G4I7 D L A I V L G G D G T M L N A A R R L A R G V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q2RIC1 E G L L A L G G D G T L L R A A R L V A P R D T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A7MWW3 D L A I V V G G D G T M L G A A R L L A S R D V A V I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A0Q0A6 D M V V V L G G D G T I L R A A R S V A E Q V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_V2RH98 D L V I V L G G D G T L L Y A A R M F R S V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_W9VAK8 D L V I V V G G D G S L L G A A R L A Q S N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_W6MBX4 D L A I I M G G D G T M L N A A R L V N Y E V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_I3C5E5 D I F L S V G G D G T M L R T V L F V R D D I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_F5SB26 D V F V L G G D G T L L G V A R R F A A D D I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A5D2Z8 Q C M L V L G G D G T L L R T A R R V A F G T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_S6HIF9 D L V I V V G G D G S L L G A A R V L S R D V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_S0FJ8 E L I I C L G G D G T F L K T A R A Y L Y N I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI00029A3709 D M L F S I G G D G T F L Q A V I T I V R D G I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_W9VDX9 D L I I V V G G D G T L L H A A R S M A P G V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI000371996F D L V F V L G G D G T L L G V A R Q L A Y D I P M L F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_I4MHZ8 Q L A L V I G G D G T L L G I G R Q M A R Q V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_W0UZS6 D A A I V M G G D G T M L G I A R Q L A P D V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_J3D893 D A A I V V G G D G T M L G I A R Q L A P N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q46AH3 E L I I S V G G D G T V L R N I A K M K D P L P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A0A009ZIS3 D L V I V V G G D G S L L H A A R L V R H N T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A0L8H9 D L V I V L G G D G T F I G A A R D L R W K V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_N6WAL1 D L V I V V G G D G S L L G A A R E L A K S I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0003B7B5DA D M A I V V G G D G T L L Q V G R L L A E D I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_W0TM36 D L T L V V G G D G S F L N A A R E M A D D T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_C4L8Y7 D L A I V V G G D G H M L G A A R V L A R D V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_H5WP22 D I A V V M G G D G T M L G I A R L A R H N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_J0RZY1 G I V V A V G G D G T V L L A V Q M M K R Q I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A6T230 D A A I V V G G D G T M L G I A R Q L A P N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_D9PXA7 D M L I T L G G D G T L L R T Q S L I G K E I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_L9PJ9 D A A I V M G G D G T M L G I A R Q L A P D V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_G4CQ80 D L V I V L G G D G T F L S A A R K V A H R I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R6S9Z9 D M V L S I G G D G T F L K A A S R V G K E I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_B4UDL4 D L V V V L G G D G T L L H A A G L L G R P V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_B3EI21 D I F I S L G G D G T L L L A S H Y S E T K P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A3D2B0 D L A I V V G G D G T M L G A A R V L A R D L G V I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI00047E385B D F I V V L G G D G T I L N V A R K A S F E K P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_F8N8A7 D Y A I S I G G D G T F L R A A R I M A K G T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R5STX2 D F T I V I G G D G T L L K A A R R F Y T T A P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q6MII5 K L V I V L G G D G T Y L R A V R L L G R S V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI000366D36A D L V V V L G G D G T M L A T A R R L A H S L P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q1N0L8 D L V I V V G G D G S L L G A A R L V K S N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R6W3G9 D F V I S I G G D G T F L R A A S M V G K G T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_G7WQ05 D F I V S V G G D G T I L R T I R R M E D P R P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI00046F2A87 D F I F V L G G D G T L L R A A R Q A K Y G L P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0003F95E34 D F F I S I G G D G T M L R A A T F V K K N I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R5CE29 D F V I S L G G D G T L L R A A W L V G K G T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A0A037Z7G2 D A A I V L G G D G T F L K A A S K L A K Y N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0004696283 D Y V I S L G G D G T L L K A A S K V G P Q T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_E8XQL0 D L A V V V G G D G N M L G A A R V L A R D I K V I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_S8F9T6 D I V L S I G G D G T F L Q A A S N V G R D I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q02A16 D L V V V L G G D G T L L S A A A R I R R E T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R6R4Q4 D Y V I S M G G D G T F L K A A S R V A K G T P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_C6HY62 D L L I V L G G D G T L L S A A R A T Q R Q I P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_R1GZB4 D L A I V I G G D G N M L G A A R V L S R D I S V I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A7I809 D M A V V I G G D G T I L R T V Q Q L H E Q I S P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_M8DBQ8 Q L L C V L G G D G T L L G I A R R L A R S L P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_N2JAD0 D L V I V V G G D G S L L G A A R L A R P R V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_F5XYR5 D L G L V V G G D G T M L G V G R R M A R N V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_E1VIM8 D L V I V V G G D G S L L G A A R S F A R H V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_D7VKP4 A F M L S L G G D G T M L S A V S I I K D G L P V A G G I V I N N M G R R L G G F L L T H A S
 UniRef90_Q0YTG2 D A F I S L G G D G T L L F A S H Y A M T K P V I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_L0WEL9 D L I I V V G G D G S L L G A A R T L S R D V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_D8FF60 N W I V V L G G D G T L L G A A R Q V L G R G A P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_A1R5A4 E L V M V L G G D G T I L R A A E L V R E D V P I I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI0003198EA7 D L G L V I G G D G T M L G I G R Q M A R N L A M G I V I N N M G R R L G G F L L T H A S
 UniRef90_B8CS28 D L A I V V G G D G N M L G A A R V L A R D I A V I F G G I V I N N M G R R L G G F L L T H A S
 UniRef90_UPI00047D9D66 D L S L V V G G D G T M L G V S R H I L Q Y G T P I I F G G I V I N N M G R R L G G F L L T H A S

QUERY P E N F E V E L K K A V E K F E V E R F P R V S C S A M P D V L A L N E I A V L 120
UniRef90_UPI0003F56A80 P S E I E E A G D Y V L E D H T V I Q V E A D G E Q I E C P Y A L N N D I A V L
UniRef90_Q5P1G9 R D E I L E E M G R Y T E E S R A K M L D A E V L R A G H R V F Q T L A L N N D F V I N K
UniRef90_R5KQ41 K E E I E E S V D K I E L N G K M F I L I E D R I M L K S G Q F T A L N N D F V V K
UniRef90_A4BRX2 P S H L D E I D A V L S G E F I A D D R M L L T A E I H R R G D I A L N N D V V L H
UniRef90_R6PVQ7 V Q N L E Q A L E Q L F E R P E I E A R M M L K G N K G Q S E D A T A M N D I V V G N
UniRef90_UPI00047BD6C5 F E D Y Q D T L K P M L R F W M M Q A R V V R D G G Q C V F S A T A M N D I V V N
UniRef90_X1B1R9 I D D L E K L E K L Y Q E K Y F L D E R M M L D C K E L K E F T A L N N D I V I G
UniRef90_S2Y4U3 I E E S L E K L F C G A F L P E R R M M L Q G K L E G R K E D L A L N N D I V V A
UniRef90_V2IYG0 L E D V Q S V L P A M L S G H Y E P E N R M L L E S R V I R D E G L N D I V V N
UniRef90_B4EDZ8 A S D M Q A L V P V M L A G K F E R E R I V R D G E P I Y H A L J A F N D I V V N
UniRef90_R7CZL4 P E E I E S A F E R I V Q R G F H V I E E R K L P D G K L K G Y P F A L N D I V S L
UniRef90_I3ZFA9 L S E L Y K T L D A W R E R G M M H A E L M R D G G V F Q A W D A L N D I V V I A
UniRef90_UPI00036375FA Q D E M L S G K L E S E Q R S L L E A S V I R D G N P I F H A L J A F N D I V V S
UniRef90_A4VM71 P D N E L E E K V A E V L N G Y T I E A Q A R R F D E P L G E G D A L N D I V V L H
UniRef90_C0B752 V Q N L E E A V A K Q L V E N Y T I E E R M M L Y A Y R N V R D V A L N D I V M T
UniRef90_C0ZC12 P E H L P Q A V D N L L S G K Y D I E C L V R K G I T L G T Y T A M N D I G I A
UniRef90_R4YM19 P D D D M D Q A I Q A V L D F G E Y I E E Q R R N K G V S I A T G E A L N D I V V H
UniRef90_UPI000372EEA9 P D E L D M D Q I A E V L E R D G L L E A R V R R K G K V I G Q G D A L N D I V V L H
UniRef90_U5N6Y7 Y R D F L E G E Y I E D H R C L I D A Q V L R A G S V V F A A L A L N D I V V N
UniRef90_UPI0002557CE6 P H D F E E K L V E V L S G Q Y M V D T V K R D G E P I G E M T G L N D I C V V H
UniRef90_R5J7U5 P A E M E A T F E I Y A G H Y T V E E R S V L Q L I C Q C S P F A L N E I A V L
UniRef90_UPI0003A5921C P D E L E S R V G E V L A G Q Y T D V F V R R G D E Q L G T S E A L N D I V V L H
UniRef90_S6BC69 P D A M R D T L G N V L Y S G E E E R F L L S C Q V G E Q P P E L A L N D I V V L H
UniRef90_F0RYU1 V D E W Q E A I E F Y L S G K E C P S R V L R E G V K V F T A H G L N E M V V I
UniRef90_K2G4I7 R D D L L T C M D D L L D G R F M P S E T R M L D G G K E I A S N M A L N D I A V I D T
UniRef90_Q2RIC1 L T E L Y P A L K K L K G A Y R I E E E M M L R G T V Q R P C T A L N D I V V T
UniRef90_A7MWW3 P D D F K E A L K A V L K G K Y I E E E L H R H G E V I K S H N A A L N E A V V T
UniRef90_A0Q0A6 V S E F F E A I K K S L K K Y K I E D R M M L T C E Q V K N K Y N S L N D I V V I S
UniRef90_V2RH98 I D N F E K I I N S F I E K K L I V K R R M K N G E N I F E E E A L N E I V I N
UniRef90_W9VAK8 P Q E I E R V N E V L Q G K Y S V D N I R R K G E M V G E M A A L N D I C V H
UniRef90_W6MBX4 P G E P H S L D R V L A G Q F R E A H R S L L H A Q V I H E G R I L N D I V V H
UniRef90_I3C5E5 K E N I S T A A I E V L K N R D Y V K K R A L M E D Q T E V N F A L N D I T V S A
UniRef90_F5SB26 P D S L T S A T A V D R I L S G D Y Y I E E R L M D G K V I E R S V A L N D I V G I
UniRef90_A5D2Z8 I P D T F P S L R K L L D Q Y Y I E E R M M L E A R V I R G G A G L N D I A V I T
UniRef90_S6HIF9 P Q N F E E K F A E I L E G K Y T K I V V R R D G E L V G E A D A L F D V M V L H
UniRef90_S0FJ8 K G E I D K A V E S I F Q N N Y I I E E R M M L S S R I Y K E G K L F D V S I S
UniRef90_UPI00029A3709 R N E L P V A L E S I D L G R Y K V K E L S L T G I V D D F N F A L N E F A V H
UniRef90_W9VDX9 P E E I E S T I D Q I L D R S M L Q A A V Q A E G S S G E P Y S A F N D I V A I H
UniRef90_UPI000371996F P E D L P S A V D R V L R G D Y H L E K R M M I G Q V I H K N I A L N D I V G I A
UniRef90_I4MHZ8 F D D Y R E A L C P I L L R G E Y Q E E A R A L M A Q C V Y E A T A L N D I V V N S
UniRef90_W0UZS6 L E R M L P V L A D L L A G K F K A E R R T L D G Q A I H F A G L A V N D I V V S A
UniRef90_J3D893 L D R M I P V L A D M L D G K V D A E T R S L D G G E Q I F N G L A V N D I V V V A
UniRef90_Q46AH3 P E D A L E T I E E V L Y G F S Y S D R M R V D V F L N G E M T A T N E I A I M
UniRef90_A0A009ZIS3 P S E V I F K L D Q V L Q G H F Q E M E M R S K G E T I Y D A L N D I V V L H
UniRef90_A0L8H9 Y D E M Y D L K E V F A G H Y N V E D R M M L T A F I R R E H V L V A L N D I V V H
UniRef90_N6WAL1 P D D L E E R V G R V L Q G E Y I E E H R F L L D A H V T R N E N L N D I V V L H
UniRef90_UPI0003B7B5DA P E K L D E Q L H A M L E G H Y I E P R T L L Q T E V Y R R N A L N D I V A L H
UniRef90_W0TM36 P E H M L E A L A S I L Q G H Y I E D Q R F L R I G R D K R Q L A L N D I V V L H
UniRef90_C4L8Y7 P H D F E V S L Q Q V L S G D Y Q T E H R F L H G E P K S S N T A L N E A V L H
UniRef90_H5WP22 L G Q Y Q E V L P P I I N H Y V I E E H R A M L E S E V W R D D E R I F D E V V S
UniRef90_J0RZY1 D R E V P A F F M N L H E G M R L D R M R I S L F H E G E H E A L N E A V I V
UniRef90_A6T230 L D Q M M P L L K E M L S G K V R S E Q R T L E G E P M Y S T L A F N D I V V L S
UniRef90_D9PXA7 P E N V I F S A L E D V L I G N Y A V I E R R T L L S V Y H N G P S A L N D I V M M
UniRef90_L9PJP9 L D A M L D V L P K L I A G R Y K E G R V M R N G E T I H V G L A V N D I V V S
UniRef90_G4CQ80 R E N M V K E V S S M L T G K Y H E C T V L R N S E T I N R S L A L N D I V V S
UniRef90_R6S9Z9 P D Q M E D A F D E I Y Q G N Y L A E P R R V L K L T C N Y P Y G L N E I A V L
UniRef90_B4UDL4 Q S G M Y A A M D D I Y G R A T L S E R M K L R V H L H R D A E V L N D I V V I A
UniRef90_B3E121 K D E M I G A V E Y S I H N R T Q L I E A T T M C N G R E Q R M C A L N D I V V I E
UniRef90_A3D2B0 P D A F E E A L A K V L D G E F D T E H R F L L E A E V I R H G M L N E A V L H
UniRef90_UPI00047E385B L K D M Y R S L K M A I E R M M L E C K M L R K G R I L Q E Y H S L N D I V V I T
UniRef90_F8N8A7 P G E F G E A D D I Y A G R C E L E E H T V I Q T E A D S C P Y A L N D I A I L
UniRef90_R5STX2 V G E I G S V V D K V L E G S Y S T E E R L M L Q S G N S H A L N D I F V I K
UniRef90_Q6MI15 A D S C F D L I E K T L P R S M I Y S K I L R K G K V R A E Y H A L N D M V I E
UniRef90_UPI000366D36A R E R M F A C L G D I L D G R Y L R E R R V L L Q A D V W R T M A L N D I V V L S
UniRef90_Q1N0L8 P D N L E E K V E V L R R F M L E A E V K R N G E P I G Y G E A L N D I V L H
UniRef90_R6W3G9 P D E I D H A I A E I A D R H Y A V E P H A V I M I E G S P F A L N D I A V L
UniRef90_G7WQ05 P K D A V R T L E R V L F G F E V M E R S R L S T R L N P L P P A T N E I A L L
UniRef90_UPI00046F2A87 V S D I D G A L D S L L S G D Y Y I E R R M M Q G M E A Y E L V A L N D I A I A
UniRef90_UPI0003F95E34 Q D A I E K L L P N L F S E N N Y K L S Q R T L P C D I L F D L N F A L N E I T V S
UniRef90_R5CE29 P S E I E S A I D Y A I E P H S V I R V I E V E G G D P V C P D C A L N D I A V L
UniRef90_A0A037Z7G2 S S N F F Y A L K S I L N N D Y Y I E E R K M L Q C K L K V F H G L N D I V V A
UniRef90_UPI0004696283 P E D I E R A G K C E I E R A V I Q L E A D G E P L E N C P F A L N D I A I L
UniRef90_E8XQL0 P D N A L Q Q L D D V L Q G E Y I S E M V R C K D Q Q C R V S T A I N E I V L H
UniRef90_S8F9T6 P A E M K Q T F D D I F Q H R Y Q I E S R S L L Q V I E C P Y P F N L N E I S V L
UniRef90_Q02A16 I E E L Y P E I E R A L R G E H R I A K R K L M T E V I R E N N L N D I A V L T
UniRef90_R6R4Q4 P G E V I E A A G E C Q I E E H V V I Q V I E A E G V L A G N P F A L N D I A V L
UniRef90_C6HY62 K E E T F L V L D S V I S G H Y V A E R R A M L H R I T E S H D V L N D I V V I N
UniRef90_R1GZB4 P D E Y E D A L T S V L S G E Y I E D H V H R H G Q V K S H N A A L N E A V L H
UniRef90_A7I809 P E E A G A F V R S L A P G F D V E E R M R L S L W N E E D H D A L N E G L I V
UniRef90_M8DBQ8 P E H L P H A V D N L L S G Q Y I E E E R S M L E A E L V R N Y T A M N D I G I A
UniRef90_N2JAD0 P D E L E T K V A E N V L E G Y I L V E F V C R E G E T I G N Q A D A M N D I V L H
UniRef90_F5XYR5 L D G F R A T L E P M L R G E H M H A R V M R D G H C V F D A L A M N D I V V N
UniRef90_E1VIM8 P S E I E A R I L Q I V L D G H Y I R E H V R R A G R P V G Q N S A L N D I V V F H
UniRef90_D7VKP4 K T D I E K A L I Q I L N N A Y T L Q K R A L T V F E G K N F A L N D I I V F F
UniRef90_Q0YTG2 Q A E M F S A I E K V L N N Y T I H N S L S I D G N V Q Q L R A L N D I V V I E
UniRef90_LOWEL9 P S E I E S R V E G Q V L D G E Y T D M E V R R G K S V V G E G C A L N D I V V L
UniRef90_D8FF60 L D R L Y S V V E T M V S R M M L E T K V L R D Q E E T I R F Q V L N D I V V I N
UniRef90_A1R5A4 R A D L A Q T V E W I A E R M T I D V Q V W V K G Q K I W H T W A L N E A A I E
UniRef90_UPI0003198EA7 L Q S Y Q D V L P M L Q G E H Y Q Q A H V M R D Q R S V F N A L A M N D I V V N
UniRef90_B8CS28 P D T F E E A L S K V L L E G E F D Q T E Q V M R H R G E L K S S N T A V N E A V L H
UniRef90_UPI00047D9D66 L E D F E A T L T P M L R G E Y M H A R V M R Y G V C V F E A V A M N D I V V N

QUERY S R K P A K M I D V A L R V D G V E V D R R C D G F I V A T Q I G S T G Y A F
UniRef90_UPI0003F56A80 K R D S A S M I E S I R T Y V N D N E F L V D N Y Q R A D D G L I I A T P T G S T T A Y A N L
UniRef90_Q5P1G9 K G D L T G R M L E F F D S L K I V N D N N K F V Y T Q R S A D D G M I L A T P T G S T T A Y A G L
UniRef90_R5KQ41 G C D T G R T S E R F D S L K I V N D N N K F V Y T Q R S A D D G M I L A T P T G S T T A Y A G L
UniRef90_A4BRX2 K W N T A R M I D F F E T Y I V N D G G E L L A N R H H S A D D G L I I V A T P T G S T T A Y A M
UniRef90_R6PVQ7 R A G A L R L I H F N F N V V D G R F L V A N Q R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_UPI00047BD6C5 R G T T A G M V E L R V E V V D D G R F V A N Q R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_X1B1R9 K G A F A R I I C L A T Y V V N D D Y V I T Y S A D D G L I I V A T P T G S T T A Y A N L
UniRef90_S2Y4U3 R A G S I R V I H F N F N V V D G Y F L V A N Q R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_V21YG0 R S G I S G M V E L R A V S V V D G G Y F M Y N Q R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_B4EDZ8 R S G F S G M V E L R A S V V D G G R Y F M Y N Q R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_R7CZL4 K R D S S S M L H T I V V D G G Q F L V A R F R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_I3ZFA9 K G A I A R M G D Y I I E L V V D G G Q F L V A R F R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_UPI00036375FA R G P T S G M V E L Q V E V V D D G R F M V A N Q R A D D G L I I V A T P T G S T T A Y A S L
UniRef90_A4VM71 P G K S T R M I E F F E L Y V V D D G F F L V C S S Y Q K A D D G L I I V A T P T G S T T A Y A S L
UniRef90_C0B752 R S G S M K I V H F F N L Y V V D N G E F F L V C S S Y Q K A D D G L I I V A T P T G S T T A Y A S L
UniRef90_C0ZC12 K G S F C R I I Q C A V F L V D D E E Y V A T F S G D G L I I V A T P T G S T T A Y A S L
UniRef90_R4YM19 P G K S T A R M I A F F D L Y I V D E G Q F V V H H Q R A D D G M I V A T P T G S T T A Y A S L
UniRef90_UPI000372EEA9 P G K S T R I I A F F D L Y I V D E G Q F V V H H Q R A D D G M I V A T P T G S T T A Y A S L
UniRef90_U5N6Y7 R G A T A G M V E L Q L V R V V D D G H F V V A S Q Q R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_UPI0002557CE6 P G K A T R M I Q F F L Y I V D E G Q F F L V Y T T Q K A D D G L I I V A T P T G S T T A Y A S L
UniRef90_R5J7U5 K R D S S S M I S E L R T A I N G A F L T T Y Q A D D G L I I V A T P T G S T T A Y A S L
UniRef90_UPI0003A5921C P G K S A R M I E F F E L Y I V D D G Q F F L Y S Q K S D D G L I I V A T P T G S T T A Y A S L
UniRef90_S6BC69 K W N T A R M I S E F E T T R W I D D D S T L D T Q R S D D G L I I V A T P T G S T T A Y A S L
UniRef90_F0RYU1 S S G I S K V I S M A L R V I G D D T D A G F F R S D D G M I V A T P T G S T T A Y A S L
UniRef90_K2G4I7 K G A I G R M I E F E L F I V D D G E F I Y K L R S D D G L I I V A T P T G S T T A Y A S L
UniRef90_Q2RIC1 K G A F S R M L R L E F E V Y I D D T A Y L D T Y P A D D G L I I V A T P T G S T T A Y A S L
UniRef90_A7MWW3 P G Q V A H M I E F E V Y I V D D S F A F S R A D D G L I I V A T P T G S T T A Y A S L
UniRef90_A0Q0A6 R R P L A R I L N S T I Y I V D D N E L Y T E F N S A D D G L I I V A T P T G S T T A Y A L I
UniRef90_V2RH98 K G A P S R M I E L S I F I V D D N S F V Y T R Y R S A D D G L I I V A T P T G S T T A Y A L I
UniRef90_W9VAK8 P G K A T R M I E Q F D L Y I V D E G Q F V Y T Q R S D D G L I I V A T P T G S T T A Y A L I
UniRef90_W6MBX4 K R E V A R M I E V D T F L D D G R F V N T Y R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_I3C5E5 R K N T T S M I T T G T A V W L D D G Y L L G T Y S W A D D G L I I V A T P T G S T T A Y A L I
UniRef90_F5SB26 K G S F S R M L T G T V Y M D D G V Y L G T Y S W A D D G L I I V A T P T G S T T A Y A L I
UniRef90_A5D2Z8 K G A F A R I S Y F E M Y V V D E Y V N T Y S A D D G L I I V A T P T G S T T A Y A S L
UniRef90_S6HIF9 P G K A T R M I E F F D L F V V D E G S Y V Y T P R G D G L I I V A T P T G S T T A Y A S M
UniRef90_S0FJ8 R A G I P R I L H L S T Y I V D D N E Y F N S Y W A D D G L I I V A T P T G S T T A Y A S L
UniRef90_UPI00029A3709 K Q D S S S M I T T L H T Y I V D D N E Y L N S Y W A D D G L I I V A T P T G S T T A Y A S L
UniRef90_W9VDX9 K W N T A R M I E F F E T T Y I V D D G R F V D N A Q R S D D G L I I V A T P T G S T T A Y A S L
UniRef90_UPI000371996F K G S F G R M V E L S V Y V V D D D M Y V D K Y S G D G L I I V A T P T G S T T A Y A S L
UniRef90_I4MHZ8 R G A V A S M L E L K V E V V D D G R F V A N Q R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_W0UZS6 R G A G A G M A E L K V E V V D D G H F F M Y N Q R S D D G L I I V A T P T G S T T A Y A L I
UniRef90_J3D893 R G A S S G M V E L T V E V V D D G R F M Y N Q R S D D G L I I V A T P T G S T T A Y A L I
UniRef90_Q46AH3 S A K P A K I I Q F F E V Y V G D C L L D S M R A D D G V V F A T P T G S T T A Y A M
UniRef90_A0A009ZIS3 S G R S V H M L D F F E L N S I N G G Q Y V Y T R S H A D D G L I I V A T P T G S T T A Y A L I
UniRef90_A0L8H9 K G H L A R M M E F F Q V L N G G Q H V Y T S R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_N6WAL1 P G K S T R M I G F D L Y I V D D G H F V Y S Q R A D D G L I I V A T P T G S T T A Y A S L
UniRef90_UPI0003B7B5DA V R N D V R M I E F F D T Q I D D G H F V N T Q R A D D G M V I V A T P T G S T T A Y A S L
UniRef90_W0TM36 K W N T A R M I E F F E T T Y I V D D N G R Y V D S Q R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_C4L8Y7 P G K I A H M I E Y S V Y I V D D S F V F S Q R A D D G M I V A T P T G S T T A Y A L I
UniRef90_H5WP22 R G A T A A M V E L R V I D I D D G I F V A N L R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_J0RZY1 T A R P A K M L R F T I I V D D G E F V E E F R A D D G L I I V A T P T G S T T A Y A M
UniRef90_A6T230 R G S G A G M V E L R V E V V D D G H F M Y N Q R S D D G L I I V A T P T G S S A Y A L I
UniRef90_D9PXA7 T R K P A K M L H I E I S V V D D D E V V E E L R A D D G L I I V A T P T G S T T A Y A M
UniRef90_L9PJP9 R G A G A G M A E L R V D V D D G H F M Y N Q R S D D G L I I V A T P T G S T T A Y A M
UniRef90_G4CQ80 R G G A G M T E F E V F I N K E F V Y T Q R S D D G L I I V A T P T G S T T A Y A L I
UniRef90_R6S9Z9 K R D T S S M I T L H A Y I V D D G E P L N V Y Q A D D G L I I V A T P T G S T T A Y A L I
UniRef90_B4UDL4 K G A L S R M V E L D A T R C S G E Y V T T Y K A D D G L I I V A T P T G S T T A Y A L I
UniRef90_B3EI21 K G T Y P R I P T F V I R L D D G E L L G S Y R A D D G L I I V A T S T G S T T A Y A S M
UniRef90_A3D2B0 P G K I A H M I E F F E Y I V D D G F M Y S Q R A D D G M I V A T P T G S T T A Y A L I
UniRef90_UPI00047E385B R G A F S R V I R E F E T Y I V D D G E F V N T Y S A D D G L I I V A T P T G S T T A Y A L I
UniRef90_F8N8A7 K R D T A S M L T I R T Y V N D D F L V T Y Q A D D G L I I V A T P T G S T T A Y A N L
UniRef90_R5STX2 G C K T S R T S K F Y L E S N G K F V C D Y I A D D G L I I V A T P T G S T T A Y A N L
UniRef90_Q6MI5 R G S M S Q L I N T A L I Y S E K F L V S Q V K A D D G F I V A S P S G S T T A Y A N L
UniRef90_UPI000366D36A R G E F G R M I E F E L H V D D G E Y I Y T Q R S D D G M I V A T P T G S T T A Y A L I
UniRef90_Q1N0L8 P G K S A R M I A F D L Q I E G G E F V Y H Q R S D D G M I V A T P T G S T T A Y A S L
UniRef90_R6W3G9 K R D N A M I S V R T C I N G G E Y L V T Y Q A D D G L I I V A T P T G S T T A Y A G L
UniRef90_G7WQ05 S A S P A K M L E F E I T V V D D F F L E S L R A D D G L L F A T A T G S T T A Y A M
UniRef90_UPI00046F2A87 K A S F A R I I H L K E I N G E F V L G Y Y P A D D G L I I V A T P T G S T T A Y A S L
UniRef90_UPI0003F95E34 R K N T T S M I T I E T C I N G E Y L T S F W A D D G L I I V A T P T G S T T A Y A N L
UniRef90_R5CE29 K R D T A S M I T I H A E I N G E Y L V T Y Q A D D G L I I V A T P T G S T T A Y A S L
UniRef90_A0A037Z7G2 K G V I G R V V K C K Y I N D N N Y T T F V S A D D G L I I V A T P T G S T T A Y A S L
UniRef90_UPI0004696283 K R D N A M I S K A S V N G E Y L V T Y L A D D G L I I V A T P T G S T T A Y A S L
UniRef90_E8XQL0 P G K V A H M I E F E V Y I V D D K F A F S Q R S D D G L I I V A T P T G S T T A Y A S L
UniRef90_S8F9T6 K R D S S S M I S L R T T Y V N D D I Y L V T Y Q A D D G L I I V A T P T G S T T A Y A S L
UniRef90_Q02A16 K S S I A R M I S D L D T Y V D E Q V F C A Y K A D D G L I I A T P T G S T T A Y A S L
UniRef90_R6R4Q4 K R D D A S M I S I R T Q V D D G E F L V N Y Q A D D G L I I V A T S T G S T T A Y A N L
UniRef90_C6HY62 K G T T A R M I E V F E Y A N N H F A F T S M K Q R S D G I I V A T P T G S T T A Y A S M
UniRef90_R1GZB4 P G Q V A H M I E F E V Y I V D D N F V F S Q R S D D G I I V A T P T G S T T A Y A L I
UniRef90_A7I809 T T R P A K M L R F S I L V D D G R L T E Q F R S D D G I I V A T P T G S T T A Y A M
UniRef90_M8DBQ8 K G S F C R I I Q C A V F L V D D D V V V A T F S G D G V I V A T P T G S T T A Y A S L
UniRef90_N2JAD0 P G K S T R M I E F A V L H I V D D G K F V C A Y K A D D G L I I V A T P T G S T T A Y A S L
UniRef90_F5XYR5 R G A T S G M V E L R V E V V D D G H F V A N Q R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_E1VIM8 S A G A V K M V E F E L H I V D D G Q F V Y R S Q R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_D7VKP4 R Y D S S A M I T V N A F I N G E L L N S Y W A D D G L I I V A T P T G S T T A Y A S L
UniRef90_Q0YTG2 K G A Y P R I P T F V I K L D D G E L L S S Y R A D D G L I I V A T S T G S T T A Y A S M
UniRef90_LOWEL9 S G D S V H M I D F E L M I V D D G H F V Y T Q R A D D G L I I V A T P T G S T T A Y A L I
UniRef90_D8FF60 K S T L A R I I D L D V S I N D V F V T T F R A D D G L I I V A T P T G S T T A Y A N L
UniRef90_A1R5A4 K A N R E R M L E V V T E V V D E R P L T S F G C D D G L V L A T P T G S T T A Y A F
UniRef90_UPI0003198EA7 R G G T S G M V E L R V E V V D D G R F V S N Q R A D D G L I I V A T P T G S T T A Y A S L
UniRef90_B8CS28 P G K I A H M I E F E V Y I V D D K F M Y S Q R A D D G M I V A T P T G S T T A Y A S L
UniRef90_UPI00047D9D66 R G G T S G M V E L R I E V V G G R F V S N Q R A D D G L I I V A T P T G S T T A Y A L

QUERY S A G G P V V E P Y L E C F I L L P I V A P F R F G W K P Y V V S M E T T R S K E I I E V L R V
UniRef90_UPI0003F56A80 S N G G P I I V P Q S G S L A L T P I V A P H S L N T A R P P I V I V S N D D T T S E T H E I E I V C
UniRef90_Q5P1G9 S A N G P L L S P E N V G G A F L V P I L C C P H T L L T A R P P I V T L P P D D D D S E T E I E I V C
UniRef90_R5KQ41 S A G G P I V L S P E L N G A F V I V P I L C C P H T L L T A R P P I V V V P P D D D D S E T E I E I V C
UniRef90_A4BRX2 S G G G P I M H P E L N D A I A L V P I L C C P H T L L T A R P P I V V V P P D D D D S E T E I E I V C
UniRef90_R6PVQ7 S A G G P I V L S P E T A S M L V V V P I L C C S H A L L T N T N R S P I V L V L S S A E S D G E I V I E I V C
UniRef90_UPI00047BD6C5 S A G G P I V L H P S I A G W V L V P I A A P H T L L T A R S P I L I I S G A E S D G E I V I E I V C
UniRef90_X1B1R9 S A G G P I V L N P S I A S M I L T P I A A P H T L L T A R S P I L I I S G A E S D G E I V I E I V C
UniRef90_S2Y4U3 S A G G P I V L E P T A E M F V L V P I A A P H T L L T A R S S P I V L V L S S A E S D G E I V I E I V C
UniRef90_V2IYG0 S A G G P I L H P T L S G L V L V P I A A P H A L L T N S N R P I V L V L S S A H D D D S A E I V I E I V C
UniRef90_B4EDZ8 S S A G P I L H P Q L A G I V L V P I A A P H A L L T N S N R P I V L V L P D D D D S K E I V I E I V C
UniRef90_R7CZL4 S V G G P I M V P Q S G I L S L T P I V A P H S L N T M R P I V V V P R D G D D S C E I V I E I V C
UniRef90_I3ZFA9 A A N G P I V M G T V N A M I V T P I A C P H L L T N T R R P I V V V P D G D D S K E I V I E I V C
UniRef90_UPI00036375FA S A G G P I L H P R L N G L V L V P I A A P H A L L T S N R P I V V V P D G D D S S K E I V I E I V C
UniRef90_A4VM71 S A G G P I M H P R L S A I V L V P I M Y S H T L S S R S P I V V V P D D D S K E I V I E I V C
UniRef90_C0B752 S A G G P I V E P T A S L I V V T P I C S H A L L S N S R S P I V V F A D G D K N K E I V I E I V C
UniRef90_C0ZC12 S A G G P I V A P N V D M L L L T P I A A P H S L L T A R P M V L A S G N Q S T E I R V I E I V C
UniRef90_R4YM19 S G G G P I M H P K L D A I V L V P I M F P H T L S T A R P I V V V P D D D S N S S E I K L L V E I V C
UniRef90_UPI000372EEA9 S G G G P I M H P R L D A I V L V P I M Y P H M L T S N R P I V V V P D G D S S E I K L L V E I V C
UniRef90_U5N6Y7 S A G G P I L H P A V A G W V L A P I A P H T L L T A R S N R P I V L V L P N G N S S E I K L L V E I V C
UniRef90_UPI0002557CE6 S G G G P I M H P K L D A I V L V P I M F P H T L S S R R P I V V V P D G D D S W E I K L L V E I V C
UniRef90_R5J7U5 S V G G P I I V P K S K T I L V T P I V A P H S L N V R P I V V V P D D D S W E I K L L V E I V C
UniRef90_UPI0003A5921C S A G G P I M H P K L D A M V L V P I M F P H T L L S S R P I V V V P D A G N S E I K L L V E I V C
UniRef90_S6BC69 S G G G P I L S P A L D A I A L V P I C C P F T L L S S N R P I V V V P H G E R N S V I V V R L L R T R C
UniRef90_F0RYU1 A A G G P I L D V D L S S L I T P I C C P F T L L S S N R P I V V V P F T L L S S N R P I V V V P H G E R N S V I V V R L L R T R C
UniRef90_K2G4I7 S S G G P I L H P T L T G I A L V P I C C P H S L T T N R P I V V V P N D G E S A E I E I V L L R C
UniRef90_Q2RIC1 S A G G P I V S P Q L N V M I L V P I C C P H T L L Y T R P I V V V P D G E K R R I K L L V E I V C
UniRef90_A7MWW3 S G G G P I L S P S L N A I S L T P I M F P H T L L S S R R P I V V V P D G G K R R I K L L V E I V C
UniRef90_A0Q0A6 S A G G P I V Y P T L E A I S L T P I C P H S M Q N R S I M I K S T S S E I S I L N R
UniRef90_V2RH98 S A G G P I V H S D L D S I L S P I C P H A L L N T R R P I V V L S K G N S S E I D I L R
UniRef90_W9VAK8 S A G G P I M H P K L D A L V L V P I M F P H T L S S R P I V V V P S S R S S E I K M V
UniRef90_W6MBX4 A G G G P I I H P G L E A V V L V P I C P H T L L T H R P I V V V K A D C V I E V V
UniRef90_I3C5E5 S C G G P I V I A P S T D A L A L V P I A P H N L T N A R P I V V I P A D K T K I E R I K R D
UniRef90_F5SB26 S C G G P I V W P G V Q C L L T P I C P H T L T A R P M V I P A D S V L V E R V D
UniRef90_A5D2Z8 S A G G P I V T P E L D L M L I T P I C C P H T L W A R P M V I A P D S V L V E R V D
UniRef90_S6HIF9 S G G G P I M H P K L D A L V L V P I M F P H T L S S R P I V V V P D S E E R R L V S
UniRef90_S0FJ8 S A G G P I A E P T S K L I V T P I C P H M L Y S S R S F V A S G E E R R L V S
UniRef90_UPI00029A3709 S V G G P I M H P S S Q G I I T P I A C P H N L T V R P I V V P P D D N M R E I V L V S
UniRef90_W9VDX9 S G G G P I V D P A L D A I L V P I C C P H D L L S N R P I V V V P Q G N R R E I V L V S
UniRef90_UPI000371996F S C G G P I V S P H I N V I V V T P I C P H T L H S N R P F I I Q K N D Q E I V R V V
UniRef90_I4MHZ8 S A G G P I L H P S I G G W V M V P I A P H T L L S N R P I V V L P A H C E I A L V E I V
UniRef90_W0UZS6 S A G G P I L H P S L G G T V L V P I A P H A L L S S N R P I V V I P D D S S E I V E I V
UniRef90_J3D893 S A G G P I L H P S L H G T V L V P I A P H A L L S S N R P I V V I P D D S S E I V E I V
UniRef90_Q46AH3 S A G G P I I S P R V N A I V V V P I A P F K L S S S R P W V I P S D S S E I S T I L R T
UniRef90_A0A009ZIS3 S G G G P I L H P R G M D A I A L V P I M H P H T L L S S N R P I V V V P S G D S G G I K L
UniRef90_A0L8H9 S A G G P I L H P R L D T I I N P I C P H T L L S S N R P I A V V P S G D S G G I K L
UniRef90_N6WAL1 S A G G P I M H P K L D A V V L V P I M F P H T L L S S R P I V V V P D G K S E I K I V
UniRef90_UPI0003B7B5DA S A G G P I L H P S L N A V V L V P I C C P H T L L S H R P I V V V H G D S S N I C I R E I
UniRef90_W0TM36 S G G G P I L E P S L N A I A L V P I C C P H T L L S S N R P I V V V H G D S S N I C I R E I
UniRef90_C4L8Y7 S A G G P I L M P Q L D V M T L V P I M F P H T L L S C R P I V V I D A H R Q Q V K I V T
UniRef90_H5WP22 S A G G P I L H P P I A G W V L V P I A S Y M L L S S N R P H L I P D D S S G R N L K I T
UniRef90_J0RZY1 S G G G P I V D P K F D G F L L V P I A P H T L L S S S R P I V V I P D D S S G R N L K I T
UniRef90_A6T230 S A G G P I L H P S L T G I G L V P I A P H A L L S S N R P I V V V P D D S S S V I K I E
UniRef90_D9PXA7 S A G G P I V D P R V E A F L I V P I A C P F K L S S A R P I V V V P E S K S E I V V
UniRef90_L9PJP9 S A G G P I L H P S L G G V V L V P I A P H A L L S S N R P I V V V P E S K S E I V V
UniRef90_G4CQ80 A A G G P I L Q A S L R A F T L V P I C P Q S M T N R P I A I A D T D C E I N I K R
UniRef90_R6S9Z9 S V G G P I L V P Q S G T I S L T A V A P H S L N V R P I V V I R D D W E I T T L R
UniRef90_B4UDL4 A A N G P I M Y P T M R G V I A P I C C P H M L T V R Q R P I V V V P D D E E K I E I L
UniRef90_B3E121 S A G G P I I A P K S S V F V I T P I C P H M L T V R P I V V I S D D K V I E V S
UniRef90_A3D2B0 S A G G A I L R P N L Q A L I L V P I M F P H T L S C R P I V V V D A C S T I K M V
UniRef90_UPI00047E385B S A G G P I V T P D V P A L I V T P I C P H S L L H N R S I V V S A D S R I K D V D
UniRef90_F8N8A7 S N G G P I I V P N S G N I C L T P V A P H S L N R P I V V L N A D T T V V K L R
UniRef90_R5STX2 S T G G P V L Y P T L D A L V I V P V C P H T L N A R P I V V V P D D D E M I T F V K R
UniRef90_Q6MI5 A A G G P I C H P E S D A L F V V T P V A P H S L T S R P I V L F P V D D E R E L S T F
UniRef90_UPI000366D36A S A N G P I L H P R L A G F V V V P L C P H A L L T Y R P I A L A H E S T E V E L V
UniRef90_Q1N0L8 S G G G P I M H P K L D A I A L V P I M F P H T L S S R P I V I I D A N D S E I K T L T
UniRef90_R6W3G9 S N G G P I I V P D A D I L C L T P V A P H S L N V R P I V I I D A N D S E I K T L T
UniRef90_G7WQ05 S A G G P I V D P R V D A V V L V P I A P F K L S A R A P W V L P A K E S V I K V D
UniRef90_UPI00046F2A87 S A G G P I I N P G M E C C L L T P I C P H A L L S A R A I V I T D S K D T E I N I K K R
UniRef90_UPI0003F95E34 S C G G P V I T P E S K C I V I T P I A P H N L N V R P I L I L S D D D E I K L K R
UniRef90_R5CE29 S N G G P I I V P R T G T L C L T P V A P H S L N V R P I L I L S D D D S E I K L R
UniRef90_A0A037Z7G2 S A G G P I I Y P T L D V I S L T P I C S H S L G V R P I V L N G D S C E I K V
UniRef90_UPI0004696283 S G G P I I V P Q S G I L S I T P V A P H S L N R P I V I V N G D E A S E I K L R
UniRef90_E8XQL0 S G G G P I L T P T L E A I A L V P I M F P H T L L S A R P I V I I N S S S A T I C L R R
UniRef90_S8F9T6 S V G G P I I A P Q S N T I A M T P V A P H S L N M R P I V L V T P E T T S E I V E S R A
UniRef90_Q02A16 S A G G P I I F P S P A I C L T P I C P H M L T N R P I V V V P D D S S E I R V A
UniRef90_R6R4Q4 S N G G P I I P Q S S S L C L T P V A P H S L N R P I V V I N D T A E I T L R
UniRef90_C6HY62 A A G G P I L H P E S Q G I V M T P I C P H T L T Q R P I V V F P E S V R K L E T L
UniRef90_R1GZB4 S G G G P I L S P S I D A I S L V P I M F P H T L T S R R P I V V P D A G S R H I K L V
UniRef90_A7I809 S A G G P I V D P S I E G F L L V P I A P Y L L S S R P H L I S S S R R L I R E
UniRef90_M8DBQ8 S A G G P I V A P N V D M L L L V P I A P H S L T A R P M V L S S G N Q S V I K I E
UniRef90_N2JAD0 S A G G P I M H P K L D A L V I V P I M Y P H T L S S R P I V V V S P D S S E I K I V
UniRef90_F5XYR5 S A G G P I L H P A N P G W V L V P I A P H T L L S N R P I V V V A D A S E I K A I E
UniRef90_E1VIM8 S G G G P I M H P R I D A I V L V P I M C P H T L S S R P I V V V A D S S E I K A I E
UniRef90_D7VKP4 S C G G P I I M P G S G N F V V T P I S P H N L N V R P I V I S S D S F E L D L V E
UniRef90_Q0YTG2 S A G G P I I A P K S S V F V I T P I C P H M L T V R P I V V I S D E K I I E V S
UniRef90_LOWEL9 S G G G P I M H P K L D A M V M V T P I L N P H T L T S R P I V V V A G D S A E I K I H
UniRef90_D8FF60 S A G G P I L Y P T I E T F V L T P I C P H T L T N R P I V V P A D S A V V S I E E
UniRef90_A1R5A4 S S G G P V W P E V E A F V V P I S A H A L F A K P I V V S P R S S V S I E E
UniRef90_UPI0003198EA7 S V G G P I L M H P A I E G W M A P I A P H T L L S N R P I V V L P E S S E I E E
UniRef90_B8CS28 S A G G A L L T P N I E A M I L V P I M F P H T L S C R P I V V L P E S S E I K I V
UniRef90_UPI00047D9D66 S A G G P M M H P S I P A W V M A P I A P H N L S N R P I V V L S D A S E V A I E

QUERY UniRef90_UPI0003F56A80 UniRef90_Q5P1G9 UniRef90_R5KQ41 UniRef90_A4BRX2 UniRef90_R6PVQ7 UniRef90_UPI00047BD6C5 UniRef90_X1B1R9 UniRef90_S2Y4U3 UniRef90_V2IYG0 UniRef90_B4EDZ8 UniRef90_R7CZL4 UniRef90_I3ZFA9 UniRef90_UPI00036375FA UniRef90_A4VM71 UniRef90_C0B752 UniRef90_C0ZC12 UniRef90_R4YM19 UniRef90_UPI000372EEA9 UniRef90_U5N6Y7 UniRef90_UPI0002557CE6 UniRef90_R5J7U5 UniRef90_UPI0003A5921C UniRef90_S6BC69 UniRef90_F0RYU1 UniRef90_K2G4I7 UniRef90_Q2RIC1 UniRef90_A7MWW3 UniRef90_A0Q0A6 UniRef90_V2RH98 UniRef90_W9VAK8 UniRef90_W6MBX4 UniRef90_I3C5E5 UniRef90_F5SB26 UniRef90_A5D2Z8 UniRef90_S6HIF9 UniRef90_S0FJ8 UniRef90_UPI00029A3709 UniRef90_W9VDX9 UniRef90_UPI000371996F UniRef90_I4MHZ8 UniRef90_W0UZS6 UniRef90_J3D893 UniRef90_Q46AH3 UniRef90_A0A009ZIS3 UniRef90_A0L8H9 UniRef90_N6WAL1 UniRef90_UPI0003B7B5DA UniRef90_W0TM36 UniRef90_C4L8Y7 UniRef90_H5WP22 UniRef90_J0RZY1 UniRef90_A6T230 UniRef90_D9PXA7 UniRef90_L9PJP9 UniRef90_G4CQ80 UniRef90_R6S9Z9 UniRef90_B4UDL4 UniRef90_B3EI21 UniRef90_A3D2B0 UniRef90_UPI00047E385B UniRef90_F8N8A7 UniRef90_R5STX2 UniRef90_Q6MI5 UniRef90_UPI000366D36A UniRef90_Q1N0L8 UniRef90_R6W3G9 UniRef90_G7WQ05 UniRef90_UPI00046F2A87 UniRef90_UPI0003F95E34 UniRef90_R5SCE29 UniRef90_A0A037Z7G2 UniRef90_UPI0004696283 UniRef90_E8XQL0 UniRef90_S8F9T6 UniRef90_Q02A16 UniRef90_R6R4Q4 UniRef90_C6HY62 UniRef90_R1GZB4 UniRef90_A7I809 UniRef90_M8DBQ8 UniRef90_N2JAD0 UniRef90_F5XYR5 UniRef90_E1VIM8 UniRef90_D7VKP4 UniRef90_Q0YTG2 UniRef90_LOWEL9 UniRef90_D8FF60 UniRef90_A1R5A4 UniRef90_UPI0003198EA7 UniRef90_B8CS28 UniRef90_UPI00047D9D66

A E K A L V V A D 210 Q K S V D F D D G E L T I R E K S E F P A V F F K N E K R Y F F R N
S H N F L C A I D G G Q E K K V L A D A G D G T K L T R V T S K A S P D T I K I V K N Q R Y F F S T
T H D A R L I H S T D G G Q E A F Y E F A N S D R E L E V V T R R S K S E F T V V R L L H P Y E N Q R Y F F S M
L D E Y V L I S T D G G Q E A F Y E F A N S D R E L E V V T R R S K S E F T V V R L L H P Y E N Q R Y F F S M
V H P I R V S C D D G G Q E E D L G L E G S R I M V R R R S K S E F T R K T V H L T H P Y R Y F F G I L
I G K D A A V S F D G G Q E S S L I E Q H G D R I V T V R R R S A E H D Q M R F L F K H P K S S Y F F E D T
U P I 0 0 0 4 7 B D 6 C 5 I I R D A S A N F D M Q T S L L E Q H G D R I V T V R R R S A E H D Q M R F L F K H P K S S Y F F E D T
L E E V M V T I D G G Q E T L E P E D D E V I V K R S N H K A Q L L I K E K S S Y F Y A I
U n i R e f 9 0 _ X 1 B 1 R 9 V R D A S V N F D M Q T S L L E P V G D D R I V V V R R S S A E K T T I N L L K L S Y N Y Y A T T
U n i R e f 9 0 _ S 2 Y 4 U 3 V R D A S V N F D M Q T S L L E P V G D D R I V V V R R S S A E K T T I N L L K L S Y N Y Y A T T
U n i R e f 9 0 _ V 2 I Y G 0 I R D V N V N F D M Q T S L L E L N D T R I E L R R R S A K H T T V P F L H P Y S Y F Y T T T
U n i R e f 9 0 _ B 4 E D Z 8 S H N F L V S V D G G R E S M E H E G D T R L L T R C Q R R S A P Y R V I K L V V K R G H G E H F F T T
U n i R e f 9 0 _ R 7 C Z L 4 S E Q T Y L T V D G G Q E A V L E K D T R L L T R C Q R R S A P Y R V I K L V V K R G H G E H F F T T
U n i R e f 9 0 _ I 3 Z F A 9 I R E V S A N F D M Q T S L L E T H R D D R I V V V Q R K S A K H T I T F L H P L S Y N Y D T
U n i R e f 9 0 _ U P I 0 0 0 3 6 3 7 5 F A I V S E P Q Q V S C D D G G Q E H F V T P G G D D R I V T R I R K K A P Q K T L H L V K H P H S Y F F E T
U n i R e f 9 0 _ A 4 V M 7 1 V D A I H L S I D G G Q Y R L E L G G D D Q V I Y I K K S P C V T P L I K W K K F F E A
U n i R e f 9 0 _ C 0 B 7 5 2 I R G E P T V S C C D G G Q K H I T P P G D A E I T I H K K S P H Q R L K L L H P H N F Y E S
U n i R e f 9 0 _ C 0 Z C 1 2 I R I R P Q I S C C D G G Q H I T P P G D A E I T I H K K S P H Q R L K L L H P H N F Y E S
U n i R e f 9 0 _ R 4 Y M 1 9 I I R D A S A S F D T Q S S L L A V G D C S I A V R K S E H R A R F L H P H S Y F Y D T
U n i R e f 9 0 _ U P I 0 0 0 3 7 2 E E A 9 S H N F L V S C C D G G Q V S L S P G D S I T R R K H S H K I K L V V K R D Y D F F R D T
U n i R e f 9 0 _ U 5 N 6 Y 7 S E Q T Y L T V D G G R E T C K E T T R L T I T I R R K A S Y K A I K V V K R Y D F F D T
U n i R e f 9 0 _ U P I 0 0 0 2 5 5 7 C E 6 I S K P Q V S T S D G G Q V H T A P E G D S L T I R R K K S P Q K L R L L H P H N F Y A I
U n i R e f 9 0 _ U P I 0 0 0 3 A 5 9 2 1 C V D H K V R V S C D D G G Q V T L E L G D D V I V L E K S R S K A L L V E R R N F F E V
U n i R e f 9 0 _ S 6 B C 6 9 I E D P R V H F D G G Q L T L D L H C V R V K R S D Y T I C F L H P Y S Y F F A M
U n i R e f 9 0 _ F 0 R Y U 1 H E V M L T V D G G Q V S L H L G D D V I R V T Y Q A R T P A R L I R L Q D D Y Y H
U n i R e f 9 0 _ K 2 G 4 I 7 V S P E N V S C D D G G Q V S V S P G D D E I R V I K K S S E F K C K L L R Q Y N Y F D V
U n i R e f 9 0 _ Q 2 R I C 1 V E E C Y A T Y D G G Q S V R P F G D S I L T R V V R R K S S A K L L H L A Q Q D R N Y Y S
U n i R e f 9 0 _ A 7 M W W 3 I S E P T I T S C C D G G Q S L T P G D D R I V I R K K S A K L L H P H N F Y E T
U n i R e f 9 0 _ A 0 Q 0 A 6 L N A A N I T S C C D G G Q V S I L T P G D D R I V I R K K D R K V R L I H P H N F Y F K L
U n i R e f 9 0 _ V 2 R H 9 8 V R D T F L V S L D G G S R A T L K N E N D E I R V I E R A S R H F T L K L V D L K S F F E K T
U n i R e f 9 0 _ W 9 V A K 8 V D L G V T I D G G Q Y R L L K V N D D D V I R V I A K S R H F T P L I K W R D F F E V
U n i R e f 9 0 _ W 6 M B X 4 V G E I M L T M D G G H G F S L N D D Q V V V R R A E K R A R F I R L R D F F T V T
U n i R e f 9 0 _ I 3 C 5 E 5 I S E P I V S C C D G G Q V S I N L G D V I H I E K A H Q H K L L H P H N F Y D F F T T
U n i R e f 9 0 _ F 5 S B 2 6 V H K A L V T V D G G Q V S N Y E L G D Y I E I E K A S K V K L I H P S K N F F T V
U n i R e f 9 0 _ A 5 D 2 Z 8 V E K F L A S L D S R S T V V E E G T E L K I R K A G F P I K M V E D Q S F Y S T
U n i R e f 9 0 _ S 6 H I F 9 V R H V Q V T C D D G G Q V L P P E A T V H I R D R K S H P D R V R L L H P H H F Y K D
U n i R e f 9 0 _ S 0 F J 8 V N D I G M T I D G G Q V R V L P P E V N D I R I R R K S E H A L R L L H P V N Y F D D T
U n i R e f 9 0 _ U P I 0 0 0 2 9 A 3 7 0 9 L R D A S A N F D M Q T S L L H G D R I V V K R S S E H A L R L L H P V N Y F D D T
U n i R e f 9 0 _ W 9 V D X 9 I R D I S A N F D M Q T S L T H G D R I I V I K R S S A H H K I L T F L H P E S Y Y D T
U n i R e f 9 0 _ U P I 0 0 0 3 7 1 9 9 6 F L S E A V T A I D G G Q K R I K L D D V V K L K K S R F P A R F V R S D F Y E R
U n i R e f 9 0 _ I 4 M H Z 8 I R D I S A N F D M Q T S L L T H G D R I I V I K R S S A H H K I L T F L H P E S Y Y D T
U n i R e f 9 0 _ W 0 U Z S 6 I V R D I S A N F D M Q T S L T H G D R I I V I K R S S A H H K I L T F L H P E S Y Y D T
U n i R e f 9 0 _ J 3 D 8 9 3 L S E A V T A I D G G Q K R I K L D D V V K L K K S R F P A R F V R S D F Y E R
U n i R e f 9 0 _ Q 4 6 A H 3 I R D R L L T L D G G Q T G V P L G D D E I V I R R K S D R S L R V I H P D R N Y Y D
U n i R e f 9 0 _ A 0 A 0 0 9 Z I S 3 I G E P Q V S C D G G Q A C A P G G D V I R I T K K P F K I R L I H P H N F Y A T
U n i R e f 9 0 _ A 0 L 8 H 9 P N H D S R I S F D G G Q S N L D L G D R I V I R Q K H P K L R L L H P H N F Y D Y
U n i R e f 9 0 _ N 6 W A L 1 P N H L R V T C C D G G Q F S L T L G E H L I E V R K Y P K P I R L F H P H D H F T L
U n i R e f 9 0 _ U P I 0 0 0 3 B 7 B 5 D A I T E Q L H V S C C D G G H V T V H P G D E I I R R A P H Q L T L L H P Y D Y F N V
U n i R e f 9 0 _ W 0 T M 3 6 I L E P A Q I V L D G R G S L L T H G S E I R V R R R S D A P H K V R F L D A K N F Y A T
U n i R e f 9 0 _ C 4 L 8 Y 7 V L E P A Q I V L D G R G S L L T H G S E I R V R R R S D A P H K V R F L D A K N F Y A T
U n i R e f 9 0 _ H 5 W P 2 2 L R D A S V N F D M Q S S V A R L H D R I T V Q R S E H T I T F L H P E N Y Y D T
U n i R e f 9 0 _ J 0 R Z Y 1 L K K A I A V I D G G Q E E I N Q A M D E E V V F K R S D H C A H F L R L K D F Y R N T
U n i R e f 9 0 _ A 6 T 2 3 0 L R D I S V N F D M Q T S L N Q A Q D R V I T K R S P H S I T F L H P E S Y Y N T
U n i R e f 9 0 _ D 9 P X A 7 A G D A R V H F D G G Q S Y V D Q D Q I L I R R Y K H S L R V L H P E S N D Y Y R T
U n i R e f 9 0 _ L 9 P J P 9 S H N F L V A I D G G Q S C R E G T R L T Q V K R A D Y Y V R I V K R H S F F N T
U n i R e f 9 0 _ G 4 C Q 8 0 L S E V F M T L D G G Q S G V K L G D R V I V K K S N D L I N L V A N R D Y C E I
U n i R e f 9 0 _ R 6 S 9 Z 9 V D E F P L N C D G R T T L Q P Q E T V T V K K S S E R L R L I H P H N F F H V
U n i R e f 9 0 _ B 4 U D L 4 V E N L I M V S C C D G G H V I G V L P G D E I V V R R S K Y Q S K L I R E K F F E V
U n i R e f 9 0 _ B 3 E I 2 1 I L D L I M L T I D G G Q I G Y K L G D V V I T I N R S K Y Q S K L I R E K F F E V
U n i R e f 9 0 _ A 3 D 2 B 0 S H N F L V A I D G G R E K L H E G T V L I I K A P C K V K I V K L R S Y F S I
U n i R e f 9 0 _ U P I 0 0 0 4 7 E 3 8 5 B T S D K L S V D G G F E K P E C V D K E I S I K S S K Q K A F L N D D S F Y S V
U n i R e f 9 0 _ F 8 N 8 A 7 L E K A H F I V D G G Q K M T E L D D E I V I V S R S C Y D K H W M V R N D H S Y F H L
U n i R e f 9 0 _ R 5 S T X 2 V L D A R L F C D G G Q T L F E I G D R V Y I K R A P L G V T L L H P Q D Y F A V
U n i R e f 9 0 _ Q 6 M I 5 I S S S D I I S C C D G G V H I L T P G D S V T I R R K M A H K A R L I V K R R D Y F E T
U n i R e f 9 0 _ U P I 0 0 0 3 6 6 D 3 6 A S H N F L V A I D G G R E K I L T E S T R L T I R K A P Y T I N L V K P R S F Y E S T
U n i R e f 9 0 _ Q 1 N 0 L 8 L E E A L V V I D G G H A T I S K R D H I T I S R A E K P A R F V K A R E F Y E K
U n i R e f 9 0 _ R 6 W 3 G 9 S R D V L L T S V D G G E G V P V I G D N I V I T K A A F F T R L I E R F F F N L
U n i R e f 9 0 _ G 7 W Q 0 5 V S Q V L L S L D G T K T I D N E N E V I K K A P F T I N M V I R F P N F L K T
U n i R e f 9 0 _ U P I 0 0 0 4 6 F 2 A 8 7 S H N F L I A V D G G Q S K C T E N A R L T I T K A P Y S A R I V K R S N Y F S T
U n i R e f 9 0 _ U P I 0 0 0 3 F 9 5 E 3 4 M E D V H L A V D G G Q E I T N L D D T V L T I C S P Y K C K I V K L K D Y F N T
U n i R e f 9 0 _ R 5 S C E 2 9 S H N F L A A V D G G R E K L I N R E G V T L T V K K A P H K V R I V K L H R F F S T
U n i R e f 9 0 _ A 0 A 0 3 7 Z 7 G 2 S N D L E I S C D S Q A L Q P G S E E V I R R S E F H L N L I H P K D Y F N T
U n i R e f 9 0 _ U P I 0 0 0 4 6 9 6 2 8 3 S H N F L V S T I D G G R E T C R Q H S D L I I R K A P F T V K L I K R H H F F E T
U n i R e f 9 0 _ E 8 X Q L 0 S E S V Y L V T I D G G Q T P R E H S T L V C H S H S H S L L L I R P P R F F D V
U n i R e f 9 0 _ S 8 F 9 T 6 S H N Y L V A I D G G R E R M T E G T R L V T R K A A H T I K I V R N Q R Y F S T
U n i R e f 9 0 _ Q 0 2 A 1 6 F K T A M V I F D G G Q S V V P L G D V L R I R R S S D H V T R L L P D R N Y F E T
U n i R e f 9 0 _ R 6 R 4 Q 4 V S P L E V S C D S Q V S V N P G D E V V I Y R S P S L L K L I H P Y S Y Y K T
U n i R e f 9 0 _ C 6 H Y 6 2 L E P A K L V T D G G Q N T V E L G S S L V I Q K A A S P A R F I D V H N F F E K
U n i R e f 9 0 _ R 1 G Z B 4 V D A I H L S I D G G Q F G Y K L G D Q I F I R K S P Y V T P L V K W K N Y F E T
U n i R e f 9 0 _ A 7 I 8 0 9 V S P P Q V S C D G G Q N H L N P G D V V I T Q K K P H K L R L I H P H N F Y E V
U n i R e f 9 0 _ M 8 D B Q 8 L R G A S A N F D M Q S S L M H G D R I T V R R S Q H Q V R F L H P R T Y F D T
U n i R e f 9 0 _ N 2 J A D 0 V G E S L V S C C D S Q S T L V S P G D V I I R K K A H K I T L L I H P H D Y F E A
U n i R e f 9 0 _ F 5 X Y R 5 I E K Y L L S C C D S Q S T L V S S T V K I S I K K A F F I N L L I R L D K Y F S T
U n i R e f 9 0 _ E 1 V I M 8 V D E F P L N C C D G G H R M L D P R K V V T I R K S P E P V H L V A N R D Y C E I
U n i R e f 9 0 _ D 7 V K P 4 L T R P L V S C C D G G T E R L Q D V D D V I A I R K R P R H L L H P H D H F Y Q A
U n i R e f 9 0 _ Q 0 Y T G 2 M E A V V L T F D G G Q V G F Q D V L D K V I E Y K S N E K I N L F Q P Q D H F R I
U n i R e f 9 0 _ L O W E L 9 I M N G V L W C D G R S V D L G A R V E V T R S A T P V R L L A R T H K F S A R T
U n i R e f 9 0 _ D 8 F F 6 0 I R Y N L S A N F D M Q S L A D L G D R I V V K R S A D T V R L L I H P A N Y F D T
U n i R e f 9 0 _ A 1 R 5 A 4 V D N L E V S C C D G H V N L S P G D E I V V K R S A D T V R L L I H P H N Y F H V
U n i R e f 9 0 _ U P I 0 0 0 3 1 9 8 E A 7 V R D V S A N F D M Q S S L Q H G D R I L V T R A N H C V R F L H P R N Y F A T
U n i R e f 9 0 _ B 8 C S 2 8 U n i R e f 9 0 _ U P I 0 0 0 4 7 D 9 D 6 6

QUERY	L	F	G	K	V	R	S	L
UniRef90_UPI0003F56A80	L	R	E	K	L			
UniRef90_Q5P1G9	L	R	E	K	L	H		
UniRef90_R5KQ41	L	R	N	K	L	H		
UniRef90_A4BRX2	L	R	A	K	L	R		
UniRef90_R6PVQ7	L	R	K	K	M	K		
UniRef90_UPI00047BD6C5	L	R	K	K	L	H		
UniRef90_X1B1R9	L	R	E	K	L	R		
UniRef90_S2Y4U3	L	R	K	K	M	K		
UniRef90_V2IYG0	L	R	K	K	L	H		
UniRef90_B4EDZ8	L	R	K	K	L	H		
UniRef90_R7CZL4	L	R	E	K	M			
UniRef90_I3ZFA9	L	R	S	K	L	K		
UniRef90_UPI00036375FA	L	R	E	K	L	H		
UniRef90_A4VM71	C	R	T	K	L			
UniRef90_C0B752	L	R	E	K	M	K		
UniRef90_C0ZC12	I	R	T	K	L	Q		
UniRef90_R4YM19	C	R	N	K	L			
UniRef90_UPI000372EEA9	C	R	S	K	L	R		
UniRef90_U5N6Y7	L	R	R	K	L			
UniRef90_UPI0002557CE6	C	R	E	K	L			
UniRef90_R5J7U5	L	R	S	K	L			
UniRef90_UPI0003A5921C	C	R	S	K	L			
UniRef90_S6BC69	L	R	T	K	L	H		
UniRef90_F0RYU1	L	R	D	K	L			
UniRef90_K2G4I7	L	R	Q	K	L	Q		
UniRef90_Q2RIC1	V	R	E	K	L	K		
UniRef90_A7MWW3	L	R	N	K	L			
UniRef90_A0Q0A6	L	R	E	K	I			
UniRef90_V2RH98	L	R	D	K	L			
UniRef90_W9VAK8	C	R	E	K	L			
UniRef90_W6MBX4	L	R	A	K	L	R		
UniRef90_I3C5E5	L	R	N	K	L			
UniRef90_F5SB26	V	R	K	K	L	Q		
UniRef90_A5D2Z8	L	R	K	K	L			
UniRef90_S6HIF9	C	R	E	K	L			
UniRef90_S0FJJ8	L	R	N	K	I			
UniRef90_UPI00029A3709	L	R	N	K	L			
UniRef90_W9VDX9	L	R	A	K	L	H		
UniRef90_UPI000371996F	L	R	Q	K	L	H		
UniRef90_I4MHZ8	L	R	R	K	L	H		
UniRef90_W0UZS6	L	R	E	K	L	H		
UniRef90_J3D893	L	R	Q	K	L	H		
UniRef90_Q46AH3	V	Q	R	K	L			
UniRef90_A0A009ZIS3	C	R	T	K	L			
UniRef90_A0L8H9	L	R	K	K	L	H		
UniRef90_N6WAL1	C	R	E	K	L			
UniRef90_UPI0003B7B5DA	L	R	T	K	L			
UniRef90_W0TM36	L	R	A	K	L			
UniRef90_C4L8Y7	L	R	T	K	L			
UniRef90_H5WVP22	L	R	R	K	L	R		
UniRef90_J0RZY1	V	R	E	K	L	H	N	L
UniRef90_A6T230	L	R	E	K	L	H		
UniRef90_D9PXA7	V	R	E	K	L			
UniRef90_L9PJP9	L	R	E	K	L	H		
UniRef90_G4CQ80	L	R	Q	K	L	H		
UniRef90_R6S9Z9	L	R	E	K	M			
UniRef90_B4UDL4	L	R	A	K	L	R		
UniRef90_B3EI21	L	R	T	K	L			
UniRef90_A3D2B0	L	R	T	K	L			
UniRef90_UPI00047E385B	L	R	S	K	L			
UniRef90_F8N8A7	L	R	E	K	L			
UniRef90_R5STX2	L	R	N	K	L	H		
UniRef90_Q6MII5	L	R	E	K	L	K		
UniRef90_UPI000366D36A	L	R	E	K	L	H		
UniRef90_Q1N0L8	C	R	T	K	L			
UniRef90_R6W3G9	L	R	E	K	M			
UniRef90_G7WQ05	V	K	S	K	L			
UniRef90_UPI00046F2A87	L	R	D	K	M			
UniRef90_UPI0003F95E34	L	R	N	K	L			
UniRef90_R5CE29	L	R	E	K	M			
UniRef90_A0A037Z7G2	L	R	K	K	L	H		
UniRef90_UPI0004696283	L	R	E	K	L			
UniRef90_E8XQL0	L	S	T	K	L			
UniRef90_S8F9T6	L	H	Q	K	M			
UniRef90_Q02A16	L	R	Q	K	L	K		
UniRef90_R6R4Q4	L	R	E	K	L			
UniRef90_C6HY62	L	R	D	K	L	R		
UniRef90_R1GZB4	L	R	T	K	L			
UniRef90_A7I809	V	D	R	K	L	R	K	L
UniRef90_M8DBQ8	I	R	T	K	L	Q		
UniRef90_N2JAD0	C	R	T	K	L			
UniRef90_F5XYR5	L	R	K	K	L	H		
UniRef90_E1VIM8	C	R	S	K	L			
UniRef90_D7VKP4	L	R	E	K	L			
UniRef90_Q0YTG2	L	R	T	K	L			
UniRef90_LOWEL9	C	R	S	K	L			
UniRef90_D8FF60	L	R	T	K	L			
UniRef90_A1R5A4	L	V	R	K	F	Q		
UniRef90_UPI0003198EA7	L	R	K	K	M	H		
UniRef90_B8CS28	L	R	T	K	L			
UniRef90_UPI00047D9D66	L	R	K	K	L			

UniRef90_A6D2V8 1 MK A G K P R A Q H K E L F H W L T S K G Y K V L V D D R L I D I L R E A 40
UniRef90_K2CG01 E E T A E S L N E K N L T V I P R E K L G Q H C
UniRef90_U3AYV5 E K E Y Q I L I D D R L Q D L M P E I D A F C T L M Q I I G Q K A
UniRef90_C4ZKG1 R A R F L R D R G L A V L I E D Q T A S S I G G A H D F V A S Y E H I G A S A
UniRef90_A9WIJ8 R V A V L Y N P L S D S R E L A D W L V E R G V K T T R F R D Q P H L V A D C C
UniRef90_UPI000362FF7E E A R S A E L I D A A K R Y P N T I A T M D K L G T G C C
UniRef90_I0AP69 K I E I D E D F L V E D M D N D L Y E Q S
UniRef90_UPI00047D861D R I A I V S K P Q K D L P E L I A W L R N R G A E S G R Y T S D A P A V D D P
UniRef90_UPI0003F9492F MK I A V Y D N T E D I Q K L L A V F T Y N P E V S V F T G H E D L D E G F
UniRef90_X4R7D7 E D A R A A R E R L V A A G A Q A F F V D E E A E R L V S A
UniRef90_R7LSG7 K F A I C Y N P M D N S K D V M Q E L K H L L D L Q G V N S E I L S I D S G Y
UniRef90_D9RRB0 F A I F G N A S K Q I T E I L D Y L R E H E A D V Y I E Q N F Y N S L Q D V
UniRef90_H8MKF9 E D R E L A A R A
UniRef90_UPI00025591C0 K V A I Y G Q H E K Y V I Q L F E I L E Q A N A S V C V F G T Y A E E L K Q A
UniRef90_W5L766 E D P A I A N D E S F V A V K N F C T F R E D F D D L S N R V
UniRef90_R5CCS3 K F E I I T N T K D P K E V G S F L S G H A A E W V S E R T E G F E P
UniRef90_B4S665 MK F A I V V N I N R E A Q E L T S W L Q E R G L S Y V L D S V S E E L N K D C
UniRef90_E6SRW2 MK F A I F A K K S H A E N L F R L L E L H N A Q L C I C R E F H H F L T N A
UniRef90_C6Y2Z2 L V Y K K Y L D F L K D K I K L P D H I K V F S S H T E L P G Q T
UniRef90_D6WXV3 E D P L L D Q F T S F A T I K D K L M T F R D G K D D L T D K I
UniRef90_A1SJK0 V V R V L A H E A V E L G L D T A S V E I V I V D A S A G C
UniRef90_E7RTX9 I A L F G R P Q S D L E E I A D W L T Q R G I T V L T E I S V Q S L G R R A
UniRef90_UPI00046AB4C7 K A L I V A R E L I P Q M E K K G F K V L V E P R V A N H Y E Q F H E N V
UniRef90_UPI00037D6D97 L I E E H I Q Q E L E E P D L E S Q L V A I P G K N A
UniRef90_UPI0003B526C8 K F C I V T N K D K D L K H I K N Y L E K R G K T V V I A S E K S E I P E D T
UniRef90_C5CYY6 E E I G Q R C
UniRef90_N8YMN4 I G L I G R P D K S S V L I H D H L L S L G L H P V F D T A T A E L V E V V
UniRef90_D5EUB7 D V K A T K V F S D N D F D A
UniRef90_U5T3G9 R I A I T G K P G D S A Q K L V T E L E G R G L E V F L D D A I G D A L T H A
UniRef90_UPI000405A07B MK V A I Y Y Q E T E Y V L Q L I E E L Q N E N A E I Y T F T N S E G L D R S F
UniRef90_G2J962 I R K R G F E V V C E A Q T A Q A A R L T E Y S L L S A S E I G T R A
UniRef90_Q319M2 F A N P D Q H V R P L G Y T N C V P E G F D S S M
UniRef90_A4CPU3 MK V A L Y Y N D D G P V R E I L D E L R Y L G L D Y D T F D Q N G G L D G S F
UniRef90_B8FN99 K I G I F A K V H E E A D Q L Q K W L V N R D I E V V T Q S N P G H A P A D L
UniRef90_S3CN29 MK V G V F V K P T E N L E H L V S V L R R A G C K V L L E E R A A Q A L G N P
UniRef90_W5MGF2 D S F V A V K K K F C T F R E D Y D D I S D V
UniRef90_U2CLE7 MK I G I N I N T E K D S K D I K S T I A D S N I T V N T S G L S R K A V E K L
UniRef90_UPI00035FC3B8 R E E L S A A G A S L D V A I L L G V D V P T D I
UniRef90_S0FR20 R I G I F V K H Q D D A W D T A H A L V R R L K D V I L N N S L P S L P E D L
UniRef90_UPI0003616503 Q Y I E R I E K Y L D C H N A D V L I E P V D F D N A
UniRef90_W019R4 MK F G V V A R R D K E A A R V Y D F L R V S G F E V F V D T E T H K H F P D V
UniRef90_B1Y3N9 L E E I A H V L T R R G N E L V S V E A A T A E L G R H C
UniRef90_N1ZQL6 K V A I L P N L E K D T K R L V A N Y L K N C E L E L V G K D E E Q I Q N A
UniRef90_B5YJT4 K L S I L Y K E N D N S A K V Q D W L K N K G T E C I V F H S V I M A I Q N S
UniRef90_B8GEC2 MK L L L M S R I D S Y T R T L G I D L E N V G F Q I I Y D T A T A S A L E D P
UniRef90_F4P7J1 T S S Q S N S I
UniRef90_A6H1D1 F L N Q N N I Q V V I E E K F A A I L I E Y Q K F S S H K D L D K S F
UniRef90_R5I7D1 F Y I I T N S E K D T D H V V D Y L G K R G E H C E V Y T D P R K I P E E T
UniRef90_Q2KW92 A D T A R N T A V H E Y P V A T M Q E I G E S A
UniRef90_D3BQF5 K V L V I H K N D G E V L E A A K T L V K Y L V S K D V T T E E V K D P Y S I
UniRef90_V2T5R7 M G E I V
UniRef90_W7QGW4 Q K V G H D V E L D N V E Q E L G Q L C
UniRef90_D1XW83 F A I F G S K S G A A K E L I E K L R S K N A T I Y V T C A F E V I D F S V
UniRef90_L8JF08 MK I A I G K P R Q T H K A L Y D W L T T K G H D V L V D H R L A N D L D K A
UniRef90_H1Z5Y6 MK F A I Y G Q T N K I V Q R L L N V L E T Y N P T Y E T F G D E N L P T D V
UniRef90_B6J7V3 E T L A A L K D Y L V S L N R E V I L E E N A A H M I D K A
UniRef90_UPI0002FBCFB6 R F Y I I T N S D K D P E R I V E Y L E K F H K S C T V Y T D P S K I P E D T
UniRef90_UPI000403FE34 R D L N G D L P V A G V F E G N S F E T
UniRef90_H9UKY6 E I T R Q L E S E G V R V L V E R F Y G E D D L G A V P E V
UniRef90_R7RSD5 K V G I V V N R E K D A E E I Y K W L L D R N L C V Y V Y T D K D K I Y R N S
UniRef90_V4HHM9 I G L I G K P N H D L H R I V T F L Q A L G Y E V F V E R D L V E L G E K C
UniRef90_H5XSL5 Q I E D W F Q A R G W V L T E W E D I T R K A
UniRef90_A4SZS2 R V A I V A N K F Q E H L Q D L A K L V S G L G C E V F I E A A T A S H F K L A
UniRef90_R5GCC7 F F I I J A N K Q D T E Q I R H H I S R L G A V C N I Y D Q Y D R D V S S I
UniRef90_Q0VQV5 I G L I A R S E S E L R Q L I H F L H G R D C T V I L D K H A S Q M G E A C
UniRef90_B1XM83 K A G I I Y N D I K V A Q E L A K T L R N K G W E V F T A G P N F D E N M
UniRef90_G2EFW3 MK I A I F S N T E A L V V I L H Y L N N R G V S V F L I A E F N E K I Q E F
UniRef90_UPI00040548EF I F V F L N K N E V E L V I E K E F L A L K K E Y K T F T S Y A D L D Q S F
UniRef90_A5ULK6 I I N T T I K E H P E L K D Q L K N I E F K L L S Q S I Q D F K S
UniRef90_R5PXE4 L R F A L F S K S A S I H K V I S H L E R H G A R I L I D E V F D D R F E A
UniRef90_N6UQW0 D D P H L E Q F S E F P S V K D R L M T F R L G K D D L T D K I
UniRef90_UPI0003C36451 D D L S L Q E D K R F Q N I K E K L V T F K D G R D L D R L
UniRef90_UPI00047D9469 MK V A I Y G Q T D N A I E F L V E L L D E L Q I E A D F Y S L Y L D S G A E F
UniRef90_U6ECH9 M I M G L V A R I D K L A R A I A E F L E R D V D I V L D T P L A Q E L T D V
UniRef90_B8KXW1 N Q V A D L S L L D Q R G V D V T L E D R L A Q I G A M V
UniRef90_UPI000373C9D4 MK I A I Y A Q Q Y S E E Q L F D S L Q L N D R Y K S F S C F S D L A S F
UniRef90_E0S1Q2 M H I K D Y L E K H G K K C V I A E K L S G A V K E H R V E R D L S D I P E N S
UniRef90_D5VSS5 F G V V V K D N K E A I E L A K K L K S K N I P V Y I V N E K E I D K K K I
UniRef90_UPI000395A1E7 Q I G E R C
UniRef90_E8W4D9 V I D A T P D A V D G C
UniRef90_UPI0003B63898 D P G L T
UniRef90_UPI000368E053 I G Q H C
UniRef90_R8AN93 S L T E I G Q Q A
UniRef90_G0IX55 K L T K N L F N S F R K K G G L S P I V T N S K N D L A G I
UniRef90_UPI000469A836 E E I G I R A
UniRef90_UPI00036A902E MK I A I Y A Q I Y D Y V V E L L D E C K N V D A E V S I E S D F Y E Q L S A A
UniRef90_L8D8E7 I G L I G K P N H E L H R L Y T F L Q A L G F D V L V E D R V G S Q I E P I
UniRef90_D8Q9Q7 H G A E V W R P G Q D S P K I
UniRef90_UPI00046981D7 E Y K T F S S H T E L D S S F
UniRef90_R5FFY4 M H I G I F T N C D H K A E T L K K A F T E R G I S A E I L S V E T H T P E S F
UniRef90_A6EFC3 M R T A I Y G R A F P H V Q E V F D A L G D L N I P I L V Y Q E Y L D F I N D A
UniRef90_C3XMU8 N F D E L C K E A

UniRef90_A6D2V8
UniRef90_K2CG01
UniRef90_U3AYV5
UniRef90_C4ZKG1
UniRef90_A9WIJ8
UniRef90_UPI000362FF7E
UniRef90_I0AP69
UniRef90_UPI00047D861D
UniRef90_UPI0003F9492F
UniRef90_X4R7D7
UniRef90_R7LSG7
UniRef90_D9RRB0
UniRef90_H8MKF9
UniRef90_UPI00025591C0
UniRef90_W5L766
UniRef90_R5CCS3
UniRef90_B4S665
UniRef90_E6SRW2
UniRef90_C6YZZ2
UniRef90_D6WXV3
UniRef90_A1SJK0
UniRef90_E7R7X9
UniRef90_UPI00046AB4C7
UniRef90_UPI00037D6D97
UniRef90_UPI0003B526C8
UniRef90_C5CYY6
UniRef90_N8YMN4
UniRef90_D5EUB7
UniRef90_U5T3G9
UniRef90_UPI000405A07B
UniRef90_G2J962
UniRef90_Q319M2
UniRef90_A4CPU3
UniRef90_B8FN99
UniRef90_S3CN29
UniRef90_W5MGF2
UniRef90_U2CLE7
UniRef90_UPI00035FC3B8
UniRef90_S0FR20
UniRef90_UPI0003616503
UniRef90_W019R4
UniRef90_B1Y3N9
UniRef90_N1ZQL6
UniRef90_B5YJT4
UniRef90_B8GEC2
UniRef90_F4P7J1
UniRef90_A6H1D1
UniRef90_R5I7D1
UniRef90_Q2KW92
UniRef90_D3BQF5
UniRef90_V2T5R7
UniRef90_W7QGW4
UniRef90_D1XW83
UniRef90_L8JF08
UniRef90_H1Z5Y6
UniRef90_B6J7V3
UniRef90_UPI0002FBCFB6
UniRef90_UPI000403FE34
UniRef90_H9UKY6
UniRef90_R7RSD5
UniRef90_V4HHM9
UniRef90_H5XSL5
UniRef90_A4SZS2
UniRef90_R5GCC7
UniRef90_Q0VQV5
UniRef90_B1XM83
UniRef90_G2EFW3
UniRef90_UPI00040548EF
UniRef90_A5ULK6
UniRef90_R5PXE4
UniRef90_N6UQW0
UniRef90_UPI0003C36451
UniRef90_UPI00047D9469
UniRef90_U6ECH9
UniRef90_B8KXW1
UniRef90_UPI000373C9D4
UniRef90_E0S1Q2
UniRef90_D5VSS5
UniRef90_UPI000395A1E7
UniRef90_E8W4D9
UniRef90_UPI0003B63898
UniRef90_UPI000368E053
UniRef90_R8AN93
UniRef90_G0IX55
UniRef90_UPI000469A836
UniRef90_UPI00036A902E
UniRef90_L8D8E7
UniRef90_D8Q9Q7
UniRef90_UPI00046981D7
UniRef90_R5FFY4
UniRef90_A6EFC3
UniRef90_C3XMU8

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

50
60
70
80

UniRef90_A6D2V8
UniRef90_K2CG01
UniRef90_U3AYV5
UniRef90_C4ZKG1
UniRef90_A9WIJ8
UniRef90_UPI000362FF7E
UniRef90_I0AP69
UniRef90_UPI00047D861D
UniRef90_UPI000379492F
UniRef90_X4R7D7
UniRef90_R7LSG7
UniRef90_D9RRB0
UniRef90_H8MKF9
UniRef90_UPI00025591C0
UniRef90_W5L766
UniRef90_R5CCS3
UniRef90_B4S665
UniRef90_E6SRW2
UniRef90_C6YZZ2
UniRef90_D6WXV3
UniRef90_A1SJK0
UniRef90_E7RTX9
UniRef90_UPI00046AB4C7
UniRef90_UPI00037D6D97
UniRef90_UPI0003B526C8
UniRef90_C5CYY6
UniRef90_N8YMN4
UniRef90_D5EUB7
UniRef90_U5T3G9
UniRef90_UPI000405A07B
UniRef90_G2J962
UniRef90_Q319M2
UniRef90_A4CPU3
UniRef90_B8FN99
UniRef90_S3CN29
UniRef90_W5MGF2
UniRef90_U2CLE7
UniRef90_UPI00035FC3B8
UniRef90_S0FR20
UniRef90_UPI0003616503
UniRef90_W019R4
UniRef90_B1Y3N9
UniRef90_N1ZQL6
UniRef90_B5YJT4
UniRef90_B8GEC2
UniRef90_F4P7J1
UniRef90_A6H1D1
UniRef90_R5I7D1
UniRef90_Q2KW92
UniRef90_D3BQF5
UniRef90_V2T5R7
UniRef90_W7QSW4
UniRef90_D1XW83
UniRef90_L8JF08
UniRef90_H1Z5Y6
UniRef90_B6J7V3
UniRef90_UPI0002FBCFB6
UniRef90_UPI000403FE34
UniRef90_H9UKY6
UniRef90_R7RSD5
UniRef90_V4HHM9
UniRef90_H5XSL5
UniRef90_A4SZS2
UniRef90_R5GCC7
UniRef90_Q0VQV5
UniRef90_B1XM83
UniRef90_G2EFW3
UniRef90_UPI00040548EF
UniRef90_A5ULK6
UniRef90_R5PXE4
UniRef90_N6UQW0
UniRef90_UPI0003C36451
UniRef90_UPI00047D9469
UniRef90_U6ECH9
UniRef90_B8KXW1
UniRef90_UPI000373C9D4
UniRef90_E0S1Q2
UniRef90_D5VSS5
UniRef90_UPI000395A1E7
UniRef90_E8W4D9
UniRef90_UPI0003B63898
UniRef90_UPI000368E053
UniRef90_R8AN93
UniRef90_G0IX55
UniRef90_UPI000469A836
UniRef90_UPI00036A902E
UniRef90_L8D8E7
UniRef90_D8Q9Q7
UniRef90_UPI00046981D7
UniRef90_R5FFY4
UniRef90_A6EFC3
UniRef90_C3XMU8

90 100 110 120
P E G F E T S L I E A V L Q G E Y T I E K E R F L L H G N N L G Q D D S A L N E E A V L H
P T E L D K I Q A E V L Q G E Y T I E K E R F L L H G N N L G Q D D S A L N E E A V L H
P E N S A T A P L Q A E V L Q G E Y T I E K E R F L L H G N N L G Q D D S A L N E E A V L H
R S S F A T E R L L A E I V L Q D R F L L D E T E I H R H G L I K G Q N S A L N E D V A L H
P D E V Y S G C E Q I M N G G G W F D E R S L V R A Q L W Q H T A L N E D V V V S
U N I R E F 9 0 _ U P I 0 0 0 3 6 2 F F 7 E
V A N L I D S Q K V I A E V L Q N S R F L L D M S V E R N G E I L C T G D A L N E D V V L H
U N I R E F 9 0 _ I 0 A P 6 9
L S E L Y P T L E W C Q D C H L V E K R A M L R A E L W R D Y D A L N D I L V V T S
U N I R E F 9 0 _ U P I 0 0 0 3 7 9 4 9 2 F
Q E N I F E T L L Q A I F E N Q Y K L S P R S L L T I D Y Y L D Y A L N E A S T V S E
U N I R E F 9 0 _ X 4 R 7 D 7
P S G F P Q V V L Q A I V E R R W I D V K V T Y P D G R T M D W A L N E A S I S E K
U N I R E F 9 0 _ R 7 L S G 7
R D N L D F A V S Q I L N D N F K T E K R M M L K C Q N M V A L N D F V I K
U N I R E F 9 0 _ D 9 R R B 0
P E E I K D V L N D N V F E G R Y E I E E R A V L Q L E E N C P F A L N D I A I L
U N I R E F 9 0 _ H 8 M K F 9
V E E L F S R L L N D D V L J A G N F H V C R L L R G G K V L I E D E L L N D V V I N
U N I R E F 9 0 _ U P I 0 0 0 2 5 5 9 1 C 0
K N E I P Q A M K F F S G D Y R V E E R V M L N V K S N E N S C A L N D D L T I A D A
U N I R E F 9 0 _ W 5 L 7 6 6
F D T Y Q Q V T Q V L I E G M A A I L I L R S R L K V R K T M Q Y Q V L N E D V V I A
U N I R E F 9 0 _ R 5 C C S 3
K S N Y K E A V L Q L M D G C Y A V E K R M M L A G H D F H C D A L N D I V V I E
U N I R E F 9 0 _ B 4 S 6 6 5
K A E M F E A V E Q V L N G T Y S I H V R V T M N G G L K H L T A L N D I V V I E
U N I R E F 9 0 _ E 6 S R W 2
P E E M E E T F D E I L Y N N H Y K V L Q L R C D D E K L M K S P Y A L N E I A V L
U N I R E F 9 0 _ C 6 Y Z Z 2
K D E K K A T I D A L K N K E Y S L D K R T L Y D F G E A N F A L N D I T I H
U N I R E F 9 0 _ D 6 W X V 3
F D N F Q E Q V R L R C I I M R K G D D E K K T S K Q P T N L L V L N E V V V D E S
U N I R E F 9 0 _ A 1 S J K 0
Y D D L E S T I E A I V H R R Y T D V T V H R D G E V V T H T W A L N D V A S V S
U N I R E F 9 0 _ E 7 R T X 9
M S D W Q K G L D E I L L N H Y E I E E R S L L E A H I W F H A R A L N D V V I N
U N I R E F 9 0 _ U P I 0 0 0 4 6 A B 4 C 7
P D D L P Q L I E I H E E R Y E T E N R M M L E A K T I E K W I A L N D I G I A
U N I R E F 9 0 _ U P I 0 0 0 3 7 D 6 D 9 7
P D D I T A Q L D L I F A G Y H A I V R E Q R F L L E V I G V Y R Y E K L N E D V V L H
U N I R E F 9 0 _ U P I 0 0 0 3 B 5 2 6 C 8
E A G V D A L D R I L W G Y E I E D R M M L R G A L E G V K K D Y S A L N D I I V T
U N I R E F 9 0 _ C 5 C Y Y 6
L D N Y Q A T L I P M L H R S L M H A Q V M R D G A S V F D A L A M N D V V V N
U N I R E F 9 0 _ N 8 Y M N 4
P T E V I F K L D Q V L K G E F Q E I E I E R S K N E T I Y D A L A L N D V V L H
U N I R E F 9 0 _ D 5 E U B 7
P D D L E H C M R A L Y N D D Y A V E S R A L J A P L G E C S C A L N D V V A I L
U N I R E F 9 0 _ U 5 T 3 G 9
P D R F D E I T R V I D G D M H I E E R L M L E A R V V A D D Q V V N E V V L Q
U N I R E F 9 0 _ U P I 0 0 0 4 0 5 A 0 7 B
K E D V R K V V R E F V A G A Y T I E E R S L V E I F K E L N F A L N D I T V S
U N I R E F 9 0 _ G 2 J 9 6 2
I R D M L R V V P V M L E G R F E E R T L K G S P V I H A L A F N D V V V N
U N I R E F 9 0 _ Q 3 1 9 M 2
L S N L N E A I D K I I T G N W F I V S V M R N D Q R R W E S L C L N E M A L H
U N I R E F 9 0 _ A 4 C P U 3
K E E V R S L L E E F R A G A Y R L V E R S L V E A S G Q L N F A L N E V T V S
U N I R E F 9 0 _ B 8 F N 9 9
K Q D L Y P V L E S V L K D D F T Q T V R E D E K I I T T Q T V L N D V V I N
U N I R E F 9 0 _ S 3 C N 2 9
L D D M D R V L P A M L A G E C S A D Q R H L N G Q E I F R N V A V N D I G F S
U N I R E F 9 0 _ W 5 M G F 2
F D S Y F Q Y A I E Y K I E E R Y D M L E C T I Y S S D T L K E Y I C L N D V V L S
U N I R E F 9 0 _ U 2 C L E 7
S S E F C Y A I E Y K I E E R Y D M L E C T I Y S S D T L K E Y I C L N D V V L S
U N I R E F 9 0 _ U P I 0 0 0 3 5 F C 3 B 8
R D D M D E A V R R V I E E R Y D M L E C T I Y S S D T L K E Y I C L N D V V L S
U N I R E F 9 0 _ S 0 F R 2 0
E D E H L I E E T L E K V F N K Q Y Q I H R M M R K D A I L A D V D V L N D M V I N
U N I R E F 9 0 _ U P I 0 0 0 3 6 1 6 5 0 3
P N E A F F A I E G D Y Y I D E R I K L R T Y L N G E N T V P D A L N E D V A I L
U N I R E F 9 0 _ W 0 1 9 R 4
V A G V A R A L N A V L N G D Y M L E G H V L R G G E P I I Y D A V A M N D V V L
U N I R E F 9 0 _ B 1 Y 3 N 9
K D Y A E C A I L D R V L E D C Y I E K R M M L E A S I F R D E Q V I N E Y V I G
U N I R E F 9 0 _ N 1 Z Q L 6
K S D F D S L E Q I F S G H Y E I E E R S M I N A Q I F R D E Q V I N E Y V I G
U N I R E F 9 0 _ B 5 Y J T 4
P E E A F S F L K E L K P G E P V E E R R M R L S V D G K P L G T A L N E A V I V
U N I R E F 9 0 _ B 8 G E C 2
H S S L K T A I K R E L V D N N E A G M R M N F R M R F A C T Y H I L N D M A V D
U N I R E F 9 0 _ F 4 P 7 J 1
Q E N I E T F L Q L V L E K K Y T I S K R T L L S L K C D L N F A M N E I T V S S
U N I R E F 9 0 _ A 6 H 1 D 1
S S V Y Q A L D K I A D Y I E V E E R M M L S G T V Y R N D G A L N D I V I S N
U N I R E F 9 0 _ R 5 I 7 D 1
L Q D A H D A L A R V L D G N F Q I E E R M L L Q G S V R W G D A L M D V I N
U N I R E F 9 0 _ Q 2 K W 9 2
Y A N Y K E E G K C F V S Y R L R L S C T V I S G T T Y K T Y Q V L N E V A I D
U N I R E F 9 0 _ D 3 B Q F 5
P S E V L A K L D Q V L K G R F L L E L E I R A Q D Q V L Y K A I A L N D I V L H
U N I R E F 9 0 _ V 2 T 5 R 7
P E A F E S A L T Q V L K G N F S I E T V H R H G Q I K S R N A A V N E A V L H
U N I R E F 9 0 _ W 7 Q S W 4
Q E E N L T I D N T Y A N E F S V E E R A V I K L E C P D N P F A L N D I A I L
U N I R E F 9 0 _ D 1 X W 8 3
P D A F D S E L E K V L Q G E Y T I E K V H R H G Q I K S R N A A V N E A V L H
U N I R E F 9 0 _ L 8 J F 0 8
E D A F D E E H L P H L F K V Q G E Y T I E K S R A L L T I A C D P N F A L N D I T V S
U N I R E F 9 0 _ H 1 Z 5 Y 6
P N E L T Q I S D L D G H Y R E E V R F L L E G T V E E Q G I A L N D I V L L
U N I R E F 9 0 _ B 6 J 7 V 3
Q Q S L Y S A L D F K M A G E D Y E I E E R M M L E G S V Y R D L A L N D I V I G
U N I R E F 9 0 _ U P I 0 0 0 2 F B C F B 6
P G E V L E M L D F D J E E R S V I K L S T D S E K F R D Y P F A L N D I A I L
U N I R E F 9 0 _ U P I 0 0 0 4 0 3 F E 3 4
A S E W Y D V Y A G Y R Q G N V D G R L M L Q V D L F C S H L I G L N D M V I T
U N I R E F 9 0 _ H 9 U K Y 6
I N D Y N A L D R V L K R I M I K A D V F R E N K C K L T F F A L N D I C I T
U N I R E F 9 0 _ R 7 R S D 5
P H D F E P A L E Q V L S G F V E E H R F L L E V E V Y R H A Q L N E A V L H
U N I R E F 9 0 _ V 4 H H M 9
R E E V F S A L E Q I L R D G F E I Q E R L M L N A V I N Q D G Q V L N D V V F S
U N I R E F 9 0 _ H 5 X S L 5
I Q S V Q S I L P K I I A G E Y E A D T V M R D G K E I N R A L A L N D V V N
U N I R E F 9 0 _ A 4 S Z S 2
L A D L S K T L L L Q Q Y Q V E N R I M L T A E V Y K Q Y I A L N D F V I N
U N I R E F 9 0 _ R 5 G C C 7
P S E I E S R V G Q V L D G E Y S T E K V R R G R T V V I G E G S A L N D I V L L
U N I R E F 9 0 _ Q 0 V Q V 5
L Q H L D E A I A Q L L G E Y I E D R S M I T V Q L D F R D G E L L W E M V L H
U N I R E F 9 0 _ B 1 X M 8 3
N Q L I I P S I D A I F N K A Y R I S E R H L L V I Q L T F D Y N F A L N E I A V S S
U N I R E F 9 0 _ G 2 E F W 3
K E N I E L F L Q S I I H K K F T V S K R T L N N A F K E I N F A L N E I T V S S
U N I R E F 9 0 _ U P I 0 0 0 4 0 5 4 8 E F
V N E T F D S L K K L L K G E Y L E K R T K L V V S H E N H H Y L N E V V V M
U N I R E F 9 0 _ A 5 U L K 6
P D E F G T A L N Y T T E S H T A L M V S T G T R Q L R N E P F A L N D I A V L
U N I R E F 9 0 _ R 5 P X E 4
F D N F Q E Q V N N V L E G H A A L T R S R L R C I V M K Q F L V L N E V V I D
U N I R E F 9 0 _ N 6 U Q W 0
U N I R E F 9 0 _ U P I 0 0 0 3 C 3 6 4 5 1
F D N F Q E Q V N N V L E G H A A L T R S R L R C I V M K Q F L V L N E V V I D
U N I R E F 9 0 _ U P I 0 0 0 4 7 D 9 4 6 9
K E D V R N V V R E F V G D Y T I N T K A L D A E F G D L N F A L N E I T V S
U N I R E F 9 0 _ U 6 E C H 9
P E N A F T A I E E V L N Y F V E R R N Q L R V W H N Q E L P P A L N E V V L M
U N I R E F 9 0 _ B 8 K X W 1
P D D V L A Q V N A V L D G N Y H R D E V R R D G V T I G S A E A L N D V V V N
U N I R E F 9 0 _ U P I 0 0 0 3 7 3 C 9 D 4
K D E I Q N V F S A L R T K N Y K J A E R S V I E P V S E I N F A L N E I T V T
U N I R E F 9 0 _ E 0 S 1 Q 2
K S G V D D A L R R L L D Y E I E D R M M L Y G D G C D K H D Y A L N D I I V T
U N I R E F 9 0 _ D 5 V S S 5
K E E L F K A L D L V I N Y R D V I K R E K L S C K V K R R R Y A L N E V V I
U N I R E F 9 0 _ U P I 0 0 0 3 9 5 A 1 E 7
I Q T F L A G E Y E E V S M I H A R V M R E G Q C V F E A J A F N D V V V N
U N I R E F 9 0 _ E 8 W 4 D 9
R D D L D K V V D R V V T R A Y Q V I E E R M T N G D V V H T D W A L N E A A V Q
U N I R E F 9 0 _ U P I 0 0 0 3 B 6 3 8 9 8
R D D G Y T V S R A L A R D Y T V E E R M T L S V R A K Y E S W A L N E A T V E
U N I R E F 9 0 _ U P I 0 0 0 3 6 8 E 0 5 3
P N E L P E K L H A I L Q G H Y T E E K R Y L E G Q I I H E E T A V N E V V I H
U N I R E F 9 0 _ R 8 A N 9 3
P E N A Q T Q L S E V L A G D Y L T E D R F L G D R P K R A S S A I N E A V L H
U N I R E F 9 0 _ G 0 I X 5 5
K E D L K A A V K D L L E G H Y A L E D R S L V R L F K G L N F G L N D F T I H
U N I R E F 9 0 _ U P I 0 0 0 4 6 9 A 8 3 6
I D S M L E T L G S M L D G Q Y F K E R R L V F V E V R D N V L N D V A V N
U N I R E F 9 0 _ U P I 0 0 0 3 6 A 9 0 2 E
K E E V R R V V T E F L S G G Y S I D E R S L I P E F K D M N Y A L N E V A S V S
U N I R E F 9 0 _ L 8 D 8 E 7
P E G F E A S L E Q V L R G E Y I E E S R F L H A E L K S A N A A V N E A V L H
U N I R E F 9 0 _ D 8 Q 9 Q 7
V D D Y A R A L R M R L A C S Y E D T D L K R K G V P G E N W Q V M N E V A L H
U N I R E F 9 0 _ U P I 0 0 0 4 6 9 8 1 D 7
K E N I A A F M Q L V L D K K Y T L S Q R T L L S L T C S P D F A L N E V S V S
U N I R E F 9 0 _ R 5 F F Y 4
F S E K T V S E I V E G N F T T E S R M L L E V A A N G E K Y E A L N E I C V H
U N I R E F 9 0 _ A 6 E F C 3
K D E I R K A I E F S L D K R S L L S L E S K H A L F G E N F A L N D I T I H
U N I R E F 9 0 _ C 3 X M U 8
K H E A E A L P S L K S G N Y T I T E H M M L E G R I Q D N T N F L N D I V L T

UniRef90_A6D2V8 P G Q V A H M I E F F E V Y I D D D T F A F S Q R S S D G L I I V P T T G S T A Y A S L L
UniRef90_K2CG01 P D V V P R M I E F F E V Y I D D D R F V C S S Q R R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_U3AYV5 P G K V A H M I E F F E V Y I D D D G E F F V T T Q R R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_C4ZKG1 K G E L G R M I E F F E V L S I I D D D E E F V Y T T Q R R S D D G M I I V S T P T T G S T A Y A S L L
UniRef90_A9WIJ8 R S D L S R I V N V H V T I D D D S F V T T Y H A S D D G V I V S T A T T G S T A Y A S L L
UniRef90_UPI000362FF7E P G G F I R M L E F F E V L V V V D D D G H F Y V T T F T A D G M I I V S T P T T G S T A Y A S L L
UniRef90_I0AP69 K G G W P K M L E L T V W V D D D G F V V T T F T A D G M I I V S T P T T G S T A Y A S L L
UniRef90_UPI00047D861D K G E A R M G E F S V V E L L D D G K P V A H F R A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_UPI0003F9492F R K D T T S M I T T D V V K V L N D G D H L G L S S F K A D A D G V V I V S T P T T G S T A Y A S L L
UniRef90_X4R7D7 K G P D V R M I E A D I H A Y M D D D Q L G L S S F K A D A D G V V I V S T P T T G S T A Y A S L L
UniRef90_R7LSG7 G D V S S R T S R F A L Q I N D G K F V L C E Y L A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_D9RRB0 K R D N A A M L S L K A S V I D D G D L L V T T Y L A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_H8MKF9 K G A L A R L A D H E T S I V D D G V P I T T T Y K A S D D G L V I V S T P T T G S T A Y A S L L
UniRef90_UPI00025591C0 K K D T T S M I G V E A Y L N G G E Y L T T T Y Y A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_W5L766 R G P S S Y L S N V D L F L V D D G K H L I T T T V I Q L A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_R5CCS3 R S G M L R I M N Y D V V L V L D D G K F L I N T Y H A D D G M I V C T P T T G S T A Y A S L L
UniRef90_B4S665 K G A Y P R I P T F I I K L N D D E L L S A Y R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_E6SRW2 K R D S S S M L S I H T A Y M N N E G A P L T T Y Q A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_C6Y2Z2 R R D N S A M M I I H A Y M N N E F V N S Y W A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_D6WXV3 R G P S P Y L S N I D L F L D D G K L I T S V Q G D D G L I V S T P T T G S T A Y A S L L
UniRef90_A1SJK0 K A A R E R M L E V V V S V N D D G R P L S R W G C A D D G V V C A T P T T G S T A Y A S L L
UniRef90_E7RTX9 R S S H T G L I E I E V V S V N D D G R L Y M Y S P R A D D G L I V S T P T T G S T A Y A S L L
UniRef90_UPI00046AB4C7 K G S Y S R M L T C H V Y L Y N K V L N T F F G D D G L I I V S S P T T G S T A Y A S L L
UniRef90_UPI00037D6D97 H G K V A H M M E F E I V L D D E Q F V L S Q R A S D D G L V I V S T P T T G S T A Y A S L L
UniRef90_UPI0003B526C8 R Y Q G L A T I G Y N I F V N D D Q F L C S Y A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_C5CYY6 R G A T S G M V E L R V S V G R R H F V V A N Q R A S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_N8YMN4 S G K S V H M I S D F E L N I V D D G Q Y L N T Y Q A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_D5EUB7 K R D T A S M I E F E T W I D D G E P C N R H R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_U5T3G9 R W N T A R M I E F E T W I D D G E P C N R H R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI000405A07B R K D T T S M I T T E T S Y L N D D G E Y L T S Y W A D D G F I V S T P T T G S T A Y A S L L
UniRef90_G2J962 R S G T S G M V E L S V Y V L D D D C F M Y R Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_Q319M2 R E P L T S M C H F E I S I G R R H A P V I D I S A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_A4CPU3 R K D T T S M I T V E T Y L D D G E Y L T T S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_B8FN99 N G T L A R L A N V N T Y V D D E E Y L T T F R A D D G L I V S T P T T G S T A Y A S L L
UniRef90_S3CN29 H G R A G G M V D F I T Y V D D G K Q M S A Q S A D D G V V C A S T A T G S T A Y A S L L
UniRef90_W5MGF2 R G P S S Y L S N V D L F L D D G K H L I T T V I Q G A D D G V I V S T P T T G S T A Y A S L L
UniRef90_U2CLE7 K G A L S R M A K Y E I L D D D K F Y S S F T A D G V I V S T P T T G S T A Y A S L L
UniRef90_UPI00035FC3B8 K A S R E R L L E V V V E I D D G R P L S S F G C D G M V V S T P T T G S T A Y A S L L
UniRef90_S0FR20 K S A L S R L A S C A V Y L N D K V L I T T F R A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_UPI0003616503 K L D S A S I R S H I D D G D F L V N Y Q A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_W019R4 T G I P G K I V H L K Y Y V D D G L A D E V R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_B1Y3N9 R S G A T A M L E L R V A V V D D G Q F V A N F R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_N1ZQL6 R G F S S K I L E F N I A V V N M E Y V D T L F R A D D G V I V S T P T T G S T A Y A S L L
UniRef90_B5YJT4 K G I M A K I S D F G L I I N D V Y V S T I K A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_B8GEC2 T S R P A K M L R F S V L V D D G V R A E Q F R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_F4P7J1 R G P S P Y L S Q L E V L Y G D E N H A L T V I Q A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_A6H1D1 R K D T T S M I T I E T Y L N G E Y L L N S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_R5I7D1 R E G S L R V V F M K N F V D D G E Y L L N S Y N A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_Q2KW92 R A G R G G M I E M R V E L L D D G V Y M Y T Q R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_D3BQF5 R G N N P Y L S N L E C F C D D D K L I T M V I Q A D D G V I I A T S T G S T A Y A S L L
UniRef90_V2T5R7 S G K S V H M I D F E L E I D D D H F V Y R Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_W7QGW4 S D K V A H M I E F F E V Y I N D K F V F S Q R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_D1XW83 K R D M A A M I S I R M A I N G E F L T A Y L A D D G L V I V S T P T T G S T A Y A S L L
UniRef90_L8JF08 P D K L A H M I E F E V Y I D D D N F A F S Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_H1Z5Y6 R K N T T S M I T V E T Y L D D N E Y L A T Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_B6J7V3 P G N A P K M I E F D I F I N D E F V C N Q R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI0002FBCFB6 R D G H L R V V S R F K N V V D D G V Y L N S Y N A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI000403FE34 K R D T A S M I S I R V S V G G E Y V V V T Y L A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_H9UKY6 K A G I S N L I S V D V T L T S G S L G R Y R A D D G V L V A T P T T G S T A Y A S L L
UniRef90_R7RSD5 R G Y L S R M V K L D A Y I E N D L V V D T Y N A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_V4HHM9 A D K V A H M I E F E A F I D D D Q F V S Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_H5XSL5 R E G R D G I I T L Q A N L S G E P T V S Y P A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_A4SZS2 R S G S G M V E L A V H V I N G S F M Y N Q R A S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_R5GCC7 R F G A S R V I E L K V G I N G S V I D R Y R A D D G V I V S T P T T G S T A Y A S L L
UniRef90_Q0VQV5 S G D S V H M L D F E L M I D G G H F V Y G Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_B1XM83 R E P L A G M C H F E I Q I G R R H A P V I D I A D D G M I I V S T P T T G S T A Y A S L L
UniRef90_UPI00040548EF R K N T T S M I T V E T Y L N E E Y L T S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_A5ULK6 T D E P S K M L S F Q V T V D D G E I I E E F R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_R5PXE4 K R D N A S M I S I R V T C I D D G E P L V I T Y Q A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_N6UQW0 R G P S P Y L S N I D L F L D D G K H I T S V Q G D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI0003C36451 R G P S P Y L S N I D L F L D D G K Y I T S V Q G D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI00047D9469 R K D T T S M I T I E T H L N N E Y L T S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_U6ECH9 T R K P A K M L H L Q I S V D D E I M E E L R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_B8KXW1 S G T S A Q M I E F E L N V L N G E F V Y T R L N A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI000373C9D4 R K N T A S M I T I N T E L N G E F L T S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_E0S1Q2 R R S A L S T I N F D V Y V N N L F L C N Y H A D G L I I V S T P T T G S T A Y A S L L
UniRef90_D5VSS5 T K N P A K L L E F S L V I N N K K V E E R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI000395A1E7 R G G T S G M V E L R V E V D D G O L V A N Q R A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_E8W4D9 K V S P E R M L E V V L E I D D G R P V T G F G C D G I V C A T P T T G S T A Y A S L L
UniRef90_UPI0003B63898 K A E R E R M L E V V L E I D D R R P L S S F G C C D G V V M S T P T T G S T A Y A S L L
UniRef90_UPI000368E053 R W I T P S M I E I I T K I V D G V F L N S S Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_R8AN93 P G K V A H M I E F E V Y I D N R F A F S Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_G0IX55 K R D T S M I T V H T Y I D D G D Y L N S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI000469A836 R G V G G N M I E F E V T H I N G E Y V Y S L R S D D G L I V S T P T T G S T A Y A S L L
UniRef90_UPI00036A902E R K D T T S M I T V E T H L N N E Y L T S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_L8D8E7 A D K V A H M I E F E A F I N D D F V F S Q R S D D G L I I V S T P T T G S T A Y A S L L
UniRef90_D8Q9Q7 R G A S Q H L L V T M D I F V D D Q H L T E G V S D G L I I V S T P T T G S T A Y A S L L
UniRef90_UPI00046981D7 R K D S T S M I T I E T Y L N G E F L N S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_R5FFY4 K G S D T R P A K F Q V A Y M N D D F L D K F I S D A Y L V A T P T T G S T A Y A S L L
UniRef90_A6EFC3 R R D K S A M M I I H A Y M N D E F V N S Y W A D D G L I I V S T P T T G S T A Y A S L L
UniRef90_C3XMU8 R L N D A G M I H L K A Y I D G E Y F N A Y Y G D G L I I V S T P T T G S T A Y A S L L

UniRef90_A6D2V8
UniRef90_K2CG01
UniRef90_U3AYV5
UniRef90_C4ZKG1
UniRef90_A9WIJ8
UniRef90_UPI000362FF7E
UniRef90_I0AP69
UniRef90_UPI00047D861D
UniRef90_UPI0003F9492F
UniRef90_X4R7D7
UniRef90_R7LSG7
UniRef90_D9RRB0
UniRef90_H8MKF9
UniRef90_UPI00025591C0
UniRef90_W5L766
UniRef90_R5CCS3
UniRef90_B4S665
UniRef90_E6SRW2
UniRef90_C6Y2Z2
UniRef90_D6WXV3
UniRef90_A1SJK0
UniRef90_E7R7X9
UniRef90_UPI00046AB4C7
UniRef90_UPI00037D6D97
UniRef90_UPI0003B526C8
UniRef90_C5CYY6
UniRef90_N8YMN4
UniRef90_D5EUB7
UniRef90_U5T3G9
UniRef90_UPI000405A07B
UniRef90_G2J962
UniRef90_Q319M2
UniRef90_A4CPU3
UniRef90_B8FN99
UniRef90_S3CN29
UniRef90_W5MGF2
UniRef90_U2CLE7
UniRef90_UPI00035FC3B8
UniRef90_S0FR20
UniRef90_UPI0003616503
UniRef90_W019R4
UniRef90_B1Y3N9
UniRef90_N1ZQL6
UniRef90_B5YJT4
UniRef90_B8GEC2
UniRef90_F4P7J1
UniRef90_A6H1D1
UniRef90_R5I7D1
UniRef90_Q2KW92
UniRef90_D3BQF5
UniRef90_V2T5R7
UniRef90_W7QGW4
UniRef90_D1XW83
UniRef90_L8JF08
UniRef90_H1Z5Y6
UniRef90_B6J7V3
UniRef90_UPI0002FBCFB6
UniRef90_UPI000403FE34
UniRef90_H9UKY6
UniRef90_R7RSD5
UniRef90_V4HHM9
UniRef90_H5XSL5
UniRef90_A4SZS2
UniRef90_R5GCC7
UniRef90_Q0VQV5
UniRef90_B1XM83
UniRef90_G2EFW3
UniRef90_UPI00040548EF
UniRef90_A5ULK6
UniRef90_R5PXLE4
UniRef90_N6UQW0
UniRef90_UPI0003C36451
UniRef90_UPI00047D9469
UniRef90_U6ECH9
UniRef90_B8KXW1
UniRef90_UPI000373C9D4
UniRef90_E0S1Q2
UniRef90_D5VSS5
UniRef90_UPI000395A1E7
UniRef90_E8W4D9
UniRef90_UPI0003B63898
UniRef90_UPI000368E053
UniRef90_R8AN93
UniRef90_G0IX55
UniRef90_UPI000469A836
UniRef90_UPI00036A902E
UniRef90_L8D8E7
UniRef90_D8Q9Q7
UniRef90_UPI00046981D7
UniRef90_R5FFY4
UniRef90_A6EFC3
UniRef90_C3XMU8

170 180 190 200
S G G G P I L S A N L N A I S L V P M F P H T L S S R R P L V V D A N C R I I K L V I
S G G G P I L H P N L D A I V L V P M F P H T L S S R R P L V V D E G N N R Q R I H V I
S G G G P I L S P S V L N T G I S L V P M F P H T L S S R R P L V V D D D S N Q R Q R I K L V
S A N G P I L H P S V G G I A L V P L C P H A L T S S R R P L V V D P D D S N Q R Q R I K L V
A A G G P I V D P R S Q A L L V L V P L A A H L T N S P M V L H E G D A S V V T T M S
S G G G P I M H P K L Q A D L V L V P M N S P H S L T S S R R P M V L A G S D A S V V T T M S
S V G G P I V S P Q A D V I L L S P I I C S P H L L T L R R P L V V P R G D A T L L M V C
A A N G P I L T P D V D V M V A T P I I C S P H L L T L R R P L V V P R G D A T L L M V C
S G G G P I L T P D V D S L V I T P I I A A P H N L F A R A R P L V V P S D D D T E L E V L T R
S A G G P I L W P D V E A L L L T P I I A A H A L F S A R R P L V V P S D D D T E L E V L T R
A A G G P V L S P V V Q A I T L V P V V C P H T F S A R R P L V V P S A D D D K E I L R T
S V G G P I V P Q S G D L L S M T P V I A P H S L N T Q R A I V V P S A D E A R T E I K L R T
S A G G P I V H P S V D C T I L S P V I A P H S L N T Q R A I V V P S H A N T E I K L K M
S C Q G P V I M P N T D N F L I T P I V A P H S L N T A R P I V V P S A G V D T E I K I M
A A G A S M I H P N V P A I L I T P I I C C P H S Q I N T F R S I V V P S A K G V T E I K I M
S A G G P I V E P A N E A M I L L T P I I C C P H S Q I N T F R S I V V P S A K G V T E I K I M
S A G G P I I A P K S N V F V I T P I I C C P H S M L N T V R P I V I P S D D D K T E I Q I L S
S V G G P I V I P S S K T I A I T P I I A P H S L N T V R P I V I P S D D D D W E S L T F R E
S C A G G P L I Y P S S Q N F V I T P I I A P H S N L N V R P I V I P S D D D D W E S L T F R E
A A G A S M I H P S V P A I M V T P I I C P H S L S F R P I V V P P A S G V E L K I S E T
UniRef90_A1SJK0 S A G G P I L W P G V E A L L M V P I I S A H A L S F A R P L V V P S P S S V L A V E T
UniRef90_E7R7X9 S V G G P I L M H P S L H G F V L A P V A P Q S L T A R P I I L P D D Q E E I T S M R E E
UniRef90_UPI00046AB4C7 S A G G P I V A P N M N A I L L T P V V C S H S L T A R P I I L S D D Q E E I T S M R E E
UniRef90_UPI00037D6D97 S A G G P I L M P R L D A L T M V P M F P H T L S S R R P L V V P S D A N T K I S D V I
UniRef90_UPI0003B526C8 S A G G P I I E P S A N M L L V T P I I C P H T L L N S R S P L V V P S D A N T K I S D V I
UniRef90_C5CYY6 S A G G P L L H P A V P G W V L V P I I A P H T L S S N R P L V L P S D A D E I E I
UniRef90_N8YMN4 S G G G P I L H P S M D A T A L V L P M A H P H T L S S R R P L V V P G G A D S S V I K I L R
UniRef90_D5EUB7 S N G G P I L V P S T K V F S M T A V A P H T L S N V R P I V I P S A D S S V I E L R
UniRef90_U5T3G9 S G G G P I M H P G I N A V A M V I S A P H T L S N R P L V I P S A D S S H I E L R
UniRef90_UPI000405A07B S C Q G P V I M A P V L K S F I L T P I I A P H N L S N A R P L V I P S D D T A V I R I K Q
UniRef90_G2J962 S S Q G P I L H P Q L A G I V L V P I I A P H T L S N R P I V I P S D D H A R I A T R L R
UniRef90_Q319M2 S A G G P V I T P D C P V V Q L T P I I A P H S L A S R A L V F N D D D T S E P I V V
UniRef90_A4CPU3 S C A G G P I A P T A K S L V I T P I I A P H N L A N A R P L V V P D D D T S T I C M T
UniRef90_B8FN99 A A G G P I L E P Q V A A I V L T P I I C P H T L N A R P L V V P D D D T S T I C M T
UniRef90_S3CN29 A A G G P L L H P S M D A V V L V P V A P H T L S N R P L V L P S S S K R I E I E M
UniRef90_W5MGF2 A A G A S M I H P N V P A L M I T P I I C C P H S S F R P L V V P A G K V E L K I D M N
UniRef90_U2CLE7 S A G G P I M Y P D L K L M S I T P I I C C P H S L S G I R T M V I G P E H S V A I E R R
UniRef90_UPI00035FC3B8 S A G G P V I W P T V E A T A V V P L S A H A L F A K P L V V G P E H S V A I E R R
UniRef90_S0FR20 A A G G P V V H P A V P S I L L T P I I C P H T L N R P L V I P D D T S A I E L R R
UniRef90_UPI0003616503 S N G G P I I V P A V S G S L C I L T P V A P H S L N R P L V I P D D T S A I E L R R
UniRef90_W019R4 S A G G P F L D P R I D G V I A P L A P I A L S S R P M V V P A T S S K I V D I R D E
UniRef90_B1Y3N9 S A G G P I L H P T D A E A G W L L V P I I A S H M L S N R P I V V P S A E S G E K I T T V E
UniRef90_N1ZQL6 S A G G P I L K T D A E I A I L T P I I C S P H T L S N R P I V V P S A E S G E K I T T V E
UniRef90_B5YJT4 S A G G P I L Y P T L K G L V F T T I I C C P H T L S V R P L V L P S A D H F T L D I V H
UniRef90_B8GEC2 S A G G P I I D P R I E G A I L V T P L A P Y M L S S R P H L I C A D T R T M L A V I R V
UniRef90_F4P7J1 S A G G S V V H P D V S A I L V T P I I C P H T L S S R P M I L P A D T M D V K L V
UniRef90_A6H1D1 S C G G P I L T P E A N C L V I T P I I A P H N L N A R P L V I P D D N T E I K L K
UniRef90_R5I7D1 S V G G P I V S P S G E M T I M T P I I A P H T L N T R S I V I P P A E D D V L T M E T
UniRef90_Q2KW92 S A N G P I L H P G L N A M V L V P V A P Q S L N T R S I V I P P A E D D V L T M E T
UniRef90_D3BQF5 S A G G S L V H P T I P A M L I T P I I C P H T L S S F R P I I L P S D T S T L A I R T
UniRef90_V2T5R7 S G G G P I M H P S M E A I S L V P M F P H T L S S R P I V V P G D A N S T I K I L T
UniRef90_W7QGW4 S G G G P I L T P N L N A I C L L T P M F P H T L S T N R P L V V P G D A N S T I K I L T
UniRef90_D1XW83 S I G G P I M V P Q T S T L S I T P V A P H S L S N R P L V V P S D E A S K I T L R
UniRef90_L8JF08 S G G G P I L S P S L N A I S L V P M F P H T L S C R P L V V P D G A N S K I K L L
UniRef90_H1Z5Y6 S C G G P I I E P S E T G C F V I T P L A P H N L N V R P L V I P D A E S Q I K I T
UniRef90_B6J7V3 S G G G P I L H P Q L N A M A L V P M F P H T L S S R P I V V P D A E S Q I K I T
UniRef90_UPI0002FBCFB6 S A G G P I V S P S A E M T I M T P V A P H T L N T R S I V I P G D D M E I K L V E R
UniRef90_UPI000403FE34 S N G G P I M V P S G I L S L T P V A P H S L N R P I V I P G D D M E I K L V E R
UniRef90_H9UKY6 A A G G P I L Y P E M Q A I L N P I I C P H T L S H R P I V I P P D E A V T I T V
UniRef90_R7RSD5 S A G G P I V N P T L D V M L L T P I I C P H S L K S R P L V V P S D D E A V N V V
UniRef90_V4HHM9 S G G G P I L T P E L N A V A L V P M F P H T L S S R P L V V P S D A N K Q V K I
UniRef90_H5XSL5 S A G G P I I S P N V Q A I L L T P L A A H S L S A R P M L V S D E E E I E I L
UniRef90_A4SZS2 S A G G P I L H P H V A G L L V T P I I A P H S L S N R S I V L P A K E S V I T V E E
UniRef90_R5GCC7 S A G G P I L N P T C K N F V I T P I I C P H S L T A R S I V L A Q E D S V T V E E
UniRef90_Q0VQV5 S G G G P I M H P K L D A M V L V P L N P H T L T S R P L V V A G D S E I K I H
UniRef90_B1XM83 S A G G P V V I T P D V P V F Q L A P I I C P H S L A S R A L V E S D T S E P V N L T
UniRef90_G2EFW3 S C G G P V I T P D V T N S L V I T P I I S P H N L S A R P L V V P D D K T E I K L K
UniRef90_UPI00040548EF S C G G P V I L T P D V K S L V I T P I I A P H N L S A R P L V V P D D K T E I K L K
UniRef90_A5ULK6 S A G G P I V D P N V G G F I I T P I I C P Y K L G V R P F I V S G D E S T V L V K R
UniRef90_R5PXLE4 S N G G P I L V P R T N T V C L T P V A P H S L N V R P I V I P S G D S T V T L R S
UniRef90_N6UQW0 A A G A S M I H P S V P A I M V T P I I C P H S L S F R P I V V P A G V E L K I S
UniRef90_UPI0003C36451 A A G A S M I H P S V P A I M V T P I I C P H S L S F R P I V V P A G V E L K I S
UniRef90_UPI00047D9469 S C G G P V I V P T A K S L V L T P I I A P H N L N A R P L V I P D D D T V I R L K
UniRef90_U6ECH9 S A G G P I I D P K V K A F I I V P I I C P F K L G A R P T V V S D E S T I K V K
UniRef90_B8KXW1 S G G G P I M N P H L D A I L V L P M F P H S L T S R P L V V P E G D D T E I K L D T
UniRef90_UPI000373C9D4 S C G G P V I I P N A K N F V I T P I I A P H N L T A R P L V I P D D D T E I K L D T
UniRef90_E0S1Q2 S A G G P I V E P S G S M I L V T P I I C P H T I N A R S M V L A A D T K I S V
UniRef90_D5VSS5 S A G G P I V H D N S V S C F I L T P I I C P F K L S S R P L V V P G S Q N K E I S E E
UniRef90_UPI000395A1E7 S V G G P I V V P S C W V M A P I I A P H M L S S N R P S V I P D T Q K E I S E E
UniRef90_E8W4D9 S A G G P V V W P E V E A L L M V P I I S A H A L F A K P L V T S P D S V L A V E E
UniRef90_UPI0003B63898 S A G G P I L W P S G L E A L L L V P L S A H A L F A R P L V V P G A D S S E I A V E E
UniRef90_UPI000368E053 S A G G P I L S P S L N A L L V L P L N P H T L S A R P L V I P A D S S E I E I K R
UniRef90_R8AN93 S A G G P I L T P N L D A I T L V P M F P H T L S A R P L V I P D S N S H I E I R R
UniRef90_G0IX55 S C G G P I L S P S L A K N F V L T P V S P H N L N V R P I V V P S D D S E I S F R
UniRef90_UPI000469A836 S S G G P I L H P S L D L I A L V T P V S P H T L S N R P I V V P G P D A V E I L
UniRef90_UPI00036A902E S C G G P V I L P G V Q S L V I T P I I A P H N L S A R P L V I P S D D T I V I K
UniRef90_L8D8E7 S G G G P I L T P E L N A M A L V P M F P H T L S S R P L V V P D A D K T V T L A R
UniRef90_D8Q9Q7 S A G G P I V H P S L S A I V L T P I I C P H S L S F R P L V V P A S S T V T L A R
UniRef90_UPI00046981D7 S C G G P I L T P D V K S L V I T P I I A P H N L N A R P L V V P S D D S T E I V L R
UniRef90_R5FFY4 S A G G P I V S P D V S A M V L N P I I C A H S L H A R P V V V P S D D S S E V E I L
UniRef90_A6EFC3 S C G G P I I F P S S Q N F V I T P I I A P H N L N V R P I V I P S D D S S E V E I L
UniRef90_C3XMU8 S A G G A V V Y P F S K N I L T P I I C A H S L T Q R P L I L P D S F E I A I E

UniRef90_A6D2V8 V I S P D N N I V S C D D G G Q Q S N I V S V P A G G C R E I H I T V R Y Q S P N R L K L I I H H P K D Y Y H Y V
UniRef90_K2CG01 I L S P N N N I V S C D D G G Q Q S N I V S V P A G G C R E I H I T V R Y Q S P N R L K L I I H H P K D Y Y H Y V
UniRef90_U3AYV5 L A P D A R N V S C D D G G Q Q S N I V S V P A G G C R E I H I T V R Y Q S P N R L K L I I H H P K D Y Y H Y V
UniRef90_C4ZKG1 P H H A L L A T V D G G R E N S V F D L G G D D E Q I I I K K S P Q Q V L C T F V R R L R P F Y F A T Q
UniRef90_A9WJ8 R H H A L L A T V D G G R E N S V F D L G G D D E Q I I I K K S P Q Q V L C T F V R R L R P F Y F A T Q
UniRef90_UPI000362FF7E V G D D G N V S C D D G G Q Q S N I V S V P A G G C R E I H I T V R Y Q S P N R L K L I I H H P K D Y Y H Y V
UniRef90_I0AP69 A D D I K V N S C D D G G R E S F P P P M E I I I K K S P Q Q V L C T F V R R L R P F Y F A T Q
UniRef90_UPI00047D861D A E G A L L T S V D G G R R A V E L G D E I R C H H K S P Y T V N L V R L N D F F E F A
UniRef90_UPI000379492F V S S R L I V S C D D S R R K I E V A G S T F L S L K K G T H F P V I R L A R L N D F F E F A
UniRef90_X4R7D7 S D N A V V S W C D D G R R K I E V A G S T F L S L K K G T H F P V I R L A R L N D F F E F A
UniRef90_R7LSG7 S Q K Y I V S A D G G Q N I F T F S D D L I T I E K K S E N C A N L A R L N D F F S S V
UniRef90_D9RRB0 S H N F L A A V D G G R E K L S Q E G V T I E V I K K A P H K V R I L V K V R P R F F S T
UniRef90_H8MKF9 L K D T Y L T L D G G R H S L Q G G D D E Q I I I K K S P N R V G L V R N P R F F S T
UniRef90_UPI00025591C0 V D Q F L A S L D S R T T I D V E T E L I T V T K A D F T A K L V K N H A F I N T
UniRef90_W5L766 R N N A W V S F D G G R K R I G H G D S R T T Q T S C E K T P V P S I Q C F R S F P V L E N D
UniRef90_R5CCS3 P M E A E A Y F D G N E R V I G L G D R F V I T T Q Q S E K T T R L I I Q C L R S F L E T
UniRef90_B4S665 V E E F P L N C D G H V S L L P G E T I I V R K S E Q I I N L V I K N R R Y C E I
UniRef90_E6SRW2 S H S F L V A S L D G R E S C R E R T R L H I T V R K R A D Y S I K V I K D H V F F D T T
UniRef90_C6Y2Z2 V E K F L V S C D G R E T V D R S V K I R S N K A K F H V N L I R R L E S D D Q L S D R
UniRef90_D6WXV3 V S R S W V S F D G R N R Q E L G D S L R V T T S Y P V P S I C A Q D D Q L S D R
UniRef90_A1SJK0 V G A G V L W C D G R R T S V D L G A R V I E V R R S G A K S P V R L V R L H P Y F Y D R T
UniRef90_E7RTX9 I R N A R L N C D M Q S S L Q L G A R V V L H R R S A D S S R F L H P Y Y A T
UniRef90_UPI00046AB4C7 V Q E I G L S L D G Q I G Y Q L E D K I K I R R A P Y S T K L I K D R S S F F D V
UniRef90_UPI00037D6D97 S R A N V S C D S H L V L P P G D E I R V K K S K K K T L S L R P N Y S F F N V
UniRef90_UPI0003B526C8 P M T A L S S C D S G T L H T G D K I R V K K S K K K T L L R L R P N Y S F F D V
UniRef90_C5CYY6 L R D A S A N F D M Q S S L A I G D R S V V R R K S D F R V R F L H P R S S Y F D T
UniRef90_N8YMN4 I R E P M V S A D G G R H S V S V L H I R R R A P F K L I L L V K P S Y D Y F M A
UniRef90_D5EUB7 S H N F L A A V D G G R E K L S Q E G T R I V L V L R R A P Y D I K V V K D P H R Y F N T
UniRef90_U5T3G9 V Q H A H V S C D S Q S D L K L E G R L D I V T Y P H A L R V V H P H R Y F D I
UniRef90_UPI000405A07B V E S H L V S L D S R A A V A N G K E I R K A R P Y T T V K M I E Y E S F L A K T
UniRef90_G2J962 I R E M N V N F D T Q T A Q L Q L K D V V E V R S R S R Y T V P F L H P H S H Y A T
UniRef90_Q319M2 P E R L V M V V D G N A Y V W P E D R V L I R R K A K H S V K F I R L H E S F F Q V
UniRef90_A4CPU3 V Q Q H L L S L D S R T S L D N G T E I T V R R A P F T L R M V E Y E S F F K T
UniRef90_B8FN99 L A D V T L T F D G Q A S G L K L N E H I T I R Q K A P V P T I M I K V Q S Y F F D V
UniRef90_S3CN29 L R D A T A Y F D M Q E F V E P G D M L R I Q T S E R V M E I L H P Y D Y D L
UniRef90_W5MGF2 L E S P A W V S F D G R K R Q E L G D S I T T S C F P V P S I C F R D P V N D
UniRef90_U2CLE7 L E S I F L T V D G Q E S Q E L D D R I T V S M S K D I C K L I K L R D Y F D R
UniRef90_UPI00035FC3B8 V L E G I L W C D G R R S L P P G A R V V V R R S S E R P V R L A R L H P F T D R
UniRef90_S0FR20 P E D I V L T L D G G R E K F F N D D R I L F V I S K S P N A V Q M I E P D S Y K V
UniRef90_UPI0003616503 S H N F L A A I D G R E K L D E D C T K L R I K A P Y C V K I V K L K N S Y F S
UniRef90_W019R4 I R N V I L A I D G Q T Y L S P E V E I T I K K S P R K T K F V R F S R
UniRef90_B1Y3N9 I R E P S V S N F D M Q S S L L H G D R R I S V Q V K K S A H R V R F L H P P N Y Y A T
UniRef90_N1ZQL6 V E D F L V S T D G Q C S M S L K R R V R C R A N E K T Y L T A P R D Y F R D V
UniRef90_B5YJT4 V R D I F L T I D G Q I G L P L K D R V R C R A N E K T Y L T A P R D Y F R D V
UniRef90_B8GEC2 L E P A H L V S L D G R R T I D L G D S Q A T R E R S Q E P A Q F I A D N S D Q S K
UniRef90_F4P7J1 V E K A W V S F D G R R T V I D L G D S I R V C A S P Y A V P T V C W R S D Q S I D
UniRef90_A6H1D1 V E N Y L V S L D S R A S V K N E D I L T I K K T P F K I N M I E I P E F L K T
UniRef90_R5I7D1 C E K G L A S F D G D S E I P Q M G D R I V I R K A E V K T R I L K L N S F V E V
UniRef90_Q2KW92 L T A A S A H F D M Q T W L I P L G D R I T V V Q R A P H T A R L V H P Y
UniRef90_D3BQF5 V S E A W V S F D G R Q E I K Q G D S V I R T Y S K W A V P P D E S N E
UniRef90_V2T5R7 A R E P M V S A D G Q P S V S L N D S L H I R I Q K H P F K L N L L H P Y D Y F M A
UniRef90_W7QGW4 V P N R S V T C D G G H V T L P P L N D D E I R I R Q K H P D L K L L L H P K N F F R T
UniRef90_D1XW83 S H N F L A A I D G R V M K E G T T L T I R K A P Y K V K I L L K P K N F F R T
UniRef90_L8JF08 V S P T N V S C D G Q S V S P G D E I T Y I S R S A P D H L Q L L I H P Y S Y S V
UniRef90_H1Z5Y6 V N Q F L L S V N D G S T A V N N E T E V T I S K A P F T I N L I H P Y S Y F I K T
UniRef90_B6J7V3 I S P P Y V S N D G G Q E R V S P G G N V Y T R K Y H Y P L H L I H P Y N Y Y G T
UniRef90_UPI0002FBCFB6 C E K G L A S F D G D T T I P M G D C I T I R R A D A K T R I L K L N S F V E V
UniRef90_UPI000403FE34 S H S F L A A I D G R E R V D M E G T V T I A K A P F R I R I V H N H R Y F S T
UniRef90_H9UKY6 V D E P I L T V D G Q T V S L G D R V C V R K A A A T V G I L R S R S F Y D V
UniRef90_R7RSD5 V D R I Q L T A D G Q E V G Y E L G D L V K I K R A A L N C L N L I K N R S F Y D I
UniRef90_V4HHM9 L S S L Q V S C D S H V L A E L G D E V I K K A A Q K L R L I H P Y S Y Y H I V
UniRef90_H5XSL5 I E K C M V T F D G R H S I V L G D S V I K T A P I S A L L I R L R S S F P Q V
UniRef90_A4SZS2 V L E V I V N F D M Q S Q T S L G D D K I E V R Q S D K T I A L L I H P H S D Y Q K T
UniRef90_R5GCC7 V E E A I I S F D G R E S Q L S L G D Q V K I Y Q S Q E V T P F I K A T S F V Q I
UniRef90_Q0VQV5 I T R P L V S C D G T E R L Q V D D V I A I R K K P H R L H L I H P H D F Y Q A
UniRef90_B1XM83 S H R L V M V V D G N A Y V L P E D Q V H I E R S P Y N A R K M I R L H E F F R L
UniRef90_G2EFW3 V D N F L V S L D S R T T L S N E T T L I I K K A P F T I K M I E L E S F L K D T
UniRef90_UPI00040548EF V S Q Y L V S L D S R A T V D N E T T L I I K K T S F K I N M V E L E S D D F L K T
UniRef90_A5ULK6 L K T A V F V M D G Q E E A E Y G E E I R F K K S D K H V Y F I R N S N Y F A K S
UniRef90_R5PXE4 S H N F L A A V D G R E T L T E G T S I T I E K A P F V T N L V K R H N Y F A S
UniRef90_N6UQW0 V S P S W V S F D G R C R Q E L G D S L R V T T S I Y P V P S I C A Q D D Q I S D
UniRef90_UPI0003C36451 V S P S W V S F D G R N R Q E L G D S L R V T T S I Y P V P S I C A Q D D Q I S D
UniRef90_UPI00047D9469 V E N H L V S L D S R A S L E N G Q E I T I K K A P F T I K M I E Y E S F L K S T
UniRef90_U6ECH9 L K K G V A V I D G Q E E I N Y M D E I V F R K S D N C A Y F V R L K D F Y R K
UniRef90_B8KXW1 V V H P V T C D G Q V S L F N G D A S V T I R K K D K P L T L L H P Y S F Y A S
UniRef90_UPI000373C9D4 I S K Y L I S F D G S R E T L F N K V A S V T I R K A D F S L K M I R L E S F L E N T
UniRef90_E0S1Q2 I R E A V A Y F D G S G Q I D M G D R I E I E R S D K T K I I R L N S F L E V
UniRef90_D5VSS5 L N R A L A V T D G E E E I K K G E R I E I E K S D G Y S Y F V K G K D Y Y E K
UniRef90_UPI000395A1E7 V R D V A A N F D M Q S S I L R G R K I L V R R G A P H K A R F L V K R P R N Y Y A T
UniRef90_E8W4D9 V Q H G V L W C D G R R T V E L G A R V I E V R R G A V P V R L A R L H S F T D R
UniRef90_UPI0003B63898 L T S A V I W C D G R T L P P G A R V I V R K S D V P V R L A R L H P F F T D R
UniRef90_UPI000368E053 Q I N A L V T C D G H I E K V L S D K I V I K K E P K P I R I L H P P F F Y I
UniRef90_R8AN93 T S T L E I S C D S Q I A L P I G D E V V I R K S P H R L R L I H P Y N Y F N I
UniRef90_G0IX55 S E K F L V S L D S R S A L D A S V I E L K V K K E L F V A K L V K F H F F D T
UniRef90_UPI000469A836 M H R A R V H S D S H S H Y D L R D K V V V R R S P H I V T L L H D H S Y Y R M
UniRef90_UPI00036A902E V E N H L V S L D S R A T I E N G K E I T I K K A P F K I K M I T S E S F L E T
UniRef90_L8D8E7 L S S L Q V S C D S H V V L A E L G D E V I R K A S D K R L R L I H P S S
UniRef90_D8Q9Q7 I S H A S V S C D S R E V T L E P G E S V T V Q K A S P F V P C I N P Y S
UniRef90_UPI00046981D7 V D Q Y L V S L D S R T S I Q N E S V L T I K K T P F K I N M V E I Q E F L K T
UniRef90_R5FFY4 G S A A S L V L D G R S I V Q N G T D V I K K S T G S A K F I K L T D F F D K
UniRef90_A6EFC3 V E K F L V S C D S R E T V D R S V K I T L N K A G F H V R L E S Y F K T
UniRef90_C3XMU8 L G E A N I V T I D G Q E S L K F G E K I T I C A K N E G V R L I H S P N Y F K I

UniRef90_A6D2V8	L R N K L	
UniRef90_K2CG01	L R S K L	H
UniRef90_U3AYV5	L R E K L	
UniRef90_C4ZKG1	L R Q K L	H
UniRef90_A9WIJ8	L V A R L	R
UniRef90_UPI000362FF7E	C R S K L	
UniRef90_I0AP69	L R T K L	
UniRef90_UPI00047D861D	L R T K L	
UniRef90_UPI0003F9492F	L R K K L	
UniRef90_X4R7D7	L V R K F	H
UniRef90_R7LSG7	L R N K L	H
UniRef90_D9RRB0	L R E K L	
UniRef90_H8MKF9	L R Q K L	H
UniRef90_UPI00025591C0	L R D K L	
UniRef90_W5L766	W F E S L	
UniRef90_R5CCS3	L H R K L	
UniRef90_B4S665	L R S K L	
UniRef90_E6SRW2	L R N K M	
UniRef90_C6Y2Z2	L R N K L	
UniRef90_D6WXV3	W F D S L	
UniRef90_A1SJK0	L V A K	
UniRef90_E7RTX9	L R T K L	
UniRef90_UPI00046AB4C7	I K N K F	H Q
UniRef90_UPI00037D6D97	L R N K L	
UniRef90_UPI0003B526C8	I S K K	
UniRef90_C5CYY6	L R K K L	H
UniRef90_N8YMN4	C R T K L	
UniRef90_D5EUB7	L R E K M	
UniRef90_U5T3G9	L R A K L	H
UniRef90_UPI000405A07B	L R N K L	
UniRef90_G2J962	L R N K L	
UniRef90_Q319M2	L R N K L	
UniRef90_A4CPU3	I R K K L	
UniRef90_B8FN99	L K T K L	R
UniRef90_S3CN29	L R R K L	K
UniRef90_W5MGF2	W F E S L	
UniRef90_U2CLE7	L R R K L	T S
UniRef90_UPI00035FC3B8	L V R K F	H
UniRef90_S0FR20	L K T R L	H
UniRef90_UPI0003616503	L H E K M	
UniRef90_W019R4		
UniRef90_B1Y3N9	L R R K L	H
UniRef90_N1ZQL6	L R E K L	
UniRef90_B5YJT4	L R E K L	R
UniRef90_B8GEC2	V E Q K L	R N L
UniRef90_F4P7J1	W F H G L	
UniRef90_A6H1D1	L R N K L	
UniRef90_R5I7D1	L R Q K M	R
UniRef90_Q2KW92	L R R K L	H
UniRef90_D3BQF5	W F E K L	A N
UniRef90_V2T5R7	C R T K L	
UniRef90_W7QGW4	L R R K L	
UniRef90_D1XW83	L R E K L	
UniRef90_L8JF08	L R G K L	
UniRef90_H1Z5Y6	L R N K L	
UniRef90_B6J7V3	L R R K L	
UniRef90_UPI0002FBCFB6	L R R K M	R
UniRef90_UPI000403FE34	L R S K L	
UniRef90_H9UKY6	L R S K L	
UniRef90_R7RSD5	L R N K L	K
UniRef90_V4HHM9	L R E K L	
UniRef90_H5XSL5	V R E K L	R
UniRef90_A4SZS2	L R E K L	H
UniRef90_R5GCC7	L K E K L	
UniRef90_Q0VQV5	C R S K L	
UniRef90_B1XM83	L R E K L	
UniRef90_G2EFW3	L R K K L	
UniRef90_UPI00040548EF	L R N K L	
UniRef90_A5ULK6	V K D K L	
UniRef90_R5PXE4	L R E K M	
UniRef90_N6UQW0	W F D S L	
UniRef90_UPI0003C36451	W F D S L	
UniRef90_UPI00047D9469	L R N K L	
UniRef90_U6ECH9	V R E K L	
UniRef90_B8KXW1	C R D K L	R
UniRef90_UPI000373C9D4	L R N K L	
UniRef90_E0S1Q2	L G K K	
UniRef90_D5VSS5	L K E	
UniRef90_UPI000395A1E7	L R K K L	
UniRef90_E8W4D9	L V A K	
UniRef90_UPI0003B63898	L V N K F	Q
UniRef90_UPI000368E053	L R N K L	
UniRef90_R8AN93	L S S K L	
UniRef90_G0IX55	L R Q K L	
UniRef90_UPI000469A836	L R E K L	
UniRef90_UPI00036A902E	I R N K L	
UniRef90_L8D8E7	L R Q K L	
UniRef90_D8Q9Q7		
UniRef90_UPI00046981D7	L R N K L	
UniRef90_R5FFY4	L I E K L	
UniRef90_A6EFC3	L R N K L	
UniRef90_C3XMU8	L R E K F	H

UniRef90_Q0TPE0 1 MR I G I I I N K E K D K E K V K E Y L N P D E I K V Q F Y K G D Y K D L M A L 40
UniRef90_I2ETC5 MK I A I H G R K F S Y I Q Q V F D G L Q Q H K I D I Q V S D T S P D E I F D A
UniRef90_UPI0004709415 A H I A V E E E F L V S L E E R K M L Q D L T L Y R L G D E K S L A E G A
UniRef90_W7IGD0 K V Y L Y Y N D K E I A Q E L Y E K S L P F F Q E K G I E I M T K E R E N E A
UniRef90_E5BH65 K V Y L Y Y N D K E I A Q E L Y E K S L P F F Q E K G I E I M T K E R E N E A
UniRef90_W9BG70 DD M R A L G I D I E V V D P D E R A A E G C
UniRef90_H1YYC1 MR F G I V S R P D E Y A R E F G A F I S G R G H Q V I F E R K T A D A L S D T
UniRef90_UPI00041F1B3F E L L Q D I
UniRef90_F7B670 N D I
UniRef90_D9PL17 E D T A A A V G A N G Y T V A S Y G T I G E R A
UniRef90_R6KP83 K F Y I I T N S D K D T G Q I V E Y L K A N G R K Y H Y T N P A L I P E D T
UniRef90_B9K824 MK I A I L Y R E E K E K E L L K E K L S R E H E V V S F H E A S A S N V V D A
UniRef90_A1AXV1 I G I I T K P N D S V S E L S E F L S T Q G V G V V F D D K S I A Q Q A
UniRef90_UPI00037E644 E V V D V S A G A A E G C
UniRef90_E8NEQ6 I D E V
UniRef90_W6JZ25 G H D L V S I G D G D R P A E G C
UniRef90_UPI00036C45DD E K W D V K A Y F Q S L Y N A D L E D A
UniRef90_E1X270 V S F L E K E E G R I L N I F K K L P K S V S F I S E D E I N K L
UniRef90_E1YA20 K A E E K A N E L E K W L I S K K V E V I R K E Y L P N P M F S
UniRef90_UPI0003A8F2E0 A N E N N L E V H L A D R L K S I D I D S D V S Y F S T K N P D V
UniRef90_F9YSR6 MK I A I Y A Q Q Y S E S Q K L L A A L K S K L N H L K S F A H F S D L D A S F
UniRef90_A8UR52 R V A L F V K D S E E A K E I A E F L K S K G H T V K L L N R P L N L K G Y
UniRef90_UPI0003702FAA K V G I I Y N D I K V A N E L Q A Q F S Q K G C E V L M A S S P T D F D D S I
UniRef90_F8AD64 K I L L I T K K G S L P K K L K E T L K A H G I D I V E E F K P E Y Q N Q I
UniRef90_UPI00031AC050 MK I G V Y G R Q G P Y V Q Q V F D C L V T C G V E V V I Y H E D F Y D F L K D V
UniRef90_F8WSX5 I A L V P R H N E P I R R L A R M L A D E G V R V L I E T E S A D I G K V A
UniRef90_R5HHE3 M K Y G I C Y N P N A Y V K E L Y D L L S N G I N A D I L N I D N L K S G Y
UniRef90_C0C3S7 R F Y I V T N D G K D P E K V K R L L E N G G K T C I L C E K D E Q V D D I
UniRef90_K9SAP8 K V G I I Y N D V K T A E E L H S K L I D Q G W E V C L A T G P P G F D E E I
UniRef90_Q8KG83 MK F A I F V N T T R E A R E L T A W L D A R S I D Y V F W E K A D L S H C
UniRef90_UPI00026C7DDA N E S L Y R L V D F L E K Q K V Q V Y Q D I D T A D M G E N
UniRef90_F8JXW8 L P A S V D V V Q P R P D V V D G C
UniRef90_UPI000474A0C8 E H G V E C V D H R F G D I
UniRef90_K1QPB8 K I A L V S R N N K V M K T A E A I F E R N G C A T V T L A L P P N D V K D C
UniRef90_L8XY70 G D K R F T K I Q D K L I T F K D G R D D L T D K I
UniRef90_A0A023ES97 K L K P N V A G F F Y G P D D L P V
UniRef90_UPI000237CC7D R I G L F I R K D D A V V Q V C K F L E S Q S V R L Y T N E P L S D F P E H C
UniRef90_M7NUE0 P A H L S E A V C
UniRef90_V4ZHB9 E T L L D A C
UniRef90_A1WX34 M K F Y I I A N L D K E Y V Q I K A Y L E A K G A E C L L H H T P A Q V P E D T
UniRef90_R5F046 R Q L R Y W T A E M C N K S P E L F
UniRef90_F4RHN9 R S L G L K I E C N I L D E E T L P T A
UniRef90_T1CNI7 K V R I L A Q S D M E A I D A H P S L A R L E R V A H T K E A A K G C
UniRef90_UPI00037246B8 R R A L V V R H S G R P E A L E R A L R D A D V E P V T A S Q D T E E L P P F
UniRef90_D5UDZ7 K E T S E N T G V T E Y S T A T T A E I G S Q A
UniRef90_I3UEM2 R V A I A I N P N K V A I K V R E K L Y K H F N N I E I I M L N S Y D I T N Y
UniRef90_R9BTK5 F C I V T N K S K D T N Y I R D Y L V S H G K C D I A E S L S D I P E D A
UniRef90_UPI00047EA5BA M K V L I F V K D S E T S R K I E E F L K G K G I S T E V F N R C R L N L K D K
UniRef90_D3DFE9 R F F I I T N N Q K D V D K I R Q Y L E H H G R T C Q I Y T N P D K I P D D T
UniRef90_R5BU52 S L A E L G E R A
UniRef90_K2JK26 R S L Q K L G I P Y D L L I S D K S Q L T E M
UniRef90_UPI00044166DD V L I V N K T G S Q S V K L H K Y F E A R Q P E V K V L H E D V H D A E P I
UniRef90_B4MCM9 D D A L L N E D V Q F R A I R D K L V T F K D G R D D L T D R L
UniRef90_W5WNQ6 A E K V A G R F A S A G I R L R V V E E E A D L D P A
UniRef90_H9KHD6 R F Q E V R D R L Q T F R D G T D D L Q D I
UniRef90_D9VPR2 V R V L E H E A R D L P P E V E L V P E T P K V L D G C
UniRef90_Q67NC1 K Y A L V I N E D K P M E E I L Q R L E A S G A A V L L H P A A G R L G R P
UniRef90_W6MQI9 P E L F
UniRef90_U9VSJ6 K V G I I Y N D V K V T Q E L T A K L E A Y G C Q V A T A T G P K E F D D S M
UniRef90_G3J77 P E T F
UniRef90_F2BCA9 R I G I V T R P E E T L H T L A A F L L A Q G L E V F I V T D K D N I G R E C
UniRef90_K9ZBH2 K A G I I Y N D S R V A I E L K D Q L T A A G W D V C V T T N P P G F D S D M
UniRef90_W0EE74 Q L T H W F R S Q G W E V L I E W N E I T S G V
UniRef90_B8F6D7 I A I V G K P R H D I A A V Y N W L K D R K Y N V L V E E N I A E I G K W A
UniRef90_E3JA84 R M L A D E A E L L G L T V N T V P R D D E A A V G V
UniRef90_G9PLC3 L R A H G V E P V G P E C T A H V
UniRef90_H8KP52 MK I A L Y G R Q F S N V Q E I I D S L V Q H G V D I L I Y K E F K E F I E H V
UniRef90_R5IBR0 MR I A V F G N K S A Q A R R L F D T L D R Y D A E I L V C E D I S D R R F E A
UniRef90_B1WQX1 P N F D Q D M
UniRef90_UPI0002882387 E S H F Y Q L L K H T N V L S Q D Y Q T F G Q K V D L P S D T
UniRef90_U3U9C6 W L T S K G Y K V L T I E Q Q I A R E L N I K Y A K T G S L A S I G K S A
UniRef90_R6HE85 G Y S K K A E S L A Q M
UniRef90_F7XMA6 MK V D I L V S P D T A K P L G L K N Y K I V P I K N M R D L G A
UniRef90_C0BM23 E T S L H A L L S P L G T F S S Q E E V P K E T
UniRef90_E6W522 V G I I G K P K Q E V S E L I A F L E S Q G I R Y D L D E D T A Q L V N E V
UniRef90_M4VAG5 K V A I V Y R L H K M S K K L A A R L K S K R F K V F T A P E S S N D L K E M
UniRef90_Q6LX63 F G I I S R D N E E S I E V A D Y L D S K G I K Y E L D S S T Y N A L K N C
UniRef90_N1UZ41 E A E H C R Q I Y G D L A A P V E I L G E G V S L E D I
UniRef90_C0N2P6 E F P Q H C
UniRef90_E4RV86 MK F A I H G R P R E E I Q N I F H A L D Q R G I F Y Q I S D T F S N L K D L
UniRef90_A1BJI4 MK F G I V I N T S R E A R E L M A W L T E H G Q D Y V F D T E S A E L N K Q C
UniRef90_UPI0003698224 E N F T V L E H K E F V K K V
UniRef90_UPI000368F505 MK I G I H S R T F E E S K D L S K F L R Q K L D E I H H V F N S S Q E L Q P S
UniRef90_K1X1Y7 K V G I L Y N D A K A A A E L K D K L T N L G W D V F V A T G P P E F D R D M
UniRef90_A3LQ02 P E K F
UniRef90_H1PWY0 K V C I I Y N F E K K I K E S I E Y F N K R N I E V V A G D R S T E A
UniRef90_E1VUS0 I E D V
UniRef90_Q5QXM6 N L P E E V E T L S L P D L G E W A
UniRef90_R7GXT4 D V E V F D G D D F D A
UniRef90_F0WPG0 S V H A E L K L K G T E T W V C E Q W S E Y E R L I
UniRef90_K9PS47 P P G F D S D M

UniRef90_Q0TPE0
UniRef90_I2ETC5
UniRef90_UPI0004709415
UniRef90_W7IGD0
UniRef90_E5BH65
UniRef90_W9BG70
UniRef90_H1YYC1
UniRef90_UPI00041F1B3F
UniRef90_F7B670
UniRef90_D9PL17
UniRef90_R6KP83
UniRef90_B9K824
UniRef90_A1AXV1
UniRef90_UPI00037E6444
UniRef90_E8NEQ6
UniRef90_W6JZ25
UniRef90_UPI00036C45DD
UniRef90_E1X270
UniRef90_E1YA20
UniRef90_UPI0003A8F2E0
UniRef90_F9YSR6
UniRef90_A8UR52
UniRef90_UPI0003702FAA
UniRef90_F8AD64
UniRef90_UPI00031AC050
UniRef90_F8WSX5
UniRef90_R5HHE3
UniRef90_C0C3S7
UniRef90_K9SAP8
UniRef90_Q8KG83
UniRef90_UPI00026C7DDA
UniRef90_F8JXW8
UniRef90_UPI000474A0C8
UniRef90_K1QPB8
UniRef90_L8XY70
UniRef90_A0A023ES97
UniRef90_UPI000237CC7D
UniRef90_M7NUE0
UniRef90_V4ZHB9
UniRef90_A1WX34
UniRef90_R5F046
UniRef90_F4RHN9
UniRef90_T1CNI7
UniRef90_UPI00037246B8
UniRef90_D5UDZ7
UniRef90_I3UEM2
UniRef90_R9BTK5
UniRef90_UPI00047EA5BA
UniRef90_D3DFE9
UniRef90_R5BU52
UniRef90_K2JK26
UniRef90_R7ZT18
UniRef90_UPI00044166DD
UniRef90_B4MCM9
UniRef90_W5WNQ6
UniRef90_H9KHD6
UniRef90_D9VPR2
UniRef90_Q67NC1
UniRef90_W6MQI9
UniRef90_U9VSJ6
UniRef90_G3JJ77
UniRef90_F2BCA9
UniRef90_K9ZBH2
UniRef90_W0EE74
UniRef90_B8F6D7
UniRef90_E3JA84
UniRef90_G9PLC3
UniRef90_H8KP52
UniRef90_R5IBR0
UniRef90_B1WQX1
UniRef90_UPI0002882387
UniRef90_U3U9C6
UniRef90_R6HE85
UniRef90_F7XMA6
UniRef90_C0BM23
UniRef90_E6W522
UniRef90_M4VAG5
UniRef90_Q6LX63
UniRef90_N1UZ41
UniRef90_C0N2P6
UniRef90_E4RV86
UniRef90_A1BJI4
UniRef90_UPI0003698224
UniRef90_UPI000368F505
UniRef90_K1X1Y7
UniRef90_A3LQ02
UniRef90_H1PWY0
UniRef90_E1VUS0
UniRef90_Q5QXM6
UniRef90_R7GXT4
UniRef90_F0WPG0
UniRef90_K9PS47

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

UniRef90_Q0TPE0 R G T L S R M A Q Y E V F I N D E F L Y A T F K G D G V I I S T P V G S T A Y S F
UniRef90_I2ETC5 K T D T S S M I V V H A Y I N G E F L A N T Y W A D G L M V A T A T G S T T A Y S L
UniRef90_UPI0004709415 R R E T G R S M I V V E M T H I N G E D R S Y L A S D F Y A A D G L V L V A P P T S G S T T A Y S L
UniRef90_W7IGD0 K S S R E R L L D V M E I T H V D D G D S F V N S H Y K G D G L I I A T P T G S T T A Y S L
UniRef90_E5BH65 R S V V K N M V K L K V F E S D D G S F V N S H Y K G D G L I I A T P T G S T T A Y S L
UniRef90_W9BG70 K G R P R L G V L G V V L E V D V D G D S F V N S H Y K G D G L I I A T P T G S T T A Y S L
UniRef90_H1YYC1 T S R P A K L L L E F T I N V V D D G H V P A E S S F R A D D G V L I A T P T G S T T A Y S L
UniRef90_UPI00041F1B3F K G N R E R M L E V V T E V D G R P L S S F G C D G V V M A T P T G S T T A Y S L
UniRef90_F7B670 R G Q S Q Y L C N I D L F L E D D G R R I T S V Q Q R A D D G L I I A T P T G S T T A Y S L
UniRef90_D9PL17 K G D L G R M L E I D L V K V L D D G E L I H V L R A D D G L I I A T P T G S T T A Y S L
UniRef90_R6KP83 R D G H L R V V R F K N Y V N D V Y L N S Y F A D G L I I A T P T G S T T A Y S L
UniRef90_B9K824 R D L S G K M V E F E V N V H H K S M N W F F A D G L I I A T P T G S T T A Y S L
UniRef90_A1AXV1 R K E H L K M V E F D V N V D D K F S V N N Q R A D D G L I I A T P T G S T T A Y S L
UniRef90_UPI00037E6444 K S A R E R M L E M V V E V D D G R P L S S R W G G D G V I V A A T P T G S T T A Y S L
UniRef90_E8NEQ6 K A S R E R M L E V V M A V I D D G R P L S S F G C D G V V I A T P T G S T T A Y S L
UniRef90_W6JZ25 K A S R E R M L E L T V M A V I D D G R P L S T W G C D G V V M A T P T G S T T A Y S L
UniRef90_UPI00036C45DD K T E R S S L L K V H A Y I G G E Y L T T Y W A D G L I I A T P T G S T T A Y S L
UniRef90_E1X270 K N N I S R M F T L S V Y E C D G E L I F N V S G D G L I I A T P T G S T T A Y S L
UniRef90_E1YA20 K G T L A R M L A H I L S Q T Y I N D D H Y L T T Y R A D D G L I I A T P T G S T T A Y S L
UniRef90_UPI0003A8F2E0 N E T S F R V T S L S L F I L D D Q H V L S D Y K S D G L I I A T P T G S T T A Y S L
UniRef90_F9YSR6 R K N T T S M L T I D T W L N G E F L T S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_A8UR52 K S A I A R L M E L V F A D D D N F M V H I Y G D G V I V S T P T G S T T A Y S L
UniRef90_UPI0003702FAA R E P L T S M C H F E V Q I G Q H A A V D I A A D G V I V S T P T G S T T A Y S L
UniRef90_F8AD64 K G P L G L M I H I K V D C D G K E L L S V Y H G D G L I I A T P T G S T T A Y S L
UniRef90_UPI00031AC050 K R D T S A M I L I H C Y C G E F L N S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_F8WSX5 R G S T G A M L E F E V F I D N R K F V V S Q R S D G L I I A T P T G S T T A Y S L
UniRef90_R5HHE3 G C S A G R T S R L L K I N N G E P V Y C A D G L I I A T P T G S T T A Y S L
UniRef90_C0C3S7 R K E L R V T I H F K L Y V N G E L N A Y E A D G V I I A T P T G S T T A Y S L
UniRef90_K9SAP8 R E P L T S M C H F E I G I G R H A P V D I A A D G L I I A T P T G S T T A Y S L
UniRef90_Q8K83 E K G S R R L P A F T L N D D E M L G S Y R A D G L I I A T P T G S T T A Y S L
UniRef90_UPI00026C7DDA R G K E T H L I E F S V Y V L N K Q L V S H Y R A D D G M I I A T P T G S T T A Y S L
UniRef90_F8JXW8 K A A R E R M L E V V T E V D G R P V S S G F G G D G V V C A T P T G S T T A Y S L
UniRef90_UPI000474A0C8 K R D R A R M L E L A I G V D D G Q A V S S F G C D G L I I A T P T G S T T A Y S L
UniRef90_K1QP8 R G Q S P Y L C N I D L Y V E G K L V T T V Q G D G L I I A T P T G S T T A Y S L
UniRef90_L8XY70 Q R S I S R M I E L D V F V D D K Y L T S Y W A D G V I I A T P T G S T T A Y S L
UniRef90_A0A023ES97 R G L S S Y L S N I D L F L D D G K H I T S V Q Q R A D G L I I A T P T G S T T A Y S L
UniRef90_UPI000237CC7D K Q D S S S M I T H V Y L N N E F L N S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_M7NUE0 A H Q R L Q M I E F E T Y L N G R F L N S Q R A D G L I I A T P T G S T T A Y S L
UniRef90_V4ZHB9 R G F S S R L C S L D V Y C D G C F F T T V A A D G L I I A T P T G S T T A Y S L
UniRef90_A1WX34 R W N T A R M I E L V T R I L N D G E P L S D H R S A D G L I I A T P T G S T T A Y S L
UniRef90_R5F046 R K D P L K V L R Y S V Y V N D E Y L N E Y A A D G V L V A T P T G S T T A Y S L
UniRef90_F4RHN9 R G P S P Y I S L L E L F G D D H M L T V Q A D G L I I A T P T G S T T A Y S L
UniRef90_T1CNI7 K R E T G S I I T I D T Y I G D D D Y L A A Y D A D G L I I A T P T G S T T A Y S L
UniRef90_UPI00037246B8 N L N R R G V L D A T L E V D D F R P V L S T F G C D G L I I A T P T G S T T A Y S L
UniRef90_D5UDZ7 K T D P A R M I E V V I E V D G R P L S S F G C D G L I I A T P T G S T T A Y S L
UniRef90_I3UEM2 R A S R G M I E L V E Y N E T L M Y R Q R A D D G L I I A T P T G S T T A Y S L
UniRef90_R9BTK5 R G T L S R M V K F Q I F I D G K K Y S F K G D G L I I A T P T G S T T A Y S L
UniRef90_UPI00047EA5BA S R Y S R A L I N F D L V N D D F L C N Y H A D G I I I A T P T G S T T A Y S L
UniRef90_D3DFE9 K S T I A R M L E L D A Y A G K D F M M R V Y G D G I I I A T P T G S T T A Y S L
UniRef90_R5BU52 R E G R L R V L K F I N Y V N G E Y L N V Y N A D G V I V S T P T G S T T A Y S L
UniRef90_K2JK26 S D K V A H M I E F E V Y D D G A Y F L N S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_R7ZT18 K R D T S S M I T V H T Y I D D G A Y F L N S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_UPI00044166DD R S A H P G L N I V D I F V D G Q H L T E A V A D G L I I A T P T G S T T A Y S L
UniRef90_B4MCM9 R G P S P Y L S N I D L F L D D G K Y I T S V Q Q R A D G L I I A T P T G S T T A Y S L
UniRef90_W5WMN9 K S S R E R I L D V M E V D D S R P V S A F G C D G V L C A T P T G S T T A Y S L
UniRef90_H9KHD6 R G P S P Y L S N I D L F I D G K H V T S V Q Q R A D G L I I A T P T G S T T A Y S L
UniRef90_D9VPR2 K V S A E R M L E V V L E I D G E R P V T G F G C D G L I I A T P T G S T T A Y S L
UniRef90_Q67NC1 K G P R A R M V H L E V S V G T V V A R Y R A D G V I V A T P T G S T T A Y S L
UniRef90_W6MQ19 R G P S P W V S M L E L Y G D N S L L T V A Q A D G L I I A T P T G S T T A Y S L
UniRef90_U9VSJ6 R E P L T S M C H F E V T G D G H A P V D I A A D G L I I A T P T G S T T A Y S L
UniRef90_G3JJ77 R G P S P Y V S N L F E I Y G D G H A L P T V Q A D G C I F S T P T G S T T A Y S L
UniRef90_F2BCA9 R G G A G Q M I E F E T F I N Q E F V Y T Q R S D G L I I A T P T G S T T A Y S L
UniRef90_K9ZBH2 R E P L T S M C H F E I G I G H H A A V D I A A D G V I V S T P T G S T T A Y S L
UniRef90_W0EE74 R G S L E G L V T L Q A N I S G G E P S V S Y P A D G L I I A T P T G S T T A Y S L
UniRef90_B8F6D7 S S Q I A R T I D F E V S I D G K F A F S Q R S D G L I I A T P T G S T T A Y S L
UniRef90_E3JA84 K A E R A K M L E C V L G I D D G R P L S R W G C C D G V I C A T P T G S T T A Y S L
UniRef90_G9PLC3 K R D R A R M L E V A I G V I D G Q A V S S F G C D G L I I A T P T G S T T A Y S L
UniRef90_H8KP52 K R D T S P M I I H T Y L N G E F L N S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_R5IBR0 K R D T S S M I S H T D M D G A F L N T Y Q A D G L I I A T P T G S T T A Y S L
UniRef90_B1WQX1 R E P L T S M C H F E I K I G R H A S V D I A A D G L I I A T P T G S T T A Y S L
UniRef90_UPI0002882387 R K N T T S M I T V D T Y L D N E F L A S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_U3U9C6 P G K V A H M L D F E V Y I D E V F A F S Q R S D G L I I A T P T G S T T A Y S L
UniRef90_R6HE85 K G H I S K L A H L E L K I N G K H S G I Y A A D G L I I A T P T G S T T A Y S L
UniRef90_F7XMA6 T A R P A K I L T F K I M V D E E C E M E E L R A D G V V F A T P T G S T T A Y S L
UniRef90_C0BM23 R K D T A M I T V A T Y L N D D G E Y L T S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_E6W522 K G A I A R I E L E L F V L N D Q F V T R Y R S D G L I I A T P T G S T T A Y S L
UniRef90_M4VAG5 R G S F S Q L I S T A L Y F D K S L V N H I K A D G I I I S S P T G S T T A Y S L
UniRef90_Q6LX63 T K N P A K M M H F E V Y D D G L V E D V R A D G V I I A T P T G S T T A Y S L
UniRef90_N1UZ41 K A D R Q R M I E V V V E V D A L P I S T F G C D G V V M A T P T G S T T A Y S L
UniRef90_C0N2P6 A H Q N L H M I E F E T H I N G K F L N S Q R A D G L I I A T P T G S T T A Y S L
UniRef90_E4RV86 K T D T S S M I V T H A Y I D G E F L N S Y W A D G L M V A T P T G S T T A Y S L
UniRef90_A1BJ14 K G T Y P R I P T F V I K L D D G E L L G S Y R A D G I I A T P T G S T T A Y S L
UniRef90_UPI0003698224 S G A Y A Q L M R Y R L N V N D K V V Y E Q R S D G L I I A T P T G S T T A Y S L
UniRef90_UPI000368F505 K R D T S S M I I V H T Y I D G E Y L N S Y W A D G L I I A T P T G S T T A Y S L
UniRef90_K1X1Y7 R E P M T S M C H F E I E L G R H A P V D I A A D G V I I A T P T G S T T A Y S L
UniRef90_A3LQ02 R G P S P Y V T Q L E L Y G D G S L L T I A Q A D G L I I A T P T G S T T A Y S L
UniRef90_H1PWY0 K G I T S K V L R V K F S S D N E Y M C T F G C D G V I I A T P T G S T T A Y S L
UniRef90_E1VUS0 K A N R E R M V E V F I E V D G R P I S T F G C D G V V M A T P T G S T T A Y S L
UniRef90_Q5QXM6 S D K V A H M I E F E L Y V N D H F V F S Q R S D G L I I A T P T G S T T A Y S L
UniRef90_R7GXT4 K R D N A S M I S I R T S I D D S F L V T Y Q A D G L I I A T P T G S T T A Y S L
UniRef90_F0WPG0 R G H N A G L E L V C F C D D G L E I T K I A A D G I I A T P T G S T T A Y S L
UniRef90_K9PS47 R E P L T C M C H F E I A T I G R H A P V D I A A D G V I V S T P T G S T T A Y S L

UniRef90_Q0TPE0 S A G G P L I M P D L Q L V S I V P I 170 C P H T P N S R P M I V D G N S K V R L K
UniRef90_I2ETC5 S C G G P L V M P H S A N F I I T P I V A N H S L F V R P P M I V I S D D D S A T R V I S L K
UniRef90_UPI0004709415 S V N G P I V A P L C P V L L L V P I V A N H S L F M R R P P M I V I S D D D S A T R V I S L K
UniRef90_W7IGD0 S A G G P I V W P D V Q P L D V C A M L V V P I S N A H A M L F M R R P P M I V I S D D D S A T R V I S L K
UniRef90_E5BH65 S A G G P I V G V P M K V Y I L T P I A N A P H A L L F N T R P P L V M T S D G G S S P L V I A I E E E
UniRef90_W9BG70 S A G G P I V D P D L E A C L L V V P N N A H A L L F N T R P P L V M T S D G G S S P L V I A I E E E
UniRef90_H1YYC1 S A G G P I V D P L I E A C F L V V P I A N A P H A L L F N T R P P L V M T S D G G S S P L V I A I E E E
UniRef90_UPI00041F1B3F S A G G P V V W P E V E A L L M V P I A S A H A L L F S A K P P L V V A P T S D A R K L A K F V E E T
UniRef90_F7B670 A A G A S M V H P S N V P A I M V T P I L C P H S L F S A F R R P I T V S P A D S E L K D V T A E E
UniRef90_D9PL17 S A N G P I L H P S V P G I A I V P I L C P H S L F S N R R P I T V S P A D S E L K D V T A E E
UniRef90_R6KP83 S C G G P I V A P N G S M T L M T P I A P H T L F L N T R S I T I F P A S S E D L I V T V T A E E
UniRef90_B9K824 S I G G P I L F P P E C E V L E I S P I A P Q F L L T R S V V L P P P A S S E D L I V T V T A E E
UniRef90_A1AXV1 S S G G P I M H P G V N A I L G L V S I L C P H T F M S H R P L L M P P G N S D S E I V I V I E E Q
UniRef90_UPI00037E6444 S A G G P I V W P E L E A M L V V P L S A H A L L F A R P P L V V S P P R D S S V V A I E E E
UniRef90_E8NEQ6 S A G G P V V W P T V E A L A V V P L S A H A L L F A R P P L V V S P P R D S S V V A I E E E
UniRef90_W6JZ25 S A G G P V V W P D V D A M L V V P I S A H A L L F A R P P L V V S P P R D S S V V A I E E E
UniRef90_UPI00036C45DD S C G G P I V S P S S D N L I I T P I V S P H N L L N M R P L L L P G D D V K I R A V L K K
UniRef90_E1X270 A A G G P I T H P D V V N A L L I T P I L C P H S L L N H R P L L V I P D D T N K S E I K L V K K
UniRef90_E1YA20 A A G G P V I H P S V P A I I M T P I L C P H S L L N R R P L L V I P D D T N K S E I K L V K K
UniRef90_UPI0003A8F2E0 S S G G P V I Q P D V F S L V I T P I A P H S L L T S R R P L L V L P P S D N T S E I V E F R T
UniRef90_F9YSR6 S C G G P V I T P Q A Q N F V L T P I A P H N L L N A R P L L V I P P S D D N T S E I V E F R T
UniRef90_A8UR52 S A G G P I I Y P D S E N I L F V P I L C P H T L N A R P L V V L P S D D N T S E I V E F R T
UniRef90_UPI0003702FAA S A G G P V V T P G V P V L Q L V P I L C P H S L L S A R A L V F S D A D E P L V L T K T
UniRef90_F8AD64 S A G G P I V H P Q S D N F I T P I L C P F M L N A R P I V I L P S A D E N K E L S T A K E R
UniRef90_UPI00031AC050 S C G G P I V F P Q S G N F V I T P I V S P H N L N A R P I V I L P S A D E N K E L S T A K E R
UniRef90_F8WSX5 A S G G P I M H P S L P A L A L V P I L C P Q S L L S N R P I V I L N D T D E D V E F F S E
UniRef90_R5HHE3 S A G G P V I V P D L N A F I I T P I L C C S H T L A R S I V L P S A D E N E E I V I S E
UniRef90_C0C3S7 S A G G P V I E P T A S M I V I T P I L C C S H A L L N T R S I V L P S A D E N E E I V I S E
UniRef90_K9SAP8 S A G G P V V T P G V S V L Q L V P I L C C P H S L L A S R A L V F S D D D Q E V V Q I F S
UniRef90_Q8KG83 S A G G P I L A P K S N V F V I T P I L C C P H M L T V R P I V I L P S D D D Q E V V Q I F S
UniRef90_UPI00026C7DDA S A G G P I M H P Q L N A I V L V P I M F S H S L S R P L V L I D G E A Q I E L V H
UniRef90_F8JXW8 S A G G P V V W P E V E A L L M V P I S A H A L L F A K P P L V T S P S N S Q I L A V E V
UniRef90_UPI000474A0C8 S I G G P I L H P P E V E A L L L T P M A A H A L L F F T R P P L V V V A P A G V C L K I V M
UniRef90_K1QP8 S A A G A S M V H P S N V P A I I V I T P I L C P H S L S F R P V V V V P A T N L K E I K V A S
UniRef90_L8XY70 S S G G P L V Y P S L S A V L V V P I S P H T F S H R P I V V L P A T N L K E I K V A S
UniRef90_A0A023ES97 A A G A S M I H P S P A I I V I T P I L C P H S L T F R P I V V L P A G V E L K I V A S
UniRef90_UPI000237CC7D S V I G P I M H P S S Q A I I T P I A P H T L T V R P L V L P A D D M E L M L K M
UniRef90_M7NUE0 S A G G P I L D V D L D A I V L T P I V C P H T L S N R P L V L A A S S Q I D I M
UniRef90_V4ZHB9 S A G G P M V H P K V P C L L F T P I V C C P H S L S F R P L L V L A A S S V V L E I V
UniRef90_A1WX34 A G G G P I V H P N L H A M L L V P V C C P H T L S N R R P L V L D G S S R I V E I K
UniRef90_R5F046 S A G G P I V A P G A R M M V L T P I L C C S H S L L N A R S L V L A P E S D R V R I K
UniRef90_F4RHN9 S A G G S L V H P P E V P A L L I T P I L C P H T L S F R P M L L P E S D I D L C
UniRef90_T1CNI7 S V N G P L I M P H S Q D F V L S P I L A P H T L L N M R P L V V P E S N T I S M R
UniRef90_UPI00037246B8 S A G G P V M W P E L D A L L V V P N N A H A L L F T K P L V V S P P D S T I V A V E E
UniRef90_D5UDZ7 S A G G P V L W P D V R G T V L V P L A A H T L F A R P L V M G P D L T E V A G R V
UniRef90_I3UEM2 S A S G P L L H P A V N A F L L V P L V A P Q T L S N R P I A M V G P D L T E V A G R V
UniRef90_R9BTK5 S A G G P F I Y P D V D V I A L T P I L C P H P K G M Q T I L L N S S S E V E V R
UniRef90_UPI00047EA5BA S A G G P I V E P S A D M I L T P I L C C P H T L L N S R S M V L P S G N T K I R I V
UniRef90_D3DFE9 S A G G P I V Y P S E N L L F V P I L C P H T L L N S R P L V L P S G N T K I R I V
UniRef90_R5BU52 S A G G P I V S P S A S M M I M T P L A P H T L L N S R S V V F S P G D V L C V E R
UniRef90_K2JK26 S G G G P I L T P N L D A I T L V P M F P H T L L S R P V V L D G D D T E I S L F R
UniRef90_R7ZT18 S C G G P L I S P S A K N F V I T P V S P H N L N V R P M V V S D D D T E I S L F R
UniRef90_UPI00044166DD S A G G P L L H P T M E A I L T P I V C C P R S L S F R P L V F P A S A S I T L R S
UniRef90_B4MCM9 A A G A S M I H P P V P A I M V T P I S N A H S L F S F R P L V V S P A G V E L A F E
UniRef90_V5WVQ6 S A G G P V V W P D V Q A L L V V P S N A H A L L F S R P F V V S P A G V E L A F E
UniRef90_H9KHD6 A A G A S M I H P S V P A I M I T P I C P H S L F S F R P I V V S P A G V E L K I S
UniRef90_D9VPR2 S A G G P V V W P E V E A L L M V P I S A H A L L F A K P P L V V S P A G V E L K I S
UniRef90_Q67NC1 S A G G P V V E P T V D C L L V T P I S A H A L L F A R S I V V T S G A D V A L A I E R
UniRef90_W6MQI9 S A G G S L V H P S V S A I S V T P I L C C P H T L S F R P I L L P D S M V L K V K S
UniRef90_U9VSJ6 S A G G P V I T P G V P V L Q L T P I L C C P H S L L A A R G L V F P S A E L V T Q V E
UniRef90_G3JJ77 S A G G S L V H P D I P A I L L T P I L C C P H S L L A F R P M V L S D T M D L Q V E
UniRef90_F2BCA9 A A G G P I L Q A S L R A F T L V P I L C C P Q S M T N R P I A V A A D T C E I D I K
UniRef90_K9ZBH2 S A G G P V I T P G V P V L Q L T P I L C C P H S L L A S R A L V F P S D S E P V I N I Y
UniRef90_W0EE74 S A G G P I V S P D V Q A I L L T P L A A H S L S A R P M V V S D D K E T I S M R
UniRef90_B8F6D7 S A G G P I L T P N L N A I A L V P M N P H S L S S R P L V V D G D S T I S M R
UniRef90_E3JA84 S V I G G P V L W P G V D A L L V A P I S A H A L L F A R P L V L A P T E S T M A I E
UniRef90_G9PLC3 S C G G P V I W P E V E A L L V A P I V A H A L L F T R P L V L A G P E S C M E V V
UniRef90_H8KP52 S C G G P I V F P Q S G N F V I T P I C P H N L S V R P I V I S D S S V L T F R
UniRef90_R5IBR0 S V I G G P V L V P Q A S N I V I V P V A P H S L N V R P L V V N D S S V V S Q L R T
UniRef90_B1WQX1 S A G G P V V T P D V P V L Q L A P I L C P H S L A S R S L V F S D D K E A V S I T
UniRef90_UPI0002882387 S C G G P I I E P E T G C F V L T P L A P H N L N V R P L V I R S D N L E I S I K
UniRef90_U3U9C6 S A G G S L L T P S L D A L A I V P M F P H T L S A R P L V I N S C S T I R L R
UniRef90_R6HE85 S A G G P M V H P S L D V S I I T P I C A H A L L Y T R P L V I P S G N N L I E I T
UniRef90_F7XMA6 S A G G P T I D P R V D A A V I V P L A P F K L S A R P W V V P A D S L L K I R
UniRef90_C0BM23 S C G G P V M A P G T N S L I L T P I A P H N L N A R S I V I P A D H T E I R L V
UniRef90_E6W522 A A N G P I I H P S L T N M I T P I L C P H M L N A R S I V I P A D I R V K S H
UniRef90_M4VAG5 A A G G P I L H P E V H A I V V T P V A P H S L T T R P L I F P A D N K R L V L S
UniRef90_Q6LX63 S S G G P I I E P T V E G F V L V P I C P F K L S S R P L V V A N A N S V M A I K I
UniRef90_N1UZ41 S A G G P V V W P E V E A L L M V P I S A H A L L F A K P L V V A P A N D S V M A V E
UniRef90_C0N2P6 S A G G P I L D V D L D A V V L A S V C C P H T L L S N R P L V V A A S S K I A D I T K
UniRef90_E4RV86 S C G G P I V M P L S N D F I I T P I L C C P H N L F V R P I V I V A S S K I T L L K S
UniRef90_A1BJI4 S A G G P I A P K S S V F V I T P I L C P H M L T V R P I V I N D E K Q I E V L
UniRef90_UPI0003698224 S A G G P I I H P S L D V W T I L P M L P Q S L S S R P F V I S S D E K V E V D
UniRef90_UPI000368F505 S V I G G P V V V P Q S N N F I I S P V S P H N L N V R P L V I V A D D C T I S F E
UniRef90_K1X1Y7 S A G G A V V T P G V G V L Q L T P I L C C P H S L A S R A L V A D R E V V S I S
UniRef90_A3LQ02 S A G G S L V H P G V S A I S V T P I L C C P H T L L A S F R P I L L P D G M F L K V K
UniRef90_H1PWY0 S A G G P I V K S N M K A M I I T P L A P H N L N T R P I V I S P G E S K L Q I V
UniRef90_E1VUS0 S A G G P V V W P D V A A L I M V P L S A H A L L F A K P L V I S P D E S I M A V E
UniRef90_Q5QXM6 S G G G P I L H P G L D A M T L V T M F P H T L S S R P I V V D G N S E V E R L K
UniRef90_R7GXT4 S N G G P L I V P Q T S T L C L T P V A P H S L N V R P V V I P D D S A T V I K I R
UniRef90_F0WPG0 S A G G S M T H P S V P S M L F T P I L C C P H T L S F R P L V L F P D D S A T V I K I R
UniRef90_K9PS47 S A G G P V V T P G I P A L Q L V P I L C P H S L A S R A L V F P D T E P V N I Y

UniRef90_Q0TPE0 P S D V F V T L D 210 Q K A L K L E N E V L I K K A K E F F F R L I S F K S Y F K V
UniRef90_I2ETC5 V E N F L A S M D G R A K V L D D E A T I T I K K E A N F K A K M V K R M E S D F L E S T
UniRef90_UPI0004709415 S S S F T I A I D G R R T V A S P G A R V P I V I K K Q A A H R V V P M I V K R L E H F F Y T E D R
UniRef90_W7IGD0 V H E A V L C C C D G R R T V A S P G A R V P I V I K K Q A A H R V V P M I V K R L E H F F Y T E D R
UniRef90_E5BH65 E K A Y C I I D G N R N E L D G N D R V E I V S T Y S G E E T L H L V K R L N R D S Y F T S V
UniRef90_W9BG70 V H D A M V F C D G R R T V A S P G A R V P I V I T E K S G E D P A L F I N L K N F F T A K
UniRef90_H1YYC1 P K P A D L V I D G E L I M E L G N V V T R T R S S N Q P V R L A R T H P F F S A R D
UniRef90_UPI00041F1B3F V A H G V M W C D G R R T V D L G S R I V E V T R S S N Q P V R L A R T H P F F S A R D
UniRef90_F7B670 V S D A S V S F D G Q P S L D P G G A R V V V V R R S S A E P V R L A R L H P F F S A R D
UniRef90_D9PL17 P H D A R V H F D G Q T R F D A G D I V R I V R T R S S R H H P T P C Y H C R S Y N P F A M
UniRef90_R6KP83 I G E G V A S F D G D T V I P M G D R I V I E K A A V S T K I L L K R L N S F V I E V
UniRef90_B9K824 C R E I N L L D G T M V V A G K T R R V I V Q Q K A E K S V I K I L L K R P Y D Y F A V
UniRef90_A1AXV1 V K D A I V S F D G Q T S V V A G Q D D I V V F Q Q H S S F I Y L L L H P Y D Y F F E L
UniRef90_UPI00037E6444 P G P G V L W C D G R R T I R P G G A R V I E V R R R G S E R A V R L A R L H H F T T D R
UniRef90_E8NEQ6 V G S G I L W C D G R R S L D P G G A R V V V V R R R S A E P V R L A R L H P F F T D R
UniRef90_W6JZ25 V G Q G V L W C D G R R R A V L P G G A R V E V C R R S A E P V R L A R L H P F F T D R
UniRef90_UPI00036C45DD V E D F M V S A D S R R T V S D R H E L F I S S G D F K I N V V K M H S Y F E T
UniRef90_E1X270 E S H L S L T L D G Q Q E A G D I N K G C I V K K S K M K A K I K T N N Q D Y F Q D
UniRef90_E1YA20 L E N I M L T F D G Q G V M K I N D T L V I V I K K G L T P I N M I T V N Q D Y F Q D
UniRef90_UPI0003A8F2E0 E N D L K L I V D G Q N I T N F D S T V K L L S Q A K H H L R F I E D Y Q N Y Y E T
UniRef90_F9YSR6 I K S Y Y L S M D S R E Y S V S N K V S V I L R K K A H F A V K M I E F Q D F L A T
UniRef90_A8UR52 V R A C Y L T M D G Q R E Y L D R G D V V V E V R K S R R F C I Y V H P E K F F F E I
UniRef90_UPI0003702FAA P H Q M V L V V D G N G Y V L P E D N I R V E R S H Y T A Q F I R L Q E F F F R I
UniRef90_F8AD64 A E E V H V I D G N F I L S H E D R L Q R I K K A P R T L K L V R R S R S N Y F F E L
UniRef90_UPI00031AC050 I E K Y L V S C D G R E V I L N A G T Q L R L K R A D P T D I N L V R R L S N Y L S T
UniRef90_F8WSX5 G H D A R V Y F D N Q S D C E L Q D R V M I R R Y R N T L R I L H P Y D Y Y D T
UniRef90_R5HHE3 S K E Y V I S T D G Q E F F E N A G S E T I K I K K A D Y A T K L A L L D S D F Y S L
UniRef90_C0C3S7 I E E V F V T F D G A D T I V S L G S T V T I R K K S Q A A T K L A L L D S D F L E T
UniRef90_K9SAP8 P D R L V M V V D G N A Y V M P D D R V T Q V E R S S P Y N A R F I R L Q E F F Q V
UniRef90_Q8KG83 V D E F P L K M D G K K L A P G G V V T V V K K S P H H Q I N L V L A N R N Y C E L
UniRef90_UPI00026C7DDA I S D L R V S C D G R H H E S V K P G G Q K V A I V V K Q K N G H Q L R L L H P Y H Y Y D T
UniRef90_F8JXW8 V Q H G V L W C D G R R T V P L G A R V E V V R R G A V P V R L A R L H S F T D R
UniRef90_UPI000474A0C8 I S D R A E I S C D G R R S L Q E I G S R I R V T T A G E R P V R L A R L N D D Q S R R D
UniRef90_K1QP88 V P A W V L D G R N R Q E I G D S V R I T T A Q Y P V P S V C A K N D Q M D D
UniRef90_L8XY70 L K E S V V S C D G Q V V F D F G D S L E L I S N A S K I T L V H P Y N Y F E I
UniRef90_A0A023ES97 R N S S W V S F D G R N R Q E I G D S L H V I T T S T Y P V P S I C A Q Q I A D
UniRef90_UPI000237CC7D I E K F L A S L D S R S A V E L E S T E L R I R K A A F T I N M V E R Q S F Y A T
UniRef90_M7NUE0 L S E A M V T C D G R H L L Q P G D T M R V V R H S D R I R L L H L H D H Y S I
UniRef90_V4ZHB9 A P E I W V A V D G R S R V K R G S V L V S L S A F P F P M V H P A S Y C Q D T
UniRef90_A1WX34 V H H V R V S C D S Q N T L Q A G S R L V V V R A H H P S P V R L V H P Y S F N L
UniRef90_R5F046 V L N S V V S F D G D T S M E L G D C I D I R C S E L Q T V M I K V K S F M Q N
UniRef90_F4RHN9 V S T A W A S F D G R G R I G D E H I K V R T A S A Y S I P T V C A D N S F S T D T
UniRef90_T1CNI7 S D S F L L S L D G K A S F D C L G E P I R I R K A D Y S I R L M K N H S F A D T
UniRef90_UPI00037246B8 S H P A M V M D G F R P I P P G S R C E V V R G S R P V R W V R L D D F T D R
UniRef90_D5UDZ7 P E T A V V T C D G R R Q L L Q L G T R L E V V R V S D V P V R F A R L N P F T T R
UniRef90_I3UEM2 I S T G A S V H F D M Q T W L Q L G D K I V V T K A D H Q I R L R L H P Y F F S T
UniRef90_R9BTK5 A E N G Y I T F D G Q K A I K T T S K I K I R K A K E Y A N I V D D Y D Y F K V
UniRef90_UPI00047EA5BA I G S G R A C F D G S E N V L Q M G D Q I E I E R S E K T K I L R L N S F L E V
UniRef90_D3DFE9 N L S A F L T L D G Q K A L K K G E E I I K K S K H Y C L M Y P N P K F F E I
UniRef90_R5BU52 V E Q A I V S F D G D T M L R M K D K L I I E K A N V K T R I V R L S N F V I E V
UniRef90_K2JK26 A D L L Q I S C D G H V R V H P G D D I L I R K H P R S L K L I H P Y S Y F H V
UniRef90_R7ZT18 S E K F L V S L D S R S T I D A S V A L K I K K E K F V A K L V H T H S F Y D T
UniRef90_UPI00044166DD I N N A G T F M D G Q E T L N P G D S V R T V S A S P Y P I P C I S R S S
UniRef90_B4MCM9 V S P S W V S F D G R N R Q E H L G T S L R E V T T S T Y P V P S I C A Q Q D F S D
UniRef90_W5WNV6 I H P A V L C C C D G R R T V H L L G T R L E V A G S T T P V K L V R L R P F S D R
UniRef90_H9KHD6 V S P S W V S F D G R N R Q E L G D S L K E V T T S T Y P V P S I C A A D Q T T D R
UniRef90_D9VPR2 V Q N G T L W C D G R R T L E L G D S L K E V R R R G T V P V R L A R L H S F T D R
UniRef90_Q67NC1 V G E V G L S A D G S D P F P L G D V V R V R G R A P Y T A R L V R L Y R F Y D
UniRef90_W6MQI9 V S T A W A S F D G R S R V E L G Y Y V T I A A S P F P F P T V R S S K Y F D S
UniRef90_U9VSJ6 P D P L V M V V D G N A Y V A P G D R V C I Q Q A K F S A K F I R L K D F F K V
UniRef90_G3JJ77 V P R A Y C A F D G K G R V E L G D R V K I S A S R Y P F T V T S N S W F K S
UniRef90_F2BCA9 A G D A R A H F D G Q S Y I D I G D I L R I R R Y R H N L R V L H P Y S Y Y T T
UniRef90_K9ZBH2 P R L V M V V D G N G Y V L P E D R V Y L E R S P Y S A K F I R L Q S F F R I
UniRef90_W0EE74 G K E C Q M T F D G R E N L S L G E M V Q I R T A P L K A L L I R L R S F P R V
UniRef90_B8F6D7 Q P N L V T S C D S Q R L L P P D E R I L V Q K S P D K L R L L H L K D Y F N V
UniRef90_E3JA84 V L E A V L Y C C D G R R A V P P H A R V E A A R G K R P V R L V H P R A F T D R
UniRef90_G9PLC3 I Q R A E I W C D G R R S V P V G A R I R V S R A R A R V R L A R F N P F A S R
UniRef90_H8KP52 I E Q F L V S L D S R E T V D T N V V L T A K K E N F S I N L I R L Y N Y L T T
UniRef90_R5IBR0 S H N F L L S L D G R S V M S L S Q H L T I R K K A T Y A L R F I K R Y N H F D T
UniRef90_B1WQX1 P N R M V L V V D G N G Y V L P E D R I H V E K S S Y T A R F I R L E F F R I
UniRef90_UPI0002882387 V S K F L V S L D T T K T I A N E T E I I S K A P F T I D L V E F Q S F F K T
UniRef90_U3U9C6 N T D L E V N C D G Q V S I Q Q G E D V I R R S N D N L T L I R P Y N S Y Y E L
UniRef90_R6HE85 A E E L L L S A D S G E I T V A Q E D D I R I E K N P E V R L I R L R S Y Y E T
UniRef90_F7XMA6 L K K A A I V T D G Q Y T Y S I N D V V T L T E A K N P A R F V K S S S F Y E K
UniRef90_C0BM23 V Q Q H L V S L D S R A S I D N G T E L V I K K A P Y T L K M V T S E S F L K T
UniRef90_E6W522 S S D V M L T L D G Q V G V L G D D I H I A K S D A V I R M I T K K N S Y A
UniRef90_M4VAG5 L D K A Y L I V D G Q K V L E L E D E V T I T R D K V D H Y M I R R H N F F D L
UniRef90_Q6LX63 L K S T Y V I D G N T E F E K G D E I L R K S E S N A Y F V K G D N F Y
UniRef90_N1UZ41 V A N G V L W C D G R R S L D L G S R V E V T R S E K P V R L A R T R P F A E R
UniRef90_C0N2P6 L S E G M V T C D G R H L L Q P G D T V T I E R H Q S Q I R L L H L H D H Y S I
UniRef90_E4RV86 V E N Y L V S M D S R A R I V G D E I T V S L E T Q F K A K L K L D S F L S T
UniRef90_A1BJI4 I D E F L N G D G H L R L A P Q E T V T V K K S Q Q V I N L V E N R D Y C E I
UniRef90_UPI0003698224 L E N A K I C V I D G Q D D I D I G E K I L I S K M E K T L K L V H P N D F F E A
UniRef90_UPI000368F505 I E N F L L S L D S R S R K V N E S I K V E R S P D F K A N L L K L K N F L N T
UniRef90_K1X1Y7 P N Q L V M V V D G N G Y V L P E Y H V R V E R S P P F A R F I R L K P F F Q
UniRef90_A3LQ02 V P D A W A S F D G K V R T E L G D Y V T I Q A S P F P F P T V
UniRef90_H1PWY0 M E D G Q I V V D G Q V N T K V N S E I D I E Y S N M T L N L V K D R N P Y S E V
UniRef90_E1VUS0 M L T A V L W C D G R R T I E L G A R V E V T R S D R P V Y M A R L H P Y S E R
UniRef90_Q5QXM6 A D L L Q I S C D G H V R V H P G D D V I K K Y P K A L R M I H P H N Y Y H V
UniRef90_R7GXT4 S H N F L V A V D G R S T M H E G T T V S I Q K A P F S T L I M K P R N Y F S S
UniRef90_F0WPG0 A S A Y V S F D G R V R L E R G D A V V V R V S A F P V P S I C R K N E N H D
UniRef90_K9PS47 P P R L V M V V D G N G Y V F P D D R V H L E R S Q Y S A R F I R L Q P F F R I

UniRef90_Q0TPE0	L R K K L
UniRef90_I2ETC5	L R N K L K
UniRef90_UPI0004709415	L R T K L
UniRef90_W7IGD0	L V D K
UniRef90_E5BH65	I R E K L K
UniRef90_W9BG70	L V R K F R
UniRef90_H1YYC1	V D S K L K S V
UniRef90_UPI00041F1B3F	L V N K
UniRef90_F7B670	W F D S L
UniRef90_D9PL17	L R E K L H
UniRef90_R6KP83	L R Q K M R
UniRef90_B9K824	I R E K L
UniRef90_A1AXV1	I R S K L H
UniRef90_UPI00037E6444	L V A K
UniRef90_E8NEQ6	L V R K F R
UniRef90_W6JZ25	L V E K
UniRef90_UPI00036C45DD	L R N K L
UniRef90_E1X270	L K E K L
UniRef90_E1YA20	L K T K L R
UniRef90_UPI0003A8F2E0	L K N K M
UniRef90_F9YSR6	L R N K L
UniRef90_A8UR52	L R R K L R
UniRef90_UPI0003702FAA	L R E K L
UniRef90_F8AD64	L R I K L
UniRef90_UPI00031AC050	L R N K L
UniRef90_F8WSX5	L R L K L H
UniRef90_R5HHE3	L R D K L
UniRef90_C0C3S7	L R R K M K
UniRef90_K9SAP8	L R E K L
UniRef90_Q8KG83	L R K K L
UniRef90_UPI00026C7DDA	L R S K L
UniRef90_F8JXW8	L V A K
UniRef90_UPI000474A0C8	L V R K
UniRef90_K1QPB8	W F E S L
UniRef90_L8XY70	L R A K L
UniRef90_A0A023ES97	W F D S L
UniRef90_UPI000237CC7D	L R N K L
UniRef90_M7NUE0	L R A K L
UniRef90_V4ZHB9	W L E S L K
UniRef90_A1WX34	L R A K L
UniRef90_R5F046	L S N H L
UniRef90_F4RHN9	W F
UniRef90_T1CNI7	L R K K L
UniRef90_UPI00037246B8	L V R K L R
UniRef90_D5UDZ7	L V Q K
UniRef90_I3UEM2	L R Q K L H
UniRef90_R9BTK5	L R S K L
UniRef90_UPI00047EA5BA	L G K K
UniRef90_D3DFE9	L K E K L R
UniRef90_R5BU52	L R K K M R N
UniRef90_K2JK26	L R N K L
UniRef90_R7ZT18	L R Q K L
UniRef90_UPI00044166DD	
UniRef90_B4MCM9	W F A S L
UniRef90_W5WVQ6	L V D K
UniRef90_H9KHD6	W F D S L
UniRef90_D9VPR2	L V A K
UniRef90_Q67NC1	L R Q K L
UniRef90_W6MQI9	V S R V L
UniRef90_U9VSJ6	L R E K L
UniRef90_G3JJ77	V S S T L R
UniRef90_F2BCA9	L R Q K L H
UniRef90_K9ZBH2	L R E K L
UniRef90_W0EE74	V R E K L R
UniRef90_B8F6D7	L G S K L
UniRef90_E3JA84	L V A K F H
UniRef90_G9PLC3	L V R K
UniRef90_H8KP52	L R N K L
UniRef90_R5IBR0	L R N K L
UniRef90_B1WQX1	L R E K L
UniRef90_UPI0002882387	L R N K L
UniRef90_U3U9C6	L S S K L
UniRef90_R6HE85	W Q Q K L
UniRef90_F7XMA6	V Q D K L
UniRef90_C0BM23	L R K K L
UniRef90_E6W522	L K E K M K
UniRef90_M4VAG5	L K E K L K
UniRef90_Q6LX63	N K L K K L
UniRef90_N1UZ41	L V R K
UniRef90_C0N2P6	L R A K L
UniRef90_E4RV86	L R N K L K
UniRef90_A1BJI4	L R T K L
UniRef90_UPI0003698224	L R E K L
UniRef90_UPI000368F505	L R K K L H
UniRef90_K1X1Y7	L R E K L
UniRef90_A3LQ02	
UniRef90_H1PWY0	L R E K L K
UniRef90_E1VUS0	L V N K
UniRef90_Q5QXM6	L R N K L
UniRef90_R7GXT4	L R E K M
UniRef90_F0WPG0	W F D S V
UniRef90_K9PS47	L R E K L

UniRef90_R5EI33
UniRef90_U5DN11
UniRef90_UPI00035FC338
UniRef90_G3NPD1
UniRef90_UPI0003653934
UniRef90_UPI000415B6AB
UniRef90_Q2U8I4
UniRef90_D3ILL1
UniRef90_I7IX91
UniRef90_D8SCM8
UniRef90_C1ASY3
UniRef90_J0LLB8
UniRef90_Q3B189
UniRef90_R6HAG2
UniRef90_UPI00041A1AE7
UniRef90_Q2FQ95
UniRef90_UPI0004668432
UniRef90_Q7VKR8
UniRef90_D4MXR1
UniRef90_Q0V025
UniRef90_E4N3M9
UniRef90_UPI0003B61036
UniRef90_K9RUE0
UniRef90_M4ER25
UniRef90_V2Y414
UniRef90_UPI0004220BA3
UniRef90_M7MTA4
UniRef90_UPI00046F8EE0
UniRef90_D5BFN4
UniRef90_UPI0004794656
UniRef90_L7L7L6
UniRef90_H6RWE7
UniRef90_R7KTD5
UniRef90_A9SGX5
UniRef90_A0A059ABP0
UniRef90_K1X4D7
UniRef90_R6MJD9
UniRef90_L8N446
UniRef90_UPI0004150FC2
UniRef90_U2N6H4
UniRef90_Y0KJ63
UniRef90_G2J3G0
UniRef90_UPI00037BB8A8
UniRef90_W9YLK6
UniRef90_Q8NQM1
UniRef90_UPI00035D9DFC
UniRef90_S8DRS8
UniRef90_D1AMH8
UniRef90_E3B799
UniRef90_UPI0004120AE1
UniRef90_S6FMK5
UniRef90_UPI00035CC7C5
UniRef90_R5WVK5
UniRef90_UPI000403996F
UniRef90_UPI000376214B
UniRef90_C7NHB3
UniRef90_E4T8F0
UniRef90_UPI000371E909
UniRef90_R5CZ19
UniRef90_R7I443
UniRef90_H0J3G6
UniRef90_C5EH26
UniRef90_UPI00040F07B4
UniRef90_UPI0002192636
UniRef90_F9Z9E3
UniRef90_C6VXG7
UniRef90_B0D8Y1
UniRef90_K8E0G1
UniRef90_K9TG90
UniRef90_E3D9D2
UniRef90_K9W2E7
UniRef90_E6L9K5
UniRef90_L0FA61
UniRef90_U2GPT3
UniRef90_K2RTU2
UniRef90_C6VXR2
UniRef90_C9R869
UniRef90_K9WLLK4
UniRef90_UPI00037A5A8F
UniRef90_R6QLQ7
UniRef90_A4FKB4
UniRef90_UPI000415D206
UniRef90_C5F268
UniRef90_F4HJA6
UniRef90_A1ZP29
UniRef90_F0Y5E5
UniRef90_V8G3Q8
UniRef90_K7S4A1
UniRef90_W5Y1A3
UniRef90_C4LIF0
UniRef90_Q11PL9
UniRef90_J0UZJ1

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

UniRef90_R5EI33 D C V I A L G G D G T I L K V S R D L R H N I P I V L G V N L G G H L M G F F L L A T E I V Y
UniRef90_U5DN11 D F A I V L G G D G T V L A A F R Q T A G P C I P L L L T G V L N N T L G G H L M G F F L L A T E I V Y
UniRef90_UPI00035FC338 D L L I V I G G D G T L L S T A S R L V T A G G T P V L L L T G V L N N T L G G H L M G F F L L A T E I V Y
UniRef90_G3NPD1 D F L I C L G G D G T L L Y A S R L V T A G G T P V L L L T G V L N N T L G G H L M G F F L L A T E I V Y
UniRef90_UPI0003653934 E C V I V L G G D G T L L H A A R D V D Q R Q I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI000415B6AB D V L V S I G G D G T L L D T V T Y F V G Q E V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q2U8I4 D L V L T L G G D G T V L F T S W L F Q R V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_D3LL1 Q L A L S L G G D G T F L K A A R L I G Q K Q I P I V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_I7IX91 E L I V L V L G G D G T F L R A A D L L A H D D L P P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_D8SCM8 D F V V C L G G D G T V L R A A S N L F R S V P P I V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C1ASY3 E M V L V L G G D G T F L R A A E L L A Q A S I P P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_J0LLB8 E L V V V L G G D G T L L R A V E L V K G Q V P P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q3B189 D A F I S L G G D G T L L R A S Q H V S V T K P V V V L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R6HAG2 D M L V C F G G D G T I L H A S K A T R S N V P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI00041A1AE7 D L A I V V G G D G T L L S A A R L R V K F N I P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q2FQ95 D L V I V I G G D G T I L L T T Q R M P V Q V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI0004668432 D C I I T L G G D G T L I Q A A R L A G R N I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q7VKR8 D L V I V I G G D G T M L G M A R L L A K Y Q V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_D4MXR1 E C V I V L G G D G T M L H A A R L L V D H D I P M V G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q0W025 D L V L I F G G D G T M L R S L Q L L P K P T P I M G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_E4N3M9 E L I L V A G G D G T L L R G A E L L A R E G L P P M L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI0003B61036 E I V V V L G G D G T L L R A A E L L H C N V P P L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K9RUE0 K F A L V L G G D G T V L S A F R Q L A P C I P I L L L T L N T L G G H L M G F F L L A T E I V Y
UniRef90_M4ER25 D L V L T L G G D G T V L W A A S M F G P V P P I V V L P F S M G S T L L G G F F L L A T E I V Y
UniRef90_V2Y414 D C V M V F G G D G T I L Q S A R E L A K G V P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI0004220BA3 D L F F S I G G D G T I L K S I N Y I R N N I P I V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_M7MTA4 D L G V V L G G D G S V L R A G A E L V R D D V P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI00046F8EE0 D V A I V L G G D G S L L G A A R L L A S H T P I I L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_D5BFN4 D L F F T I G G D G T L L K S I N Y I K N D I P I V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI0004794656 N L I V L V L G G D G T F L S A A R Q V A P Y V P P I V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_L7L7L6 E V V L V L G G D G T F L R A A E L L Y P A Q V P P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_H6RWE7 E I V M V F G G D G T F L R A A E L L A R Y D A A L M G V L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R7KTD5 D V I T M L G G D G T V L G I A A R M A R K L P I V T V A S F S M G S T L L G G F F L L A T E I V Y
UniRef90_A9SGX5 D L V I T L G G D G T V L W A A S M F G P V P P I V V L S F S L G S S L L G G F F L L A T E I V Y
UniRef90_A0A059ABP0 D L V I T L G G D G T V L W A A S L F Q Q G V P P V V L S F S L G S S L L G G F F L L A T E I V Y
UniRef90_K1X4D7 D L V L T L G G D G T V L F T S W L F Q Q G V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R6MJD9 E Y L I V L G G D G T I L R A A E C A K R K I P I V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_L8N446 D L V V A L G G D G T V L S A C R Q I A P G L P V V L L N V N T L G G H L M G F F L L A T E I V Y
UniRef90_UPI0004150FC2 D L A I V V G G D G T M L G A A R V L A R D I S V I F G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_U2N6H4 D L L I V L G G D G T L I G A S R R L L A N G Y I P I L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Y0KJ63 D L V V V M G G D G T M L S V A R Q L P K P V P I L V G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_G2J3G0 D I V I V L G G D G T M L S I A A R L L A P Y V P I M V G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI00037BB8A8 D L V I V V G G D G T M L N A G R S L A K S I P I L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_W9YLK6 D L V L T L G G D G T V L F T S W L F Q R V P P I V L L S G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q8NQM1 E L V L V L G G D G T F L R A A D M A A V D L P P V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI00035D9DFC E L V L V L G G D G T L L R A S E L A R M G V P V V F G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_S8DRS8 D L V V T L G G D G T I L H A S S L F K M V P P V V L S F S M G S T L L G G F F L L A T E I V Y
UniRef90_D1AMH8 D L I V T F G G D G T I L A A A Q L L A K D I P V L L L A V I H M G S T L L G G F F L L A T E I V Y
UniRef90_E3B799 E L A V V L G G D G T I L R A A E L S R D C V P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI0004120AE1 E I V V V L G G D G T I L R A A E L Y C T D V P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_S6FMK5 D F M V V L G G D G T I L G V A R Q I N G D I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI00035CC7C5 D F A V V V G G D G T F L D V A R L I D Y D V P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R5WDK5 V M L S Y G G D G T F L E A V K L Y G C G V P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI000403996F D F L L S I G G D G T L L D S V C Q V G A E T P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI000376214B D L F F T I G G D G T I L S A V K F V K H I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C7NHB3 E L V V V L G G D G T L L R G A D L A R K H S V P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_E4T8F0 D I A L S I G G D G T F L N A A A R L G R K Q I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI000371E909 D L I I V V G G D G T I L N T A R T Y V D N I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R5CZ19 D L L I A F G G D G T I L H L A R T V A H S V P I V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R7I443 D V A I V L G G D G T L L G I G R R L Q Y D C P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_H0J3G6 D L V I V V G G D G S L G A A R T L R S G T P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C5EH26 E C I I T I G G D G T L I Q A A R L A G R C I P M V G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI00040F07B4 E L V V V L G G D G T L R G V E V A R A Q D V P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI0002192636 E M V V L G G D G T F L R A A D A H A Q D V P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_F9Z9E3 E L L L S V G G D G T F L D S V I Y V K D G V P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C6VXG7 D L A I V M G G D G T M L S V T A R L I D A D V P V L V L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_B0D8Y1 D F V V T L G G D G T V L F T S W L F Q R V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K8E0G1 D C I M V W G G D G T L L N C A R Q T A T G T P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K9TG90 S F A V V L G G D G T V L S A F R Q V A S C I P I L L L T G V L N N T L G G H L M G F F L L A T E I V Y
UniRef90_E3D9D2 E I V V V L G G D G T M L Q A A E L V H C T P P I I L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K9W2E7 S F A I V L G G D G T V L A A F R Q V A P C I P I L L L T G V L N N T L G G H L M G F F L L A T E I V Y
UniRef90_E6L9K5 D F V I S L G G D G T L I S L C R K Y E Y E K A P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_L0FA61 N F L I S L G G D G T L L E A S R K E A R H L P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_U2GPT3 E L V L V L G G D G T F L R A A D L A A V D V P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K2RTU2 D L V L T L G G D G T V L Y T S W L F Q R V P P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C6VXR2 R L V V S M G G D G T L L E T I S H V G R Q I P A I L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C9R869 E L L L S L G G D G T L L S T V S P L A G P G L P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K9WLK4 T F A I A L G G D G T V L A A F R Q V A P C I P I L L L T G V L N N T L G G H L M G F F L L A T E I V Y
UniRef90_UPI00037A5A8F D L A I T L G G D G T L L S V S R R Q L A C G I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_R6QLQ7 E C V I V L G G D G T L I Q A A R D L S S N V P V V F G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_A4FKB4 E L V L V L G G D G T L L R A A E L A R M Q V P I V F G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_UPI000415D206 D L F F S I G G D G T I L K S I N Y I L Q M D N I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C5F268 D A L V S I G G D G T L I S T A R R F S H Q K P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_F4HJA6 D F I L A I G G D G T L L R I E H K T K K D I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_A1ZP29 D F L F S L G G D G T L L E S V T Q V A D E I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_F0Y5E5 D F L A T I G G D G L L L Y A N A L F Q R T P P V L L A F S A G S L L G G F F L L A T E I V Y
UniRef90_V8G3Q8 D L V I V M G G D G T M L G A A R D L K Y A V P V L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_K7S4A1 D F L V T I G G D G T L I S A V R R L Y Q I P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_W5Y1A3 E L V L V L G G D G T F L R A A D L H Q A D I P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_C4LI0 F E L V L V L G G D G T F L R A A D A H A A D L P V V L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_Q11PL9 D L M L S I G G D G T L L E S A T F I G D N I P I L L L G L L N L L G G S T L L G G F F L L A T E I V Y
UniRef90_J0UZJ1 D I L V S L G G D G T L L S T V R K F G F N K P I L L S I K A G N L G F F L L A T E I V Y

UniRef90_R5EI33
UniRef90_U5DN11
UniRef90_UPI00035FC338
UniRef90_G3NPD1
UniRef90_UPI0003653934
UniRef90_UPI000415B6AB
UniRef90_Q2U8I4
UniRef90_D3ILL1
UniRef90_I7IX91
UniRef90_D8SCM8
UniRef90_C1ASY3
UniRef90_J0LLB8
UniRef90_Q3B189
UniRef90_R6HAG2
UniRef90_UPI00041A1AE7
UniRef90_Q2FQ95
UniRef90_UPI0004668432
UniRef90_Q7VKR8
UniRef90_D4MXR1
UniRef90_Q0W025
UniRef90_E4N3M9
UniRef90_UPI0003B61036
UniRef90_K9RUE0
UniRef90_M4ER25
UniRef90_V2Y414
UniRef90_UPI0004220BA3
UniRef90_M7MTA4
UniRef90_UPI00046F8EE0
UniRef90_D5BFN4
UniRef90_UPI0004794656
UniRef90_L7L7L6
UniRef90_H6RWE7
UniRef90_R7KTD5
UniRef90_A9SGX5
UniRef90_A0A059ABP0
UniRef90_K1X4D7
UniRef90_R6MJD9
UniRef90_L8N446
UniRef90_UPI0004150FC2
UniRef90_U2N6H4
UniRef90_Y0KJ63
UniRef90_G2J3G0
UniRef90_UPI00037BB8A8
UniRef90_W9YLK6
UniRef90_Q8NQM1
UniRef90_UPI00035D9DFC
UniRef90_S8DRS8
UniRef90_D1AMH8
UniRef90_E3B799
UniRef90_UPI0004120AE1
UniRef90_S6FMK5
UniRef90_UPI00035CC7C5
UniRef90_R5WDK5
UniRef90_UPI000403996F
UniRef90_UPI000376214B
UniRef90_C7NHB3
UniRef90_E4T8F0
UniRef90_UPI000371E909
UniRef90_R5CZ19
UniRef90_R7I443
UniRef90_H0J3G6
UniRef90_C5EH26
UniRef90_UPI00040F07B4
UniRef90_UPI0002192636
UniRef90_F9Z9E3
UniRef90_C6VXG7
UniRef90_B0D8Y1
UniRef90_K8E0G1
UniRef90_K9TG90
UniRef90_E3D9D2
UniRef90_K9W2E7
UniRef90_E6L9K5
UniRef90_L0FA61
UniRef90_U2GPT3
UniRef90_K2RTU2
UniRef90_C6VXR2
UniRef90_C9R869
UniRef90_K9WLLK4
UniRef90_UPI00037A5A8F
UniRef90_R6QLQ7
UniRef90_A4FKB4
UniRef90_UPI000415D206
UniRef90_C5F268
UniRef90_F4HJA6
UniRef90_A1ZP29
UniRef90_F0Y5E5
UniRef90_V8G3Q8
UniRef90_K7S4A1
UniRef90_W5Y1A3
UniRef90_C4LIF0
UniRef90_Q11PL9
UniRef90_J0UZJ1

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

UniRef90_R5EI33 R A G F S R V I G L R V Y V N G R V M D I Y E A D G V I V V S T P T G S T T G A Y N S L L
UniRef90_U5DN11 R E P M T S M C H F E V V A V N G N H A P V D I V A A D G L V I V V S T P T G S T T G A Y N S L L
UniRef90_UPI00035FC338 V L S V V R I T N E F D T T L D D G V L D V G R L R Q A D G L V I V V S T P T G S T T G A Y N S L L
UniRef90_G3NPD1 R G P S S Y R I T S N V D L F L V N D G G H L I T T V V I L R Q A D G L V I V V S T P T G S T T G A Y N S L L
UniRef90_UPI0003653934 R E G P L R V L T R V F H N F L V N D G E F L I N S Y T A D D G L I I V S T A T G S T T G A Y N S L L
UniRef90_UPI000415B6AB K R D S S S M I V V H T Y A D D N D G E F L I N S Y W A D G L V I V S T P T G S T T G A Y N S L L
UniRef90_Q2U8I4 R G P S P Y V S N L E L Y A D D N D F L T N S Y W A D G C I I V S T P T G S T T G A Y N S L L
UniRef90_D3ILL1 K R D D A S M I T L G V R V D D G R E R L T Y Q A D G C I I V S T Q A G S T T A Y N S L L
UniRef90_I7IX91 N L N R R G Y L K D A T L E Y V D D G R P V I S S F G C A D D G L I V S T P T G S T T A Y A F T
UniRef90_D8SCM8 R G S N P Y L C K I E C Y E R N R L T K V Q A D G V I I V S T P T G S T T A Y A F T
UniRef90_C1ASY3 N R S R L G V L E V V L E V D G R P V S A F G C A D D G V I I S T P T G S T T A Y A F T
UniRef90_J0LLB8 H G A N S P M I Q V G I T V D D D V A V S S F G C A D D G V I I S T P T G S T T A Y A F T
UniRef90_Q3B189 K G T Y P R I P A F V I K L D G E L L S S Y R A D G I I I A T S T G S T T A Y S F M
UniRef90_R6HAG2 K G A V A R V V R L A V Y C D Q V Q A M E F G G D G V I I A T P T G S T T A Y S L L
UniRef90_UPI00041A1AE7 S W N A A S M I E L E T S I N G N V F L S S Q R R A D G L I I V S T P T G S T T A Y A L L
UniRef90_Q2FQ95 T D R P A K M I K F L I H I N G N V A E R F R A D G L I I S T P T G S T T A Y A M L L
UniRef90_UPI0004668432 R N Q K L K V L K F K V F V N G E Y F N E Y R A D G L I I A A T P T G S T T A Y N S L L
UniRef90_Q7VKR8 P T Q V A R I I I S F E V I N D S K F A F S Q R R A D G L I I I A T P T G S T T A Y N S L L
UniRef90_D4MXR1 R S G F S R I I S F R I M V N D G K L L D V Y E A D G I I I V S T P T G S T T A Y N S L L
UniRef90_Q0W025 T S R P A K I S Q F R V Y V D G K F M E E F R A D G I V I V S T P T G S T T A Y A M L L
UniRef90_E4N3M9 K A S R E R L L E V V T E V D D G R P V S S F G C A D D G V I V S T P T G S T T A Y A F F
UniRef90_UPI0003B61036 R D E Q G R M V E V S I R I V D D V E M S S F G C A D D G V I V S T P T G S T T A Y A F F
UniRef90_K9RUE0 K E P L T G M C H F E V D V G S H E R V D I A A D G L I I V S T P T G S T T A Y A L L
UniRef90_M4ER25 R G I S S Y L T N L E C Y C D N S F V T C V Q G D G L I I V S T P T G S T T A Y N S L L
UniRef90_V2Y414 R G N L V R A I R T A V Y I N G N P M K S V Y G D G I I I V S T P T G S T T A Y N S L L
UniRef90_UPI0004220BA3 R R N T T S M I T V D T W I N D Q Q Y L T S Y W A D G L I I I A T P T G S T T G Y S L L
UniRef90_M7MTA4 K A N R E R M I E V V M E V D D G R P L S T F G C A D D G V V M A T P T G S T T A Y A F F
UniRef90_UPI00046F8EE0 A G Q V A R L I E F D L Y I D D G R Q R F V Y R Q R S D G L I I I A T P T G S T T A Y A G L L
UniRef90_D5BFN4 R K N T T S M I T V D T W L N N Q Q F V Y T S Y W A D G L I I I A T P T G S T T G Y S L L
UniRef90_UPI0004794656 R G L A G K M I E F E V I N E Q F V Y T Q R S A D G L I I S T P T G S T T A Y A L L
UniRef90_L7L7L6 N R S H N G R L E L V T E V D D G R P V S A F G A D G L I I S T P T G S T T A Y A F F
UniRef90_H6RWE7 K A E R S R V L D V T A I D D G R P L S T S F G C A D D G V I I A T P T G S T T A Y A F F
UniRef90_R7KTD5 H G R A G S M V E F N V W V D D G H F P M A T Q R A D G L I I V S T A T G S T T A Y A M L L
UniRef90_A9SGX5 R G M S S N L S N L E C Y C C D D G S E I T T V Q G D G L I I S T P S G S T T A Y S L L
UniRef90_A0A059ABP0 R G Q G G Y L T K L Q C C C D D G S E I T T V Q G D G L I I S T P S G S T T A Y S L L
UniRef90_K1X4D7 R G P S P Y V L S L E L Y S G D N E L A T V V Q A D G C I I E A T P T G S T T A Y S L L
UniRef90_R6MJD9 K V A G E K L I Y M E L S T G D G V A V N R Y T A D G L I I I A T P T G S T T A Y S I L L
UniRef90_L8N446 R E P L T S M C H F E V V Q I G R H L P V D I A A D G V I I S T P T G S T T A Y S L L
UniRef90_UPI0004150FC2 P D K I A H M L E F F V V N D N F M L N Q R A D G L I I S S P T G S T T A Y S L L
UniRef90_U2N6H4 R G T L S R M S K F T I Y V V D D D K F M T S R A D G L I I S S P T G S S A Y S F L L
UniRef90_Y0KJ63 N A L R L M E M E V E I N G Q F V S K Q R A D G L I I S S P T G T T A Y A L L
UniRef90_G2J3G0 R G A V N R S M I E F E I F V D D G R F V Y S Q R S A D G L I I V S T P T G S T T A Y S L L
UniRef90_UPI00037BB8A8 A G Q H N R L F Q M S V H I D D G R Y A F D Q R A D G M I I S T P T G S T A H A L L
UniRef90_W9YLK6 R G P S A F V S N L E L Y G D D E L L T I V Q A D G C I I I S T P T G S T T A Y S L L
UniRef90_Q8NQM1 N L N R R R G V L D A T V V D D A R P V V S F G C A D D G V L I S T P T G S T T A Y A F F
UniRef90_UPI00035D9DFC K S S R E R I L D V V V L E V D G G H P V A S T F G C A D D G V L I S T P T G S T T A Y A F F
UniRef90_S8DRS8 R G S S A H L N T I D I F V D G Q H L T E A V S D G L I I V S T P T G S T T A Y S L L
UniRef90_D1AMH8 K G G L K T L S V N V Y A N N T P L I N K S Y R A D G L I I V A T P T G S T T A Y S L L
UniRef90_E3B799 K A A R E R M L E L T V E I V D G R P L A S W G A D G V V I A T P T G S T T A Y A F F
UniRef90_UPI0004120AE1 T A D R G K M I S L A V R V D G V A M N S Y S C A D G T I I S T P T G S T T A Y A F F
UniRef90_S6FMK5 R G T L S R M V K F Q V I D D G K R Y Y T F K G D G L I I V G T P T G S T T A Y S F L L
UniRef90_UPI00035CC7C5 K N D S P R M I E F E T F I D G R F L N S Q R S D G L I I A T P T G S T T A Y A L L
UniRef90_R5WDK5 H R T E I N M T Y V D V F V D D G E K L T T Y R G D G V L L S T P T G S T T A Y S L L
UniRef90_UPI000403996F K R D T S S M I T V H T Y V D D G E F L N S Y W A D G L I I V A T P T G S T T G Y S L L
UniRef90_UPI000376214B R K E T T S M I T I E T W L D D G K Y L N S Y W S D G I I I S T P T G S T T G Y S L L
UniRef90_C7NHB3 K G S R E R M V E L A L E V D G R P L A T W G C A D G I I I A T P T G S T T A Y A F F
UniRef90_E4T8F0 K Q D S S M M S L T A S V V D G E K V H T Y H A D G L I I S T P T G S T T A Y S M L L
UniRef90_UPI000371E909 R N A T P R M I E F E L Y V N D D F V N N Q R A D G I I I T T P T G S T T A Y A L L
UniRef90_R5CZ19 K G S I A R V V R L N I F T E E G Q L T K V G G D G I I I A S T P T G S T T G Y S M L L
UniRef90_R7I443 H G K L G G M V E Y T I F V I N D G Q L Q M S S Q Q A D G I I Y A T T T G S T T A Y A L L
UniRef90_H0J3G6 P G K A V R M V E F T I Y V I N D G Q F V Y S Q R S A D G L I I I A T P T G S T T A Y A L L
UniRef90_C5EH26 R Q D P L K V L R Y S V Y V N D E Y L N E Y A A D G V L I V A T P T G S T T A Y N S L L
UniRef90_UPI00040F07B4 K G N R E R M L D V M I W I D D G E P L S S F G C A D D G V L I S T P T G S T T A Y S F F
UniRef90_UPI0002192636 N L N R Q G P I D T T I M E I D L R P V S S F G C A D D G V L V S T P T G S T T A Y A F F
UniRef90_F9Z9E3 K A A T S S L L K I H A Y I G E N Y L T T Y W A D G L V V A T P T G S T T A Y S L L
UniRef90_C6VXG7 S G L R L L E L E L E L D D G K F Y Y K Q R S A D G L V V G T P T G A T A Y A L L
UniRef90_B0D8Y1 R G P S P Y V S L L E L E L F G D E H H M T T V Q A D G L T V S T P T G S T T A Y S L L
UniRef90_K8E0G1 K G S S F R M A R L N I K V N Q Q F V G A F A A D G V I I A S P T G S T T A Y S L L
UniRef90_K9TG90 R E P L T C M C H F E I Q V V G R H A P V D I A A D G V I I S T P T G S T T A Y G L L
UniRef90_E3D9D2 R A D R G R M V E L S I R V V D N V E M S S F G C A D D G V I V S T P T G S T T A Y A F F
UniRef90_K9W2E7 R E P L T S M C H F E V V G R H A M V D I A A D G I I V S T P T G S T T A Y S L L
UniRef90_E6L9K5 R K Q M N S M V S T E V F R S G K F N Q Y F G D G L I I S T P A G S T T A Y N S L L
UniRef90_L0FA61 R E P S G A M I T L Q A N L S G E P S V R Y P A D G L I V S T P T G S T T A Y A L L
UniRef90_U2GPT3 S Q N R R G V L D A I L E V N D G R P V S S F G C A D D G V L I S T P T G S T T A Y S F L L
UniRef90_K2RTU2 R G P S P Y V S N L E L Y G D N E L L T I V Q A D G C I I E S T P T G S T T A Y S L L
UniRef90_C6VXR2 K T D T S S M I T V H T Y V N D E F L N S Y W A D G L I I S T P T G S T T G Y S L L
UniRef90_C9R869 R G A L S R P C R L E V R V D G Q C A F R F T G D G I I I A T P T G S T T A Y S F L L
UniRef90_K9WLK4 R E P L T C M C H F E I Q L G H H A L V D I A A D G V I I S T P T G S T T A Y S L L
UniRef90_UPI00037A5A8F K S G F S R L I D L E I A M K C E P V T K F S A D G V I V S T P T G S T T A Y S L L
UniRef90_R6QLQ7 R M G S L K I I N F D I F V N G E Y L T Y P A D G L I V S T P T G S T T A Y N S L L
UniRef90_A4FKB4 K S S R E R L I D V V T L E V D D G H P V L S A F G C A D D G V L C S T P T G S T T A Y A F F
UniRef90_UPI000415D206 R K N T T S M I T V V T L E V D D K Y L T S Y W A D G L I I V S T P T G S T T A Y S L L
UniRef90_C5F268 R P H N T S M I H L R A Y I D E N Y L N S Y Y G D G L I I A T P T G S T T A Y N S L L
UniRef90_F4HJA6 T G I P G S K I H L R Y Y V I N D G G Y L A N D E V R A D G L V I A T P T G S T T G Y A M L L
UniRef90_A1ZP29 K R D T S S M I V V H T Y I N G E Y L N S Y W A D G L I I V S T P T G S T T G Y S L L
UniRef90_F0Y5E5 R G D S E F L S A V E C F C N D E H L T T A Q A D G I I V A T P T G S T T A Y S L L
UniRef90_V8G3Q8 R S G R G M I E I S V D Y D N T H M Y S Q R A D G L I I V S T P T G S T T A Y A L L
UniRef90_K7S4A1 R P S I A G M I H I E S E T Y V D D G Q S F N T Y Y G D G V V S T P T G S T T A Y N S L L
UniRef90_W5Y1A3 N N N R R G V L D A V L G V D G R P V S S F G C A D D G V L I S T P T G S T T A Y A F F
UniRef90_C4LIF0 N V D R S G V L D A V L E V D D Q R P V S S F G C A D D G V L V S T P T G S T T A Y A F F
UniRef90_Q11PL9 K R I D S S M I T V H T Y I D D G E F L N S Y W A D G L I I S T P T G S T T A Y S L L
UniRef90_J0UZJ1 N S E R M R I A N I Y V Y T V G E K S N S Y Y G D G L I I S T A T G S T T A Y N L L

UniRef90_R5EI33 S A G G P I V I S P K T H V M L I T P I 170 S P H S L T A N S R R S A L V V F G D A L S P V V T I E T
UniRef90_U5DN11 S A G G P V L T P D V P V L Q L A P I C P H S L L A N S F R P I V V V G G A G G V E M T I S M
UniRef90_UPI00035FC338 S A G G P L L S P E M D P G M V I T P V V A P H S L L N S F R P I V V V G G A G G V E M T I S M
UniRef90_G3NPD1 A A G A S M L I H P N V P A I M I T P V V A P H S L L N S F R P I V V V G G A G G V E M T I S M
UniRef90_UPI0003653934 S A G G P T V S P E T N I L I M T P V V A P H S L L N S F R P I V V V G G A G G V E M T I S M
UniRef90_UPI000415B6AB C A G G S L V L P S Q T N N F V I T S P V V C P H N L L N S F R P I V V V G G A G G V E M T I S M
UniRef90_Q2U8I4 S A G G S L I H P S I N G I L L T A V A P H S L L N S F R P I V V V G G A G G V E M T I S M
UniRef90_D3ILL1 S N G G P I V A P N T N A L L Q L T A V A P H S L L N S F R P I V V V G G A G G V E M T I S M
UniRef90_I7IX91 S A G G P V L W P E N L D A L L V V P N N A H A L L F T K R P I V V V G G A G G V E M T I S M
UniRef90_D8SCM8 A A G G S M V H P N V P C M L F T P I C P H S L L F T R R P I V V V G G A G G V E M T I S M
UniRef90_C1ASY3 S A G G P V V W P E L E A L L V V P S N A H A L L F A R P I V V V G G A G G V E M T I S M
UniRef90_J0LLB8 S A G G P I I W P G V K A L L E L V P I I A A H A L L F T R R P I V V V G G A G G V E M T I S M
UniRef90_Q3B189 S A G G P I I A P K S V F V I T P I C P H M L V Q T S R R P I V V V G G A G G V E M T I S M
UniRef90_R6HAG2 S A G G P V V E P E A G V M V I T P I C A H D V L Q T S R R P I V V V G G A G G V E M T I S M
UniRef90_UPI00041A1AE7 S A G G P I L H P R L K A L L V L A P I N P H T L T S N R R P I V V V G G A G G V E M T I S M
UniRef90_Q2FQ95 S A G G P I V D P R T V E G F L M V P L A P F M L T S N R R P I V V V G G A G G V E M T I S M
UniRef90_UPI0004668432 S A G G P I L V P D S R M L V L T P I C S H V L L G S A R S P I V V V G G A G G V E M T I S M
UniRef90_Q7VKR8 S A G G P I L T P N K N A I A L V P M H P H A L L G S A R S P I V V V G G A G G V E M T I S M
UniRef90_D4MXR1 S A G G P V V N P N K A N V I L I T P I C P H S L L Q S S N S P I V V V G G A G G V E M T I S M
UniRef90_Q0W025 S A G G P I V D P G V D G I I V P L A P Y K L L S A R P W V V S P G R S D S I V I K V E E
UniRef90_E4N3M9 S G G G P I V W P N E V E A L L M V P L A S A H A L F A R P V V V T G A T S D S V L A V T V D
UniRef90_UPI0003B61036 S A G G P I I W P N V Q A L L Q L V P L A A H A L F A R P V V V T G A T S D S V L A V T V D
UniRef90_K9RUE0 S A G G P V I T P G V N V S Q L V P I C P H S L L A F A R A L V F A N T G E P V V T R I V Y Q
UniRef90_M4ER25 A A G G S M V H P D A V P G I L F T P I C C P H S L L D S F R G V I T S A D S H V T V R D I Q
UniRef90_V2Y414 S A G G A I I M P Q V E L L G L P I I C P H S L L D S F R G V I T S A D S H V T V R D I Q
UniRef90_UPI0004220BA3 C A G G P V I T P D A D S L V I T P I A P H N L L N A R P L V V I K A D S G T R I V K I K E
UniRef90_M7MTA4 S A G G P V V P S E L D A L L M V P I S A H A L L F A K R P L V V V A P A S T R I V R L K E D
UniRef90_UPI00046F8EE0 S A G G P I L H P S V D A L L A L V P M C P H T L L N A R P L V V V A P A S T R I V R L K E D
UniRef90_D5BFN4 S C A G G P V I T P D A D S L V I T P I A P H N L L N A R P L V V V A P A S T R I V R L K E D
UniRef90_UPI0004794656 A A G G A I L Q A G L N A F T L V P V C P Q S L L T F A R P L V V I K S D D T A E I T D I K E
UniRef90_L7L7L6 S A G G P V M W P D V E A L L V V P N N A H A L T F A R P L V V T S P N S S V L V A T V A E
UniRef90_H6RWE7 S A G G P V V W P D V E A L L V V P T N A H A L L F A R P L V V T S P N S S V L V A T V A E
UniRef90_R7KTD5 A A G G P L L H P A L N A M V L V P V A P H A L L T N R R P I V V L P G E Y V T I R V Q E S
UniRef90_A9SGX5 A A G G S M V H P Q V P G I L F T P I C C P H S L L S F R P I V V L P D H V T I R V Q E S
UniRef90_A0A059ABP0 A A G G S M V H P Q V P G I L F T P I C C P H S L L S F R P I V V L P D H V T I R V Q E S
UniRef90_K1X4D7 S A G G S L V H P D I P A L L L T P I C C P H T L S F R P M V L S S D T N K L L R I V K
UniRef90_R6MJD9 S A G G P V V D P C M R L Y V A T P I C C A H M L S V R S A L V L S S N K D I V R I V K
UniRef90_L8N446 S A G G P V I E P G I P V F Q L I P I C A H S M A S R A L V F A N T E K V V I V T K
UniRef90_UPI0004150FC2 S G G G P V I T P K L D A I S L L P M F P H T L N S R P L V V I D A N T E S V I R I K
UniRef90_U2N6H4 S A G G P L I Y P T L D V I L L T P I C P H T K L N S M Q T M V L D A N K S N I K I E V T
UniRef90_Y0KJ63 S A G G P I L H P D L K A I S L V P I S P H T L S N R P I T V T T S S E S V C E E F T
UniRef90_G2J3G0 A S G G P L L H P T L Q A I A L V P M C P Q S L L N S R P I A V N A K S E T I V I R T
UniRef90_UPI00037BB8A8 S A G G P I M H P S I D A I V L V P I M Y S H S L L N S R P I L I L N A K S E T I V I R T
UniRef90_W9YLK6 S A G G S L I H P S I P A I L L T P I C P H T L L S F R P M V L S S D T Q S A L V A E R
UniRef90_Q8NQM1 S A G G P V L W P E L D A I L V V P N N A H A L F A R P L V V V A P K S V L V A L E R
UniRef90_UPI00035D9DFC S A G G P V V W P Q V E A L L V V P S N A H A L F A R P L V V A P K S V L V A L E R
UniRef90_S8DRS8 S A G G P I V H P S L S A L V L T P I C P R S L L S F R P L V V F P S S S S I L T L E R K
UniRef90_D1AMH8 S A G G P I V H P G L N S V L L P L A P Q S L L N A R P L V V F D G P K R A Q L A V L D Q
UniRef90_E3B799 S A G G P V V W P D T E A I L L V P I S A H A L F A R P L V V L G S G S K F L D Q
UniRef90_UPI0004120AE1 S A G G P V I W P N V K A L Q L V P I A A H A L F A R P L V I L G S G S K F L D Q
UniRef90_S6FMK5 S A G G P F V Y P D V D I T L T P I C P H T K G M Q T I V L N S G D S S Q I L E I Q R
UniRef90_UPI00035CC7C5 S A G G P I E P D L N V V T L V S I N P H T M S N R P I V V T N S G D S S Q I L E I Q R
UniRef90_R5WDK5 S V I G G P I V A P M C E C F I I A P I A P H N L T M R P M V I P D D S S V V S F R E
UniRef90_UPI000403996F C A G G P L L S P K A K N L V I T P V S P H N L N V R P I V V P D D S S V V S F R E
UniRef90_UPI000376214B S C G G P I V T P Q T K S F I L T P I A P H N L N V R P I V V P D D S S V V S F R E
UniRef90_C7NHB3 S T G G P V V W P D V E A L L T I P I S A H A L F A R P L V V G P T T T R L K A V E E
UniRef90_E4T8F0 S V I G P L I V P E A G N F I L S P I A S H S L N V R P I V V P D D S S V V S F R E
UniRef90_UPI000371E909 S S G G P I M H P S T N A I C L V S I S P H T M S H R F I L H G D E S E V L I N E
UniRef90_R5CZ19 A A G G P I V E P S T A R N L L T P I C P H S T R S S S Y V L S P E H V I T I V E E
UniRef90_R7I443 A A G G P I L H P S L K G V V L V P V A P H T L L S N R P I V V L P S D A S E I R I R E H
UniRef90_H0J3G6 S A G G P I M Y P K L D V V T L V P M F P H T L L S S R P I V V L P S D A S E I R I R E H
UniRef90_C5EH26 S A G G P V I A P S A R M M V L T P I C S H S L L N A R S I V V A P A D S E I R I R E H
UniRef90_UPI00040F07B4 S A G G P V V W P Q V E A I L L V P V S A H A L F A K R P L V V G P D D S E L A V E E
UniRef90_UPI0002192636 S A G G P V V W P E L E S I L L V P S N A H T L F A R P L V V S P D D T T V L A V E E
UniRef90_F9Z9E3 S G G G P I V S P E C R N I I L T P I C P H N L T R P L V V P N T A E V R L T K T
UniRef90_C6VXG7 S A G G P I L H P N I L E A I S L V P I C C P H T L L S N R P I A V S S D S A M E L R I C
UniRef90_B0D8Y1 S A G G S L V H P E I P A L I T P I C C P H S L L S F R P M L L P S D S A M E L R I C
UniRef90_K8E0G1 S A G G P I V T P E V Q V M L I T P I C C P H S L L A N R S I V I A P D S V V E V I E F
UniRef90_K9TG90 S A G G P V I T P D V E P V L Q L V P I C C P H S L L A S R A L I V E A N T G E P V V T T I F
UniRef90_E3D9D2 S A G G P I M W P N D V E A L L Q L V P L A A H A L F S R P L I I G A G S T F T I D
UniRef90_K9W2E7 S A G G P V V A P G V A A L Q L V P I C P H S L L A S R A L I V E A D T G E P V V T T I Y
UniRef90_E6L9K5 S A N G P I V Y T L A E V F I L T P V A H S L L T Q R P L V L P A R G E F E L T E V I G R E
UniRef90_L0FA61 S A G G P I L S P N V E A I L L T P L A A H S L L T A R P M V L S S P A S E T L V A R V A R
UniRef90_U2GPT3 S A G G P V L W P E L D A I L V V P N N A H A L F A K P L V V S P A S E T L V A R V A R
UniRef90_K2RTU2 S A G G S L V H P D I P A L L V T P I C P H T L L S F R P M L L N D D T A M L A R V A R
UniRef90_C6VXR2 C A G G P V L V P H S Q N F I V T P I S P H N L N V R P I V V P D D T A V I R L R
UniRef90_C9R869 S A G G P I I D P Q V A A L V L T P I C P H A F V L R P F V V P D S S E L V A I A R
UniRef90_K9WLK4 S A G G A V V T P G V P V L Q L V P I C C S H S L A S R A L V E A D G S E P V A I A R
UniRef90_UPI00037A5A8F S A G G P I V H P E L D V L L T P I C S N T L H A R P F V I P G S H E L C I A R
UniRef90_R6QLQ7 S A G G P I V R P Q T D C I V M T P V C P H V L N K S S V I F G G E D V L E V R E
UniRef90_A4FKB4 S A G G P V V W P E V Q A L L V T P S N A H A L F S R P L V V S R D D S L I A L K E
UniRef90_UPI000415D206 C A G G P V I V P D T K A L V I T P I A P H N L N V R P I V V I K S R D D T K I K L K E
UniRef90_C5F268 S A G G A V V Y P F S H N L L T P I C A H S L T Q R P L I L P S T F T I K E I T
UniRef90_F4HJA6 S A G G P F V D P R L D V I V T P I L P L P K T S V P M I I P G D S T I E I T
UniRef90_A1ZP29 C A G G P V L V P E S N N F I J A P I S P H N L N V R P I V I S G D D S T I S F E
UniRef90_F0Y5E5 S A G G P M V H P S A N A M V F T P V C P H S L S F R P M V F P D S S A E L K F V
UniRef90_V8G3Q8 S A N G P I I H P M V E A F L L V P V A P Q T S H R P I A V P G S G M L T L T
UniRef90_K7S4A1 S A G G P V L F P L S Q V F A L T P I C P H S L L T Q R P L M V F P G H F E I E M K
UniRef90_W5Y1A3 S A G G P V L W P E L D A I L V V P N N A H A L F T K P L V V S P N S E V A I V E
UniRef90_C4LIF0 S A G G P V L W P S L D A L I V V P N N A H A L F A R P L V V S P F S E V A I V E
UniRef90_Q11PL9 C A G G P L V H P K T E A N F I T P I S P H N L N V R P I V V P D S C H I S F E
UniRef90_J0UZJ1 S L G G P I L Y P E M R D Y I L T P I A P H S L S Q R P I I L P P E L K I S L E

UniRef90_R5EI33	L R E K M A N
UniRef90_U5DN11	L R E K L
UniRef90_UPI00035FC338	L R S K L R
UniRef90_G3NPD1	W F E S L
UniRef90_UPI0003653934	L R R K M K N
UniRef90_UPI000415B6AB	L R N K L
UniRef90_Q2U8I4	V Q R A L R
UniRef90_D3ILL1	L R N K M
UniRef90_I7IX91	L V T K L R
UniRef90_D8SCM8	W F R S L
UniRef90_C1ASY3	
UniRef90_J0LLB8	
UniRef90_Q3B189	L R T K L
UniRef90_R6HAG2	V N H K F R N L
UniRef90_UPI00041A1AE7	L R A K L
UniRef90_Q2FQ95	I N R K L R H L
UniRef90_UPI0004668432	L R N K M
UniRef90_Q7VKR8	L G S K L
UniRef90_D4MXR1	L R I K V
UniRef90_Q0W025	L R E K L
UniRef90_E4N3M9	L V A K
UniRef90_UPI0003B61036	L V S K
UniRef90_K9RUE0	L R Q K L
UniRef90_M4ER25	I H D G L H
UniRef90_V2Y414	V R K K
UniRef90_UPI0004220BA3	L R K K L
UniRef90_M7MTA4	L V N K
UniRef90_UPI00046F8EE0	C R S K L
UniRef90_D5BFN4	L R K K L
UniRef90_UPI0004794656	L R Q K L H
UniRef90_L7L7L6	L V T K
UniRef90_H6RWE7	L V A K
UniRef90_R7KTD5	L R R K L
UniRef90_A9SGX5	F L R S V R
UniRef90_A0A059ABP0	I R E G L H
UniRef90_K1X4D7	V S T S L K
UniRef90_R6MJD9	L I K K L
UniRef90_L8N446	L R E K L
UniRef90_UPI0004150FC2	L H N K
UniRef90_U2N6H4	I R T K L
UniRef90_Y0KJ63	L R N K L
UniRef90_G2J3G0	L R H K L H
UniRef90_UPI00037BB8A8	L R S K L H
UniRef90_W9YLK6	
UniRef90_Q8NQM1	L V S K L R
UniRef90_UPI00035D9DFC	L V R K
UniRef90_S8DRS8	
UniRef90_D1AMH8	L R E K L K
UniRef90_E3B799	L V R K
UniRef90_UPI0004120AE1	L V S K
UniRef90_S6FMK5	L R T K I
UniRef90_UPI00035CC7C5	L R A K L
UniRef90_R5WVK5	L R N K M
UniRef90_UPI000403996F	L R Q K L H
UniRef90_UPI000376214B	L R K K L
UniRef90_C7NHB3	L V R K
UniRef90_E4T8F0	L K N K L
UniRef90_UPI000371E909	I R S K L H
UniRef90_R5CZ19	L D K K M
UniRef90_R7I443	L R R K L K
UniRef90_H0J3G6	L R S K L
UniRef90_C5EH26	L S N H L
UniRef90_UPI00040F07B4	L V N K F Q
UniRef90_UPI0002192636	L V H K F R
UniRef90_F9Z9E3	L R N K L
UniRef90_C6WVG7	L R N K L
UniRef90_B0D8Y1	W F
UniRef90_K8E0G1	L R E K L K
UniRef90_K9TG90	L R E K L
UniRef90_E3D9D2	L V T K
UniRef90_K9W2E7	L R E K L
UniRef90_E6L9K5	L K E K L
UniRef90_L0FA61	V R E K L K
UniRef90_U2GPT3	L V N K
UniRef90_K2RTU2	L G R T L R
UniRef90_C6VXR2	L R S K L
UniRef90_C9R869	V R D K L
UniRef90_K9WLK4	L R E K L
UniRef90_UPI00037A5A8F	L R R K L
UniRef90_R6QLQ7	L R N K L
UniRef90_A4FKB4	L V G K
UniRef90_UPI000415D206	L R K K L
UniRef90_C5F268	L K Q K F H
UniRef90_F4HJA6	
UniRef90_A1ZP29	L R R K L
UniRef90_F0Y5E5	W F G G L R T
UniRef90_V8G3Q8	L R K K L H
UniRef90_K7S4A1	L K E K L
UniRef90_W5Y1A3	L V S K L R
UniRef90_C4LIF0	L V S K F R
UniRef90_Q11PL9	L R S K L
UniRef90_J0UZJ1	L R E K L K

UniRef90_K4LUY0
UniRef90_I1XSB1
UniRef90_Q1LSM7
UniRef90_G8THG9
UniRef90_R5WMZ7
UniRef90_M5TJU7
UniRef90_R4T9Q3
UniRef90_I4EYZ7
UniRef90_Q7UWB8
UniRef90_UPI000367E977
UniRef90_U7LZ33
UniRef90_UPI00040FC483
UniRef90_M3JT54
UniRef90_C8XHR0
UniRef90_R6WE94
UniRef90_S0AT37
UniRef90_UPI0003F5BDE2
UniRef90_K9AWT8
UniRef90_L8H3V3
UniRef90_H8G5G2
UniRef90_UPI0001E2D487
UniRef90_R5QRX7
UniRef90_V9XD96
UniRef90_A0A023BAR7
UniRef90_M7NPW2
UniRef90_M0QMV5
UniRef90_I5AUS9
UniRef90_E6J8A4
UniRef90_K0EMB5
UniRef90_W5AGQ4
UniRef90_G8ZRK2
UniRef90_Q5YY98
UniRef90_A0A021VQ95
UniRef90_UPI00046A4864
UniRef90_L8LVY7
UniRef90_UPI00037BD9E9
UniRef90_X5JFK2
UniRef90_Q753F3
UniRef90_UPI0002234BCF
UniRef90_UPI0003757020
UniRef90_K3WHE1
UniRef90_M7T5K2
UniRef90_UPI000427AF43
UniRef90_UPI0004147E9F
UniRef90_UPI000361A816
UniRef90_C0XT76
UniRef90_M8E5B2
UniRef90_F5T1Q3
UniRef90_F0SSY1
UniRef90_E0XUF4
UniRef90_C9MYB3
UniRef90_U2T2K9
UniRef90_K9EZS7
UniRef90_W5X8W6
UniRef90_UPI00047862EE
UniRef90_R6DBA0
UniRef90_W6N1A0
UniRef90_S5SUN3
UniRef90_T0LG72
UniRef90_T1CXH6
UniRef90_R5EES9
UniRef90_Q64AB4
UniRef90_UPI00047882C1
UniRef90_G1THB2
UniRef90_V6M8B1
UniRef90_I2AYT8
UniRef90_I0QZN6
UniRef90_UPI00042B80B9
UniRef90_UPI00035C1ED1
UniRef90_R5L602
UniRef90_D6Z7U7
UniRef90_E4NNV7
UniRef90_S8A8P5
UniRef90_M4ZTI5
UniRef90_B5JHJ6
UniRef90_E7MZX0
UniRef90_A6LU50
UniRef90_R6D710
UniRef90_A0A023X326
UniRef90_T0R417
UniRef90_K0YRS8
UniRef90_F7D4D7
UniRef90_H6LEJ8
UniRef90_E3GEE1
UniRef90_D7WCY5
UniRef90_M0IMY7
UniRef90_F5TG15
UniRef90_D6Y1W8
UniRef90_U2QWB7
UniRef90_R6QGU7
UniRef90_V9HCZ7
UniRef90_A0FD67

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

UniRef90_K4LUY0
UniRef90_I1XSB1
UniRef90_Q1LSM7
UniRef90_G8THG9
UniRef90_R5WMZ7
UniRef90_M5TJU7
UniRef90_R4T9Q3
UniRef90_I4EYZ7
UniRef90_Q7UWB8
UniRef90_UPI000367E977
UniRef90_U7LZ33
UniRef90_UPI00040FC483
UniRef90_M3JT54
UniRef90_C8XHR0
UniRef90_R6WE94
UniRef90_S0AT37
UniRef90_UPI0003F5BDE2
UniRef90_K9AWT8
UniRef90_L8H3V3
UniRef90_H8G5G2
UniRef90_UPI0001E2D487
UniRef90_R5QRX7
UniRef90_V9XD96
UniRef90_A0A023BAR7
UniRef90_M7NPW2
UniRef90_M0QMV5
UniRef90_I5AUS9
UniRef90_E6J8A4
UniRef90_K0EMB5
UniRef90_W5AGQ4
UniRef90_G8ZRK2
UniRef90_Q5YY98
UniRef90_A0A021VQ95
UniRef90_UPI00046A4864
UniRef90_L8LVY7
UniRef90_UPI00037BD9E9
UniRef90_X5JFK2
UniRef90_Q753F3
UniRef90_UPI0002234BCF
UniRef90_UPI0003757020
UniRef90_K3WHE1
UniRef90_M775K2
UniRef90_UPI000427AF43
UniRef90_UPI0004147E9F
UniRef90_UPI000361A816
UniRef90_C0XT76
UniRef90_M8E5B2
UniRef90_F5T1Q3
UniRef90_F0SSY1
UniRef90_E0XUF4
UniRef90_C9MYB3
UniRef90_U2T2K9
UniRef90_K9EZS7
UniRef90_W5X8W6
UniRef90_UPI00047862EE
UniRef90_R6DBA0
UniRef90_W6N1A0
UniRef90_S5SUN3
UniRef90_T0LG72
UniRef90_T1CXH6
UniRef90_R5EES9
UniRef90_Q64AB4
UniRef90_UPI00047882C1
UniRef90_G1THB2
UniRef90_V6M8B1
UniRef90_I2AYT8
UniRef90_I0QZN6
UniRef90_UPI00042B80B9
UniRef90_UPI00035C1ED1
UniRef90_R5L602
UniRef90_D6Z7U7
UniRef90_E4NNV7
UniRef90_S8A8P5
UniRef90_M4ZTI5
UniRef90_B5JHJ6
UniRef90_E7MZX0
UniRef90_A6LU50
UniRef90_R6D710
UniRef90_A0A023X326
UniRef90_T0R417
UniRef90_K0YRS8
UniRef90_F7D4D7
UniRef90_H6LEJ8
UniRef90_E3GEE1
UniRef90_D7WCY5
UniRef90_M0IMY7
UniRef90_F5TG15
UniRef90_D6Y1W8
UniRef90_U2QWB7
UniRef90_R6QGU7
UniRef90_V9HCZ7
UniRef90_A0FD67

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

UniRef90_K4LUY0
UniRef90_I1XSB1
UniRef90_Q1LSM7
UniRef90_G8THG9
UniRef90_R5WMZ7
UniRef90_M5TJU7
UniRef90_R4T9Q3
UniRef90_I4EYZ7
UniRef90_Q7UWB8
UniRef90_UPI000367E977
UniRef90_U7LZ33
UniRef90_UPI00040FC483
UniRef90_M3JT54
UniRef90_C8XHR0
UniRef90_R6WE94
UniRef90_S0AT37
UniRef90_UPI0003F5BDE2
UniRef90_K9AWT8
UniRef90_L8H3V3
UniRef90_H8G5G2
UniRef90_UPI0001E2D487
UniRef90_R5QRX7
UniRef90_V9XD96
UniRef90_A0A023BAR7
UniRef90_M7NPW2
UniRef90_M0QMV5
UniRef90_I5AUS9
UniRef90_E6J8A4
UniRef90_K0EMB5
UniRef90_W5AGQ4
UniRef90_G8ZRK2
UniRef90_Q5YY98
UniRef90_A0A021VQ95
UniRef90_UPI00046A4864
UniRef90_L8LVY7
UniRef90_UPI00037BD9E9
UniRef90_X5JFK2
UniRef90_Q753F3
UniRef90_UPI0002234BCF
UniRef90_UPI0003757020
UniRef90_K3WHE1
UniRef90_M775K2
UniRef90_UPI000427AF43
UniRef90_UPI0004147E9F
UniRef90_UPI000361A816
UniRef90_C0XT76
UniRef90_M8E5B2
UniRef90_F5T1Q3
UniRef90_F0SSY1
UniRef90_E0XUF4
UniRef90_C9MYB3
UniRef90_U2T2K9
UniRef90_K9EZS7
UniRef90_W5X8W6
UniRef90_UPI00047862EE
UniRef90_R6DBA0
UniRef90_W6N1A0
UniRef90_S5SUN3
UniRef90_T0LG72
UniRef90_T1CXX6
UniRef90_R5EES9
UniRef90_Q64AB4
UniRef90_UPI00047882C1
UniRef90_G1THB2
UniRef90_V6M8B1
UniRef90_I2AYT8
UniRef90_I0QZN6
UniRef90_UPI00042B80B9
UniRef90_UPI00035C1ED1
UniRef90_R5L602
UniRef90_D6Z7U7
UniRef90_E4NNV7
UniRef90_S8A8P5
UniRef90_M4ZTI5
UniRef90_B5JHJ6
UniRef90_E7MZX0
UniRef90_A6LU50
UniRef90_R6D710
UniRef90_A0A023X326
UniRef90_T0R417
UniRef90_K0YRS8
UniRef90_F7D4D7
UniRef90_H6LEJ8
UniRef90_E3GEE1
UniRef90_D7WCY5
UniRef90_M0IMY7
UniRef90_F5TG15
UniRef90_D6Y1W8
UniRef90_U2QWB7
UniRef90_R6QG07
UniRef90_V9HCZ7
UniRef90_A0FD67

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

UniRef90_K4LUY0 K G P I S R L I T R L I E T Y V I G N D Q Y L 140 A T Y R A S D G L I I I A S P T T G S T T A Y S L L
UniRef90_I1XSB1 P A K I A H M I D F H V H I N D N Q Q F A F S Q R R S D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_Q1LSM7 S S G K V A H M I E F D H V F I L N D N G E F A F N T Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_G8THG9 K T D T S P M I K I H T V I L N D N G E F L L N A Y E R G D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_R5WMZ7 R A G F S R R L I G L D V Y V N D N G E F L L N A Y E R G D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_M5TJU7 S S G S P P F Q I V L L D D L D F Y T D D G G R P L V S S F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_R4T9Q3 K S S R E R R V L D D A L I E V D D G G H P L V S S F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_I4EYZ7 K V E R S R V L D D V L E V D D G G H P L V S S F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_Q7UWB8 N G P P F A L L D I D L Y A D D G G E L A T S Q F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI000367E977 K G P R T Q M I E I D S L Y A D D G G E L A T S Q F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_U7LZ33 N Q N R S G V L D A I L E I V D D R R P V V S S F F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI00040FC483 K S S R E R I L L D Q L E I D V D D G G S P L V S S F F G C C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_M3JT54 R G P S P F V T Q L E L Y V G D D G L L T V A Q A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_C8XHR0 K V T R E R I L D V V V E V D D G G H G V S A Y G C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_R6WE94 K R D N A S M L S I R A S I N G E Y L V E N T F H A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_SOAT37 T A R I S K I R K F S V Y I N D R F L M E N T S Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI0003F5BDE2 K R D T A S M I V V H T Y I N G E Y L N S Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_K9AWT8 K T S K A R M I D V V L G V D D S R P L V S S A F G Q A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_L8H3V3 R G P D S R H L C S L E C Y C D D G L L I T T I Q A A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_H8G5G2 K C S R E R I L D A L T E V D D G R P V S S F G C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI0001E2D487 R G W M S R I L H L K T Y I N D G R F V D L Y P G D G L I I I A S T P T T G S T T A Y S L L
UniRef90_R5QRX7 R C G H L M V L N Y E V V V N D G Q L L C H Y K A D D G M I L A S T P T T G S T T A Y S L L
UniRef90_V9XD96 N K S R L G V L E V V L E V D D G R P V S S F G C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_A0A023BAR7 R G P A A N M A N L V I N D N R F F L N S Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_M7NPW2 K K D T S S M I V V H T Y I N D G E F L N S Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_M0QMV5 N R T N Q G V L E L V T E V D D G R P V S A F G A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_I5AUS9 R S G A L H V M S L Y N E V D G R N P V L N S Y R G D G L I I I A S T P T T G S T T A Y S L L
UniRef90_E6J8A4 K V A R Q G V L E A S V E I V D G R N P V S D Y Y G C C D D G M L V A S T P T T G S T T A Y S L L
UniRef90_K0EMB5 N A S R M G V L E L V L E V D D G R P V S A F G C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_W5AGQ4 R G M S S Y L T Y L E C Y C D D G S F V T C V Q Q A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_G8ZRK2 R G P S P I S M L E L Y G D N S L T M A Q A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_Q5YY98 N A S R M G V L E V V L E V D D G R P V S A F G C C D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_A0A021VQ95 K A D R A R M I E V V V E V D D G R P L S T F G C C C D D G V V M A S T P T T G S T T A Y S L L
UniRef90_UPI00046A4864 K A S R E R M I E V V L E I V D D G R P L S S F G C C C D D G M V I A S T P T T G S T T A Y S L L
UniRef90_L8LVY7 R E P L T S M C H F E I Q I G R H A P V D V A A D D G I I I I S T P T T G S T T A Y S L L
UniRef90_UPI00037BD9E9 K G D R A R M L J E V M L S V E G R P L S R Y G C C D D G M V I A S T P T T G S T T A Y S L L
UniRef90_X5JFK2 R E P L T S M C H F E I A V G N H A P V D I A A D D G V I I I A S T P T T G S T T A Y S L L
UniRef90_Q753F3 R G P S P F L S M L E L Y G D H S L L T V A Q A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI0002234BCF R G P S S Y L S N V D V Y L D D G R H L I T T V Q Q A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI0003757020 N E A T E R M L E V A E I L D D G R P L S R W G C C D D G V I I I A S T P T T G S T T A Y S L L
UniRef90_K3WHE1 R G P S A A L V E L N C Y C D D G L E I T K I A A D D G I I I I A S T P T T G S T T A Y S L L
UniRef90_M775K2 R G P S A Y V S N L E L Y G D N E L T V V Q A D D G C I I E S T P T T G S T T A Y S L L
UniRef90_UPI000427AF43 K R D S A S M I I V H T Y I N D G E Y L N S Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI0004147E9F N T S H N G V L E L V T E V D D G R P V A A F G A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_UPI000361A816 K R D T S M I T L H T F I N G A Y L N S Y W A D D G L I I I A S T P T T G S T T A Y S L L
UniRef90_C0XT76 N V N R T R V M D A L I E V D D Y R P V S S F G C C D D G V L I I I A S T P T T G S T T A Y S L L
UniRef90_M8E5B2 N A S L S T L V A C V Y I N G D E F E T F R G D G L I I I S S P S G S T T A Y N K
UniRef90_F5T1Q3 S H Q N L H M I E F E T H I N G R F L N S Q R A D D G L I I I A S T P T T G S T T A Y A M
UniRef90_F0SSY1 V G A K P H M F D V Q L N L D D D E H V L N T Y S G D G L I I I A S T P T T G S T T A Y S L L
UniRef90_E0XUF4 K K S Q G H T V R L E V T L D D S P F A T Y A G D G L I I I A S T P T T G S T T A Y S L L
UniRef90_C9MYB3 K G G H E H L I Q V E V Y S N D G V F V N K Y R A D D G I I I I A S T P T T G S T T A Y S L L
UniRef90_U2T2K9 K G G I S Q M I S V E V Y A D G T F V N K Y R A D D G I I I I A S T P T T G S T T A Y S L L
UniRef90_K9EZS7 K G D H A R L I E V S V G V D G S E I S A Y K A D S I L L S T P T T G S T T A Y N F
UniRef90_W5X8W6 R G S F S Q L I N T A I Y S E K F L V S Q K A D G L I I I A S T P S T T G S T T A Y S L L
UniRef90_UPI00047862EE R R D I A R V L S I A V Q V V D D L P M T V Y H A D D G V L V A T A T G S T T A Y N A L L
UniRef90_R6DBA0 K R G N C R L I T V K V C V N D G E L A D V Y R A D D G L I I I S T P T T G S T T A Y N L L
UniRef90_W6N1A0 K G I K N R I E K Y D V F V D N K P Y N S F N A D D G I I I V C T S T P T T G S T T A Y N L L
UniRef90_S5UN3 N L N R R R G V L D A L E V D D F R P V S S F G C C D D G V I I I A S T P T T G S T T A Y A F
UniRef90_T0LG72 S R Q I S K V R S F K V Y V D D N F V D K T R A D G I I I I A T P M G S T T S Y S M
UniRef90_T1CXH6 K N N H C G M I K V G A K L I E F N F N T Y I V D G L I I I A T P T T G S T A Y S N I
UniRef90_R5EES9 K G V I A R M I V S V K C D D G I Q A M E C G G D G V I I A S T P T T G S T A Y S I
UniRef90_Q64AB4 T S K P G K M L H F A I F L D D E E L E E L R A D G V I F A T P T T G S T A Y A M
UniRef90_UPI00047882C1 K A E P A R M L E V I E I D D G S R I S R Y G C C D D G V I I A S T P T T G S T A Y A M
UniRef90_G1THB2 R G P S S Y L S N V D V Y L D D G R H L I T T V Q Q A D D G L I I I A S T P T T G S T A Y A A
UniRef90_V6M8B1 N A S L S T L V A C V N I N G D E L E T F R G D G L I I I S S P S G S T T A Y N K
UniRef90_I2AYT8 T S S R G L M F G L K V Y I D G R Y A F D Q R G D G L I I I A S T P T T G S T A Y A M
UniRef90_I0QZN6 K S S R E R M Q L E V V V E V D D S R P V S S F G C C D D G V L V A S T P T T G S T A Y A F
UniRef90_UPI00042B80B9 R G I S S Y L T N L E C Y C D D N S F V T C V Q Q A D D G L I I I A S T T S G S T T A Y S L L
UniRef90_UPI00035C1ED1 P A S L D R M P T C L L E V V D G A V D Q Y H G D G L I I I A S T P T T G S T C Y N A L L
UniRef90_R5L602 R A A D M A I T R Y E V F V N G Q L V D G N F E A D D G L I I I A S T P T T G S T A Y N L L
UniRef90_D6Z7U7 N V S R L G V L E V V E V D D G R P V C A F M A D G M L I S T P T T G S T A Y A Y
UniRef90_E4NNV7 P R R G H G V S L E V R V D D G S L Y S G G H A D D G L I I I A S T P T T G S T A Y N L L
UniRef90_S8A8P5 R G P N A T L S S T E L F V G D D E F L T S V Q A D D G I I I C I A T P T T G S T A Y A
UniRef90_M4ZTI5 R K E M V S M I T I D A Y I D N E F L T S Y W A D G L I I I S T P T T G S T A Y S L L
UniRef90_B5JHJ6 A A D S S Q I I H I N G L A V A D D E F L T Y V C D D G L I I I E S T P T T G S T A Y S L L
UniRef90_E7MZX0 K G D V A R I I A N G L A V N D T P L L E Y K A D D G F I V A S P T T G S T A Y S L L
UniRef90_A6LU50 R G T L S R M V K F T I F V D G K I Y S T F K G D G L I I I A S T P T T G S T A Y S F
UniRef90_R6D710 K G S V A R V V R L D V S T E E G R L T R I T G D G A I I V S T P T T G S T A Y S M
UniRef90_A0A023X326 K S Q T H H I V S S V S V R I S G E D L F D F R C C D D G F I A A S T P T T G S T A Y A L L
UniRef90_T0R417 R G P S S A M V D L D C F C D D G V E L T K I S A D G I I I I A S T P T T G S T A Y S L L
UniRef90_K0YRS8 H T D V A H P V H L A L A V D D G Q D V S T Y G A D D G I I I A S T P T T G S T A Y S F
UniRef90_F7D4D7 R G P S S Y L S N V D V Y L D D G R H L I T T V Q Q A D D G L I I I A S T P T T G S T A Y A
UniRef90_H6LEJ8 K S R G F R M M D I E A K A N G S T I D K F R A D G L I I I A S T P T T G S T A Y S L L
UniRef90_E3GEE1 T G F R M M D I K A Y A G K E G E N M I D F F A D G M I I A S T P T T G S T A Y S L L
UniRef90_D7WCY5 N L D R R G V L D A I L E V D D F R P V S S F G C C D D G L I I I A S T P T T G S T A Y A F
UniRef90_M0IMY7 G P R R G H G G G A I L R V N G S L Y S G G I A D G V L V T T P A G S T T A Y N L L
UniRef90_F5TG15 H G N V I G K M I R L D M S I N G Y F V Q Q Y P G D G M I V A S T A T G S T A Y N F
UniRef90_D6Y1W8 K A E R M L E V V V E V D D G R P L S R W G C C D D G V I I C A S T P T T G S T A Y A F
UniRef90_U2QWB7 E G P I S H V I H L K I S S D G R H L A D A G D G V I I A S T P T T G S T A Y S L L
UniRef90_R6QG07 R G D F A R L I D V S I T C D D G R N V S N M R S D G V I I S T P T T G S T A Y S M
UniRef90_V9HCZ7 R G L A G K M I E F E V F I N Q N F V S Q R S D G L I I S T P T T G S T A Y S L L
UniRef90_A0FD67 Q G D I A K M L E F D I S I N D Y F V C S Q R A D G L I I V T P T T G S T A Y S L L

UniRef90_K4LUY0
UniRef90_I1XSB1
UniRef90_Q1LSM7
UniRef90_G8THG9
UniRef90_R5WMZ7
UniRef90_M5TJU7
UniRef90_R4T9Q3
UniRef90_I4EYZ7
UniRef90_Q7UWB8
UniRef90_UPI000367E977
UniRef90_U7LZ33
UniRef90_UPI00040FC483
UniRef90_M3JT54
UniRef90_C8XHR0
UniRef90_R6WE94
UniRef90_S0AT37
UniRef90_UPI0003F5BDE2
UniRef90_K9AWT8
UniRef90_L8H3V3
UniRef90_H8G5G2
UniRef90_UPI0001E2D487
UniRef90_R5QRX7
UniRef90_V9XD96
UniRef90_A0A023BAR7
UniRef90_M7NPW2
UniRef90_M0QMV5
UniRef90_I5AUS9
UniRef90_E6J8A4
UniRef90_K0EMB5
UniRef90_W5AGQ4
UniRef90_G8ZRK2
UniRef90_Q5YY98
UniRef90_A0A021VQ95
UniRef90_UPI00046A4864
UniRef90_L8LVY7
UniRef90_UPI00037BD9E9
UniRef90_X5JFK2
UniRef90_Q753F3
UniRef90_UPI0002234BCF
UniRef90_UPI0003757020
UniRef90_K3WHE1
UniRef90_M775K2
UniRef90_UPI000427AF43
UniRef90_UPI0004147E9F
UniRef90_UPI000361A816
UniRef90_C0XT76
UniRef90_M8E5B2
UniRef90_F5T1Q3
UniRef90_F0SSY1
UniRef90_E0XUF4
UniRef90_C9MYB3
UniRef90_U2T2K9
UniRef90_K9EZS7
UniRef90_W5X8W6
UniRef90_UPI00047862EE
UniRef90_R6DBA0
UniRef90_W6N1A0
UniRef90_S5SUN3
UniRef90_T0LG72
UniRef90_T1CXX6
UniRef90_R5EES9
UniRef90_Q64AB4
UniRef90_UPI00047882C1
UniRef90_G1THB2
UniRef90_V6M8B1
UniRef90_I2AYT8
UniRef90_I0QZN6
UniRef90_UPI00042B80B9
UniRef90_UPI00035C1ED1
UniRef90_R5L602
UniRef90_D6Z7U7
UniRef90_E4NNV7
UniRef90_S8A8P5
UniRef90_M4ZTI5
UniRef90_B5JHJ6
UniRef90_E7MZX0
UniRef90_A6LU50
UniRef90_R6D710
UniRef90_A0A023X326
UniRef90_T0R417
UniRef90_K0YRS8
UniRef90_F7D4D7
UniRef90_H6LEJ8
UniRef90_E3GEE1
UniRef90_D7WCY5
UniRef90_M0IMY7
UniRef90_F5TG15
UniRef90_D6Y1W8
UniRef90_U2QWB7
UniRef90_R6QG07
UniRef90_V9HCZ7
UniRef90_A0FD67

170 180 190 200
S A G G P I V N P E L E V M L V T P L C P H S L Y A R P F I L S H N Q E I R V V
S A G G P I L T P K L D A T I A L L V P M F P H T L L T S R S R P L V I D G G N S K T I R S M R
S A G G P I L T P T E S S S F V I T P M F P H T L L T S R S R P L V I D G G N S K T I R S M R
S A G G P I V T F P T S S S F V I T P M F P H T L L T S R S R P L V I D G G N S K T I R S M R
S A G G P I V D P M A R L M I I T P V I C P H S L L T T Y R S R P L V V E S S A R D S S E F T A
S A G G P I V R R Q L Q A I L V I V P L S N A H A M F Y R S R P L V V E S S A R D S S E F T A
S A G G P I I W P D V Q A L L V V P L S N A H A M F Y R S R P L V V E S S A R D S S E F T A
S A G G P V V W P D V E A L L L V P T N A H A L F A R P L V T S S A P T S V L T T V A
S A G G P I V R R Q L Q A I L V I S P L S A H T A L F A R P L V T S S A P T S V L T T V A
S A G G P I V W P D V E A L L M V T P L C P H A M F T F A E P L V T G P P N S S L V V A G V E E
S A G G P L V H P G V S A I L S V T P L C P H A M F T F A E P L V T G P P N S S L V V A G V E E
S A G G P V L W P G V D A L L V A P S N A H A L L F A R S P L V V S P D E S T I V T T H
S A G G P I L V P S L K A M F I L S P L S A H A L L F N R M R P L V V A D D D S S V I T T L E K E
S A G G P V L W P A S N N F I L S P V I S A P H N L F N V T E P L V V I N P D S S V R L A G V I
S A G G P I L V P E V E A L L L V P L I S A H A L L F T T E P L V V I N P D S S V R L A G V I
S A G G T M C H P I V P A V C F T P L C P H S L S L S Y C P H S L S L S Y C P H S L S L S Y C
S A G G P V V W P D V E A L L V V P S N A H A M F S R S R P L V V S P R G E S S V I T T Q N
S A G G P I V E P D V S L I A T P L C P H L L L N T S R S R P L V I T T G P E R D V E I R I
S A G G P I V E P G A R L M V M T P L C P H L L N T S R S R P L V I T T G P E R D V E I R I
S A G G P I V W P E L E A L L V I P S N A H A L L F A R P L V T S P E S T I A I V E
S A G G G A V H P G V S C L L F T P L C P H S L S M R P L V L P A D N S V E I R I
S A G G P L V L P Q S N F I V T P V S P H N L Y M R P M V V S P A D N S V E I R I
S A G G P V M W P D L E A L L V V P S N A H A L L F A R S P M V T S P R S T I A V E R E E
S A G G P L I S P D A A L F L M T P L C P H A H T L N T A R S P M V I L P A E N S R V A T V R E E
S A G G P I V W P E L D A I L L V V P N N A H A L L F A R P M V V A P E S R I V A V E E
S A G G P V V W P E L E A L L V I P S N A H A L L F A R P L V T S A P E S R I V A V E E
A A G G S M V H P Q V P G A I L F T P L C P H S L S F R P L I L L P E S Y T T L K V Q R E
S A G G S L V Y P S V N A I A V T P L C P H T L S F R P L I L L P E S Y T T L K V Q R E
S A G G P V V W P E L E A L L V I P S N A H A L L F A R P L V T S P E S R I V A V E E
S A G G P V V W P D V E A L L V P V S A H A L L F A R P L V V S P E A S A V A I V E E
S A G G P V I W P T V E A I A V V P L S A H A L L F A K P L V V S P E A S A V A I V E E
S S G G P V V T P E V P V L Q L A P I C P H S L L A S R A L V F S S D T E T I V A N V F
S A G G P V V W P D L E A L L V C P I S A H A L L F S R A L L V T N P A A T I V G N V A Y
S A G G P V L T P G V S A L Q L P I C P H S L S F R P L I L L P D S M R L N R I K T
S A G G S L V Y P S V N A I C V T P V C P H T L S F R P L I L L P D S M R L N R I K T
A A G A S M I H P N V E A I M I T P I C P H S L S F R P L V V S P A G V E L K A I V E R
S A G G P V V W P E V E A L L M V P I S A H A L L F A R P M V V S P R S T L A K I V E R
S A G G S M T H P S V P T M L F T P I C P H T L S F R P L L F H D S A T L K I V E R
S A G G S L V H P D L P A L L I T P I C P H T L S F R P L M V L S D T S M A L K V C
S V G G P I V L P Q S N F I I A P V S P H N L N V I V P D T S V I A S F E E
S A G G P V M W P D L E A L L V V P S N A H A L L F A R P M V T S P R S V I A S F E E
S A G G P I V F P G S G N F I V P V A P H N L N V I V S P D D S S V I A S F E E
A A G G P V L W P E V E A L L V V P N N A H A L L F T K P L V V S P D S S M V A V E E
A V N G A L V H P S I E A I Q L S E I A A Y R T V N S S L V L S P N H H E V E L I T
S A G G P I L D V D L D V V L A S E V C P H T L L T S N R P L V L S A N N V I E I T
S A G G P I L R Q N L R A F V V T P I C P H T L L T R P L V I D R A N D V I T V K
S A R G S I V A P T H W S L Q L T P V A P H M L F D R S L V L R G P D T E I R I S
S A G G S I V H P G L N A L S I T P L A P Q S L T A R P I I V N G C E N V L S F K
S A G G S I V H P N L R A L S I T P L A P Q S L T A R P I I V N G C E N V L S F K
S A G G P V V W P D L R D A M V M T P V A A H A L F T R P L V V S P D S E L S F R K
A A G G P I V H P E A P V L V V A P V A P H S L T S R P L L I E P D D Q R A I S F K S
A A G G P V L D P S R A L L V V P V A A H L H N V I V H E D D A H L D V L S F S
S A G G P V M A P N I H A M V V T P L C A H S L N K R S L V L D G G S D R I T L E K E
S A G G P I V Y P S L D A F C L T M Y S Q F L F A R T L V L N N S S L I T A K E
S A G G P I L W P E L D A M L V L N N A H A L L F T K P L V V S P H S T V A V E
S A G G P I I L P S A E A M V L S F I A P V I T L R I R P M V V S S N S T A I V
S A G G S V V Y P F C A N N I L L T P I C A H S L Q R P L V Q R S D D L E L E F V E
S A G G P I V E P E A N N I I T P I C A H S E V L G S R C L V A S D D R R V I T V E
S A G G P I V D P K V N A T L I V P I A P F K L S A R P T V V D I K R R I V T L D
S A G G P V V W P D V D A L V V P M N A H A L L F A K P M V I H S S S E I Q I G T
A A G A S M V H P N V P A I M V T P L C P H S L S F R P L V V P A G V E L Q I T
A V D G A T V H P S I E A I Q L S E I A A Y R T I N S S L V L S P K H H T V E L I
S A G G P I L N P N Q S A V L V P I V C S H S L N S R P L V I S A D T S V I A I Y E
S A G G P V I W P D V Q A M M L V P I S A H A L L F A R P L V V A P D S S V E I A I E
A A G G S M V H P Q V P G T L F T P I C P H S L S F R P L I L L P E H V T V A I V
S A N G P I L H A G M E A I A V T P L C P H S L S S R S L I F P A G S V V N I S V
S A G G P L A R P G S H L I M L T P L C P H T L L T N R S F S K N D E I V V
S A G G P I V W P D L E A L L V P S N A H A L F T R P M V T S S P K A C I A V E T
S E R G P L V H P S V E G L V I S E M A P D G G M P L V V S P D A E V T T V A
A A G G S L S H P S D N P V M L I S P C A H S L P F R P I I L S P D S M V I V A
C G G P I I G P E N K N F V L T P I S P H N L S F S R P L I I S D H Q K V Y L K E
S A G G P L M H P D T E A L S L T P I C C P H T L L S N R S L I I F P S E N V K L R V
S A G G P I M N P M V K G Y L T P I C C A H T L L N R P L V I P R E E D A V H I H
S A G G P F I Y P D L E L T I T P I C C P H T K S M Q T L V L K G D S V I D I E E
A A G G P I V E P T A H N L L L T P I C C P H S T R A G S Y V L S P E G H T L L V E K
S A G G P I L S A D T R S Y V L V P I A P H A L V S R P L V L S G E G T E L R L K R
S A G G S M T H P S V P C M L L T P I C P H S L S F R P L L F H D S A T L K I R G
S A G G P V V W P D M E A I V M A P L A A H G L F T R P L V V G P A S K L E I V G M
A A G A S M I H P N V P A I M I T P L C C P H S L S F R P L V V P A G V E L K I M
A A G G P V V S P A A N V M I L N P I C C P H R L H D R A Y I L P E D E V I N L R R
A A G G P V V A P G T D V M I V N P I C C P H R L H D R A Y I L P E D E V I N L R R
S A G G P I L W P E L D A I L V V P N N A H A L F T K P L V V S A P E S R V A V E T
S E G G P L V H P G V E G L V V T E M A S Q E G M P L V V S P L D A T V A T T
S G G G P I V A P Q V K C L M V S P L C P H L L L K M P L V L S G E D A T V A T T
S A G G P V V W P E V E A L L L V P N S A H A L L F A R P L V V S P E R S T I A V E
S A G G P V V E P V A Q T M V V C P I C C T H N M R F S S Y V L S P E H T L A I E
A A G G P V V S P E A D C L I E T P I C C P H S L M D R S I V I E S A D N K E I K
A A G G P I L Q S G L N A F T L V P V C P H S M T N R P I V I E S A D N K E I K
S G G G P I L H P E L D A I A L I A M F P H T L S S R P I V V Q A H S R I K I N

UniRef90_K4LUY0
UniRef90_I1XSB1
UniRef90_Q1LSM7
UniRef90_G8THG9
UniRef90_R5WMZ7
UniRef90_M5TJU7
UniRef90_R4T9Q3
UniRef90_I4EYZ7
UniRef90_Q7UWB8
UniRef90_UPI000367E977
UniRef90_U7LZ33
UniRef90_UPI00040FC483
UniRef90_M3JT54
UniRef90_C8XHR0
UniRef90_R6WE94
UniRef90_S0AT37
UniRef90_UPI0003F5BDE2
UniRef90_K9AWT8
UniRef90_L8H3V3
UniRef90_H8G5G2
UniRef90_UPI0001E2D487
UniRef90_R5QXR7
UniRef90_V9XD96
UniRef90_A0A023BAR7
UniRef90_M7NPW2
UniRef90_M0QMV5
UniRef90_I5AUS9
UniRef90_E6J8A4
UniRef90_K0EMB5
UniRef90_W5AGQ4
UniRef90_G8ZRK2
UniRef90_Q5YY98
UniRef90_A0A021VQ95
UniRef90_UPI00046A4864
UniRef90_L8LVY7
UniRef90_UPI00037BD9E9
UniRef90_X5JFK2
UniRef90_Q753F3
UniRef90_UPI0002234BCF
UniRef90_UPI0003757020
UniRef90_K3WHE1
UniRef90_M775K2
UniRef90_UPI000427AF43
UniRef90_UPI0004147E9F
UniRef90_UPI000361A816
UniRef90_C0XT76
UniRef90_M8E5B2
UniRef90_F5T1Q3
UniRef90_F0SSY1
UniRef90_E0XUF4
UniRef90_C9MYB3
UniRef90_U2T2K9
UniRef90_K9EZS7
UniRef90_W5X8W6
UniRef90_UPI00047862EE
UniRef90_R6DBA0
UniRef90_W6N1A0
UniRef90_S5UN3
UniRef90_T0LG72
UniRef90_T1CXH6
UniRef90_R5EES9
UniRef90_Q64AB4
UniRef90_UPI00047882C1
UniRef90_G1THB2
UniRef90_V6M8B1
UniRef90_I2AYT8
UniRef90_I0QZN6
UniRef90_UPI00042B80B9
UniRef90_UPI00035C1ED1
UniRef90_R5L602
UniRef90_D6Z7U7
UniRef90_E4NNV7
UniRef90_S8A8P5
UniRef90_M4ZTI5
UniRef90_B5JHJ6
UniRef90_E7MZX0
UniRef90_A6LU50
UniRef90_R6D710
UniRef90_A0A023X326
UniRef90_T0R417
UniRef90_K0YRS8
UniRef90_F7D4D7
UniRef90_H6LEJ8
UniRef90_E3GEE1
UniRef90_D7WCY5
UniRef90_M0IMY7
UniRef90_F5TG15
UniRef90_D6Y1W8
UniRef90_U2QWB7
UniRef90_R6QG07
UniRef90_V9HCZ7
UniRef90_A0FD67

S P E N M V T I D 210 Q I G Y P L N D C V I R K A A V Y T N L V K V R S F S E K V
T S Q D L E V G C D S Q Q I A L P F S D V V H I R Q K S A E H K L R L L H L Y N Y F N K V
F S Q D M E L S C C D S R K E V D K K V Q L A V I R R N E S D Y Y L L D L L H P Y N N Y F N L
I E T F I C A L C D S R K E V D K K V Q L A V I R R N E S D Y Y L L D L L H P Y N N Y F N L
V D E T T C I L V S F D G G N D Y E L G V D V L D V I C T S Q R T T K L I K R A S D N F Y E I
I V D P A V L T C D G R S R T F D L G A A V R V R V N R A G P V S F R M L V R L V R L Q P
V P R A R V S A D G R R I T E V P D R A V R V R R S D R P V R I A R P T S F G D R T
V E S T S I V V D G R I Q L K S G L P S R S H I E R R A P V Q P L T L A R I V Q P N D Y T D R
E E S A V L W C C D G R E L P P G A R V E V R G R K R P L R W V R L D D F T D R
S T P A V L L D G C R E L P P G A R V E V R G R K R P L R W V R L D D F T D R
T P N A W C C S F D G K V R T E L G Y V T I V R Q A S F P F P T V V S T K Y F F D S
I D P A I L V C D G R R T P P G S R A H I C K G E K P V T L V R L G D F T D R T
V H N S L V A A D G R R C G N G Q T L T I R R S P Y D A H I V K P K D Y F S T R
I I S S L V I D G Q R E V I G E N D R I D I R R V S D E R L T F I E L K N F Y D R
V E N F L V S L D S R K I I D A G I Q L A V R K E K F K A H I V K F D N F L G T R
I S P A V L W C D G R R A L E L G A R V V E A K R S E S P I K L A R L H P F T D R
V P E G W V S F D G R T R T E L N S R V V I K I S R W P I P C I N K T D H I G D R
V D P A V L T C D G L R H L E P G S R V V Q V V A G E V P V R L A R L W D F T D R
C H G A M V T V D G G N G Y E L G D N I T R K S S R C L K M V R L S D F F D V
I H Q A E V N F D G Q Q A L T I G D R I R V H Q S E Q V R L L H I N S F L Q M
T H D G V V F C D G R R I I D V G A R L E V V R G C D P V R W V R L D S
V P D V W L S L D G H E E V L P G H H V V A A V S A N P M P
I E H F L V S L D S R R T V D A S V Q M A V R K E A F R A K L V K L Y N F F D T
I D K A I A L C D G R R P I D V G A R V E I V R S E R S V Q W V R L D S F A D R T
V E N A M A Y F D G R R K T P M D G S R V E I T R S E Y R D T L I R R N D S F L E T
S G P A V V L D G R R L V D P M G S R V E V V R G R D P V K W V R L D D F T D R
A H D A I V F L D G R R T L D L G G R L E A V R G A Q P V R W V R L D S
V P Q A W A S F D G K G R I E L Q L G D A L I C S V S P W P L P T A C L V D S T T D
V S T A W A F D G K S R I E L G D Y I T I Q A S P Y S F P T V E S H P
S H D A I V F L D G R R T L A L G G R V E A V R G S E P V R W V R L D S
I A P G V L T C D G R R K L P P G A R V V V R R S E R P V R L A R L M S H F T D R
M G S G I L W C D G R R S L P P G A R V V V R R S E R P V R L A R L M S H F T N R
P N R M V M V D G N G Y I V P D D R I N I S K S Q F N A R F I R L K S F F R I
V D P A V L C C D G R R V L P P G S E V V T V R R S V L P V R V A R L R S F F D R
P P R L L M T C D G N G Y I L P T V R V Y L E R S Q Y V T R F I R L Q S F F R I
V P K A W A F D G K S R V E L G D Y I S V T A S P Y S F P T L E P T D F I D S
L S P V W V S F D G R K R L E H G D S I S I T T S C Y P L P S L C V Q D P V R D
L L P G V L W C D G R R R F E L G T R V I E V R G A E P V R L A R L H
A T S A Y V S F D G K N R V Q L G D C I M V R V S S F P V P S I C R V N E N Q D
V P R A Y C A F D G K G R V E A N T Q M A I R K C H Y E A K L I Q M R T D T E T
I E N F L V S L D S R S R V E A N T Q M A I R K C H Y E A K L I Q M R T D T E T
V H D A V A L S D G R R I V D V G A R V E V V R A Q R S L K W I R I N S F A D R
I E N F L C T L D S R R E T I T S V H S L A V R K N S F G L N V R L P N F M E T
S E E A N V L D G F R T I E P G S R V E A V R G R P V R W V R L H P F T D R
V P E I M I G L D R E Q G V W K D V R I T C R V G G E K V K F A R Y K K L T
L S E A M V T C D G R P V L Q P G G Q T V R R E K H E S R I R L L H H H H Y Y S
A E N V I A V I D G H I H F S H G D V L R R F R Q A P F N C Q V M R F H S Y S Y E T
V R E A N L S V D G R S V A A L G D V M I A T R S E V T A R L V T S G S F Q Q V
A D S V H L N I D G N Q W I Q P N D L V S A R L S K K K I R I I R K S S D Y Y S I
V N D T H L N I D G R I R K Q E D E I S A V M S N R K V K I I R P S S D Y Y G L
R E G A K V W C D G R S V E A G A V L R A V R G A Q P V L L A R L S D
L E K A H L I V D G Q K M T E V T D E V I V M R S C Y D H W M V R N H N F Y H L
C H A A A L A V D G R T H R P L N D S V A V R R A P E V A H F V R N S Y F Y Q T
I G Q A V L I A D G R N V L Q T G D V L E I Q V P K A D T K I I K L S D F F Y E K
V R N F L S V D G R E W I N I S G S V N L T K S K Y T R K L I R F S D F F K T
S R S A M V V D G F R N I P P G S R V E A V T G D R P V R W V R L D D F T D R
M E E S I I L D G Q E E I D I G D K V E I R K C D Q A A K F I T R R N F F T K
L E D G M I L I D G Q R T I T F N K T L N V R K S C N I P L I Q N R S F A V
M R N A Y V S I D G G R I N L G D V T V Q K S H L E T K L V R L R S F Y D V
V K D A E L V I D G Q F R L E K E D G I S I T R G E P A F F V K V A D H F L K
V E S G A L I A D G K Q I A Q L G S T V S I T R R S P R P V K L V R M R S F P S R
L S P A W V S F D G R K R I R H G D S I S I T T S C Y P L P S L C V R D A V S D
V P E I M I G L D R E Q G V W K N V R I I C R V G Q E K V K F A R Y K K L T
I T D P V L S I D G R H D L R S H G K V T I T Q K A Q K K V T V L H D Y N Y S D T
V L R G V I W C D G R R A T D L G S R I E V K K S I P M A I L T D F S D R
V S P A W A S F D G K D R K Q L G D A L L C S M A P W P V P T A C Q V D S T N D
P L N I K L W T D G A T T I W P N Q R V R V R M A D C H A K F I E N Y S F Y A A
I E R R T V A F D G D I Y N I G D I I R I S V A D E T T E L A K L S F L Q A
P R D G V V V C D G R R E I P P K G R V E L R R G S T P V H W A R L D S F A D R
V E E A V V S D G R Q R V T P P T E V T I A A S D P V R L A G P S S D F F E
V P T A W A S F D G K Q E R V E L G D Y V T V A A S R Y P F A F I Q S K P H Q G D
I H S R V L S M D T R T S L N Q E N E L Y I Q K A P F Y I Y L L Q K N T Y Y K T
G Q R L L V A L D G Q R N L N I G S S T L G V S V S Q Q L Q I A Q D Y S H F N V
R Q S I I V T L D G Q E T F P P D D S T V T V K C S D L R A G I I K F K D Y Y Q T
E E K L Y L T V D G Q K A K I N H E V S K N K K S V K L L V F D D Y D Y F K V
T A D A Y L S V D G G K A F S L G D M V R R T R Q S K F V T K L V R L K S F C E
E R A A V L S V D G N E R L G A G D V V R A R L S D E S V R I G R T D E W T
T S S V N V S F D G K T R L R L G D A L Y V R V S S D E S P L P S V C R L N E N E D
V T S P E L W C D G R N S L P P G S S V T T V G Q W P V R L V R L D D F F S T R
L S P A W V S F D G R K R Q E I R H G D S I T T S C Y P L P S I C V R D P V S D
E K D I M V T F D G Q T T V S P E D T V K I K K A S Y C T R L I R L N N F Y D R
E R D I I V S F D G Q N I I P G D E V I V K K A P Y T A N L V R L N N F Y D R
S T P A D V V L D G F R H L D P G S R L D V V R G V K P V R L V R L D D F T D R
V D S A V V V G D G R R T I L S P P T E V T R I E R S D S P V R L A G P T S D F F E
A A H V R I S I D G M R D Q E L P R S V T V K R S P Y T L Q M L R F D E F Y T N
I S A G V L W C D G R R D F L P G R V E V R R S P T V R L A R L
L E R V Y L F V D E S R A F S L D D K I Q V R R S K H T V R L V R L R S F C E I
A N N P I M T V D G Q E A V N L D Q C E I H I K T S D I K T K L I K N K N F Y E L
V T K A V V H Y D G Q T Y F D V L Q D K L I L Q R Y C P L R V I N P Y Q Y Q T
I S P P S V S N D G Q Y R V T L G S I I F I R K Y K H L L H L I H P Y N Y D M

UniRef90_K4LUY0 L R L K M R
UniRef90_I1XSB1 L S S K L
UniRef90_Q1LSM7 L S R K L
UniRef90_G8THG9 L R N K L
UniRef90_R5WMZ7 L R N K L
UniRef90_M5TJU7 L R E K L
UniRef90_R4T9Q3 L V H K
UniRef90_I4EYZ7 L V A K
UniRef90_Q7UWB8 L R E K L
UniRef90_UPI000367E977 L V R K F Q
UniRef90_U7LZ33 L V S K L R
UniRef90_UPI00040FC483 L V D K
UniRef90_M3JT54 V S R N L H
UniRef90_C8XHR0 L V R K F K
UniRef90_R6WE94 L R A K M
UniRef90_S0AT37 L R E K L
UniRef90_UPI0003F5BDE2 L R N K L
UniRef90_K9AWT8 L V A K F R
UniRef90_L8H3V3 W F R S L
UniRef90_H8G5G2 L V H K
UniRef90_UPI0001E2D487 L R S K L
UniRef90_R5QRX7 L H K K M
UniRef90_V9XD96
UniRef90_A0A023BAR7
UniRef90_M7NPW2 L R Q K L
UniRef90_M0QMV5 L V T K
UniRef90_I5AUS9 L K R K M S D L
UniRef90_E6J8A4 L V T K
UniRef90_K0EMB5
UniRef90_W5AGQ4 F L R S L H
UniRef90_G8ZRK2
UniRef90_Q5YY98
UniRef90_A0A021VQ95 L V S R
UniRef90_UPI00046A4864 L V R K F Q
UniRef90_L8LVY7 L R E K L
UniRef90_UPI00037BD9E9 L V A K
UniRef90_X5JFK2 L R E K L
UniRef90_Q753F3 L R R T L
UniRef90_UPI0002234BCF W F E S L
UniRef90_UPI0003757020
UniRef90_K3WHE1 W F E S M
UniRef90_M7T5K2 W F D S V R T L
UniRef90_UPI000427AF43 L R S K L
UniRef90_UPI0004147E9F L V T K
UniRef90_UPI000361A816 L R S K L
UniRef90_C0XT76 L V H K F Q
UniRef90_M8E5B2 F W S R V R
UniRef90_F5T1Q3 L R A K L
UniRef90_F0SSY1 L H R K L
UniRef90_E0XUF4 L K Q K
UniRef90_C9MYB3 L R Q K L K
UniRef90_U2T2K9 L R E K L R
UniRef90_K9EZS7
UniRef90_W5X8W6 L R E K L K
UniRef90_UPI00047862EE L T R R L R
UniRef90_R6DBA0 M R E K L
UniRef90_W6N1A0 L R N K L
UniRef90_S5SUN3 L V T K L R
UniRef90_T0LG72 F R E K L
UniRef90_T1CXX6 L K E K
UniRef90_R5EES9 V N A K F K
UniRef90_Q64AB4 L G D K L R S
UniRef90_UPI00047882C1 L V S K L
UniRef90_G1THB2 W F E S L
UniRef90_V6M8B1 F W S R V R N
UniRef90_I2AYT8 L R E K L
UniRef90_I0QZN6 L V R K
UniRef90_UPI00042B80B9 F L R S L H
UniRef90_UPI00035C1ED1 L R E K L Q
UniRef90_R5L602 V K D K L R
UniRef90_D6Z7U7 L V R K
UniRef90_E4NNV7 A L G K L
UniRef90_S8A8P5 W F D S L R T L
UniRef90_M4ZTI5 L R E K L
UniRef90_B5JHJ6 V R H K L K
UniRef90_E7MZX0 L R T K L
UniRef90_A6LU50 L R S K L
UniRef90_R6D7I0 L D S K M
UniRef90_A0A023X326 W W R A V R
UniRef90_T0R417 W F E S V K
UniRef90_K0YRS8 L V Q K
UniRef90_F7D4D7 W F E S L
UniRef90_H6LEJ8 L R V K L
UniRef90_E3GEE1 L R K K L
UniRef90_D7WCY5 L V H K L Q
UniRef90_M0IMY7 A L G K L
UniRef90_F5TGI5 L F T K M
UniRef90_D6Y1W8
UniRef90_U2QWB7 F A Q K M
UniRef90_R6QGU7 L N K K L
UniRef90_V9HCZ7 L R Q K L H
UniRef90_A0FD67 L R H K L

1 10 20 30 40
UniRef90_W8U5P3 MK I Y I S T N E Q P Y S L E L L P K L K H A L E S Y G F V V P D D F D A R A 40
UniRef90_A3DDM2 L K I G I T P N E D K Y T R I L V D S L K K C G G T A V C D D I A N I V D M S
UniRef90_Q3ANS5 M N F G I V V N I S R E A R T L A T W F D E R H I G Y M F E T L S E E L N G C H C
UniRef90_U1PWC4 R I A I V A H P D G S V S T I T G L R D S G L S V D P H P D R D S V N G C
UniRef90_C4K708 R I A I V A H P D G S V S T I T G L R D S G L S V D P H P D R D S V N G C
UniRef90_R7UUT4 F K D I K G K L C S F K E G V D D L D K I
UniRef90_K9YAE3 V I I A Y K G D K N S K E W A D A L E K R G C K V L V G P S G I K D G N E I
UniRef90_S7Q6I3
UniRef90_F6E127 V I E A G P D A A A G C
UniRef90_C0B115 Y L E T H H H T I V L V D R L K K H L G E Y S Y F D D N E L L K S N I
UniRef90_D3ENF3 E K I
UniRef90_R6CG56 K I
UniRef90_F0T094 Q L I N W F N A H D W E C V I D W N Q Q K D E H V
UniRef90_R6PTT9 R A A Q I L L N H G S H V L M R E E L Q A S C N T M G V S Y L P E E C L Q Q A
UniRef90_W9XME4 K Y W T V D L A R K H P Q T F
UniRef90_U1FAM7 K C R I V V N T S K E S Q A L G N E I K R F L A E K N I A S S D A N P F S D S
UniRef90_UPI0003B6B6E3 E I L Q W L R V H G H M A A L I E A G G E D D E E L
UniRef90_A3ZQ19 E E A V R L Q Q I I P Q Y A E L V H V D L D W K S E L S D A
UniRef90_UPI000288FD15 I V K N I N D V K I K I F D D L R S F S K E D S E Q I
UniRef90_Q7QHC1 K R F T K L Q D K L I T F K D G R D D L D K I
UniRef90_Q3ZZJ0 K I G I I Y H P C D L A I K L T A K L D S L G I E A W Q A D K L T S K M Q N T
UniRef90_G7QCQ0 I L I I Y K A D H E Q V R V A D W L A A R G I T V L L R E N I P E G P T P P
UniRef90_I6Z750 M K L G L I P N I S K E V D L L V R Q I R E A G I E Y A L S N I L D E L T K Y S
UniRef90_S7TYB1 R I C L I V R D R P E A R R L A A E I T T W C G E R S V F L F P R D S L E S S
UniRef90_F4XU49
UniRef90_X1LSP8 M K V A L L A K E E I L L E R L A K K L R K R G V E A R M L R R A
UniRef90_UPI000379FC6B L K I G F I S R P D D L I G I L Y R Y L K H E G H E V M I E Q S A A S E M K N A
UniRef90_Q0EYA5 R I G I T V K P N D E R A E L H R W L I E R Q C T V Y I D E H L H E M A D K V
UniRef90_P58058 F R E D Y D D I S N Q I
UniRef90_X1UMX0 V S N W L G N R I H R H D L V A D K S E I G E I S
UniRef90_K4AQG0 D K E I
UniRef90_D8LVH1 V Y K E L Q P C N V V T W K E E D R Y N L S N L I
UniRef90_H6BMZ8 K Y W T V D L A R K H P H T F
UniRef90_B0CFD9 V I I V Y K G D T H S Q R W A E K L E A Q G C H I L M G P S G P K D T Q A I
UniRef90_UPI00046AE1C5 M K V A I V A N N V P H T Q K V K D R L I Q K F I D R H F D I D Q Q A P
UniRef90_K9S455 A E R C T Q E L E A L G C K V L L G P S G P K D S K R I
UniRef90_W0TEZ5 I N V I V Q P D V A E E I S Q D F R S M Q P H V L Y T G P N S E I I K K T
UniRef90_F9VK22 M I F G I S V N T D K I V S E I E F V L K E K N C E V R I F L D G A N L E N E L
UniRef90_UPI000364218A A I I S K P Q K I L R D L I A W L E A R H Y H Y L L D P D S A A Y I D K P
UniRef90_K9XAS1
UniRef90_UPI0003767A13 I I E D G A A A A E N V
UniRef90_F2NVZ5 K C L I I A N S F K E N N E I S V F L K K E N I E N S L F K L L D I D F S G Y
UniRef90_UPI0003B65632 D I R K E A E S A
UniRef90_N2BAM1 K V G I I L R P Q S H I K E I Q K K L E K A D I Q V M L E S S S A K M L D H V
UniRef90_A5AU2 N E V
UniRef90_R5CVE8 E A I P A E V K I S D W A A V S N E A
UniRef90_K6NY91 G Q E M A A R L A P W L D R R G V A V V H L P A A G V D P A E A
UniRef90_W0P1T7 I L Y K N N G Y K V F I E R T I K E L K L D S A N T A T L E I G Q S C
UniRef90_U7QDM9 K A G I I Y N D A K I A S E L K D K L T S N G W Q V H T A T G P G F D E D M
UniRef90_Q6LA56 D N I T V F I Q K S M E D L K I Q Y W T T L L C T K H S Q L F
UniRef90_UPI000466EC14 V L V I Y K A D H D L A R V A D W L A R R G V V C L V R E N L P D A P H S P
UniRef90_K9F2Y0 V I I V H K S K S W A E K C A Q L L E K R G A S V L L G P S G P K D Q Q P I
UniRef90_Q4MZY8 Q M V T H F E D P L K T Q N L S Q K D L D E V
UniRef90_N1QMV5 V H F W T P S V C L E K P E L F
UniRef90_I3RDS5 D V
UniRef90_A6CQX3 M K F A I T S K G D S K S N T L M H K M R T Y L Q D F E L V Y D E E E P
UniRef90_W1U2A1 M K I G I A I N P S K D I N K I K D V F K K E V H I N S Y D L E R Q N L K S I
UniRef90_K0KC12 N D V A E E I S Q E F K E R S P H V L Y T G E M S E I V P K T
UniRef90_UPI000379BBCF L A R Q Y G T L S F S E K I K E G P A A I
UniRef90_UPI0004767DEF R I A I V G R R R T S V L Q L A E F L K D Q G L T V Y L D A E A E M G N I A V
UniRef90_I4EIB2 R I G L I A A Q N K L A D E I K R W L G T R G C D V I S E D N L L A G I A P P
UniRef90_M7NNT3 K Y W T F E L C T E Y S S L F
UniRef90_UPI00036CFEC2 D R Q E L A N K H I
UniRef90_F3B1B5 M K F F L V G N S E K D L L S L E K E I N D R G G V C Y K S Y G Y D D I A Q K V
UniRef90_K2GBJ2 M K F A I L S K G D R K S N E L R T K I K N Y L A E F K L E Y D E D T P
UniRef90_W1TT58 M L V G I F P N L S K H V N D L C K H L K N A D I D F Y I L D S Y R E E A Q Q M
UniRef90_K0AEM7 M R F A V T A R G D E R S H M L K E Q L E Q A L I E R G S H R D T V T P
UniRef90_U7JH61
UniRef90_R5ID46 G T D I R E F S G P E D L P G D V
UniRef90_F8AN76 I E Y E P M T D L N D I
UniRef90_H0UK93 E L A R R L L D W G E E L G V Q I R L P Q R E A H A L R T V
UniRef90_B2J7W1 A R S K Q W A E I C A K Q L E S R E C Q V L M G P S G P K D A Q P I
UniRef90_A0JMF0 D D G S L M S D E S F S A I C N Q L C T F R E G Y D D I S D C
UniRef90_UPI0003820F69 M K F A I V S K G D P Q S N E Y V Q K I R S Y L E D F R F R Y D E D Q P
UniRef90_Q6A7W9 P D D Q A K P M S S K L P G I D L E S L G E F A H E A
UniRef90_U4L9I6 Y W T P K M C T T K P G G F
UniRef90_W9RHY3 N E I T H L H R K V
UniRef90_W6MIK1 I I V S P D V A D E I A E E T K E S K Q P C V I Y S G K N S E I V Q K T
UniRef90_H5WWS7 G P P C A V V A P D D R P A R G A
UniRef90_R5UY99 E L R A L F F D K S F Y Q P L L I E A V Q E A
UniRef90_G2ML58 M L V G I I A K R D N R A A E I R D S L R E A D V E V W L D E H P V I E M A D C
UniRef90_M2X7R3 V G L V L H P Q R D S K E I V E W A R T R G G T V A V A V D A Q T L V N K A
UniRef90_W2EKU9 R V W L I Y R A D S E A R R C A D A L T D L G V T V S L A G L L A S E T E L P
UniRef90_A3Z349 A L N K A V G F L K K G V E L I F F S T H D L M E V P
UniRef90_K2D4G8 G D E D A R D L A D W L K S R G V A V R C E W T N S V I E P Q F K S
UniRef90_T2GEE7 I N V I V Q P D V A E E I A Q D F R S N E P H V L E T G T E D E I V A K T
UniRef90_G8ZYQ1 A E E L R A S L C A T A P E C V L Y G S E S E I A A R A
UniRef90_R9X9V9
UniRef90_K9RR74
UniRef90_S7X8Q4
UniRef90_I3IQV9 L K P W L E K Y G I E I D L S K E K K F E R V G A
UniRef90_U5L7R6 M K F A I T S K G D S K S N T L M H K M K T Y L L D F D L I Y D E D Q P

UniRef90_W8U5P3
UniRef90_A3DDM2
UniRef90_Q3ANS5
UniRef90_U1PWC4
UniRef90_C4K708
UniRef90_R7UUT4
UniRef90_K9YAE3
UniRef90_S7Q6I3
UniRef90_F6E127
UniRef90_C0B115
UniRef90_D3ENF3
UniRef90_R6CG56
UniRef90_F0T094
UniRef90_R6PTT9
UniRef90_W9XME4
UniRef90_U1FAM7
UniRef90_UPI0003B6B6E3
UniRef90_A3ZQ19
UniRef90_UPI000288FD15
UniRef90_Q7QHC1
UniRef90_Q3ZZJ0
UniRef90_G7QCQ0
UniRef90_I6Z750
UniRef90_S7TYB1
UniRef90_F4XU49
UniRef90_X1LSP8
UniRef90_UPI000379FC6B
UniRef90_Q0EYA5
UniRef90_P58058
UniRef90_X1UMX0
UniRef90_K4AQG0
UniRef90_D8LVH1
UniRef90_H6BMZ8
UniRef90_B0CFD9
UniRef90_UPI00046AE1C5
UniRef90_K9S455
UniRef90_W0TEZ5
UniRef90_F9VK22
UniRef90_UPI000364218A
UniRef90_K9XAS1
UniRef90_UPI0003767A13
UniRef90_F2NVZ5
UniRef90_UPI0003B65632
UniRef90_N2BAM1
UniRef90_A5AUE2
UniRef90_R5CVE8
UniRef90_K6NY91
UniRef90_W0P1T7
UniRef90_U7QDM9
UniRef90_Q6LA56
UniRef90_UPI000466EC14
UniRef90_K9F2Y0
UniRef90_Q4MZY8
UniRef90_N1QMV5
UniRef90_I3RDS5
UniRef90_A6CQX3
UniRef90_W1U2A1
UniRef90_K0KC12
UniRef90_UPI000379BBCF
UniRef90_UPI0004767DEF
UniRef90_I4EIB2
UniRef90_M7NNT3
UniRef90_UPI00036CFEC2
UniRef90_F3B1B5
UniRef90_K2GBJ2
UniRef90_W1TT58
UniRef90_K0AEM7
UniRef90_U7JH61
UniRef90_R5ID46
UniRef90_F8AN76
UniRef90_H0UK93
UniRef90_B2J7W1
UniRef90_A0JMF0
UniRef90_UPI0003820F69
UniRef90_Q6A7W9
UniRef90_U4L9I6
UniRef90_W9RHY3
UniRef90_W6MIK1
UniRef90_H5WWS7
UniRef90_R5UY9P
UniRef90_G2ML58
UniRef90_M2X7R3
UniRef90_W2EKU9
UniRef90_A3Z349
UniRef90_K2D4G8
UniRef90_T2GEE7
UniRef90_G8ZYQ1
UniRef90_R9XFV9
UniRef90_K9RR74
UniRef90_S7X8Q4
UniRef90_I3IQV9
UniRef90_U5L7R6

E L I I C I G G D G T F L N T L H K Y N P K L P L V G I V N N T G H L G F F Q E I V H
D V M V S L G G D G T L L K A A R M T V K G K P L L V G I V N N Y G K L L G F F L A E D V D
D V F I S L G G D G T L L F T A A R H H A V T K P P L L V G I V N N Y G K L L G F F L A E D V D
E L I L V V G G D G T L L R A A E L H S R A V V V P P L L V G I V N N Y G K L L G F F L A E D V D
D L A I V V G G D G T M L G A A S T L A Q Q D I P K I V I G G V N N R G N S L L G F F L A E D V D
UniRef90_R7UUT4
D L I I C I G G D G T L L Y A A S T L R Q Q D I P P I M A F H L G G F L L S P F E
UniRef90_K9YAE3
D L A I V L G G D G T A L A A A R Q L S P G V P Q I V I G G V N N V L G G F L L S P F E
UniRef90_S7Q6I3
S L I I T L G G D G T L L H A S S L F R S S V P P I V L S G F S M G T L I G F F L L S P F H
UniRef90_F6E127
E L I V S L G G D G T M L R A A D L A R S S G I P I V L S G F S M G T L I G F F L L S P F H
UniRef90_C0B115
D F L F S I G G D G T L L R S V T V V R N S I P I F G I N N T G R M G F L L S P F H
UniRef90_D3ENF3
D L A I I L G G D G T V L A A A R Q L A P G I P I L A I N N G G L L T E P F T S E L F
UniRef90_R6CG56
D L V I S V G G D G T L L H S A R R V Q L D C I P I L L G V I N N A G K L L G F F L L S P F E
UniRef90_F0T094
E F I V S L G G D G T V L E S A R R E A P Q I P I V L G V I N N Y G K L L G F F L L S P F E
UniRef90_R6PTT9
D I I L T I G G D G T I L H E A N L L E Y K K P I L L G S V N N L G R S L L G F F L L S P F E
UniRef90_W9XME4
D F V I T L G G D G T V L Y A A R W L F Q R V P P I V L L G V I N N Y G K L L G F F L L S P F E
UniRef90_U1FAM7
D F A V T L G G D G T V L F A A R R V C A S G I P I V L F P V N L G R S L L G F F L L S P F E
UniRef90_UPI0003B6B6E3
D F V V V L G G D G T M L G V A R R L G R P V P I V L F G I V N N F G R K L V G F F L L S P F E
UniRef90_A3ZQ19
D F A I V L G G D G S L L A A A R S M G R Q V P I V L A G V I N N F G K L L G F F L L S P F E
UniRef90_UPI000288FD15
D M I S L G G D G T L L S T A S N M K Y N I P I L L G V I N N L G R S L L G F F L L S P F E
UniRef90_Q7QHC1
D F I I C I G G D G T L L Y A S L L F Q K V P P I V M A F H L G S L L G F F L L S P F Q
UniRef90_Q3ZZJ0
Q L I F T T G G D G T L L R T A H A L P L E I P I V L L G V I N N L G R K V G F M T S E L S
UniRef90_G7QCQ0
Q L A L I L G G D G T M L S A A R R A A D G I P I F F G I V N N L G R K V G F M T S E L S
UniRef90_I6Z750
D M V V S I G G D G T I L S T A Y S I R N T T P V I G V I N N L G K M G F L A E F D
UniRef90_S7TYB1
E F V L V L G G D G T F I S V A R A L L G S G V P I L L G V I N N M G G R L L G F F L L E A D
UniRef90_F4XU49
D L A V V L G G D G T V L A A A R H L A P G I P I L L A V N V G G R H L G F L L E A D P
UniRef90_X1LSP8
D A I V T I G G D G T V L F A Q Q Q A P E T P M L G I N N L G G E R F G F L L A S D V T
UniRef90_UPI000379FC6B
E I I T V L G G D G T A L W T L K R V F N S D T A I L P I L N M G R L G F F L L S E I T
UniRef90_Q0EYA5
E L M I V L G G D G T L L H A A R H F N S D T A I L G L I N N L G R L G F F L L S E I T P
UniRef90_P58058
D F I I C I G G D G T L L Y A S S L F Q S V P P I V M A F H L G S L L G F F L L S P F N
UniRef90_X1UMX0
D L V I S L G G D G T I C R A A R D F A P Y V P I L L G V I N N F G R L L G F F L L S P F
UniRef90_K4AQG0
D L F F T F G G D G T I V N S L T F I E N E I P I V L V G I N N F G R L L G F F L L S P F
UniRef90_D8LVH1
D F V V T L G G D G T L L F A S L L F K T V P P I V I S F H M G S L L G F F L L S P F F
UniRef90_H6BMZ8
D F V I T L G G D G T V L Y A A S W L F Q R V P P I V L A F S L G S L L G F F L L S P F D
UniRef90_B0CFD9
D L A I V L G G D G T A L A A A R H L A D G I P I L L A V N L G G L L T E P A D L F
UniRef90_UPI00046AE1C5
D V V V T I G G D G T L L S A F H Q Y K D R V D F V A V N H T G H L G F Y T D W R
UniRef90_K9S455
D L A V V L G G D G T A L A A A R H L S D E V P I L L A V S L V G T H L G F L L T E P
UniRef90_W0TEZ5
D L L V T L G G D G T I L R S V S L F S H V P P I V L A F S L G T L G F L L T P F D
UniRef90_F9VK22
S F L F I V G G D G T I L R V V K I A Y D L P I L I G V N N Y G T L G F M A S I E
UniRef90_UPI000364218A
N L V I V L G G D G T L L A A A R A F A R T T P I L L S V N N L G S L L G F F L L S E I P
UniRef90_K9XAS1
D M A L V L G G D G T A L S A A R L A A D R I P I L L A V N L G S F L L T E S F D V F
UniRef90_UPI0003767A13
D L V F A L G G D G T M L R A A E L A R A G V P V L G V N N L G R V G F L A E A D
UniRef90_F2NVZ5
D F V I T L G G D G T V L F A C R G C A P G I P I V F P I V N M G S F G F M A E L P
UniRef90_UPI0003B65632
D L L I C F G G D G T I L H S A K L A A E H I P I L I G V I N N M G S V G F M A E L P
UniRef90_N2BAM1
D M L F S I G G D G T L L S V A N Q Y G S N V P I L L G I N S G S R L G Y L T I A L
UniRef90_A5AUE2
D L V I T L G G D G T V L W A A S L F G N P V P P I L L G V I N N L G S L L G F F M T P F R
UniRef90_R5CVE8
T L F I I I G G D G T M L H A A R Y L N H D I P M V L G I N N L G T K G F M A P L E
UniRef90_K6NY91
G V V V S L G G D G T L L R A A R V V P A A V P L L G I V N N L G R L V G F L A E L S
UniRef90_W0P1T7
D L A V V I G G D G T L L C A A R V L S Y D I K I L G I N N R G N L G F F L L T E L N
UniRef90_U7QDM9
A F A I V L G G D G T V L S A S R Q I A P G I P M L T V N T G H M G F L L T E T Y
UniRef90_Q6LA56
D L V L T L G G D G T V L Y T S R L F Q R V P P I M P F A M G T L G F L L T H F D
UniRef90_UPI000466EC14
D L A L V L G G D G T M L S A A R K L V D G V P I L L G I N N L G R V G F M T S A G
UniRef90_K9F2Y0
D L A I V L G G D G T A L A A A R H L A P Q I P I L L A V N L G G H T G F M S S D E I
UniRef90_Q4MZY8
D L V I T V G G D G T M L R V N K L F Q D I P P I V I G I T M G S L L G Y M A K F N
UniRef90_N1QMV5
D L V L T L G G D G T V L Y T S W L F Q R V P P I V L S A F S L G S L L G F F L L T N F D
UniRef90_I3RDS5
D F I I A I G G D G T I L R I E H T K R D I P I L L S I N M G T L G F L L T E V E
UniRef90_A6CQX3
D I V I S V G G D G T L L Y A F H R Y S D K T A F V G V H T G H L G F Y A D W V
UniRef90_W1U2A1
E L L V V L G G D G T L L S A A R S V K E N G P L F G I N N L G N L G F F L L S I E
UniRef90_K0KC12
D L L V T L G G D G T I L R G V S L F G R V P P I V L S F S L G T L G F L L S P F D
UniRef90_UPI000379BBCF
N L A I S L G G D G T L L R M V K C V A P Y I P V C G V N M G Q L G F L L A E L E
UniRef90_UPI0004767DEF
D L A V V I G G D G T L L G V A R L L A H N V P I L I G V I N N Q G R L G F M T D V P
UniRef90_I4EIB2
S V L V T L G G D G L I M R M A H E L P D V P I L I G V I N N Q G R K I G F L A M T E
UniRef90_M7NNT3
D F V I T L G G D G T V L Y S S W L F Q K V P P I V L S F S L G S L L G F F L A M F D
UniRef90_UPI00036CFEC2
D V A I V V G G D G T F L D V A R T I V D N I P I L L G I N N L G M G F L L S I S
UniRef90_F3B1B5
E C V I T L G G D G T L I R A A R D I S H G I P I L I G I N N M G R H M G Y L T S I S
UniRef90_K2GBJ2
E L V L S V G G D G T L L E A F H T Y L D D T A F L G I H T G H L G F Y A D W M
UniRef90_W1TT58
D M A F T L G G D G T L I S V A K L L P Y D I P L C I T L V G I N N L G E L L G F F L N M I E
UniRef90_K0AEM7
E I V I S L G G D G T M L Q A F H S Y L D Q I P I L V G I H T G H L G F Y A D W R
UniRef90_U7JH61
E V V V F G G D G T I L R A A W A L P R R V P M L G V N N L G H V G F L A E L E
UniRef90_R5ID46
D L F L S L G G D G T F L N A L T I V G D G I P I V A G I N N F G R L L G F F L L S T G N
UniRef90_F8AN76
S H I I S I G G D G T V L R A S R V I N G N I P I V I P I N M G T V G F L L T E F N
UniRef90_H0UK93
D A A I V I G G D G T F L R A A R R I G K D I P I L F G I N N V G H L G F L L A T G T S
UniRef90_B2J7W1
D L A I V L G G D G T V L T G A R H L A P G I P I L L G V I N N V G H L G F L L T E S
UniRef90_A0JMF0
D L I I C I G G D G T L L Y A S S L F Q S V P P I V M A F H L G S L L G F F L L P F K
UniRef90_UPI0003820F69
E I V I S V G G D G T F L Y A F H K Y K E H T A F V G V H T G H L G F Y A D W V
UniRef90_Q6A7W9
E V V V F G G D G T V L R A A W S L P R H V P M I G V N N L G H V G F F L A E L E
UniRef90_U4L9I6
D F V I T L G G D G T V L Y A S W L F Q K V P P I V L S F A L L G S L L G F M R S L L N
UniRef90_W9RHY3
D L V V T L G G D G T V L Q A A S M F G P V P P V V P F S L L G S L L G F M T P F C
UniRef90_W6MIK1
D L L V S L G G D G T I L R G V S T F S N V P P I V L S F S L G T L G F F L L P F N
UniRef90_H5WWS7
E L V L V L G G D G T L L R A A E V F A R P G V A V L L G V N L G R M G F L L T E A D
UniRef90_R5UY9P
E F A I A I G G D G T I L R A S H L I H T N T K L L L G I N N T G R L G F M A A L E
UniRef90_G2ML58
D L A V S I G G D G T F L F A A R N V R A V P I V L M S F N L L G S L L G F F L N A V G
UniRef90_M2X7R3
D F V I C I G G D G L L H V C S A N L R A V P I V M S F N L L G S L L G F F L L P F D
UniRef90_W2EKU9
D L L V S L G G D G T M L R T M R L T G R P T P V L G V N N L G R L G F L L A E I D
UniRef90_A3Z349
D L A V V L G G D G T V L G A A R H L S L K V P I L L C F N V L G G R H L G F L L T H E
UniRef90_K2D4G8
D F L I T F G G D G T I L K L A G H A G Y K P P I V L T V N L G R V G L L T E V Q
UniRef90_T2GEE7
D L V I V I G G D G T F L S V A R Q L Q P S P A I L L G F N L G K V G F L L T E V C
UniRef90_G8ZYQ1
D L L V T L G G D G T I L R G V S M F A N V P P I V L A F S L G T L G F F L L P F D
UniRef90_R9XFV9
D L L V S L G G D G T I L R A A G L F A R V P P V L A F S M G T L G F F L L P F E
UniRef90_K9RR74
D V A F V L G G D G T A L A A A R H L A P G I P M L A V N L L G F L T E P F E L F
UniRef90_S7X8Q4
E L V I V L G G D G T I L R A A E L T R G C A P I L L G V I N N L G R H V G F L A E S E
UniRef90_I3IQV9
E I A I V F G G D G A I L S T C R A L R G R N I P I L I G V H M G R F G F L A E S M
UniRef90_U5L7R6
D I V V S I G G D G T L L Y A F H R Y S S R L A F V G I H T G H L G F Y A D W V

UniRef90_W8U5P3
UniRef90_A3DDM2
UniRef90_Q3ANS5
UniRef90_U1PWC4
UniRef90_C4K708
UniRef90_R7UUT4
UniRef90_K9YAE3
UniRef90_S7Q6I3
UniRef90_F6E127
UniRef90_C0B115
UniRef90_D3ENF3
UniRef90_R6CG56
UniRef90_F0T094
UniRef90_R6PTT9
UniRef90_W9XME4
UniRef90_U1FAM7
UniRef90_UPI0003B6B6E3
UniRef90_A3ZQ19
UniRef90_UPI000288FD15
UniRef90_Q7QHC1
UniRef90_Q3ZJ0
UniRef90_G7QCQ0
UniRef90_I6Z750
UniRef90_S7TYB1
UniRef90_F4XU49
UniRef90_X1LSP8
UniRef90_UPI000379FC6B
UniRef90_Q0EYA5
UniRef90_P58058
UniRef90_X1UMX0
UniRef90_K4AQG0
UniRef90_D8LVH1
UniRef90_H6BMZ8
UniRef90_B0CFD9
UniRef90_UPI00046AE1C5
UniRef90_K9S455
UniRef90_W0TEZ5
UniRef90_F9VK22
UniRef90_UPI000364218A
UniRef90_K9XAS1
UniRef90_UPI0003767A13
UniRef90_F2NVZ5
UniRef90_UPI0003B65632
UniRef90_N2BAM1
UniRef90_A5AUE2
UniRef90_R5CNE8
UniRef90_K6NY91
UniRef90_W0P1T7
UniRef90_U7QDM9
UniRef90_Q6LA56
UniRef90_UPI000466EC14
UniRef90_K9F2Y0
UniRef90_Q4MZY8
UniRef90_N1QMV5
UniRef90_I3RDS5
UniRef90_A6CQX3
UniRef90_W1U2A1
UniRef90_K0KC12
UniRef90_UPI000379BBCF
UniRef90_UPI0004767DEF
UniRef90_I4EIB2
UniRef90_M7NNT3
UniRef90_UPI00036CFEC2
UniRef90_F3B1B5
UniRef90_K2GBJ2
UniRef90_W1TT58
UniRef90_K0AEM7
UniRef90_U7JH61
UniRef90_R5ID46
UniRef90_F8AN76
UniRef90_H0UK93
UniRef90_B2J7W1
UniRef90_A0JMF0
UniRef90_UPI0003820F69
UniRef90_Q6A7W9
UniRef90_U4L9I6
UniRef90_W9RHY3
UniRef90_W6MIK1
UniRef90_H5WWS7
UniRef90_R5UY9P
UniRef90_G2ML58
UniRef90_M2X7R3
UniRef90_W2EKU9
UniRef90_A3Z349
UniRef90_K2D4G8
UniRef90_T2GEE7
UniRef90_G8ZYQ1
UniRef90_R9X9V9
UniRef90_K9RR74
UniRef90_S7X8Q4
UniRef90_I3IQV9
UniRef90_U5L7R6

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

UniRef90_W8U5P3
UniRef90_A3DDM2
UniRef90_Q3ANS5
UniRef90_U1PWC4
UniRef90_C4K708
UniRef90_R7UUT4
UniRef90_K9YAE3
UniRef90_S7Q6I3
UniRef90_F6E127
UniRef90_C0B1I5
UniRef90_D3ENF3
UniRef90_R6CG56
UniRef90_F0T094
UniRef90_R6PTT9
UniRef90_W9XME4
UniRef90_U1FAM7
UniRef90_UPI0003B6B6E3
UniRef90_A3ZQ19
UniRef90_UPI000288FD15
UniRef90_Q7QHC1
UniRef90_Q3ZZJ0
UniRef90_G7QCQ0
UniRef90_I6Z750
UniRef90_S7TYB1
UniRef90_F4XU49
UniRef90_X1LSP8
UniRef90_UPI000379FC6B
UniRef90_Q0EYA5
UniRef90_P58058
UniRef90_X1UMX0
UniRef90_K4AQG0
UniRef90_D8LVH1
UniRef90_H6BMZ8
UniRef90_B0CFD9
UniRef90_UPI00046AE1C5
UniRef90_K9S455
UniRef90_W0TEZ5
UniRef90_F9VK22
UniRef90_UPI000364218A
UniRef90_K9XAS1
UniRef90_UPI0003767A13
UniRef90_F2NVZ5
UniRef90_UPI0003B65632
UniRef90_N2BAM1
UniRef90_A5AUE2
UniRef90_R5CVE8
UniRef90_K6NY91
UniRef90_W0P1T7
UniRef90_U7QDM9
UniRef90_Q6LA56
UniRef90_UPI000466EC14
UniRef90_K9F2Y0
UniRef90_Q4MZY8
UniRef90_N1QMV5
UniRef90_I3RDS5
UniRef90_A6CQX3
UniRef90_W1U2A1
UniRef90_K0KC12
UniRef90_UPI000379BBCF
UniRef90_UPI0004767DEF
UniRef90_I4EIB2
UniRef90_M7NNT3
UniRef90_UPI00036CFEC2
UniRef90_F3B1B5
UniRef90_K2GBJ2
UniRef90_W1TT58
UniRef90_K0AEM7
UniRef90_U7JH61
UniRef90_R5ID46
UniRef90_F8AN76
UniRef90_H0UK93
UniRef90_B2J7W1
UniRef90_A0JMF0
UniRef90_UPI0003820F69
UniRef90_Q6A7W9
UniRef90_U4L9I6
UniRef90_W9RHY3
UniRef90_W6MIK1
UniRef90_H5WWS7
UniRef90_R5UYYP9
UniRef90_G2ML58
UniRef90_M2X7R3
UniRef90_W2EKU9
UniRef90_A3Z349
UniRef90_K2D4G8
UniRef90_T2GEE7
UniRef90_G8ZYQ1
UniRef90_R9XFV9
UniRef90_K9RR74
UniRef90_S7X8Q4
UniRef90_I3IQV9
UniRef90_U5L7R6

130 140 150 160
S G M S R T V H L N I S V N G N F L E K F S G D G L I I V P S S T A Y N Y
R G A T S R I L H L K T Y I N D A F M D L Y R A D D G L I I I S T P T G S T A Y N Y
K G T Y P R I L P A F I L K V I N D G G E L L S S A Y F R A D D G L I I I S T P T G S T A Y N Y
R D V D S R T L F E A S I T K G V I N D G G C E L L S S F F K A V D T V L I L F A T S T G S T A Y N Y
P E K V A H M I E F E V W I D D D L F A F S S Q R G S D D G L I I I S T P T G S T A Y N Y
R G C M P Y L G N L D L E I E H K Y I T S S Q V Q G D G L I I I S T P T G S T A Y N Y
P A S M D R M I T S L I L E V V D G G Q H L V T E A F G S D D G L I I I S T P T G S T A Y N Y
R G S S P H L N T V D L E V V D G G Q H L V T E A F G S D D G L I I I S T P T G S T A Y N Y
K A P R L G V L E V I L E L V D D G R K P L V T S A F W G C D D G L I I I S T P T G S T A Y N Y
K N T T S M L S V I D A E L V D D G R K P L V T S A F W G C D D G L I I I S T P T G S T A Y N Y
P A S D R M A T L E T E V D G G E L V D Q Y Q R A D G L I I I S T P T G S T A Y N Y
R G E Q D R M V D I L N V E M K S N E P J A S P P S R A D D G L I I I S T P T G S T A Y N Y
R E N R D A L V T I L Q V K L L S N E P J A S P P S R A D D G L I I I S T P T G S T A Y N Y
K G R L Q Q A I D F S I Y C D D I L V E H Y R A D D G L I I I S T P T G S T A Y N Y
R G P N P T M S T L E V L F G Y D D E E H L T T V Q K T A D G I V C V A T S T G S T A Y N Y
A D T A A K T V S L E V G D G G V P L G V F K T A D G I V C V A T S T G S T A Y N Y
R G S L S R L V C V N I T V D G G Q R M G L L R S D D G L I I I S T P V G S T A Y N Y
G G P P F R I Q T L D L I N D G S K L A T T Y M C D D G L I I I S T P V G S T A Y N Y
K G T L A R I L E Y S I K I N G K F Y T T K F M S D D G L I I I S T P T G S T A Y N Y
R G L S S Y L S N I D L F L D N G K H I T S V Q G D G L I I I S T P T G S T A Y N Y
R G Q V A R V L C V S V T D I L N S G P F T T Y K A D G A I V S T A T G S T A Y N Y
R G A M A R L A A F K V I L G D A D V C T L R A D G G L I I I S T P T G S T A Y N Y
K G S W A K L T E L T I K A I D D D Y V S T F S A D G L I I I S T P T G S T A Y N Y
R G R L A R L V R L S L A Y G D G E H V S R L R A D G L I I I S T P T G S T A Y N Y
P A S A D R M I T S L E I V D G G E V V D D Q Y Q R A D G L I I I S T P T G S T A Y N Y
S A E T K I L R W F G L V I R E N D F F I H N V R A D G L I I I S T P T G S T A Y N Y
R S A H P R L L C F E M A V I R E Q F V I F R M R A D G L I I I S T P A G S T A Y N Y
R G P S S Y L S N V D V Y L D G G H L I T T V Q G D G L I I I S T P T G S T A Y N Y
K R G L P R L I N L K T S Y I V G G E F I T T Y S A D G L I I I S T P T G S T A Y N Y
K W E T T S M I T V D S Y I N N E F L N V F W G A D G L I I I S T P T G S T A Y N Y
R G T A S S M V E L N C Y L D T D L T T V H A D G L I I I S T P T G S T A Y N Y
R G P N P T M S T L E V L F G D D E E H L T T V Q A D G L I I I S T P T G S T A Y N Y
P A S A D R M I T S L E I V D D Q Y Q R A D G L I I I S T P T G S T A Y N Y
L R R S G T T M M T D V Y I G G E F F E R F R G D G L I I I S T P T G S T A Y N Y
L N D R M P T S L I D E M E V I D D G E V V D Q Y Q R A D G L I I I S T P T G S T A Y N Y
R G D S S H L T N L D I Y I D D G E F L T R T A D G V T L A T P T G S T A Y N Y
K L P L S R L L K F N I F I D D K Y Y A S F Y G D G M I I S T P T G S T A Y N Y
K G T L A R M G D Y T V E I D D S Q L V A T F R A Q D G L I I I S T P T G S T A Y N Y
P A S A D R M I T S L E I V D D G E V V D Q Y Q R A D G L I I I S T P T G S T A Y N Y
K S S R E R I L D V R L E V D S R P V S A F G C D G V L I I S T P T G S T A Y N Y
S C P S S H L V N L N V A Y N H A L L G M F F K T N G S D G V I I I S T P T G S T A Y N Y
R G G I G R V I D T V Y G D R S K I L M E F S G D G V I I I S T P T G S T A Y N Y
R A G V S G M L E I E A S I E G V L F N H Y R L D G L I I I S T P T G S T A Y N Y
R G I S S F L G M N L E C Y V D D S G S F V T C V Q G D G L I I I S T P T G S T A Y N Y
N D V V I H G M G D C V W C D G D M M V S F S G D G I I I S T P T G S T A Y N Y
S G A T A R L L R L R L T V D D G Q L A A E M A G D G V V L A T A T G S T A Y N Y
T K H L A H M I E F E V I N D G K F S F A Q R A D G L I I I S T P T G S T A Y N Y
R E P M T C M C H F E V K I G R H T P V D I A A D G V I I S T P T G S T A Y N Y
R G P N T A M S D I M L Y V D S K Y L T T V K A D G L I I I S T P T G S T A Y N Y
R G A M A R L A A F D V L G D A D V C T L R A D G V V I S T P T G S T A Y N Y
P A S A D R M I T S L E I V D D G E V V D Q Y Q R A D G L I I I S T P T G T T A Y N Y
R G L S P Y I T T L D V F Y N G D Y F T T V S G D G L I I I S T P S G S T A Y N Y
R G P S S Y I S S L D L Y A N D S L L T R I R S A D G I I I S T P T G S T A Y N Y
T G I P G K L I H M R Y I A D D G G L A D E V R A D G L I I I S T P T G S T A Y N Y
L N E S T V T L V M D V E I R G Q H F E R F R G D G V C L S T P S G S T A Y N Y
R G T L S R M V K F K I Y V I D D G K L Y S S F K G D G L I I I S T P T G S T A Y N Y
R G D T P N L M T L D I Y I D D G E F L T R T A D G V C L S T P T G S T A Y N Y
R G S S L Q M L R L Y V D F N N G S R V K Y P V D G L I I I S T P T G S T A Y N Y
R G A L G A M I E F E I F I D D R Q F V Y S Q R S D G M I I V A T P T G S T A Y N Y
I R A G M Q M I E V Q L Y G I D D R Q F V Y S Q R S D G M I I V A T P Q G S T A Y N Y
R G P N P F L S S I Q L Y G D Y E Y F T S V Q A D G I C I S T P T G S T A Y N Y
K T D S P R M I E F E T F Y I D D N R F F N S Q R S D G M I I V A T P T G S T A Y N Y
R R E M K T I R C N V Y I D D G D F L N E Y S S D G I I I S T P T G S T A Y N Y
I K T S E G S V V D I D I K G D H F E T F R G D G L I I I S T P S G S T A Y N Y
R S R P G R M A R L R L S Y I N D V F V E E Y P A D G I I I S T A T G S T A Y N Y
I K S F N Q T L V C D L S Y I R G E Y F E T F R G D G L I I I S T A S G S T A Y N Y
K A S R R R M L D L I A S I D G L A V Q R W N C D G I I I S T P T G S T A Y N Y
Q R S E P Y M I G L E V L I V D G M R I P T Y W A D G L I I I S T A T G S T A Y N Y
T K S P A K M L H F E V Y V I N G N F I E D V R A D G L I I I S T P T G S T A Y N Y
K G T Q A K L I S V A V E V H G R P M C V F R A D G L I I I S T P T G S T A Y N Y
P A S A D R M I T S L E I V D D G E V V D Q Y Q R A D G L I I I S T P T G S T A Y N Y
R G P S S Y L S N V D L E I V D G R L I T S V Q G D G V I I I S T P T G S T A Y N Y
V K S V I E G T F V I D V E I K G E L F E R F R G D G L I I I S T P S G S T A Y N Y
K A A R R R M L D V L A S V A N D E L P V Q R W S C D G I I I S T P T G S T A Y N Y
R G P N P T M A T T E L Y A N D D F L T H I A A D G V C V A T P T G S T A Y N Y
R G I S S Y L T N L E C Y C D N S F L T C V Q G D G L I I I S T T S G S T A Y N Y
R G S M P L T L T L E I C I D D Q L F T R T A D G I I I S T P T G S T A Y N Y
K S S R E R I L D A L I E V D D G R P V L S S F G C D G V L I I S T P T G S T A Y N Y
R Q Y A H V V D F S V Y R N D V L L G E Y R A D G V L I I S T P T G S T A Y N Y
Q R G H G G V D V E L R V I D D G S L F S S G R A D G V I I I S T P T G S T A Y N Y
R G P A P F L S N L C Y C D E H P V T R I Q A D G I I I S T P T G S T A Y N Y
R I P G D G L S A V A V S Y V G H P F V R Y S A D A V I I I S T S T G S T A Y N Y
D V E R H W T C L L E L E I D G E V V D Q R R G D G L I I I S T P T G S T A Y N Y
Q G S F A R L I D L D A E I N Q R K M V R F K A D G V I I I S T A T G S T G Y N Y
R G N V A K L A V L D I A V Q D E R L G A L R C D G L I I I S T P S G S T A Y N Y
R G D S P H L A N L D I F I V D G G Q F M T R T T A D G I I I S T P T G S T A Y N Y
R G S A P H L A H L I Y V G K Q F L T N T V A D G V A V A T P T G S T A Y N Y
K Y D R M L T A I L E M E I D G D V V D Q Y Q G D G M I I V A T P T G S T A Y N Y
K A S R E R M L E V V T E V I D N G R P L T S F G C D G V V I I S T P T G S T A Y N Y
R S S L S R L I S I K L N I N G E C V A T S Y R A D G L I I I S T P L G S T A Y N Y
V K S I E G T L V M D V E I R G Q H F E R F R G D G L I I I S T P S G S T A Y N Y

UniRef90_W8U5P3 S A G G S I V D P S L N L I Q V T P L I A P Y R S F T S S L V L P E A S V I E I V 170 180 190 200

UniRef90_A3DDM2 S A G G P L V E P D V L D L I I C T P I I C C P H L L L Y T S R R F L I T S A D D K S V I K E I V S

UniRef90_Q3ANS5 S A G G P P I V A P P K S E A M V L T T P I V A A H A H M L T F V T R P P L V V I T S G A D D K S R I E E L S

UniRef90_U1PWC4 S S G G G P L I W P D V L E A M V L V P M F P A H T L L S F R R P L V V V N P A G S A N S K I E C L K M W

UniRef90_C4K708 S A G G S P L L T P P N V P A L V I A P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_R7UUT4 A A G A S M V H P P N V P A L V I A P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_K9YAE3 S A N G S P I V H P P G M E A M V V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_S7Q6I3 S A G G P I V H P P S L E A L L V L T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_F6E127 S A G G P I V W P P E L S E A L L V L T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_C0B115 S S G G P I V S P P E N S C W L L V N P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_D3ENF3 S A N G P I V H P P G I D A I A V T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_R6CG56 S A G G P I V Y S P S I E E S I S I T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_F0T094 S A G G P I V V S P E V E A I L I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_R6PTT9 A A G G S P I L D S R T K G I V V T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_W9XME4 A A G G S L C H P P E N P V I L I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_U1FAM7 S A G G P I V D P P E L D A I L I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI0003B6B6E3 S A G G P L L Y P G M N A V A L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_A3ZQ19 S A G G P L I Y R A D L H A F V V S P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI000288FD15 S A G G P L I Y P G M N A V A L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_Q7QHC1 A A G A S M I H P P S L V P A I L V T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_Q3ZZJ0 A A G G P V L Q P P N S A D I L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_G7QCQ0 S A G G P L I Y P G M N A V A L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_I6Z750 A A G G P I V N P K A K A I T L T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_S7TYB1 S A G G P L V H P P S V Q S F C V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_F4XU49 S A N G P I L H D S I E A I A V A P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_X1LSP8 A A G G P I V L D P R L K V F V V A P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI000379FC6B S V I G G P L V D P P R V K A I L I S H I A P P F K L N V N R P I I V V V P P A G S A N S K I E C L K M W

UniRef90_Q0EYA5 S A G G P I V H P P E I Q A I L I V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_P58058 A A G A S M V H P P N V P A I M V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_X1UMX0 S T G G P V V H P P N L G V V I L T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_K4AQG0 S C G G P L I S P P N N E N F V I T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_D8LVH1 S A G G S M V H P P L T P G L L M T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_H6BMZ8 A A G G P L C H P P E N P V I L I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_B0CFD9 A A S G P I L H P P G M E A M A I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI00046AE1C5 S L I G G A V V H P P S L N V T Q L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_K9S455 S A N G P I M H P P G M E A I A V T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_W0TEZ5 S A G G S I V S P L V P A I L L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_F9VK22 S A G G P I V S P D I E S L I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI000364218A A A N G P I V M P S G M N A M L V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_K9XAS1 A A N G P I V H D G M Q A I T V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI0003767A13 S A G G P I V I W P D V A A M L V V S N A H A M F A R P L V V V P P A G S A N S K I E C L K M W

UniRef90_F2NVZ5 A A G G P I V E P E L S A L V L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI0003B65632 A A G G P I V E P T A E N I L I T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_N2BAM1 S A G G S L V Y P N C R N V L L T T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_A5AUE2 A A G G S M V H P P E V P G L L F T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_R5CNE8 S A G G P I V E P P E A K N F I V S P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_K6NY91 A A G G P A V E P D L E C L V V V P L N S F S L G V R P F L V A D S P Q R A V T T V E K

UniRef90_W0P1T7 S A G G P I V I A T S L D A I Q L V L P M F P H T L S A R A L L V I A D S P Q R A V T T V E K

UniRef90_U7QDM9 S A G G A V V I T P D V G V L Q L L P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_Q6LA56 A A G G S L C H P P D I S V M I V S P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_UPI000466EC14 S A G G P L L Y P G L D V L C V T P I I C C P F L S S D F K P V V V P P A G S A N S K I E C L K M W

UniRef90_K9F2Y0 A A N G P I V H P P G M D A I V V T P I I C C P H S L L S S F R R P L V V V P P A G S A N S K I E C L K M W

UniRef90_Q4MZY8 S A G G S I V H P H V E A L L F T V I C C P H S L L S S Y R P L V V V P P S T S T V I K V V

UniRef90_N1QMV5 S A G G S L V H P P D I P A I L L T T P I I C C P H T L S S F R P M L N D G D M A L D K V A

UniRef90_I3RDS5 S A G G P F V D P R L D T I V I V P L L P P K T S V P M M V P N D G D M A L D K V A

UniRef90_A6CQX3 A L S G A I L H P S I Q A I Q L A E M A S F R T I G S P L I L P A H H T C M L K E

UniRef90_W1U2A1 S A G G P F I Y S P D L E A I T I T P I I C C P H T K S M Q T P L I V L K G D S I K I K I

UniRef90_K0KC12 S S G G S I V S P L V P A I M I T T P I I C C P R S L S F R P L I V L P G L S S H I K I K I

UniRef90_UPI000379BBCF S A G G P I V H P P S L D A M L I T P V C C A H A L Y T R P F V V S M S S E Q I K A L D

UniRef90_UPI0004767DEF A A G G P I L H P P T V P A F A L V P I I C C P Q S M T N R P I A V G D R S C E V E L V

UniRef90_I4EIB2 S A G G P V L G A G V K G F A V P I I C C P H S P I R T T L V I P E E S L V E L V

UniRef90_M7NNT3 S A G G S L C H P P D I P A I L I S P I I C C P H T L S S F R P L V V H D S M I L H V S

UniRef90_UPI00036CFEC2 S A G G P I L D P A L D L L S L V S I N P H T M S N R P Y V I S S G S K V I E L R S

UniRef90_F3B1B5 S A G G P I L E P S S R M M L I T A L C S H A L S Q R S I V L S S G S K V I E L R S

UniRef90_K2GBJ2 A L I G G A I L H P P S L E A I Q V T E M A S F R T V G S P L V L P A H H T C V F R

UniRef90_W1TT58 S C G G P I M H P P N L T N M M V I P I C C P H L L K S P L M L N A H D D E V T I T R

UniRef90_K0AEM7 A L I G G A I V H P P A L E A I Q I T E M A S Y R T I G S P M L L P K H D D V E I T R

UniRef90_U7JH61 S A G G P V M W P D V D A I L M V P V A A H A L F A R P L V T S P R A R L E I D

UniRef90_R5ID46 S F G G P V A V P D S S V F I I T P M A P H N L N V R P L I V I P D D T S V V E I V

UniRef90_F8AN76 S A G G P I L E P S V D A F V I V P I C C P F K N L V S R P L I V I D G S V E I K V

UniRef90_H0UK93 S A G G P I V P P H V P C M V L A P I C C A H T L Y S R P I I L A P H D Q L S M R

UniRef90_B2J7W1 S A N G P L M H D G M E A L T I T P I I C C P A M S L S S F R P I V V P A G S V S I T W

UniRef90_A0JMF0 A A G A S M I H P P N V P A I M V T P I I C C P H S L L S S F R P I V V P A G S V S I T W

UniRef90_UPI0003820F69 A L I G G A T I H P P L E A I Q I A E M A S F R T I G S P L I L P S H H T C V L K

UniRef90_Q6A7W9 S A G G P V M W P D L D A M L M V L S A H A L F A R P L V M S P A A R V D L D G

UniRef90_U4L9I6 A A G G G L C H P P A L P G M L V T V I C C P H S L L S F R P L V L P E H V T I R V Q

UniRef90_W9RHY3 A A G G S M V H P P Q V P G T L F T P I C C P H S L S F R P L I L P E H V T I R V Q

UniRef90_W6MIK1 S A G G A T V N P A V P C I L M T P I C C P R S L S F R P L V L P A T S K I K V

UniRef90_H5WWS7 S A G G P I V W P D V E A L L V V P S N A H A M F S R P L V V P A R S S V I T V Q

UniRef90_R5UY99 S A G G P I V E P E F S C I E M T L I C P H S L S A R P I L F S P E S R L C V S

UniRef90_G2ML58 S E G G P L V H P P A S P S M V V N E M C A A E G M P R P L V I T D L D S E I T R I R K

UniRef90_M2X7R3 S S G G S M V H P P A V P G L L F T P I C C P H S L S F R P L V I F P D Y I V T R I R K

UniRef90_W2EKU9 S A G G P T V S P T V E G F L V V P A A A H S L S F N R A L V M S A D E E V L T L D

UniRef90_A3Z349 A A G G P I L H P P G M E A L I I S P I I C C P A M S L S S F R P L V V P S P S R R Q L V I T

UniRef90_K2D4G8 S A G G P I V H P P K L D A F I F T P I I C C P P A T L S M C P I V I P P S R R Q L V I T

UniRef90_T2GEE7 S A G G P L I H P P D V D A Y C L T P I I C C P F L D T F Y P L V L P C T R R T E V T

UniRef90_G8ZYQ1 S A G G S I V S P L V P C I L L T P I I C C P R S L S F R P L L L P H D S S H I K V R

UniRef90_R9XV91 S A G G S I V S P L V P S V L L T P I I C C P R S L S F R P L V L P D S S L L R L V

UniRef90_K9RR74 A A N G P I I H P P G M E A I A V A P I I C C P L S L S S F R P I V L P A R S S L L R L V

UniRef90_S7X8Q4 S A G G P I V W P S L D A L L V P L S A H A L T A R P I V V G S G N A L A V E

UniRef90_I3IQV9 S A G G P L T P P D L N A F I L V P I I C C P H T L T N R P L V V S G N A L A V E

UniRef90_U5L7R6 A L I G G A I L H P P S L P A I Q F A E M A S F R T I G S P L V L P A H H T C M L K

UniRef90_W8U5P3 S E D L L L V S D G I E F K R T E N K I S V T T S D M T V R F L R L R N Y E
UniRef90_A3DDM2 V H E A M V T V D G Q N G Y L E A V G D V I I T K K S R I R M P M V R L K N N F F D V
UniRef90_Q3ANS5 V G D E F A R L N C D D G K R R E L A P H G E S S I T A V K K G S P V A I N L V A N R N D D F S G E L
UniRef90_U1PWC4 V G D F A R L N C D D G K R R E L A P H G E S S I T A V K K G S P V A I N L V A N R N D D F S G E L
UniRef90_C4K708 N H N L K T S C D D S Q T V L S I G Q S E V V I Y K S A H H L N L T H P K D D Y T N R D
UniRef90_R7UUT4 V S D A W V S F D G R N R L Q L G D Q R V L K I S T M A N C L A K F I E D H S F Y N T
UniRef90_K9YAE3 P P S T K L W T D G S T T I W P G D Q R V L S I T M A N C L A K F I E D H S F Y N T
UniRef90_S7Q6I3 V S P A H V S M D G Q R R V L M P G G E S V V V R A S D Y P I P C L I N R S S
UniRef90_F6E127 V H D A L L V F C D D G R R I L V Q E N G N D I Y L F R K K A P F S I L Q T V Q L E G F A D D R
UniRef90_C0B115 V N T H L L V S L D S R R I T L V E N G N D I Y L F R K K A P F S I L Q T V Q L E G F A D D R
UniRef90_D3ENF3 P L E D Y L W T D A S T S I W P G Q W I S V R M A N F M A K F I E N Y S F Y Q T
UniRef90_R6CG56 G K H E L Y M S V D G G E E R I R L D S E I I V S K D E Q Y V K F I S F K S Y Y A R E K
UniRef90_F0T094 G H E C H L T F D G G H S L Q P G E T L G I T T S P L K A R L I R L R P F A R I
UniRef90_R6PTT9 V D E V F L S C D G V S G Y P M G A T A E I R L S N Q I V Q L I G N A D D Q F Q A
UniRef90_W9XME4 V P N C A W I S F D G R E R F E L G D A E V I T V S A S A R Y P A N V L P G R R S S E D
UniRef90_U1FAM7 K E A A L T I V D G Q T P F A L K A E I T V R K A A H K V K L A G P T E R K F C S A
UniRef90_UPI0003B6B6E3 I E D C Y I T V D G Q E G L E F G D L V E V T G V P A A V R F M G D E S F F E R T
UniRef90_A3ZQ19 V T N L S V V V D G R A R L T P E L R V V V D R A E Q R F K R I A S H N Y Y R T
UniRef90_UPI000288FD15 T Q P V Y L M L D G Q N S Y E T S N I V N I T E A D F K C K L I R I Y D Y F K I
UniRef90_Q7QHC1 I S P S W V S F D G R N R Q E L G D S L H V T T S I Y P V P S L C A Q D Q I A D
UniRef90_Q3ZZJ0 V H E A T L S L D G G F I N M Q V V G D T L R L R R S S K K V K F M R L R P F Y F K E
UniRef90_G7QCQ0 L S N M Y L T C D G Q E L F P L G D D V V V V R K S T R S L K L A K R D S Y F G R
UniRef90_I6Z750 A R K V N I N C D G Q R T I S R N T P I E I T K G G N S F N L V H S S N Y F E I
UniRef90_S7TYB1 N D D V Y L T V D G Q D S L Q L G D R L E V R R A D E Q G M L L R L H S S Y F Q S
UniRef90_F4XU49 P L I N T K L W M D G A T S I W P G D Q R V D V D W R A D C Q A K F I L Y S Y Y Q T
UniRef90_X1LSP8 L R K A F V I V D G Q V A L E P R E K T T L Y R S D K P A R F F G W G E F Y R K
UniRef90_UPI000379FC6B I K R L I M S L D G Q E E I I G D E I L I T E S E S P A R F V R F S D F Y R N
UniRef90_Q0EYA5 L V I E A A V N L D G I E K V I E G D R V V V R K G E I S L V Y L P H R H Y F E V
UniRef90_P58058 L S P A W V S F D G R K R L R H G D S L S I T T S C Y P L P S I C V C D P V S D
UniRef90_X1UMX0 V E K T L L T I D G Q V V Y D L K E E D I I R V K K A S S Q L L V Q P N N F Y E T
UniRef90_K4AQG0 V E S R V L S L D G R I H I E T D K E I I I K K A D F Q I L L V Q P N N F Y E T
UniRef90_D8LVH1 V S T A S V S F D G Q E T L N R G D A L I I R T S K Y P V P C V S P D D S N R D
UniRef90_H6BMZ8 V P N C A W S F D G R E R I E L G D V T I S A S R Y P A N V M P P G R R S E D
UniRef90_B0CFD9 P L J A D R L W M D G V T S I W P G D Q R V D I W M A K Y R A R F V E N Y S Y R T
UniRef90_UPI00046AE1C5 P E D F I L S V D S D S Y K S K I T E I K F K V S K K I H F A K Y R H T H
UniRef90_K9S455 P L S T K L W M D G A T A T V P G Q R V D I R M A N C Q A Q F I E N Y S Y G T
UniRef90_W0TEZ5 I G S V K L S I D G Q D D V V G N D E I H I Q K C K K Y C S L V R F Y D Y Y S V
UniRef90_F9VK22 I D N L Y V I I D G Q N E M K I E N K I K L Q K C K K Y C S L V R F Y D Y Y S V
UniRef90_UPI000364218A P N E L Y L T V D G Q E A V P L D D D Y V H C H R S E S S V R L L R S R P N F S V
UniRef90_K9XAS1 P L N T K L W T D S G T S I W P G D Q R V D V D W R M A E Y R A K F I E N Y S Y Y Q T
UniRef90_UPI0003767A13 V H D A V L C C D G R R S V E L G A R V D I V E G S A P V R L V R L R P F T D R
UniRef90_F2NVZ5 R S D A S L T C D G G R D F E L G D V L L K L P E F R A R L I C S E K F F S A
UniRef90_UPI0003B65632 T S R A Y L S T D G Q R L S N G D T V E L R N S G R H I E L V R L R N F Y D I
UniRef90_N2BAM1 F K N V T L I C D G Q Q R I S M D S V I C I K T A E H N A H L V E L T P Y F M R
UniRef90_A5AUE2 V P H A W A S F D G R R Q L A P G D A L V V S M A P C P V P T A C H L S S F Y D S
UniRef90_R5CNE8 A E K A Y V A V D G A G K I D L D D I L V T V R S Q S K K V A N L V H L S S F Y D S
UniRef90_K6NY91 L G D A L V T A D G Q E S R P L G Q Q L V A R L G R R T L R L V R R S P F Y E V
UniRef90_W0P1T7 F S N I E L S C D S Q I L N I D E C Y F I R R S H N H L N L I H P Y D Y F K T
UniRef90_U7QDM9 P N R L V M V V D G N G G C Y V D Y R V R V T R S R Y S A R F I R L K E F F Q V
UniRef90_Q6LA56 I Q S S W I S F D G R N R T E L G D Y L T V R I S R Y P F P T V H S T E E D A D
UniRef90_UPI000466EC14 L S N M F L T C D G Q E I F S L D D V V L V T K S E R C L R L A K R E S Y F E R
UniRef90_K9F2Y0 V D P A M L W M D G A T S I W P G D Q R V D I W M A E H M A K F V Q N Q S Y Y Q T
UniRef90_Q4MZY8 V P P V R V S D G N Y S I R H G C S V K I V T S N T K F P L V L P K Q T
UniRef90_N1QMV5 I P S A F V S F D G K G R V E L G D E V V V R A S Q Y P F P T V Q P L E W F D S
UniRef90_I3RDS5 L R E I L A I D G Q E H L P E V E I R V K K S P R K T K F V R P T K
UniRef90_A6CQX3 V P D F M I T V D H L T L L H K D V K I Q Y R V A D E K I R F A R F R P F P
UniRef90_W1U2A1 E E K T Y L T V D G Q K A M E V N Q K V K T Y K K Q K N V K L L D D Y D Y F K V
UniRef90_K0KC12 I N D V R F S I D G Q D F L K V E D E I H V
UniRef90_UPI000379BBCF T E E V V L S A D G V E K M L K G D K L A I S S S E F K I P F V H S Q D Y Y A T
UniRef90_UPI0004767DEF M L K G R H F D G Q S H I D E L Q D R I I R R S E R S L T L L H P Y Y D I
UniRef90_I4EIB2 V V I H A H L I D G Q A E V E G D V I R V R R G D H L F R L V M L E N F Y Q A
UniRef90_M7NNT3 R S T S W V S F D G R N R V E I G D Y V T I S A S K F P F P L V L R S K Q N S E
UniRef90_UPI00036CFEC2 P H E A Q I C D G Q T I S A G Y R T I V T R S E N F I K M I H P H D F F E L
UniRef90_F3B1B5 F N D R E L V V D G Q D S V S L G D V T I E L R S E I F A G L I K L H S F L D N
UniRef90_K2GBJ2 P K S F L F T I D H T R T Y S N V E S I Q C R V A K E K V R F A R F R P F P
UniRef90_W1TT58 M R H L Y A S L D G N E S F Y F T N E L T R H P N S L P F V S N Q N F F R L
UniRef90_K0AEM7 P V D F Q L T Y D H Y A S I Q N V T S I R C R V S D K V K F A R F R S F P
UniRef90_U7JH61 I D S G I M W C D G R R S V R P G D R I T V V R H E A N L R I A R L Q P F T S R
UniRef90_R5ID46 I R S S M I S A D N R S S A E R R R E I T V R K A P F G L N C V S F D T F F E A
UniRef90_F8AN76 V K S T L V V V D G N D E A K G D E I L R K S N S Y S Y F V K G C N F Y N K
UniRef90_H0UK93 P R Q T F F S V D G Q D G T S E G D S L Q V S L S E R R V I T L P Q Q G Y F E L
UniRef90_B2J7W1 P L S T K L W T D G G T S I W P G H R V R M A E C R A K F I E N N S Y Y Q T
UniRef90_A0JMF0 L S P A W V S F D G R K R I Q H G D S I K I T T S C F P V P S I C C H D L V Y D
UniRef90_UPI0003820F69 P P D F L V T V D H L S F L E K D V K I Q F R V S E K K I R F A R Y K P F P
UniRef90_Q6A7W9 S E S A V L W C D G R R T V R P G E R I T V V R H P D R L R I A R L Q P F T S R
UniRef90_U4L9I6 V P T S W V S F D G R E R C E L G E R Y T I V A S Q Y P L P T V Q Y R M D N K D
UniRef90_W9RHY3 V H A W V S F D G R K Q L R P G D A L V C S M A P W P V P T A C L V D S T S D
UniRef90_W6MIK1 V S N A K L T V D G Q D Y L N D P G D E I Y V
UniRef90_H5WWS7 V D P A V L T C D G L R H F L D L G S R V R V A G G V P V R L A R L G P F T D R
UniRef90_R5UY99 V R D V Y I S A D G A P P I C L D A R M E I Y R S P H E I S L I D L S T F F D S
UniRef90_G2ML58 P D T G Y V S D G R R E L D L P T M V T V T T A D D P V R I A G P E A D F F E
UniRef90_M2X7R3 V P D A W I S F D G R K R M E L G D S V C V R V S K W P V T T F C K V N Q T R D
UniRef90_W2EKU9 V G Q L A L E V D G A I H L A P G D R L T V T A L R G A A R V V R L T T F Y E R
UniRef90_A3Z349 S S Q V K L W K D G A S V L E P G E C V I Q R A P H H A L M V Q L D S Y Y R T
UniRef90_K2D4G8 I E T I A L T I D G Q K S V E L G D Q I K I R R S S R E F Y M A R I S N Y K V
UniRef90_T2GEE7 R S E V W L T I D G Q E G L Q T G D T V Q I E G L P R A L R F A T L Q N Y L Q R
UniRef90_G8ZYQ1 I G S V K L S V D G Q P D L R I G D E I H V
UniRef90_R9XFV9 I G K L C M S V D G Q A P L R V T G D E L H V T
UniRef90_K9RR74 P L E D R L W M D G A T S I W P G Q R V D V S M A N C E A R F I V L K D F Y Q T
UniRef90_S7X8Q4 V M D G V L W C D G R R A H D L P
UniRef90_I3IQV9 L L S Q L F T V D G Q T E L E V G D K I K I E R S A I E V Q M I G T R T F Y G V
UniRef90_U5L7R6 V P D F Q I T I D H L T L L H K D V K I Q F R V A D E K I R F A R F R P F P

UniRef90_W8U5P3	F W S K V K
UniRef90_A3DDM2	L R G K I
UniRef90_Q3ANS5	L R T K L
UniRef90_U1PWC4	L V D K F K
UniRef90_C4K708	L N T K L
UniRef90_R7UUT4	W F D S L
UniRef90_K9YAE3	L R E K L
UniRef90_S7Q6I3	
UniRef90_F6E127	L V R K
UniRef90_C0B115	L R E K L Q
UniRef90_D3ENF3	L R D K L
UniRef90_R6CG56	L N K K I
UniRef90_F0T094	V R E K L R
UniRef90_R6PTT9	I D Q K L R S
UniRef90_W9XME4	W V N S I R T L
UniRef90_U1FAM7	L R S K L
UniRef90_UPI0003B6B6E3	L R T R
UniRef90_A3ZQ19	L R E K L
UniRef90_UPI000288FD15	L R K K I
UniRef90_Q7QHC1	W F D S L
UniRef90_Q3ZZJ0	L D T K L K
UniRef90_G7QCQ0	L R L K
UniRef90_I6Z750	L R N K L
UniRef90_S7TYB1	L Q D K
UniRef90_F4XU49	L R T K L Q
UniRef90_X1LSP8	V R E K L
UniRef90_UPI000379FC6B	M R E K
UniRef90_Q0EYA5	L R S K L
UniRef90_P58058	W F E S L
UniRef90_X1UMX0	
UniRef90_K4AQG0	L R Q K L R E M
UniRef90_D8LVH1	W F R S V R T L
UniRef90_H6BMZ8	W V N S I R T L
UniRef90_B0CFD9	L R E K L
UniRef90_UPI00046AE1C5	F W R R V Q
UniRef90_K9S455	L R E K L
UniRef90_W0TEZ5	
UniRef90_F9VK22	L R E K L
UniRef90_UPI000364218A	L R S K L K
UniRef90_K9XAS1	L R E K L Q
UniRef90_UPI0003767A13	L V R K
UniRef90_F2NVZ5	L Q S K L
UniRef90_UPI0003B65632	V N Q K L
UniRef90_N2BAM1	L R E K L
UniRef90_A5AUE2	L W A K
UniRef90_R5CVE8	T F D K L
UniRef90_K6NY91	L R A K L
UniRef90_W0P1T7	L T S K L
UniRef90_U7QDM9	L R E K L
UniRef90_Q6LA56	W F E S L K
UniRef90_UPI000466EC14	L R L K
UniRef90_K9F2Y0	L R S K L Q
UniRef90_Q4MZY8	W T T K R S L
UniRef90_N1QMV5	L S R T L R
UniRef90_I3RDS5	
UniRef90_A6CQX3	F W K R V R
UniRef90_W1U2A1	L R N K I
UniRef90_K0KC12	
UniRef90_UPI000379BBCF	W Q T K L R
UniRef90_UPI0004767DEF	L R E K L H
UniRef90_I4EIB2	F Q K K
UniRef90_M7NNT3	W F T G L
UniRef90_UPI00036CFEC2	L R A K L H
UniRef90_F3B1B5	L R N K M N R I
UniRef90_K2GBJ2	F W R R V H
UniRef90_W1TT58	L F P K L K S I
UniRef90_K0AEM7	F W Q R V R
UniRef90_U7JH61	L V K K
UniRef90_R5ID46	L N E K L
UniRef90_F8AN76	L R K
UniRef90_H0UK93	L H R K L
UniRef90_B2J7W1	L R E K L
UniRef90_A0JMF0	W F D S L
UniRef90_UPI0003820F69	F W S R V R
UniRef90_Q6A7W9	L V K K
UniRef90_U4L9I6	W F D S I K
UniRef90_W9RHY3	F L R S I H
UniRef90_W6MIK1	
UniRef90_H5VWS7	L V H K
UniRef90_R5UYP9	L N R K M
UniRef90_G2ML58	A L N K L
UniRef90_M2X7R3	W F S
UniRef90_W2EKU9	A R R K L R
UniRef90_A3Z349	L A Y K L H
UniRef90_K2D4G8	L R D R L
UniRef90_T2GEE7	L K V K
UniRef90_G8ZYQ1	
UniRef90_R9XFV9	
UniRef90_K9RR74	L R E K L H
UniRef90_S7X8Q4	
UniRef90_I3IQV9	L R E K L
UniRef90_U5L7R6	F W K R V H

UniRef90_E7C2Q3
UniRef90_U7VAA3
UniRef90_A9AZY4
UniRef90_D2Z3D0
UniRef90_G2WU10
UniRef90_UPI00031DCCB2
UniRef90_UPI000402B4D4
UniRef90_C5GL69
UniRef90_S2JQ12
UniRef90_V7HUG8
UniRef90_J3K2Q3
UniRef90_L1JD49
UniRef90_R5BD59
UniRef90_G0W5U6
UniRef90_E7A8P5
UniRef90_C2CFU0
UniRef90_R7Z797
UniRef90_G9PX20
UniRef90_UPI000375C914
UniRef90_UPI000417E9C3
UniRef90_UPI0003297BB6
UniRef90_UPI00026277FC
UniRef90_N4WA92
UniRef90_A7C2E8
UniRef90_H2MUL6
UniRef90_Q46HL7
UniRef90_A0A015M0K9
UniRef90_E6ZP05
UniRef90_E6TX54
UniRef90_Q22RP1
UniRef90_C1MMX0
UniRef90_D4JU76
UniRef90_S0KHR3
UniRef90_E4ZYW4
UniRef90_D8IFM1
UniRef90_I0JKK4
UniRef90_D8TUE1
UniRef90_UPI00035C9B80
UniRef90_UPI000348E352
UniRef90_D0U5W7
UniRef90_K9PVJ0
UniRef90_A5GP48
UniRef90_A0A024JGP1
UniRef90_R6ALE9
UniRef90_UPI0002629A17
UniRef90_M0M4C1
UniRef90_UPI000473E998
UniRef90_V9KHC7
UniRef90_Q23D92
UniRef90_UPI000479E775
UniRef90_MON8G7
UniRef90_M0CTH7
UniRef90_UPI0004652B8C
UniRef90_W0J212
UniRef90_L1LC20
UniRef90_Q7VGM5
UniRef90_K9EAV9
UniRef90_H5SRA2
UniRef90_Q7U406
UniRef90_UPI00046E96A0
UniRef90_C7MC96
UniRef90_A7TN21
UniRef90_X1LAJ9
UniRef90_B5IEA1
UniRef90_D9V4A8
UniRef90_O34934
UniRef90_A3YX74
UniRef90_Q74KC7
UniRef90_E5Y9B5
UniRef90_H2N0T2
UniRef90_H1LE31
UniRef90_W8AB29
UniRef90_S1R3V9
UniRef90_W6QH10
UniRef90_UPI0002E653A8
UniRef90_A0A058VCF5
UniRef90_UPI00014B4359
UniRef90_I3ECG8
UniRef90_G0EMJ2
UniRef90_UPI0003773AD2
UniRef90_U4LB28
UniRef90_H1S047
UniRef90_W8QLU9
UniRef90_W7BXE0
UniRef90_E3C9J9
UniRef90_F2F883
UniRef90_W4WB21
UniRef90_C7P3V4
UniRef90_K1Y3T5
UniRef90_UPI0002628E0E
UniRef90_U4TXU3
UniRef90_B8E249

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

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

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

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

UniRef90_E7C2Q3 D L A L S V G G D G T M L R T F E R V A E D V P V L G I N V G L G Y L A E F E K
UniRef90_U7VAA3 K F A V V I G G D G T L L R A S K T L A N K N I D I L F A G I N A M G R L G F L T E I K
UniRef90_A9AZY4 Q L M L A L G G D G T V L R A A R L I T Y N M P I L L G V N A M G R L G F M A A A G D
UniRef90_D2Z3D0 S V A I V I G G D G T F L R A A R Y L D D H I A L L G V N L G R L G F L T A A G T
UniRef90_G2WU10 D F I I T L G G D G T V L Y A S W L F Q R V P P V L S F A L G S L G F L T A K F D
UniRef90_UPI00031DCCB2 D L V I S V G G D G T F L H A A R H H Y F H Q T A F I G V H T G H L G F Y A D W L
UniRef90_UPI000402B4D4 D L A I V L G G D G T A L A A A R H L A P G I L A A N V I G G H L G F L T E S
UniRef90_C5GL69 D F I V T L G G D G T V L Y G S W L F Q Q V P P V V L S F A L G S L G F L T N F D
UniRef90_S2JQ12 D F A V T L G G D G T M L H L S S L F P K A P P V V V S F S L G T L G F L M S Y K
UniRef90_V7HUG8 E I V V T I G G D G T L L S A F H L Y R D Q I R F V G V H T G H L G F Y T D W R
UniRef90_J3K2Q3 D F I I T L G G D G T V L Y A S W L F Q Q V P P V L S F S L G S L G F L T N F D
UniRef90_L1JD49 D F V I C L G G D G T I M W V N G L Y G P C P P I L L S F A M G S L G F F L T P F D
UniRef90_R5BD59 D F V L A F G G D G T I L R A A E A M K Y N A P P I L L S G V N B F G R I G F L L S E I D
UniRef90_G0W5U6 D L C V T M G G D G T V L F V S S I F R H V P P I L L S F S L G S L G F L T N F K
UniRef90_E7A8P5 G V V L C L G G D G T L G A L R R S G S A A C P F F G V I H V G H L G F L T S A A N E
UniRef90_C2CFU0 I L N L V I G G D G T F L N A V L R S Q S E F D I P F I G L N T G H L G F F Y Q E V E
UniRef90_R7Z797 D I V L A L G G D G T V L Y A S W L F Q R V P P V L L A F S L G S L G F L T K F D
UniRef90_G9PX20 S F A V I L G G D G T F L R A A R Y L G S D V P P I L Y G I N L G R I G F L L A I G N E
UniRef90_UPI000375C914 E I V L A L G G D G T V L R A A A Y A H T A I P V L G I N L G R I G F Y A D W Q
UniRef90_UPI000417E9C3 E I V I S I G G D G T L L E A F H Q Y A H R L D F V G V H T G H L G F Y A D W Q
UniRef90_UPI0003297BB6 D L I I C L G G D G T L L Y A S S L Y Q S V P P V M A F H L G S L G F L T P F K
UniRef90_UPI00026277FC D L V I S V G G D G T F L E A F H Q Y I H S L D F I G I H T G H L G F Y A D W T
UniRef90_N4WA92 E I V I S V G G D G T F L E A F H R Y K H R L K F I G I H T G H L G F Y A D W L
UniRef90_A7C2E8 D L I I V I G G D G T L L Q A A S R L L A H D V C L L G V N L G S L G F L T D L S
UniRef90_H2MUL6 D L L I C L G G D G T L L Y A S S L F Q S V P P V M A F H L G S L G F L T P F K
UniRef90_Q46HL7 E I T I V L G G D G T V L R A A R Y L S P N I P I L S F N V G G N F L T H D R Q
UniRef90_A0A015M0K9 D F V I T L G G D G T I L H V S S L F N Q C P P V V S F S M G T L G F L L P F Y
UniRef90_E6ZP05 D F V I T L G G D G S I L H V S S L F D R D P P V L S F S M G T L G F L L P H D
UniRef90_E6TX54 E I V I S V G G D G T L L K A F H E Y S H R L H F V G V H T G H L G F Y A D W Q
UniRef90_Q22RP1 D L I I T L G G D G T I L Y T M S H F Q N S P P I A L E M G S L G F M C M Y N S
UniRef90_C1MMX0 D F I V C L G G D G T I L W V L N L F K S V P V V V S F G M G S L G F L T S F S
UniRef90_D4JU76 D M F M T I G G D G T I L K W G Q K A A A C K L L L G I N T G R L G F M T S I E
UniRef90_S0KHR3 D L V I S I G G D G T L L S A F H L Y S H H V R F L G V H T G H L G F Y T D W R
UniRef90_E4ZYW4 D V V L A L G G D G T V L Y A S W L F Q R V P P T L A F S L G S L G F L T K F D
UniRef90_D8IFM1 S M L I S I G G D G T L L S A L K A I K Y N I S V L P I Y N G T L G F L S E I P
UniRef90_I0JKK4 D L A I S V G G D G T L L E A F H T Y V D Q T A F I G I H T G H L G F Y A D W M
UniRef90_D8TUE1 D F C I S L G G D G T V L Y L T S T F E E D P P V L C F A M G T L G F L T P F D
UniRef90_UPI00035C9B80 D I V I S V G G D G T L L H A F H R Y Q N R L D F V G V H T G H L G F Y A D W L
UniRef90_UPI000348E352 D I V I T V G G D G T V L H A F H R Y N H R L A F V G V H T G H L G F Y A D W V
UniRef90_D0U5W7 D L V V S L G G D G T V L R A V H L L D G A P P I L L G V N V G T L G Y L T E L D
UniRef90_K9PVJ0 D L A I V L G G D G T V L A A A R H L S E G I P I L L A V N L G F L T T E P I E Q T
UniRef90_A5GP48 D L A V V L G G D G T V L G A A R H L L A L D V P I L L C F N L G R S D T L W T R L
UniRef90_A0A024JGP1 D L L I T L G G D G T L L H A T S L Y S H V P P V L S F S L G T L G F L L P F D
UniRef90_R6ALE9 A C I V T I G G D G T I L R A V S H A V N Q T P I L L G I N L G K I G F F S E T S
UniRef90_UPI0002629A17 D L V I V L G G D G T F L R A L E V V R E E V P L H G I N L G V H V G F L A E S E
UniRef90_M0M4C1 D L V V S I G G D G T L L F A A R G A G T T P V M G I N L G E V G F F L N V T A
UniRef90_UPI000473E998 D I V I S V G G D G T L L Y A F H H Y Q H R L D F V G V H T G H L G F Y A D W T
UniRef90_V9KHC7 D L I I C L G G D G T L L Y A S S L F Q S V P P V M A F H L G S L G F L T P F K
UniRef90_Q23D92 D V V I T Y G G D G T I L Y T V N K F Q K T P P I L L A T I G G T L G F M C I Y S
UniRef90_UPI000479E775 D I V V S I G G D G T L L Q A F H R Y K D C V S F V G V H T G H L G F Y A D W K
UniRef90_MON8G7 T L V V S I G G D G T F L F T A R E V G T T P I M G V N L G E V G F F L N A T S
UniRef90_M0CTH7 D L V V S I G G D G T F L F A A R A A G A T P I M G V N L G E V G F F L N A V P
UniRef90_UPI0004652B8C E L L I V L G G D G T I L L A S K L L K E N I P L L L G F N H G K L G F L S E C E
UniRef90_W0J212 D A C C V I G G D G T L L G V V S E A A H D V P V I G L S R G T L G F L T T F S
UniRef90_L1LC20 D L I I T L G G D G T I L R V N K M F D I P P V I G L S L G S L G F Y L A K F N
UniRef90_Q7VGM5 D A L F S L G G D G T L I S M L R R F E Y E L P C M G I N T G R L G F L T A L M
UniRef90_K9EAV9 D I V I S V G G D G T L L S A F H R Y A H L L D F I G V H T G H L G F Y T D W R
UniRef90_H5SRA2 D L V V T L G G D G T F L K G A R I A E D L P I V G V N L G S L G F L T S V G
UniRef90_Q7U406 D L A V V L G G D G T V L G A A R H L A H D I P I L S I N V G G H F L T H D R R
UniRef90_UPI00046E96A0 E I V V S I G G D G T M L H A F H T F I D R I P F V G V H T G H L G F Y A D W Q
UniRef90_C7MC96 L G I V S I G G D G T L L R A F E A V R E D I P V H G V N L G H V G F L A E S E
UniRef90_A7TN21 D L V M T L G G D G T V L Y V S S I F Q H T P P I V S F A L G S L G F L T N F K
UniRef90_X1LAJ9 D L I I S I G G D G T I L R A A Q A V A S Q T P I I G I N L G K L G F M T E I S
UniRef90_B5IEA1 D V I I T V G G D G T L L L A J Q R A R G R I L L G V N M G L G F L T E I S
UniRef90_D9V4A8 D L L V S L G G D G T M L R A M R L A D G Q A P V L G V N L G K L G F L A E V D
UniRef90_O34934 N I L A S I G G D G T F L Q A A V R K T N D C L Y V G I T K K G K A H L Y C D F H
UniRef90_A3YX74 D L T V V L G G D G T V L G A A R H L G P D V P I L L S F N V G G H L G F L T H E
UniRef90_Q74KC7 D V V I T I G G D G T L I S G F H K Y Q D K I R F I G V H T G H L G F Y T D W R
UniRef90_E5Y9B5 D A I L I L G G D G T F V G V G R K L A G D I P L L G I N F G Q V G F L T E L S
UniRef90_H2N0T2 E M V I S V G G D G T L L S A F H H Y Q D Q I R M V G I H T G H L G F Y T D W R
UniRef90_H1LE31 D I V I T V G G D G T L L S E A F H L Y A H R L A F V G V H T G H L G F Y A D W V
UniRef90_W8AB29 E L V I S V G G D G T L L S A F H L Y N D Q V R F L G V H T G H L G F Y T D W R
UniRef90_S1R3V9 D F V I T L G G D G T V L Y T S W L F Q R V P P V L S F A L G S L G F M T N F D
UniRef90_W6QH10 A V M V C Y G G D G T L L D G V R L L G G A P P V V G I N A G R L M G F L T G G R
UniRef90_UPI0002E653A8 T L A V V M G G D G T L L G A A R H L A P G V P L I G N H G R L G F I T D I P
UniRef90_A0A058VCF5 N I G I A L G G D G T L L K A N A L A D D I P L L S I N L F D K S F I E T I E
UniRef90_UPI00014B4359 N L I V S I G G D G T F L Q S V R K T G D C L Y A G I S T N T E H L S M Y C D F Y
UniRef90_I3ECG8 S M L I S I G G D G T L L S A L K A I K Y D I S V L P I Y N G T L G F L S E I P
UniRef90_G0EMJ2 D I V I S I G G D G T L L H A F H R Y K D H I A F V G I H T G R L G F F A D W K
UniRef90_UPI0003773AD2 D I V L S I G G D G T L L H A A S L F S S V P P I L L S F A M G T L G F L G E F K
UniRef90_U4LB28 D A L I T L G G D G T I L H A A S L F S S V P P I L L S F A M G T L G F L G E F K
UniRef90_H1S047 D L V I T V G G D G T L L Y A F H R Y S N R L A F V G V H T G H L G F Y A D W V
UniRef90_W8QLU9 E I V I S I G G D G T L L S A F H E Y E D D T A F V G I H T G H L G F Y A D W R
UniRef90_W7BXE0 E V V I T I G G D G T L L S A F H H Y I D Q L D F V G I H T G H L G F Y T D W R
UniRef90_E3C9J9 E L V L S I G G D G T L L H A F H R Y L H R L D F V G I H T G H L G F Y A D W K
UniRef90_F2F883 D F I V C L G G D G T L L Y A S L L F Q Q V P P V M A F H L G S L G F L T P F E
UniRef90_W4WB21 D L V V S I G G D G T F L F A A R G A G S T P I L G V N L G E V G F L N A V A
UniRef90_C7P3V4 D F V V T L G G D G T V L Y A S W L F Q R V P P V L S F A L G S V G F L T K F D
UniRef90_K1Y3T5 D L I V T V G G D G T F L R G V R V A A P Q I S L V L G V N V G R V G F L T E V A
UniRef90_UPI0002628E0E D I V I T V G G D G T L L S A F H R Y A H Q I D F I G V H T G H L G F Y T D W R
UniRef90_U4TXU3 D L G V A I G G D G T V L Y T L Q K L S Y N I P V V G I N T G R L G F L T T V E
UniRef90_B8E249 D L G V A I G G D G T V L Y T L Q K L S Y N I P V V G I N T G R L G F L T T V E

UniRef90_E7C2Q3
UniRef90_U7VAA3
UniRef90_A9AZY4
UniRef90_D2Z3D0
UniRef90_G2WU10
UniRef90_UPI00031DCCB2
UniRef90_UPI000402B4D4
UniRef90_C5GL69
UniRef90_S2JQ12
UniRef90_V7HUG8
UniRef90_J3K2Q3
UniRef90_L1JD49
UniRef90_R5BD59
UniRef90_G0W5U6
UniRef90_E7A8P5
UniRef90_C2CFU0
UniRef90_R7Z797
UniRef90_G9PX20
UniRef90_UPI000375C914
UniRef90_UPI000417E9C3
UniRef90_UPI0003297BB6
UniRef90_UPI00026277FC
UniRef90_N4WA92
UniRef90_A7C2E8
UniRef90_H2MUL6
UniRef90_Q46HL7
UniRef90_A0A015M0K9
UniRef90_E6ZP05
UniRef90_E6TZ54
UniRef90_Q22RP1
UniRef90_C1MMX0
UniRef90_D4JU76
UniRef90_S0KHR3
UniRef90_E4ZYW4
UniRef90_D8IFM1
UniRef90_I0JKK4
UniRef90_D8TUE1
UniRef90_UPI00035C9B80
UniRef90_UPI000348E352
UniRef90_D0U5W7
UniRef90_K9PVJ0
UniRef90_A5GP48
UniRef90_A0A024JGP1
UniRef90_R6ALE9
UniRef90_UPI0002629A17
UniRef90_M0M4C1
UniRef90_UPI000473E998
UniRef90_V9KHC7
UniRef90_Q23D92
UniRef90_UPI000479E775
UniRef90_M0N8G7
UniRef90_M0CTH7
UniRef90_UPI0004652B8C
UniRef90_W0J212
UniRef90_L1LC20
UniRef90_Q7VGM5
UniRef90_K9EAV9
UniRef90_H5SRA2
UniRef90_Q7U406
UniRef90_UPI00046E96A0
UniRef90_C7MC96
UniRef90_A7TN21
UniRef90_X1LAJ9
UniRef90_B5IEA1
UniRef90_D9V4A8
UniRef90_O34934
UniRef90_A3YX74
UniRef90_Q74KC7
UniRef90_E5Y9B5
UniRef90_H2N0T2
UniRef90_H1LE31
UniRef90_W8AB29
UniRef90_S1R3V9
UniRef90_W6QH10
UniRef90_UPI0002E653A8
UniRef90_A0A058VCF5
UniRef90_UPI00014B4359
UniRef90_I3ECC8
UniRef90_G0EMJ2
UniRef90_UPI0003773AD2
UniRef90_U4LB28
UniRef90_H1S047
UniRef90_W8QLU9
UniRef90_W7BXE0
UniRef90_E3C9J9
UniRef90_F2F883
UniRef90_W4WB21
UniRef90_C7P3V4
UniRef90_K1Y3T5
UniRef90_UPI0002628E0E
UniRef90_U4TXU3
UniRef90_B8E249

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

UniRef90_E7C2Q3 K K S Q G H T V R L E V T L D G S V F A T Y A G D G L T V S T P T G S T A Y N S L L
UniRef90_U7VAA3 K M A S S K I L N I S E M A N T E D N T K I L C D Y K A D D G I I V S T A T P T G S T A Y N S L L
UniRef90_A9AZY4 R R D V A R V V H V S V I A K V C G D M P L T S V Y R A D D G I V L V S T A T P T G S T A Y N S L L
UniRef90_D2Z3D0 K G A L A R V V M E V D I F G D D E H F T S V L R A D D G I V L V S T A T P T G S T A Y N S L L
UniRef90_G2WU10 R G P N P T M S Y T E I F G D D E H F T S V Q A D D G I C V S T P T G S T A Y N S L L
UniRef90_UPI00031DCCB2 L N E T T S V V L D V T K G G E H F E R F R Q A D D G L C V S T P T G S T A Y N S L L
UniRef90_UPI000402B4D4 P A Y R M P T S F L E M E V D D Q Y Q A D D G L I V S T P T G S T A Y N S L L
UniRef90_C5GL69 R G P N P T M S S I L E I F G D D E H F T S V Q A D D G L C V S T P T G S T A Y N S L L
UniRef90_S2JQ12 R G R F P H L T T L D C F V G D G E K Y L T E C V A D D G L I V S T P T G S T A Y N S L L
UniRef90_V7HUG8 R T S S T M V T L D V Y V D G E K F E R F R G A D D G L C I S T P T G S T A Y N S L L
UniRef90_J3K2Q3 R G P N P T M S S L E I F G D D E Y F T S I Q A D D G V I C V S T A T P T G S T A Y N S L L
UniRef90_L1JD49 R G P S S Y L T N I E I C F C D D G L S A S Q G D G V I V S T A T P T G S T A Y N S L L
UniRef90_R5BD59 K R T F S G V D V E I S I D V D D G L S A G S V I C D G V I V S T A T P T G S T A Y N S L L
UniRef90_G0W5U6 R G P S P F I S M L E L Y S E D N L M T V A Q A D D G L I I A T P T G S T A Y N S L L
UniRef90_E7A8P5 R K N D V Y G I L E L E V F V D D G K L A N L Y Q V D G L I I E A T P L G S T A Y N S L L
UniRef90_C2CFU0 K S N R N Q L V R L K V F L D G N F V L E Y Y S G D G L I I S T P T G S T A Y N S L L
UniRef90_R7Z797 R G P N P T M S S L E I F G D D E H F T S V Q A D D G I C V S T A T P T G S T A Y N S L L
UniRef90_G9PX20 K G S L A R V I D L E V K V D G K E L L S L F L A D D G L I I S T P T G S T A Y N S L L
UniRef90_UPI000375C914 N E S R L G V L E V V M E V D G R P V S S F G C D G V I V S T A T P T G S T A Y N S L L
UniRef90_UPI000417E9C3 L N E C T V K S M M D T E I K G G E Q F E T F R G D G L C L S T P S G S T A Y N S L L
UniRef90_UPI0003297BB6 R G P S S Y L T N V D L E I K D G R L I T S V Q G D G L I V S T P T G S T A Y N S L L
UniRef90_UPI00026277FC A L N E A T L V V F D V E I K G H F E T F R G D G L C I S T P T G S T A Y N S L L
UniRef90_N4WA92 I K S A E G T V V M D V L I K G A H F E R F R G D G L C I S T P S G S T A Y N S L L
UniRef90_A7C2E8 R G T M S H M L T F K T T I N G R H F V N I Q R A D D G L V V S T P T G S T A Y N S L L
UniRef90_H2MUL6 R G P S S Y L T N V D L E I K D G R L I T S V Q A D D G L I V S T P T G S T A Y N S L L
UniRef90_Q46HL7 T D E I A P T C S L A L E I D G E A V D R Y K G D G L I I F S T P T G S T A Y N S L L
UniRef90_A0A015M0K9 R G R Y P H L T A I E C F V D D G Q F L T D A I S D G L I I A T P T G S T A Y N S L L
UniRef90_E6ZP05 R G R E P H M T K I D A Y V D D G Q H L L T Q A I S D G L I I A T P T G S T A Y N S L L
UniRef90_E6TX54 V K S T E G S I V M D T E I K G G E L F E T F R G D G L C I S T P S G S T A Y N S L L
UniRef90_Q22RP1 R G Q N A S C L K M E I F L N N E S L T K T L G A D G L I I F S T P T G S T A Y N S L L
UniRef90_C1MMX0 R G A N S T L I D L D V I N I L D G N P M T K V L A D G V M I S T P T G S T A Y N S L L
UniRef90_D4JU76 K C R Y S K L P E F I V S V E E Y E V T K I R A D G I I F S T P A G S T A Y N S L L
UniRef90_S0KHR3 L N E S T Q T L E A D V I K D D E L F E K F R G A D G I S V A T P T G S T A Y N S L L
UniRef90_E4ZYW4 R G P N P T M S S I E L F G D D E H F T S V Q A D D G I C I S T P T G S T A Y N S L L
UniRef90_D8IFM1 C K L D G R T L Y M D I N T S G K K V S S I G D G V V V A T P T G S T A Y N S L L
UniRef90_I0JKK4 T S E G S V V F D I E I K G D H F E T F R G D G L C I S T P S G S T A Y N S L L
UniRef90_D8TUE1 R G A F P G A V L L E I F V D G S Y V T N V E A D G L I I S T P S G S T A Y N S L L
UniRef90_UPI00035C9B80 V K S S E G T L V M D V E I R G G E Y F E T F R G D G L C I S T P S G S T A Y N S L L
UniRef90_UPI000348E352 L N E C T V S L V S N V E I K G N Q D V F E V F R G D G L C I S T P S G S T A Y N S L L
UniRef90_D0U5W7 K Q O S G H T I W L D L V I N N Q D F F A R Y S A D G L I V S T P T G S T A Y N S L L
UniRef90_K9PVJ0 P A D R M P T A V F E M E A D N T T V D Q Q Y H G D G L L V A T S T G S T A Y N S L L
UniRef90_A5GP48 R E D L A P L C T L E L I E D G E V V D Q V R G S D G L L V S T P T G S T A Y N S L L
UniRef90_A0A024JGP1 R G A D P H L T H L D I E A N G Q F V T R G I S D G V V I S T P T G S T A Y N S L L
UniRef90_R6ALE9 K S G F S S V S H I E L G V D G A D V G M I H G D G I I V S S R L G S T A Y N S L L
UniRef90_UPI0002629A17 K A D R Q K M L Y V V I E I D D G R P V S S F G C D G V L L A S T P T G S T A Y N S L L
UniRef90_M0M4C1 T G R P G R G G E F A V E V D G D S F F E S H A D G V L V A T P A G S T A Y N S L L
UniRef90_UPI000473E998 S V E G S L V M D V E I K G G Q Q F E T F R G D G L C I S T P S G S T A Y N S L L
UniRef90_V9KHC7 R G P S S Y L T N V D L E I K D G R L I T S V Q G D G L I V S T P T G S T A Y N S L L
UniRef90_Q23D92 R G A L S A C L R L Q I F V E N I P L T A L Q T D G L I V I N T P T G S T A Y N S L L
UniRef90_UPI000479E775 N E F T D G T L V A S L L I N D E P F E M F R G D G I V I S T P S G S T A Y N S L L
UniRef90_MON8G7 G D R P G R G A E F T I E I D D G S E Y L D S H A D G V L V A T Q T G S T A Y N S L L
UniRef90_MOCTH7 G P R R G H G A A V E V R V D G S L Y T S G H A D G V L V A T P T G S T A Y N S L L
UniRef90_UPI0004652B8C K G K Y P K M L T F K I L D D N E Y L F D I E A D G L I V S T P T G S T A Y N S L L
UniRef90_W0J212 E A S N S R I V T L G V E A D G E L V T N Y L C D G D G L I I S T P T G S T A Y N S L L
UniRef90_L1LC20 R G L S P Y I T T L D V Y A D G K Y F T T V S G D G L M I G T P S G S T A Y N S L L
UniRef90_Q7VGM5 K H E L S G M V H I D A S I D R K Y F N T Y R C D G L I I G T P A G S T A Y N S L L
UniRef90_K9EAV9 L N E S D K T L V C D L F L A G E R F F E R F R G D G L C I S T P T G S T A Y N S L L
UniRef90_H5SRA2 H T E I S R R T E I E L F A G E R S L G S Y P G D G V L I S T P T G S T A Y N S L L
UniRef90_Q7U406 R D E I S P T C T L E L E I D G E V V D Q I R G D G L I I S T P T G S T A Y N S L L
UniRef90_UPI00046E96A0 T S H L E G T V V L Q I E I D D E N F E M F R G D G L C I S T P S G S T A Y N S L L
UniRef90_C7MC96 K A D R Q K M I N V A I E I N D G R P V S S F G A D G V L V A T P S T G S T A Y N S L L
UniRef90_A7TN21 R G S S P F I S M L E L Y G D S S L F T V A Q A D G L I V S T P T G S T A Y N S L L
UniRef90_X1LAJ9 R G A I A R V V Y V E A S L D G E P L T T Y K A D G L I V A T A T G S T A Y N S L L
UniRef90_B5IEA1 T A E I A K L V S Y T V F Y E K E L L D E F R A D G L I V A T P T G S T A Y N S L L
UniRef90_D9V4A8 R V P G D G S A V V A V L V N G E Q F V S Y A A D A V V V A T P T G S T A Y N S L L
UniRef90_O34934 S S I T K T F V M D V L I D D L H F E T F R G D G M I I S T P T G S T A Y N S L L
UniRef90_A3YX74 P D E L S P T C V L E L E I D G E V V D Q F R G D G L I I A T S T G S T A Y N S L L
UniRef90_Q74KC7 R V I S K T L K A D V Y I R D Q F F E S F K G D G L C V S T P T G S T A Y N S L L
UniRef90_E5Y9B5 R G A I A R V L P V H I F V D G E D M G V V R S D G V I V S T P L G S T A Y N S L L
UniRef90_H2N0T2 R G P S S Y L T N V D L E I K D G H L I T T V Q G D G L I V S T P T G S T A Y N S L L
UniRef90_H1LE31 L N Q I N G T M V A D L Y I K N Q L F E S F R G D G L C V S T P S G S T A Y N S L L
UniRef90_W8AB29 L N E S T S L V C N V E I K G E V F E T F R G D G L C M S T P S G S T A Y N S L L
UniRef90_S1R3V9 R R S T Q T L E A D V I K D E L F E K F R G D G L S V A T P T G S T A Y N S L L
UniRef90_W6QH10 R G P N P T M S Q T E I F G D D E H F T T L L A D G M C I A T P T G S T A Y N S L L
UniRef90_UPI0002E653A8 E A A V I Q R M I S V E C R V D D G Q V A T Y Y G D G V I V S T P T G S T A Y N S L L
UniRef90_A0A058VCF5 R A G R G M I E V R V E L D D D G A F M Y T Q R A D G L I I A T P T G S T A Y N S L L
UniRef90_UPI00014B4359 S T D V S P T N Q I Q I E I D N E K V N E Y K G D G L I I S T S T G S T A Y N S L L
UniRef90_I3ECC8 S S L I R T F A M D V I T I D D L H F E T F R G D G M I V A T P T G S T A Y N S L L
UniRef90_G0EMJ2 S K C D G R A I Y I D I T S S G K L I S S I V G D G V V I A T P T G S T A Y N S L L
UniRef90_UPI0003773AD2 L K G V D T T L V A E L R I N D E P F E T F R G D G I C I S T P S G S T A Y N S L L
UniRef90_U4LB28 R G R D P H L T I L E I S I F I D G H F L T E A V A D G L I V S T P T G S T A Y N S L L
UniRef90_H1S047 R S G I S G M V E L A V S V D G H L I T T V Q G D G L I V S T P T G S T A Y N S L L
UniRef90_W8QLU9 M N E M E G T L V A D V E I R G G Q L F E T F R G D G L C L S T P S G S T A Y N S L L
UniRef90_W7BXE0 S S G G P F V V D V I N N T Q F E N F R G D G L C C M S T P S G S T A Y N S L L
UniRef90_E3C9J9 I R N I T K T M V C D V Y I N N Q L F E N F R G D G L C C I S T P T G S T A Y N S L L
UniRef90_F2F883 I K S P D V T L V M D V E L N G E H F E R F R G D G L C I S T P S G S T A Y N S L L
UniRef90_W4WB21 R G P S P Y L T N I D L F R V D D G K H V T S V Q G D G L I V S T P T G S T A Y N S L L
UniRef90_C7P3V4 G S Q R G H G A G F E V F V D G S L Y T S G H A D G V L V A T P T G S T A Y N S L L
UniRef90_K1Y3T5 N S Q R P T M S S T E I F G D D E H F T S V Q A D G V C V A T P T G S T A Y N S L L
UniRef90_UPI0002628E0E K L A R D R K Q A S L A V Y V I D G R Q F A V Y S T D A F V V A S T G S T A Y N S L L
UniRef90_U4TXU3 I R R V N K T M K T D I Y I R D E L F E S F R G D G L C I S T P T G S T A Y N S L L
UniRef90_B8E249 K S E N T P L T I S I N F I F N N G S I L L T P P A D G V I V A T S A G S T A Y N S L L

UniRef90_E7C2Q3 S A R G S I V A P T H W S L Q L T P V A P H M L F D R S L V L R P D T Q L R I A
UniRef90_U7VAA3 S A G G P I V M P Q I K A I V V T P V A P H N L L A S L P L I V L S P G D E T R L I L T
UniRef90_A9AZY4 A A G G P I V L D P P R S D S L L L V T P V A G H L L T L Y A R P A L V L G P P E D T K I T T W T E
UniRef90_D2Z3D0 S A G G P I V L P P H V P C M L M A T P V I C A H T L L Y A R P A L V L G P P E D T K I T T W T E
UniRef90_G2WU10 A A G G S L L C H P P E N P V M L V T S E M S Y R T L I G S R P I L L P P D T T I V L T R V L V
UniRef90_UPI00031DCCB2 A L G G A I L I H P P S L S T M Q I T P E M S Y R T L I G S R P I L L P P D T T I V L T R V L V
UniRef90_UPI000402B4D4 S A G G P I L I H P P G M A A I S V T P V I C A H T L L Y A R P A L V L G P P E D T K I T T W T E
UniRef90_C5GL69 S A G G S L L S H P P E N P S L L L T P A I C C A H T L L S F R P I L L P P D T T I V L T R V L V
UniRef90_S2JQ12 S A G G P I V L H P P S V Q S L V L V T P I C C A H T L L S F R P I L L P P D T T I V L T R V L V
UniRef90_V7HUG8 S V G G A V I H P P D M D V L Q L L A E I G S F R T L A S P M I I L A P D T T I V L T R L R G Q
UniRef90_J3K2Q3 A A G G S L L C H P P E N P V I L L T P A I C C A H T L L S F R P I L L P P D T T I V L T R L R G Q
UniRef90_L1JD49 A A G G S M V H P P D V P G M L L T P I C C A S V L L S F R P I V I F P P D S V T K L S F
UniRef90_R5BD59 S A G G P V I A P P G L D A L L I T P I C C A S V L L S F R P I V I F P P D S V T K L S F
UniRef90_G0W5U6 S A G G S L I Y P T L N A I A V T P I C C P H T L L S F R P I L L P P E S M T L K V K R
UniRef90_E7A8P5 S V G G S V L H P P L C E N G L F T P I A P H S Y S N M S P L V L L G A N D A T I D G V R S
UniRef90_C2CFU0 S A G G A I L H Q S L N G F Q L T P I A P H S Y S N M S P L V L L G A N D A T I D G V R S
UniRef90_R7Z797 A A G G S L L C H P P D N P V I L L T P A I C C A H T L L S F R P I L L P P D T T I V L R I G
UniRef90_G9PX20 S A G G P I V P P P H V P C M I M A T P V I C A H T L L Y A R P A L V L S P D T D N I I V E
UniRef90_UPI000375C914 S A G G P V V W P P E L D A L L V V P S N A H A L F A R P M V T R P E S V I A V E
UniRef90_UPI000417E9C3 A L G G A I L I H P P L A S I Q L A E M A S Y R T L I G S P V V L P P E H H T C L L K
UniRef90_UPI0003297BB6 A A G A S M I H P P N V P A I M V T E I A S F R T L S F R P I L V V P A G V E L M I T
UniRef90_UPI00026277FC A L G G G I I H P P S L E A I Q L T E M A S F R T L I G S P L L L P P K H H T C M L K
UniRef90_N4WA92 A L G G A I I H P P S L E A I Q L T E M A S F R T L I G S P L L L P P N H H V C M L K
UniRef90_A7C2E8 S A G G P L I H P P L N A L V L V T P I C C P H T L L S F R P I L L P P D G D S C V Q I T
UniRef90_H2MUL6 A A G A S M I H P P N V P A I M V T E I A S F R P I V V P P A G V E L M I T
UniRef90_Q46HL7 A A G G P T I H P P S V Q S L V L T P I C C P R S L S F R P I V V P P P E S Q L V I K
UniRef90_A0A015M0K9 S A G G P I V H P P S V Q S L V L T P I C C P R S L S F R P I L L P P S D V K I Q L M
UniRef90_E6ZP05 S A G G P I V H P P S V Q S L V L T P I C C P R S L S F R P I V L P P S D S V I Q L K
UniRef90_E6TX54 A L G G A I L I H P P S L A T F Q V V A E M A S Y R T L I G S P L V L P P Q H H V C L K
UniRef90_Q22RP1 S A G G P I L I Q N E V R S T S L F V P I C C P F S L S F R P I L V L P P E C S E L K V I
UniRef90_C1MMX0 A A G G S M V H P P G V S G V L F V P I C C P H T L L S F R P I L V L P P D S V L T I R
UniRef90_D4JU76 S A G G P T I S P D A Q C I E F T P L C A H S L F G R P M I F S A D S E I T V R E
UniRef90_S0KHR3 S V G G A V L H P P R I N A M Q L T E I A S F R T L G S P I V L S P D T E W V L E
UniRef90_E4ZYW4 A A G G S L L C H P P D N P V I L L T P A I C A H T L L S F R P I V L S P D T M V L R T G
UniRef90_D81FM1 S A G G P I I V P T I D A M S F V P I A P H S L T F R P I L V L P P K G D S V E I K
UniRef90_I0JKK4 A L G G A I L I H P P S L E A I Q I T E M A S F R T L I G S P L L V L P P S H H T C L K
UniRef90_D8TUE1 S A G G P V V A P S V P C T V F T P I A P H S L S F R P I V V L P P E S S I C V L K
UniRef90_UPI00035C9B80 A L G G A I I H P P S L E A I Q I T E M A S F R T L I G S P L L V L P P K H H T C L V R
UniRef90_UPI000348E352 A L G G A I I H P P S L A S I Q I A E M A S Y R T L I G S P L L V L P P Q H H T C L K
UniRef90_D0U5W7 S A R G P I M S P R H R A L V I T P V S P H M L F D R A L V L D P Q Q E T S V H I K
UniRef90_K9PVJ0 S A N G P I L H P P G L E A I A V T P I C C P L S L S S R P I V L P P A G T S V D I W
UniRef90_A5GP48 A A G G P L I H P P S V I D A L L V T P A I C C P M S L S S R P I L L P P L S R S T K I E V R
UniRef90_A0A024JGP1 C A G G S M V H P P S V P C T L L T P V I C C P R S L S F R P I L L P P L S T K I E V R
UniRef90_R6ALE9 S A G G P V V A P N L D V I L V T P V I C C P H S L L T V R P I A A A F D S V I E I N
UniRef90_UPI0002629A17 S A G G P I V W P E V D A F L V T P L A A H A L F A R P I L V L S A S G E A I E M T
UniRef90_M0M4C1 S E G G P V L H S D V P G L I V T P L A A H A L F A R P I L V L S A S G E A I E M T
UniRef90_UPI000473E998 S L G G A L L H P P L H A I Q I A E M A S F R T L I G S P L V L P P G H H T A L L K
UniRef90_V9KHC7 A A G A S M M H P P N V P A L M I T P I C C P H S L S F R P I L V V P P A G M E L K I M
UniRef90_Q23D92 S A G G P I I Y N D V K C M S V P I C C P L S L S F R P I L L L H P A G M E L K I M
UniRef90_UPI000479E775 S L G G A V I I H P P L E A L Q I A E I A S Y R T L G S S V I L P K H H H C D I V
UniRef90_MON8G7 S E G G P L V H P P D V P A L V L T D M A A T D E S P M P L V V D R D S E I T T V R
UniRef90_MOCTH7 S E G G P L V H P P G V S T L V L T E M A C G T E S M P P L A V D A D S E I T T V R
UniRef90_UPI0004652B8C S A G G S I V F P X T N V L X L T P I N P H N Q F V K P F I F S A X K K X S I Q
UniRef90_W0J212 S A G G P L I H P P D G A E V F A M T P I C C P H T L S N R S I I F H H K V C L R V I
UniRef90_L1LC20 S A G G S I V H P P D V P A M L F T V I C C P H S I S Y R P L V F P C S K V I E V V
UniRef90_Q7VGM5 S A G G S V I Y P Y C R N T L L T P I A P H S L T Q R P L V L S D E F M L E F Y
UniRef90_K9EAV9 S V G G A V L H P P S L E A L Q I T E I A S F R T L S S P I L V L S P A S E V L A V A
UniRef90_H5SRA2 S A G G P I L H P P T M D C L I V T P L A P H R L G V I P L V L P P S A S V L A V A
UniRef90_Q7U406 A A G G P L L H P P G I D A I V V A P I C C P M S L S S R T V V V P P R A R L V W
UniRef90_UPI00046E96A0 S L G G A M V H P P S I E A L Q I A E I A S F R T L M G S P L L L P P K H H H C D I
UniRef90_C7MC96 S A G G P V I W P E V D A M M L I P L A A H A L F A R P I L V L G R S S E A A V E R
UniRef90_A7TN21 S A G G S L V Y P S V N A I A V T P I C C P H T L S F R P I L L P P D S M N L K V R
UniRef90_X1LAJ9 A A G G P I L H P P Q A E E F L T P I L P H L S A A Y T V V L P A T A V V R I R E
UniRef90_B5IEA1 S A G G P I L H P P L N L E G M V L T P I L A P F K K Y P K S F V L P A G V E L K I T
UniRef90_D9V4A8 S A G G P I T S P A V E A L L V T P A A P H S A Y S R G V V L S V H D T V T L R R
UniRef90_O34934 S V A G A V V D P L L P C M Q V S E I A S Y R T L G S P F V L S S D R S K L T A I W
UniRef90_A3YX74 A A G G P I L H P P G I D A I V V V N P I C C P M S L D A L L S R P V V V P P R S Q L A I W
UniRef90_Q74KC7 S L G G A V I H P P R I K A L Q M T E I A S F R T L S S P I V I A P D S W I T A I K
UniRef90_E5Y9B5 S A H G P L V H P P K V Q A L T P I S P F F K S F P I V V P A D S R I R I E
UniRef90_H2N0T2 A A G A S M I H P P N V P A I M I T P I C C P H S L S F R P I V V P A G V E L K I T
UniRef90_H1LE31 S V G G A T I N P L N A I Q V A E I S S F R T L G S P L I I A P D E W I K V V
UniRef90_W8AB29 A L G G A I L H P P S L A S L Q L S E M A S Y R T L G S P L V L S P Q H H T C L K
UniRef90_S1R3V9 S L G G A V L H P P R I N A M Q L T E I A S F R T L G S P I V L S P Q H T E W E L D
UniRef90_W6QH10 A A G G S L S H P P D N P V I L V T P A I C A H T L S F R P I L L P P D T T I V L R M G
UniRef90_UPI0002E653A8 S A G G P V I A P P G C R C L V I S P L A P H N L T M R P V V V P P D S D V A L R
UniRef90_A0A058VCF5 S A N G P I L H P P G M N A M V L V P V A P Q T L S N R P I V V P D D S G V L N M T
UniRef90_UPI00014B4359 A A G G P I V H P P S V D A T I I N S E I A S Y R T L G S F I L S G D R K I T E L M E
UniRef90_I3ECG8 S V N G S V V D P L L P C M Q V S E I A S Y R T L G S F I L S G D R K I T E L M E
UniRef90_G0EMJ2 S A G G P I L A P T I D A I S F V P I A P H S L T F R P I V I P K G D N I E L E
UniRef90_UPI0003773AD2 S L G G A I V H P P S L D A I Q I A E I A S F R T L G S S I L L P K H H H C D I Y
UniRef90_U4LB28 S S G G S I L H P P V S L S L T P I C C P R S L S F R P I L V L P E D A K I T L R E
UniRef90_H1S047 S A G G P I L H P P T S G L V L V P I L A P H A L S N R P I V L P P H D A E V S I K
UniRef90_W8QLU9 A L G G A I I H P P S I R A I Q L A E M A S F R T L I G S P L I L P P D H H T C V I K
UniRef90_W7BXE0 S L G G A I L H P P S I K S M Q L T E M A S Y R T L I G S P I I F P K A H T K V S L K
UniRef90_E3C9J9 S V G G A I M D P N S V G F Q L A E M A S F R T L I G S P I I F G A D T K L S M L R
UniRef90_F2F883 A L G G A I I H P P T L Q A L Q I T E M A S F R T L I G S S L V L P A H H N C V L K
UniRef90_W4WB21 A A G A S M I H P P S V P A I M I T P I C C P H S L S F R P I V V P A G V E L K
UniRef90_C7P3V4 S E D G P L V H P P G V D G L V V T E M A G E E A M P I V V P P D S S E I T V R
UniRef90_K1Y3T5 A A G G S L C H P P E N P V I L V T P A I C A H T L S F R P I L L P P D T T I V L R I G
UniRef90_UPI0002628E0E S A G G P I V S P G L D A L V F T P I A P H M V L E N R S V V L A P Q Q R V I L R
UniRef90_U4TXU3 S L G G A V L H P P R L K A L Q M T E I A S F R T L S S P I V I A P D E Y I T L R
UniRef90_B8E249 S A G G A I I F P E L E V T E V I P I C A H S L S S R P L V L D L N V K F Q R K

UniRef90_E7C2Q3 V R E A N L S I D 210 G R S A L L S D G D V M M A S R S Q T A R L V T S G S F Q Q V 240
UniRef90_U7VAA3 L Q K G C I V D G E T E R E E D E E H V Y S Q E K I N L I E N R D Y Y G I
UniRef90_A9AZY4 L H P T I L S L T D G Q W S L Y E P D D L T I E V T R A K E L C R F A H V Y H F Y Q S
UniRef90_D2Z3D0 S R D I T I L S L Q D G Q L G Y E P G D D R I T D I D I S L A K N K A V W L P G R D Z Y D L
UniRef90_G2WU10 R T N S W A S F D G R E R V E L G D Y V T I S A S R Y P F A S V R S E D W V N S
UniRef90_UPI00031DCCB2 P Q S F I M T D H T K T S V L N V G T A L E C S V A K E R I R F A R F R S F P
UniRef90_UPI000402B4D4 P H D T K L W M D G A T S L W P G Q R V D V S M A N C E A K F I E N Y S S F Y Q T
UniRef90_C5GL69 V P S S W A G F D G R E R M E L G D Y V T I S A S R Y P F A C V T P S
UniRef90_S2JQ12 I L G D T E V S I V D S Q Q E L L H K G D E Y V K V R M S K Y P I P C V
UniRef90_V7HUG8 K E D L M L T V D S K S Y N R D E Q I R Y K I A K E R I R F A K Y R H N H
UniRef90_J3K2Q3 V P S S W A S F D G R E R V E L G D Y V T V S A S R F P
UniRef90_L1JD49 V P S A W C S F D G R N A M S L G T W S V T I T S K W P L P L V V R F S G G E D D
UniRef90_R5BD59 M K E G C L S V D G I Y T S N I L S T V D T I T V S E A E V G F V R F R Q N I Y E L
UniRef90_G0W5U6 V S T A W A S F D G K D R V E L G D F T K I S A S P Y F F P T V E C S N
UniRef90_E7A8P5 S K K C M V F L D G Q Q H M H P G Q R L I L R R A S D T K A T L L Q P R D Y F R V
UniRef90_C2CFU0 I S K R V F L V D G R E Y S A K D Y K I R I N V S D T K I K L L N R N H Y W N N
UniRef90_R7Z797 V P S S W A S F D G R E R V E L G D Y V T V S A S R Y P F P
UniRef90_G9PX20 P R S L M L T Q D G Q L G Y E L G D E L H V E I Y V I Q T I Q L I G R S Y Y D L
UniRef90_UPI000375C914 T H D A L V F L D G R R T L A L G G R V E A V R G A S P I R W I R L D S
UniRef90_UPI000417E9C3 P K D F Q V T V D H L T H V Q K K K S I Q V R V A D E Q V R F A R F R P F P
UniRef90_UPI0003297BB6 L S P A W V S F D G R K R L Q H G D C K I K L T T S C Y P V P S I C C H D L V Y D
UniRef90_UPI00026277FC P K T F L I A V D H T K N Y A D V K S I E C R V S D E K I R F A R F R A F P
UniRef90_N4WA92 P R S F L I T I D H E T T Y D H I K S I E C R V S D E K I R F A R F R A F P
UniRef90_A7C2E8 I D S A Q L G N D G I Q T L E P G D K L S L K
UniRef90_H2MUL6 L S P A W V S F D G R R R I R H G D C I K I T T S C Y P V P S I C C H D L V Y D
UniRef90_Q46HL7 P Q K T K L W L D G S S G I E A E D T C L I K K S N H S T S I I E N H S Y Y K T
UniRef90_A0A015M0K9 I G E V A E V T I D G R I L L K K G E W L E V Q M S P Y P I P C V N R I D E G V D
UniRef90_E6ZP05 I S D A E L T V D G R V I L Q P G E Y L Q V S M S P F P I P C V S R K
UniRef90_E6TX54 P A D F H V T I D H R T L I Q H D V K I Q C R V A E E K V R F A R F R P F P
UniRef90_Q22RP1 L T D G K L S G D G Q K V F D L G E V L Q I E S S D L D V Y V V R K A N N V H E
UniRef90_C1MMX0 V P E P Y A S F D G Q R C L K R G E S V L V V R G W R Y P V P S I C S N G E S V D
UniRef90_D4JU76 F S A V I S L S I D G N D M D F G E I I K I R R S E Q Q L S I I N G S S F Y K A
UniRef90_S0KHR3 L P D Y M L T I D Q F S M E H S E K I V Y K I A E E R L H F A S Y R H T H
UniRef90_E4ZYW4 V P S S W A S F D G R E R V E L G D Y V T I S A S R F P Y P V L P L E R R R T D
UniRef90_D8IFM1 S K K G M V T I D G Y D I Y K F G D T V K A S I S D K N C Y I F Q S A N F Y D I
UniRef90_I0JKK4 P R S F L I T M D H I T R T Y K D K S I Q C R V A T E K V R F A R F R P F P
UniRef90_D8TUE1 R S H A R A S F D G R K R V R R G T S L F F T T S L C P L P V I S L P M D T D
UniRef90_UPI00035C9B80 P V I T G M T I D H L S M V H Q D V K I Q Y R V A D Q R V R F V R F R P F P
UniRef90_UPI000348E352 P Q D L Q V T I D H F T L T S D K Q K S I Q C R V A E E K I R F A R F R P F P
UniRef90_D0U5W7 V R P V D M A I D G R R S L S A D D V V Y A P D T C S A H F L R F S K F H Q I
UniRef90_K9PVJ0 P L I G P Y L W A D G S T S I W P G Q W V N I R K A R C Y C K F I K S Y S F Y R T
UniRef90_A5GP48 P R Q V K L W K D G A E V M A P G E C C V I Q R A P H H A L M V Q L E S Y Y R T
UniRef90_A0A024JGP1 I S D A E L S I D G L R V M G P G D S I F V
UniRef90_R6ALE9 A Q D C V M Y A D G I S T V Q V G T G F T V S G C N K Q V G F I R T K K R F R L
UniRef90_UPI0002629A17 V D N G V L T L D G R R V V I E G R L S P R S I R L V R L T S F A D R
UniRef90_M0M4C1 V P D A V V V G D G R T R I E P P A D L T I G V A D E P M R I A G P P L D F F G
UniRef90_UPI000473E998 P A D F Q I T I D H L T L L H Q N K S I Q C R V A N E K I R F A R F R A F P
UniRef90_V9KHC7 L S P A W V S F D G R S R I K H S D S I T V T T S C Y P V P S I C C Y D L V Y D
UniRef90_Q23D92 V H E A K V V G D G Q F T I Q L N E E I V I T S N F D V L L I N D Q K N E L N
UniRef90_UPI000479E775 P N E L H I A I D H L A V Q M S G T S I T C R V I S D Q K V A F A R Y R P F P
UniRef90_MON8G7 V G D G A V V A D G R N R A E L P A T V T I G V A D E P T R I A G P P L E F F S
UniRef90_M0CTH7 V D D A F V V S D G R A R Q A L P A Q V T T L E R A A R P V R I A G P P D F F A A
UniRef90_UPI0004652B8C X E K I Y V A I D G E N X T M X E Q I A I E K S S Y T S K F I K L P D F X X I
UniRef90_W0J212 S S R L T V T V D G R N S A P S G E S P V D I S T S T R L K L V Q D Y S H F A V
UniRef90_L1LC20 I P V R V R C V D G N Y S V R H G S S I R I T S S H F P L V L P K D T E T T N E
UniRef90_Q7VGM5 A E R A K L I I D G Q E M I D P S D R V Q I Q A L P Q S A M L M Y P R D Y F S V
UniRef90_K9EAV9 P S S I T L M V D Q L V S E E E N A E V K L K I A K E R V S E A R Y D H T H
UniRef90_H5SRA2 R R P A Q V L A D G D P A L S P G M A L E I C K A A R P T R L I R F
UniRef90_Q7U406 P H R T K L W K D G V T V L L E P G E C C V V Q Q A R H H A Q M V Q L N S Y Y R T
UniRef90_UPI00046E96A0 E Q R L M L T V D H T N Y P I D D L I S V R V S E K K V S E A R Y P P F P
UniRef90_C7MC96 M E D G I L T V D G R R G A D I G M R I E A R L S P R S V R L A R Y P P F A D R
UniRef90_A7TN21 V S T A W A A F D G K N K V E L G D Y I S T A A S P Y A F P T V E S S S
UniRef90_X1LAJ9 I H Q A T L S I D G H I N L P L G A V I T V R H S N T G H F L R L H P Y K S S
UniRef90_B5IEA1 L K D G L L V L D G Q Y S V R L K A D L V E I E K S E N Y A E F I R F S N P I K R
UniRef90_D9V4A8 V G R L A V E V D G Q V A V G P G E T I D L H A R P N A A R V V R L T T F Y Q R
UniRef90_O34934 V E R H P I I G L D N E A S T R N V K T I E I K L S N K K I K T V K L K D N S
UniRef90_A3YX74 S R R V K L W K D G A H A L E P G K T C V V Q R S S H C A L M V V L Q S Y Y R T
UniRef90_Q74KC7 P E T G V V T F D G Y E N H K H I K K I E Y R I S Q H V I R F D K Y Q H T H
UniRef90_E5Y9B5 T D D A F L T V D G Q E G P E L G D V I R V Q S L D A G L R V L S C S S Y F Q R
UniRef90_H2N0T2 R N T A W V S F D G R K R Q E L G D S I S T T S C F P V P S I C F R D P V N D
UniRef90_H1LE31 S G Q T I L T C D H Q V S T E P I A S I E Y R I S K R R I A F A Q Y R H T Q
UniRef90_W8AB29 L N V V Q V T I D H F N V P N Y E D T V Q C R V A E E K V R F A R F R P F P
UniRef90_S1R3V9 L T H Y T I T I D Q L A L E R T Q V I V Y K I A K E R I H F A S Y R H T H
UniRef90_W6QH10 V P S S W A G F D G R D R V E L G D Y L T V S A S R Y P
UniRef90_UPI0002E653A8 V R T V T L S L D N T A Y V A D D T E I R V S L S E K R I F L A H N I S F Y D T
UniRef90_A0A058VCF5 M E D G I L T A M G R V E I G A S V H
UniRef90_UPI00014B4359 P V K I K L W R D G A K C M T I K E T C E I K K G N S P C K I I K F K N Y N T
UniRef90_I3ECG8 V E H P T M A M D N E A S I K H V R K I E V K L S D K I K T V K L K D N S
UniRef90_G0EMJ2 L T E A M I T I D G Y D I C G F D D K I A K I S N K N C Y I F Q S A K F Y D I
UniRef90_UPI0003773AD2 P Q N T L L S L D H L Y I Q R N D I V S I R A A G K K V K F A R F R P F P
UniRef90_U4LB28 L R E V E V S V D G R R W L G P G Q E V R V
UniRef90_H1S047 V R D A S V N F D M Q T S L P G D R I V V R R S A K T V N L L H P Y N Y A T
UniRef90_W8QLU9 P V D F Q V T I D H L S L L H K D K S I Q C R V A D E N V R F A R F R P F P
UniRef90_W7BXE0 P R D F Q L S V D H L S V L R R D V E R I I Y E I S E Q E I K F A R F R S F P
UniRef90_E3C9J9 L R D V V M T C D R E Q L R L K N E I S F Q V S Q K R I S F A R Y R H T N
UniRef90_F2F883 P Q Q F N M T V D H I S M T E T D K S L T F N V A N E K V R F A R F R P F P
UniRef90_W4WB21 I E S G V V V S D G R E A V A P P S Q V T V A R A S E S V K I A G P Q R D F F A
UniRef90_C7P3V4 V P S S W A S F D G R E R V E L G D Y V T I S A S R Y P F A T V R S E D W V K S
UniRef90_K1Y3T5 V G E A A V S V D G Q L R L E P G D W I T V Q A A S R R A R L R V R L D D H C R
UniRef90_UPI0002628E0E P E D Y I L T I D S F T H R E P I A A V T F R A A D E A I H F A R Y R H M H
UniRef90_U4TXU3 S T Q V E I W I D G K E I V S N K N E I T S K A D F Y G R L I F L P D F V N R
UniRef90_B8E249

UniRef90_E7C2Q3	L K Q K
UniRef90_U7VAA3	L R D K L K
UniRef90_A9AZY4	L T Q R L R
UniRef90_D2Z3D0	L S K K L
UniRef90_G2WU10	L S G K L
UniRef90_UPI00031DCCB2	F W K R V H
UniRef90_UPI000402B4D4	L R E K L Q
UniRef90_C5GL69	
UniRef90_S2JQ12	
UniRef90_V7HUG8	F W H R V Q
UniRef90_J3K2Q3	
UniRef90_L1JD49	W F N
UniRef90_R5BD59	L R Q R L
UniRef90_G0W5U6	
UniRef90_E7A8P5	L R E K
UniRef90_C2CFU0	L K N K L
UniRef90_R7Z797	
UniRef90_G9PX20	L R E K L R
UniRef90_UPI000375C914	
UniRef90_UPI000417E9C3	F W K R V K
UniRef90_UPI0003297BB6	W F E S L
UniRef90_UPI00026277FC	F W D R V R
UniRef90_N4WA92	F W K R V H
UniRef90_A7C2E8	
UniRef90_H2MUL6	W F E S L
UniRef90_Q46HL7	L T Q K L H
UniRef90_A0A015M0K9	W
UniRef90_E6ZP05	
UniRef90_E6TX54	F W K R V K
UniRef90_Q22RP1	W M V K L K K M
UniRef90_C1MMX0	W F R A V K
UniRef90_D4JU76	V H N K L
UniRef90_S0KHR3	F W R R V R
UniRef90_E4ZYW4	W I D S I R T L
UniRef90_D8IFM1	L R N K L
UniRef90_I0JKK4	F W R R V H
UniRef90_D8TUE1	W Y E K L K
UniRef90_UPI00035C9B80	F W K R V R
UniRef90_UPI000348E352	F W K R V K
UniRef90_D0U5W7	V R A K
UniRef90_K9PVJ0	I R E K L Q
UniRef90_A5GP48	L S R K L H
UniRef90_A0A024JGP1	
UniRef90_R6ALE9	I R E R L
UniRef90_UPI0002629A17	L V E K F Q
UniRef90_M0M4C1	A L D K L
UniRef90_UPI000473E998	F W Q R V R
UniRef90_V9KHC7	W F E G L
UniRef90_Q23D92	L Q Q K L K K M
UniRef90_UPI000479E775	F W N R V R
UniRef90_M0N8G7	A L D K L
UniRef90_M0CTH7	L
UniRef90_UPI0004652B8C	V R E K
UniRef90_W0J2I2	V R T K L
UniRef90_L1LC20	W C R S L K
UniRef90_Q7VGM5	L K E K F K
UniRef90_K9EAV9	F W D R V E N
UniRef90_H5SRA2	
UniRef90_Q7U406	V A S K L H
UniRef90_UPI00046E96A0	F W K R V R S
UniRef90_C7MC96	L V E K F Q
UniRef90_A7TN21	
UniRef90_X1LAJ9	L E Q K L K
UniRef90_B5IEA1	I R E R L
UniRef90_D9V4A8	A R R K L R
UniRef90_O34934	F W E K V K
UniRef90_A3YX74	L S H K L H
UniRef90_Q74KC7	F W N R V
UniRef90_E5Y9B5	L R E R
UniRef90_H2N0T2	W F E S L
UniRef90_H1LE31	F W R R V S N
UniRef90_W8AB29	F W K R V K
UniRef90_S1R3V9	F W R R V R
UniRef90_W6QH10	
UniRef90_UPI0002E653A8	L R D K M
UniRef90_A0A058VCF5	
UniRef90_UPI00014B4359	L I K K L
UniRef90_I3ECG8	F W E K V K
UniRef90_G0EMJ2	L R N K L
UniRef90_UPI0003773AD2	F W S R V R
UniRef90_U4LB28	
UniRef90_H1S047	L R K K L H
UniRef90_W8QLU9	F W K R V Q
UniRef90_W7BXE0	F W K R V H
UniRef90_E3C9J9	F W N R V K
UniRef90_F2F883	F W E R V H
UniRef90_W4WB21	
UniRef90_C7P3V4	A L G K L
UniRef90_K1Y3T5	I S G K L
UniRef90_UPI0002628E0E	V R D R
UniRef90_U4TXU3	F W D R V
UniRef90_B8E249	L K K K L H

UniRef90_X0SSP7 1 MKVITVTSRGGDDVSNLTKRQITIEQYLDFGLYINE 30 40
UniRef90_S2ZPE1 MKVLLVLPNYSREVAMLEEWLIGEQGCDVVKLFQKQVLDLSSGC
UniRef90_UPI000378629F MRYYLVDLRGDDQLSITIELSERFHKLLAAKYGFEELDAESPP
UniRef90_H8LBH3 MKVAIVLHNKEAKTIEVTERLNAALLEQAAGLQRDDHE
UniRef90_UPI000368DB54 KAGGIIYNDSKP SASMVEWLETKGWKVVHTATGTSGLLTDM
UniRef90_UPI00047564FF MKAALLYPNFQKRAREACDVLAEAGLEVAVSEDFRSDTADA
UniRef90_UPI0001C37976 MHIIGVVJAKRDPRAVIELAGRI RRRDATTVTLDLTAELAAAC
UniRef90_M1XPR0 EDELFISKIKNNLS SFT EEMS DYIMYNQIKIDR
UniRef90_R5FRQ2
UniRef90_UPI0003F082AF KVAIVSKAEKAAKGI A E K L L K Q K F K V Y T L S P V S E D L R K L I
UniRef90_K9VAD8 L H E I N R I D C D A V A V S A E E M V D R A
UniRef90_B3T991 A A S V R G Y L E N A G I T V V D R T S T E P I
UniRef90_U5WA90
UniRef90_D6ZHV2
UniRef90_S7ZX41
UniRef90_UPI0002889D36 MKFAVQSRNDPQSNE LME RAISYLTDFGMEVDEEK P
UniRef90_W0GXB2 R V W V I Y R A D S E A R Q C A K E L K A L G S H V V T A G L L A V E E S F P
UniRef90_F6PFT1 E H F G A V K K K F C T F R E D Y D D I S N I
UniRef90_V6LL38 K N I L A Q L K S L H L T V Y T D P H D A E I F Q M V
UniRef90_UPI000382E551 MK I G I I S K I T S E A V I T L A Q E L I N K L I D K G V E I Y L E E E L D N L
UniRef90_UPI00036430E5 I C I V T K A S H T A Q E L L E W F A A R N V R G V I C E N S T P E A V I Q C
UniRef90_Q83IC3 N T D S G V V S L H D E I N R I D C D A V A V S A E E M V D R A
UniRef90_R9T7S0 MK L G L T A N S E R V G R R V Y N L K D E D V L E L F G K E G K P I E D I
UniRef90_C9XNE4 MK R I I T I N T N Q L N K S L E E L L T R K L I N A G F E V I Y S D I L Y P D T
UniRef90_A2EED9 T D Q H G N I
UniRef90_UPI00035E8565 I N I I Y R A D R L R K E I S S H L A K R G C T V D S A S S D P V D L S G Y
UniRef90_A6TSZ5 I N I I Y N D S K F S V D T A T Y L K K R L I S L N Y H V S D T F D Y T A
UniRef90_C7YTT3 A R E M L H K R L R Y W D E H M C R T R P H T F
UniRef90_L0P8X8 I D L S G K P K E K R I E E I L R N W E A E K N F N S L E N K V K D F
UniRef90_R5TCF7 MK I G I F P N M G K E A L K L I S I L L Q A K H I E Y Y V A E Y A R G G F E S R
UniRef90_S3BNX9 P H T F
UniRef90_L9X106 I A I V S D S D D V V A R L A A W A D D R G I G L S T V D V G E S I D E V Y
UniRef90_R3W5H1 MK V A I V Q N H E E K S Q V V A Q K L R E M L K K A N I I K I D D Q R P
UniRef90_UPI0003B33A7E K I D D Q R P S D C
UniRef90_S2JH04
UniRef90_K8ZMR1 MK V W I T I H N D Q E K S L Y C T K K L Q E K L A R T E L I L D Q E H P
UniRef90_B9DIP5 M R Y N I V S K G D H K S N S I K E N M E A Q M Q D T K M I K D T E T P
UniRef90_B2GB65 MK I A V Y T Y R S T E S M R V R Q A I L D G I Q G T P L E Y D E D H P
UniRef90_A6QYT8 E E A S A K G R L K Y W D W L V K K K P Q T F
UniRef90_UPI000478B853 I N I I H N Q N D D S R K T A K R L R E K L L N K G F K T T D Y F D E A
UniRef90_C5RBB5 MK I A V Y S N N V P H S R A V V S L K E K L I A R S E G R V I F D N E N P
UniRef90_W2E4E7 M K Y A L V Q R H D Q V S A A L A D K F R V L A R Q Y G M E K D E K N P
UniRef90_X0Y3J5
UniRef90_F3KM90 K V A V V S K S E D A A K K I A K K F L A K K S I V Y T I S P I E V E G E K L
UniRef90_G1XDM1 K T
UniRef90_Q03YD3 MK I A I F N N H A E H S V I I A K K L I L A M K K N N V D I D D R N P
UniRef90_UPI0003686ABA M N Y F V R S R G D E T S D A L C Q R I R N Y L T E F G L T E S E E E P
UniRef90_E3PT54 K I I I T Y N S Y D R S I R T A K I L R T K L A S A G F E V L E K P D P E A
UniRef90_M3K2Y3 E E S Q E V E K L L D K S M T H V V Y T G Q N E D I V D K T
UniRef90_A8PWE3
UniRef90_UPI000478E6CF I Y I V Y N E S K F S I D T A S Y V K R K F E E L G Y H V C E D F D Y N A
UniRef90_D6SR76 A Q E I M A W M E K R N C S S C M A A F P Y E D M E D P
UniRef90_Q72AV2 D L A Q D I G V W L T R R G V S C R I L E G P G E A L A D A
UniRef90_W7BA80 M K Y V I T S K G D E K S N L L K L S M I A E F G A Y E D M I Y D E A P
UniRef90_T0CLP2 M K R T I T V N S N S V S I K T R K I L T A K L I E A G F H V T Y S F D P N S
UniRef90_J9VRG6
UniRef90_V6KGH1
UniRef90_G8SC44
UniRef90_R6CWC0 M K Y K L F S N N N E K S L K I T E L A H N K L T E N G F V Y K D S S A E E M V E R A
UniRef90_D7GEC3 E M R R R L P D V R I A A L S N D S Q V N Y
UniRef90_X1Y9P5 K R F T K L Q D K L I T F K D G R D D L D K I
UniRef90_Q6IDH2 A R F L D L R E K L V T F K D G R D D L T D R I
UniRef90_Q03AS0 M R V T V F H N S I P A S I T A A Q K L T K L L K S G H F E L D E R H P
UniRef90_Q0RK76 E E L A E R S
UniRef90_X1T778 R V V I I V N L L K E V R E A K T Y L E E R G V E V A I F N F S P E I L P G T
UniRef90_UPI00021A7EBD
UniRef90_UPI0002196089 MK V A L Y H N D Q Q R S L K I V K E L K K E L A Q Q G I E R D D V H P
UniRef90_F7Z392 V Y D E A Q P
UniRef90_H3ZJP1 MK F G I A A R R D R E A Y R V Y D F L K V S G Y E V Y V D E E A H E N F P D V
UniRef90_C7MP17 M R I L I M R N A E S A S L M L G A Y L S S Q D I E F T L A D A A D P I A S S F
UniRef90_R5Y4V1 I T I N S N E L P K S V I T K D I L T D K L Q K A G F T V C D E I H P E T
UniRef90_UPI00034C7FE5 K I A I V S N Y K Q H S Q E L G Q E L M Q K L R Q E G F L T L K N P
UniRef90_S9VP70 E L H E D R I G Y W T P F I C L V K P T K F
UniRef90_W5S9D6 K V L I Y V N A E V L A C E I Q K Y L E H K Y G V L S L F N K S S E V L T E D
UniRef90_XOQLM8 M K I A I H N N N K A K S L K A V R Y L R A E L T K A N F S F D Q N H P
UniRef90_L0E915 M R Y V V I D R G D H S K Q L S E R F H T L A A Q G F T P D E H Q P
UniRef90_A0A024PJ20 Y F F Y Q Q T E E L N D K L E S L F Q L A R D N D F Q V V E D S N K A
UniRef90_B0C2T6 K A G I I Y N E L K I A T E L K D K L H A C G W Q V C L A T G P T G F D Q D V
UniRef90_X0UPL8
UniRef90_G4RL01 A D L A D A A R K L K S L L N A S E L D C S N K P
UniRef90_F1T460 K V A I V P N Y S R D A S R L T E F L E K Q S I E V V W A P D K K K N V D N T
UniRef90_Q9RJS6 E E V D A A G D P
UniRef90_A3GHN0 V N V I V N E D V A D E L V H E F L D K S T K H I L Y T G K F G D I V D K T
UniRef90_H3NN15 K V N I F S N R Y N L T E D I K K I V I N E L K K H D F V I N E E Y D E T A
UniRef90_UPI00034F3A33 F R E D Y D D I S N Q I
UniRef90_F4G2N9 A E E V G E K V K D K A E R V L S S Y N V K V R E E G Y
UniRef90_I7CTE3 V G I V A Q R D N E A A S L V D A L E R E G A S V V V D D A P V A A M A S R
UniRef90_R5N778
UniRef90_UPI000367F695 K L Y F Y Y K K N E E L I Q L F E Y V E N Q G F Q I V E E S K E A
UniRef90_E3JS73
UniRef90_A1RXJ9 E H A R L L Y R Y L T D R G L D V Y V D S L S E L E A R E A
UniRef90_UPI000362A20C M K Y A L L D R G D R L S R Q L A E Q F H T L A R A R G L I H D E S A P

	50	60	70	80
UniRef90_X0SSP7	D L V I T V	G G D G T L L	Q A F H D Y S H R L	A F V G I H T G H L
UniRef90_S2ZPE1	E L V I S L	G G D G T L L	R A A R T V G Y S I	P L M G I S Y T G H L
UniRef90_UPI000378629F	E I V V S I	G G D G T M L	H A F H T F Y D H I	P F V G I H T G H L
UniRef90_H8LBH3	E L V I S V	G G D G T L L	S A F H H Y S H C L	N F F L G V H T T G H L
UniRef90_UPI000368DB54	D L V V T L	G G D G T F L	R G A R A V K S G A	D V L G V D T L G K V
UniRef90_UPI00047564FF	D F A I V L	G G D G T V L	A A A R Q L A P H I	P L L A V N T G T H L
UniRef90_UPI0001C37976	D V V L A I	G G D G T L L	R C A K L L G K D T	K L L G I N T G T H L
UniRef90_M1XPR0	D L V V S I	G G D G T F L	F A A R E V S P T P	L M G V N L G E V G
UniRef90_R5FRQ2	D F A L V L	G G D G T L L	N K L H K Y S N D F	P Y F G F G R V L
UniRef90_UPI0003F082AF	D L I I F I	G G D G T L L	Y A S S L F Q E V P	V M A F H L G S L
UniRef90_K9VAD8	D L A V V L	G G D G T A L	A A A R N L A D G I	P I L L A A N V G G H
UniRef90_B3T991	D L V I T L	G G D G T T L	R T F R N L E N E T	P L L T G I N I G G R
UniRef90_U5WA90	G L L V S L	G G D G T M L	R T M R L V G R K T	P V L G V N V G R L
UniRef90_D6ZHV2	E L I I V L	G G D G T I L	E A A N I A H R Q V	P V L G V N L G T H
UniRef90_S7ZX41	S L T V T F	G G D G T I L	H A A F L F Y S T V	P P L L S F S L G T
UniRef90_UPI0002889D36	D I V L S I	G G D G T L L	H A A F H R Y T H E	V A F V G I H T T G
UniRef90_W0GXB2	D L A L V L	G G D G T V L	G A A R H L A H D I	P I L S I N L G F L
UniRef90_F6PFT1	D F I I C L	G G D G T L L	Y A S S L F Q S V P	P I M A F H L G S L
UniRef90_V6LL38	D L A I V I	G G D G S V L	H A S S K F N F K P	P I A A V N G S L
UniRef90_UPI000382E551	D Y L I W I	G G D G T L L	K F T N N I A N E T	K I L G I K L G K V
UniRef90_UPI00036430E5	D L V L V L	G G D G T L L	S V A R H L G R E T	P L V G V N M G K V
UniRef90_Q83IC3	P F C I S I	G G D G T F L	R M A R D L K N G T	P L F G V N M G R M
UniRef90_R9T7S0	D V C I T V	G G D G T I L	R S L Q R T E S E	P I F G I N A G V L
UniRef90_C9XNE4	E L I I S L	G G D G S F L	R T V R D F N E P E	I I M G L F A T G H
UniRef90_UPI0003A2EED9	D F I I L F	G G D G T L L	H A S Y L F N E C P	P I L S F A G S L
UniRef90_UPI00035E8565	D L V L S L	G G D G T F I	S A A R K V E H G V	P V L G I N L G K V
UniRef90_A6TSZ5	E L T I C L	G G D G S F L	K V L H D Y G P D I	P I I S F A S L R L
UniRef90_C7YTT3	D F V I S L	G G D G T V L	Y A S W L F Q R V P	P V L S F A S L R L
UniRef90_L0P8X8	D C I I S F	G G D G T V L	F S S W L F Q R V P	P V I S F S L G S L
UniRef90_R5TCF7	D I L L S T	G G D G S Y L	E A A K A F S D Y S	V I L G S H L G S L
UniRef90_S3BNX9	D F V I T L	G G D G T V L	Y A S W L F Q R V P	P V L S F S L G S L
UniRef90_L9X106	D L G V T I	G G D G T F L	E G T K T F A R G V	P Q L G V N T G T L
UniRef90_R3W5H1	E L V I S I	G G D G T L L	S A F H R F N H R L	D F L G V H T G H L
UniRef90_UPI0003B33A7E	D V C I V L	G G D G T I L	K G L R R I W T G V	P V Y A V N L G E I
UniRef90_S2JH04	D V V I T V	G G D G T L L	G A F H K Y E D Q L	D H V G V H T G H L
UniRef90_K8ZMR1	E I V I S I	G G D G T L L	E A F H Q Y E S Y R	L A F V G V H T T G
UniRef90_B9DIP5	D L V I T I	G G D G T L L	S A F H R Y Q D Q V	R F V G I H T T G H
UniRef90_B2GB65	D F I L V T	G G D G T V L	Y A S W L F Q R V P	P V L S F A L G S L
UniRef90_A6QYT8	F L N I C I	G G D G A F L	R A I H R F N F S V	P F I G I N T G H L
UniRef90_UPI000478B853	E V V I T V	G G D G T L L	G A F H H Y T D Q L	D F I G V H T G H L
UniRef90_C5RBB5	D V V L S I	G G D G T M L	Q A F H Q Y T D H I	A F V G V H T G R L
UniRef90_W2E4E7	D V V L S I	G G D G T M L	Q A F H Q Y T D H I	A F V G V H T G R L
UniRef90_X0Y3J5	D L V V T L	G G D G T T L	R V F R Y L E N E T	P I L T I N V G G N
UniRef90_F3KM90	S L T V T F	G G D G T I L	H A A S L F S T V P	P L L S F S L G T L
UniRef90_G1XDM1	D I V V S V	G G D G T L L	G A F Q K Y V D Q V	R F V G L H T T G H
UniRef90_Q03YD3	E I V I S V	G G D G T L L	H A F H G Y L H R L	E F V G I H T T G H
UniRef90_UPI0003686ABA	E L F I A I	G G D G S F L	K T L H D Y D P E V	P I L G I N T G H L
UniRef90_E3PT54	E L M V T L	G G D G T I L	H A I S I F S N V I	V P V L S F A M G
UniRef90_M3K2Y3	E L M V T L	G G D G T I L	H A I S I F S N V I	V P V L S F A M G
UniRef90_A8PWE3	E L I V C I	G G D G S L L	R T L H N H Q P E I	P I L V G I N T G H
UniRef90_UPI000478E6CF	D L I L V L	G G D G T M L	S V V R R L D W Q V	P F L G I N L G K V
UniRef90_D6SR76	G L V L V L	G G D G T M L	G V A R R L A G G V	P L L G I N L G R V
UniRef90_Q72AV2	E I V I S I	G G D G T L L	A A F H E Y Q E R L	A F V G I H T T G H
UniRef90_W7BA80	E I V I S I	G G D G T L L	A A F H E Y Q E R L	A F V G I H T T G H
UniRef90_T0CLP2	E L I I S I	G G D G S F L	K T V H D F D P E I	P I L G I N T G H L
UniRef90_J9VRG6	D L V V T L	G G D G T F L	R G A R I A V N C A	T V L G V D L G R K
UniRef90_V6KGH1	G L L V S L	G G D G T M L	R S M R L V G R K T	P V L G V N V G R L
UniRef90_G8SC44	D L A I A I	G G D G S F I	R M V N H F S S D T	L Y V G V N A G T L
UniRef90_R6CWC0	E L M V V F	G G D G T I L	R S A W A L P H R V	P L L G V H L G V G
UniRef90_D7GEC3	D F I I C L	G G D G T L L	Y A S W L F Q K V P	P V M A F H L G S L
UniRef90_X1Y9P5	D F I I C L	G G D G T L L	Y A S Q L F Q S V P	P V M A F Y L G S L
UniRef90_Q6IDH2	E V V V T I	G G D G T L L	S A F H R Y A D Q I	R F I G V H T T G H
UniRef90_Q03AS0	D L L V S I	G G D G T M L	R A M R L A D R R T	P V L G V N L G R L
UniRef90_Q0RK76	D L L V S I	G G D G T M L	R A M R L A D R R T	P V L G V N L G R L
UniRef90_X1T778	D M A I T L	G G D G T L L	F C A R L A G E N I	P I L A V N L G D F
UniRef90_UPI00021A7EBD	D L V I T V	G G D G T L L	G A F H E Y N P D L	R F V G V H T T G H
UniRef90_UPI0002196089	D L V I S V	G G D G T L L	Y A F H R Y S D R T	A F V G V H T T G H
UniRef90_F7Z392	D M M I V I	G G D G T V L	R V E H K T T R D I	P I L A I N M G T L
UniRef90_H3ZJP1	D M A V A L	G G D G T L L	R T A K M I R Y S V	P I L G I N Y G H L
UniRef90_C7MP17	E L I I S I	G G D G S F L	Q T V H D F E P E V	P I L G I N T G H L
UniRef90_R5Y4V1	D L V I S V	G G D G M L L	S A F H R F E R Q L	D F I G V H T T G H
UniRef90_UPI00034C7FE5	D M V I T I	G G D N T V L	T S W L F Q H C P	P V L T F S D S D I
UniRef90_S9VP70	D L I I T L	G G D G T V L	L A S S L L D I D I	P I I S I N L G K V
UniRef90_W5S9D6	D M V I T V	G G D G T L L	S A F H R Y Y D Q L	D F V G V H T T G H
UniRef90_XOQLM8	D I V I S I	G G D G T L L	E A F H K Y V D Q S	F I G V H T T G H L
UniRef90_L0E915	N I I I A V	G G D G T F L	Q A V R K T Q D C L	Y V G I R A G N E A
UniRef90_A0A024PJ20	K F A I I L	G G D G T V L	S A C R Q L A P C V	P M L T V N T G H
UniRef90_B0C2T6	E K V V V L	G G D G T L L	E T H R Y P C V L	D S L V F H I G R I
UniRef90_X0UPL8	D L V I S L	G G D G T F L	R A A K I T G R E I	P I L G L S Y G H L
UniRef90_G4RL01	D L V V T L	G G D G T L L	R A G A R I A N D A	L I L G V D L G R V
UniRef90_F1T460	D L V V T L	G G D G T I L	R A V S T F S N V T	V P V L D F K K A S
UniRef90_Q9RJS6	D F N I V I	G G D G T F I	K A L H D S N F S I	P F V G I N T G H L
UniRef90_A3GHN0	D F I I C L	G G D G T L L	Y A S S L F Q S V P	P V M A F H L G S L
UniRef90_H3NN15	D A I M I I	G T D S Y L L	H I L Q N M R T E A	P I F H V S P P S Y
UniRef90_UPI00034F3A33	D L V V S I	G G D G T L L	F V A R E V G S T P	I L G I N L G E V G
UniRef90_F4G2N9	N I I I S V	G G D G E F L	Q A V R H T Q D C L	Y V G I T Q A D E S
UniRef90_I7CTE3	D L G I V V	G G D G T L L	R T V Q K S N A V P	P I L G F S S D S L
UniRef90_R5N778	D I V L S I	G G D G T L L	Q A F H R F R D N V	A F V G V H T T G H
UniRef90_UPI000367F695	D L G I V V	G G D G T L L	R T V Q K S N A V P	P I L G F S S D S L
UniRef90_E3JS73	D I V L S I	G G D G T L L	Q A F H R F R D N V	A F V G V H T T G H
UniRef90_A1RXJ9	D L G I V V	G G D G T L L	R T V Q K S N A V P	P I L G F S S D S L
UniRef90_UPI000362A20C	D I V L S I	G G D G T L L	Q A F H R F R D N V	A F V G V H T T G H

UniRef90_X0SSP7 P E E V E K L V T H L A K T P Y H V V E V M Q T A E E K E Y R H L A L N E C T
UniRef90_S2ZPE1 P D E M L E A S R R A T L E I E S V Y E A P D G S L H T E K S F A L N D F A V S
UniRef90_UPI000378629F A D E L E E L V K F M A G T E S S D S M E H H I T T K S G T S H Y T A L N E F T L
UniRef90_H8LBH3 D Y E L E E L V D S L R T N R E Q V R L S Y L D E T P D Q H F L A L N E S T I K
UniRef90_UPI000368DB54 P E E M E A L L R Y G R G P A L P P P Q V R P E T T E G G G W G C L N D V V L E
UniRef90_UPI00047564FF L P L L F K A T E A V L S D D Y E L D E R T M I A V Q V W W E A L A L N E L V L H
UniRef90_UPI0001C37976 S D Q L D K L K K L K T G D Y E V S E R M T L D V V C H T P E G D L E R T A L N
UniRef90_M1XPR0 P G D C V G S V R S A V D R L R G G E A T F Q E L P Q I Q A A G D G W E I L G P
UniRef90_R5FRQ2 I S N Y R D K I Q C I L N R S T I E Y V V K V N E D E T Y T G L S F N E V S V E D
UniRef90_UPI0003F082AF F A N F R D S V T N V L E C I L N L V R K E N I L P P Q I I C R R Q V L N E V V I D
UniRef90_K9VAD8 F E D F Q K T E E I W D R L A E D R Y R M M L Q A T V F E G N R T L N E M C V K N
UniRef90_B3T991 F L D E I D N A I Q H L R K N K I W L D R R I R C N N K Q F Q P A L N E I Y V N
UniRef90_U5WA90 L P D A L S S I D E H K F T I E S R T A V R T V L P G G E V S A F N D I A V L
UniRef90_D6ZHV2 E E E L G E L C E R V V R G E Y Q V E R R M C I D V E V R H P W A N D I A V L
UniRef90_S7ZX41 F T D Y K A A V A V S N Q A R V M R S R I K M Q V F D G N W S M N E V N I H
UniRef90_UPI0002889D36 P S E I K L V I S I A K F R V I E Y P L L E V T I N Y Q Y L A L N E S T V K
UniRef90_W0GXB2 R G D Q I W Q R L Q D D Q F A I E R R M M L Q G M V D R R H H W A F N D F Y L Y
UniRef90_F6PFT1 F E N F Q Q V T Q V I E G N A A I V L R S R L K V K H M V N Y Q V L N E V V I D
UniRef90_V6LL38 G A D N L I Q K L L T G P L N L V R R R R L V V R H K Q H Q F L S L N E I Y I H
UniRef90_UPI000382E551 P N Q I D T V L N N L F K E K F K I E S L L E V V V G N K Y A L N E V L F C
UniRef90_UPI00036430E5 S D A W E E R L Q A I L D G E V E F C T V T R G D E L V F S G V A A N D F V I N E
UniRef90_Q83IC3 P E D I V N L V E N I L D G E Y T E K V Q R G G K I H D E W A V N E I T I E
UniRef90_R9T7S0 E N E I E Y G L K R L L E G N Y M I D K L K A E V N G E R M Y D A M N E A V V H
UniRef90_C9XNE4 P D K L D S F I E A Y T K G D Y L I Q E M S L L N A E V Y T T T S G S N M V I
UniRef90_A2EED9 M E E Y K D A I D D L I R K G V L Y I N R T R L F G E L K N S E D Q I N D I V I M
UniRef90_UPI00035E8565 P D C W M E V L D P T L R T L A L Q Y E I T R N G E S V H K G L A S N D L V V S
UniRef90_A6TSZ5 P D Q Q I D E F L D Q Y V A Q E Y N P I E A I C T R N S C I E A M G L N E I V I
UniRef90_C7YTT3 R S Q P R K R P E L E D G V G E E D E E L H R H R P D G T F E I L N E V V V D
UniRef90_L0P8X8 F S M F D N T L D N I F N H G V I V S L R M R F K C T T M R F L I L N D L V V D
UniRef90_R5TCF7 Q S D V I E R L D Q I L S Q K Y V L E D R M F L S S C I L H P D V L N D I V I G
UniRef90_S3BNX9 F D D Y Q A T L T R A F A G Q V T V S L R L R F E A T L M R S Q T V D D E H T H
UniRef90_L9X106 P E D L E A A L D E V I H G R A T I D S R Q Q V A V R G S E A T G I N D V M I E
UniRef90_R3W5H1 D F E L E E L V D S V S Y P L L D V R I T F L D G K P D K H F L A L N E S T I K
UniRef90_UPI0003B33A7E P E D Q E A G L R A F A G D F E V P A L E I T L P D G A S Y S A I N D V S V N
UniRef90_S2JH04 E Q E S K R D K G I D L T D E K V M C Y S T V P S Q T Y H V L N E I V V D
UniRef90_K8ZMR1 D Y E L D E L V I E L C D K E S V S Y P L L E V T V H C R K H E P R T F V A T
UniRef90_B9DIP5 P H E S D K L I R E L I D G D Y E V I K Y P L I D I T V N Y H H I A L N E A T M
UniRef90_B2GB65 N Y E V I Q E L L K Q S V A Y P L L D M E A T M S D G R V K H I V A L N E S T L
UniRef90_A6QYT8 F E C Y Q S T L E T A F R D G K V T V S L R L R F E C T L M M F Q I L N D V V V D
UniRef90_UPI000478B853 P N L D N F I D K L S E G Y S I E K L Y L C T R T S C I E L L G I N E I V V
UniRef90_C5RBB5 Y F E L D E L V E S L V N Q E T T A K H A K I H Y T D G H E E N I L A L N E A A
UniRef90_W2E4E7 P D Q L E H L A Q L I H S D S V R Q E Q R V V S Y P L L D I E I K T E E G T F T
UniRef90_X0Y3J5 I D E A I E R I E K D K F F L D K R T R V V A S C G G K E F P P A L N E I Y I C
UniRef90_F3KM90 F S D Y K T A R R S R I H M E A F S G S T Q L L G D L W P P D W A M N E V N I H
UniRef90_G1XDM1 S T E L D Q F V D S L I H D N G Q K V T V V R T S G E S Y K F L A L N E A V I K
UniRef90_Q03YD3 P E E V E R L V I H I A K T P F Q V V E R H L D A E E P D R Y L A L N E C T V K
UniRef90_UPI0003686ABA P P Q I D N F L D A Y I N K R Y H P I E A L I C T R T S C V I E L Q A I N E F V V
UniRef90_E3PT54 F K E V Y E G R S K A L H R N R L E C H V I R K H E Q N Q M V H A M N D V T I H
UniRef90_M3K2Y3 F K E V Y E G R S K A L H R N R L E C H V I R K H E Q N Q M V H A M N D V T I H
UniRef90_A8PWE3 P D E I D N F L E K Y I N G E Y F I E D V V I C T R T D C I N T F A V N E I V I
UniRef90_UPI000478E6CF P L T W K E Q L S M V L E R S G G R I S R R M L L E Y S I F R G G R K R D T V V S
UniRef90_D6SR76 A G E W L A A P L R V E R L A L R F G V E R G G V E I F Q G D A V N D V V I N
UniRef90_Q72AV2 P H E A E Q L V S K I A K K F E R V S Y P L L K T T I Y N D T M Y K K D E Y L A
UniRef90_W7BA80 P D F I D R F I D D Y K N N F L L Q Q A T V C T M G S C V N D M Y A V N D V V I
UniRef90_T0CLP2 A D D V T Q A I E A V H Q G H A V S V E E R M T L T M R A S R V V A L N D I V L E
UniRef90_J9VRG6 L P D L K D A I D D H S F R V N E S R T A V R T V L P D G R R V T A F N D I A L V
UniRef90_V6KGH1 I E E L D D F I K T Y K V D N I G I Q E T S I Y T K D G K Y D Y N S L N E V V I
UniRef90_G8SC44 A S Q I Q D E L I A Q V A D R D Y E I E K R L T D G R T V W E S F A V N E V S T E
UniRef90_R6CWC0 F D N F Q D Q V T N V L E G H A A L T R S R L R C D P S N N I L V L N E V V I D
UniRef90_D7GEC3 C D N F Q E Q V T N V L E G H A A T L R S R L R C S I H R K G E R R K E S L L H
UniRef90_X1Y9P5 D F E I D L V I Q S V S Y P L L D V Q A T Y A D A T S A H Y L A L N E S T L K
UniRef90_Q6IDH2 V P D L A A A L T A I S D R D E Y A V E P R L A V D A R I G A T T V S A F V V R
UniRef90_Q03AS0 R S E W I E A L E K Y L R R I M F E S S V E R G G R S I A C F R G L N D A V I C
UniRef90_Q0RKT76 F N N F R E Q V T N V L E G H A A L T R S R L R C I T R K E E V L N E V V V D
UniRef90_X1T778 G G E V K E V K D S G E R V S Y P L L K M T T T Q A D G R Q T E Y L A L N E A T
UniRef90_UPI00021A7EBD P D E I E L V D A I A H K T Y T M I A Y E H G G H E T R Y L A L N E S T V K
UniRef90_UPI0002196089 P A E T F F A I S R V L E G D Y I D E R M F V E G F N N I P D A L N D V V V L
UniRef90_F7Z392 R T N L R I F V Q C E G D D D D Q Y E S M C D D F A I S R C L F A L N E A A L T
UniRef90_H3ZJP1 P S D I D H F I E S Y L V G D Y I V Q Q S T V C T K S N C N D V F S I N E V V V
UniRef90_R5Y4V1 S F E L D E L V E N L K M Y P L L G V R V A L E N G D V Y H M K A L N E S T F K
UniRef90_UPI00034C7FE5 V I T E Y K E H I H H M L S S V S L R F S S R L E C S Y H K Y D L N E V Q V S
UniRef90_S9VP70 P K D F K E V I D K F F N S S L F I H K K Y L N G N M F T K Y A L N D V I R
UniRef90_W5S9D6 D Y E L K E L V R T V A Y P L L D L T I T Y M D S Q K P D H F L C L N E A T I K
UniRef90_XOQLM8 A H E L D T L V M K M A E D K P Q Y V R Y P L I E V V S N T P D G S D R Y L A L
UniRef90_L0E915 H D E M I D A M K N S E I E V R R F P L I E T T I N N E S T F S S L N E C S I V R
UniRef90_AOA024PJ20 V N Q L D E V L D L L Q D Q T L T V E Q V I T D G K V L W E A L S L N E M L L H
UniRef90_B0C2T6 P D D V E A A L E N M L M G D Y G V E C I K V A T D D T Y P D A L N E I L I S
UniRef90_X0UPL8 V G E M S F E I A K R I A A E N Y N I D F S L I N T K K C F A L N E I L I R
UniRef90_G4RL01 P D E L Q T M V Q R A L G A G E L H V I S R R E R G Q E I E L H N F A L N D F S L S
UniRef90_F1T460 P A E M E A L L R Y G R G P L L P P P R V R T D C E S G D E W G L N D V V L E
UniRef90_Q9RJS6 Y E S R A K A L H R N R L E C H V L D H Y K H Q G Q V A T M V H A M N D I S L H
UniRef90_A3GHN0 H T D V L D A L E K I R N K D F I E I D L R V T D C N D K H I F K S I N E L V L
UniRef90_H3NN15 P R S K K M A E H N G L S E N G L P G P S L E G G K Q A L Q Y Q V L N E V V I D
UniRef90_UPI00034F3A33 D W E E L D L G V R K I S R G E Y H H F T R L K V A L D R E I Y S L N E V A I F
UniRef90_F4G2N9 P D D E L D E T G T V A E R E L A R L R A T G V E A D W T Y P A L N E I V V H
UniRef90_I7CTE3 I D Q Y D E M M K N D S I E V R R F P I I D V T I N G Q S T F H C L N E A A I R
UniRef90_R5N778 V D V A R E V L E E V L R G N Y S E R D V A L G E F I A G E R A G V L N E V V D
UniRef90_UPI000367F695 K N E L T E L V E L M A S T E P K T V S Y P L V K V E I V T Y M A L N E F T L K
UniRef90_E3JS73
UniRef90_A1RXJ9
UniRef90_UPI000362A20C

UniRef90_X0SSP7 V K S I E G S L V S S V D I T K G D T F E I F R G D G L C I V 150 P S G S T A Y N K
UniRef90_S2ZPE1 R G G A G D M I E F S V V S V I N G N Y I D T L R R G D G L F I V S T A T G S T T A Y N K
UniRef90_UPI000378629F K G V D G T V V A Q V D I V N D E I F E S F R G D G L C I S T S T P T G S T T A Y N K
UniRef90_H8LBH3 R A N R T M T V A D V Y I N K N E L F E S F R G D G L T I S T S T P T G S T T A Y N K
UniRef90_UPI000368DB54 K L A R D R Q V G V G V V Y L A G E R L L A T Y S A D A D G L A V A T P T G S T T A Y N F
UniRef90_UPI00047564FF R E P L T S M C H F F E I V S E D Y L V G R Y R A D G L I T V A T P T G S T T A Y A L L
UniRef90_UPI0001C37976 E V I Q S F R I L C D F F E V Y S E D Y L V G R Y R A D G L I T V A T P T G S T T A Y A L L
UniRef90_M1XPR0 Q R G R N N G I G F F E V V R V D G S R Y A G G R A D G V L V S T P A G S T T A Y N L
UniRef90_R5FRQ2 R G K L F K M L L T N V N S N K T S F Y A D G V L V S T A T G S T T A Y A A
UniRef90_UPI0003F082AF R G P A P Y L S H L D L Y L V D G R N I T S V I Q G D G L I V S T A T G S T T A Y A
UniRef90_K9VAD8 P A S A D R M P S C I L E V D G E V V D Q Y Q G D G L I V S T P T G S T T A Y T A
UniRef90_B3T991 R K N L T K T A E F E I K F V Q G N D T L K Q K A M D A V I M I S T P T G S T T G H S L
UniRef90_U5WA90 R V P G D G L A H V V G L T V E G S N F V R Y A A D A V I V S T P T G S T T A Y S F
UniRef90_D6ZHV2 S T D K G H P A L L A F G V D G E A V S E Y A A D G L I V S T P T G S T T A Y N F
UniRef90_S7ZX41 R G Q N P H M A V V V E V F V L D G R R F L T E A V A D G L I L S T P T G S T T A Y S L
UniRef90_UPI0002889D36 S S E V T L V M D E V M L N D G R R F E R F R G D G L C I S T S T P T G S T T A Y N K
UniRef90_W0GXB2 R D E I S P T C T L E L E I D G E V I D Q V R G D G L I L S T P T G S T T A Y A L
UniRef90_F6PFT1 R G P S S Y L T N V D V L D N G H L I T T V I Q A D G L V I S T P T G S T T A Y A A
UniRef90_V6LL38 R G F S A F L T N L D V F V L N N R F I A R L Q A D G L I S T P T G S T T A Y A L
UniRef90_UPI000382E551 V K E L G K T S Y F K V L K E N A Y L F D G K C D G V I I A S T S T G S T T A Y I A
UniRef90_UPI00036430E5 R G A L A R V V S L D L S V N D G S N M G E I R A D G G F I I A S T P S G S T T A Y A L
UniRef90_Q83C3 R K V E G K V V D I E V F V D G C R V M D I S C N G I I A S T A T G S T T A Y S F
UniRef90_R9T7S0 T A N V A K I R H F N V Y V D D V L A M D V R A D G L I V A T P T G S T T A Y A M
UniRef90_C9XNE4 R G D K S R T H L N L S L D N K H I Q N F S G D G M I I S T S T G S T T A Y N Y
UniRef90_A2EED9 P T I A S S V C S I D A F L D G E Y F T T V I G D G M I S T A T G S T T A Y N L
UniRef90_UPI00035E8565 R G E L A R L V R L K V S F E G R T G L R A D G L I V T T P N G S S A Y A G V
UniRef90_A6TSSZ5 K G D K S R T I H L D I E V D N H L I Q R F S A D G G I S T S T G S T T A Y N Y
UniRef90_C7YTT3 R G P N P T M S Y T E I F G D D E H F T S V L A D G I C V S T S T G S T T A Y N L
UniRef90_L0P8X8 R G P N A F L S S L E L Y G D Y K H L T S V Q A D G I C I S T P T G S T T A Y S L
UniRef90_R5TCF7 R A Q L G K M V R V N L Y I N D I F A Q Q Y P A D G L I S T A T G S T T A Y A F
UniRef90_S3BNX9 R P D G T F E I L N E V V V D D E F A F T S V L A D G I C V S T A T G S T T A Y N L
UniRef90_L9X106 H V P P E N P I D R K I Y A D D E Y V G E F E G T G I A V S T P T G S T T G V S L
UniRef90_R3W5H1 R G N R T M V A D L L T K D E L F E R F R G D G L S V S T P T G S T T A Y N K
UniRef90_UPI0003B33A7E R R S G D R V A S L R Y R I L D G E N A G H V R C D G L V V S T P A G S T T A Y N L
UniRef90_S2JH04 R G P S S N I S L L E L F G D D R H L T T V Q A D G L C I A T A T G S T T A Y S L
UniRef90_K8ZMR1 V R C L H Q T L I A D I A S L R Q K W F E R F L G D G L A L C I S T P T G S T T A Y N K
UniRef90_B9DIP5 K T E D N T T L V A D V I S L R G Q H F E R F R G D G L C I S T P S G S T T A Y N K
UniRef90_B2GB65 R N T V K T M V C D V Y V N D Q L F E R F R G D G L C C I S T P T G S T T A Y N K
UniRef90_A6QYT8 R G P N P T M S S I E I F G D D E H F T S V I Q A D G I C V S T A T G S T T A Y N L
UniRef90_UPI000478B853 K G I E S K T I H L N I S V N D T Y L E R F S G D G V I L S T P M G S T T A Y N L
UniRef90_C5RBB5 I K R P L G T L V A D V Y I Q N E L F E R F R G D G L T A S T P T G S T T A Y N K
UniRef90_W2E4E7 I K G L E N T L V A Q L N I N D D M F E M F R G D G L C V S T S T G S T T A Y N K
UniRef90_X0Y3J5 K G A F A R L I S L A Q Y V N N D Y V I T Y S A D G L V V S T S T G S T T A Y S L
UniRef90_F3KM90 R T N L T K T A E I E I K F Q N D T V K Q K M D G V I I A T P S G S T T G H S F
UniRef90_G1XDM1 R G Q N P H M A I V E V F V D G G F L T E A V A D G I L S T P T G S T T A Y S L
UniRef90_Q03YD3 Q P I G T L V A D I V I G D Q Q A F T E R F R G D G I A V A T P T G S T T A Y N K
UniRef90_UPI0003686ABA T M E G S L V S N I E I K G E I F E T F R G D G L C I S T P S G S T T A Y N K
UniRef90_E3PT54 K G D K S R T L H L N L I S V N T N F I E C D G G V I L S T P T G S T T A Y N Y
UniRef90_M3K2Y3 R G S L P N L T S V D I N D N E F F E T T F S A D G L I F A T P T G S T T A Y S L
UniRef90_A8PWE3 R G P S P Y V T M L E V F A D D M H L T T A S H A D G L C I S T P T G S T T A Y S L
UniRef90_UPI000478E6CF K G D K S R T I H L D L S V N S Q Q L V Q R F S A D G G L I L S T S T G S T T A Y N Y
UniRef90_D6SR76 R G E L A R I T I S L D L E S V N S Q Q A L E S I R A D G L I V S T P T G S T T A Y C I
UniRef90_Q72AV2 R G A L A R V I T L D I D V D G E R L A G L R A D G L I I S T P T G A T T A Y A V
UniRef90_W7BA80 L N E S T P F V V D V I V N S T Q F E R F R G D G L C M S T P S G T T A Y N K
UniRef90_T0CLP2 K G D K S R T I H L N V N N K H I Q N F S G D G L L I S T P T G S T T A Y N Y
UniRef90_J9VRG6 R G P S P Y V S L L E L F G D E H H L T T V I Q A D G L T V S T P T G S T T A Y S L
UniRef90_V6KGH1 K L A R D H Q V A V G V L A G S L L A S Y A A D A L A V A T P T G S T T A Y S F
UniRef90_G8SC44 R V P G H G L A A V G I R V Y I E D S M L E E F S G D G V L V S T P T G S T T A Y S F
UniRef90_R6CWC0 R Q E N L N T L L K V Y I E D S M L E E F S G D G V L I S T S F G S T T A Y N L
UniRef90_D7GEC3 K A S R E K M V D L V T I D E R P L I S R W G C D G V L V S T A S G S T T A Y A F
UniRef90_X1Y9P5 R G L S S Y L S N I D I F L E D G K I T S V Q G D G L I V S T P T G S T T A Y S A
UniRef90_Q6IDH2 R G P S P Y L S N L D I F L E G K Y I T S V Q G D G L I V S T P T G S T T A Y A A
UniRef90_Q03AS0 R L N G T M R T E V R Y I K G D F F E S F R G D G L C I S T P T G S T T A Y S K
UniRef90_Q0RK76 V P G H G S A A V A L R V Y L D G R F F V R Y A A D A V V S T P A G S T T A Y S F
UniRef90_X1T778 A G G F S R I T H L R V Y L R R T Y V G R Y R A D G V I V A T P T G S T T A Y S M
UniRef90_UPI00021A7EBD R G P S P Y L S N I D I F L E G K H V T S V I Q A D G G L I V A T P T G S T T A Y A V
UniRef90_UPI0002196089 I K Q P I G T L V A D I Y L G D H L F E G F R G D G V A I A T P T G S T T A Y N K
UniRef90_F7Z392 C V D G T F V I D V E I N G R H F E R F R G D G L C L A T P S G S T T A Y N K
UniRef90_H3ZJP1 T G I P G K I T H L K Y I D G E L A E E I R A D G L I I S T P T G S T T A Y A L
UniRef90_C7MP17 R G A L G W M I D C E L S I S G S L V G T V R G D G M V I S T A T G S T T A Y A L
UniRef90_R5Y4V1 K G Y K S R T I H L S L G I N D H H V Q N F S G D G V I I S T S T G S T T A Y N Y
UniRef90_UPI00034C7FE5 R S D R T M V A D V Y L N K V H F E R F R G D G I S I S T P T G S T T A Y N K
UniRef90_S9VP70 R G E H P Y I S N L N V Y N S E L M T I V Q A D G L I V S T P T G S T T A Y N M S
UniRef90_W5S9D6 S S V L N K L T Y V N L K V N S E D F L S Y R S D G L I F A T P T G S T T G Y S F
UniRef90_XOQLM8 R L G S T L R A N V I K D T F F E S F R G D G L C I S T P T G S T T A Y S K
UniRef90_L0E915 N E F T E G T L V A S I H I N D E L F E M F R G D G I V V S T P S G S T T A Y N K
UniRef90_A0A024PJ20 S T L T K S I V V D V Y I D D L H F E T F R G D G L I I A T P T G S T T A Y N K
UniRef90_B0C2T6 K E P L A G M C H F E I A V G H A V V D I A S D G L M V A T P T G S T T A Y A L
UniRef90_X0UPL8 S S M P S K M L D M R L S I D G V H I M D I Q A D G A M V A T P T G S T T A Y N L
UniRef90_G4RL01 N L N Y K K L L M F K I S S N S F S I S G R A D G V V I A T P H G S T T G Y A V
UniRef90_F1T460 H G S K G D M I V F N V D V Y S G H H I I D T L R G D G F V V A T A T G S T T A Y A L
UniRef90_Q9RJS6 K L S R D R Q I S V G V Y I A G R L A S Y S A D A L L V A T P T G S T T A Y S F
UniRef90_A3GHN0 R G S Q P N L T S L D I Y I D N E F L T T T A D G I V F S T P T G S T T A Y S L
UniRef90_H3NN15 K T K Y T E A L H F D L F V L D G H L I T T V Q G D G V I E S T P T G S T T A Y N L
UniRef90_UPI00034F3A33 R G P S S Y L S N V D V Y L D D G H L I T T V Q G D G V I V S T P T G S T T A Y A
UniRef90_F4G2N9 P S R S A T L M E Y S L Y V D D E M L W K D R A D G V I V S T P A G S T T A Y A F
UniRef90_I7CTE3 R R G S S G G A T V G L D I D G Q R Y A E S H A D G V L V A T P T G S T T A Y N L
UniRef90_R5N778 K R D S S S M I T R A Y I N D E R L C S Y Q A D G L I V A T P T G S T T A Y S L
UniRef90_UPI000367F695 S A I I K T I A M D V F L D D N H F E R F R G D G L I V A T P T G S T T G Y N K
UniRef90_E3JS73 R G P S P Y V S L L E L F G D D H H M T T V I Q A D G L T V S T P T G S T T A Y S L
UniRef90_A1RXJ9 W S E P G K I V E F E V L N D E S L Y R V R G D G V I V A T P A G S T T G H A F
UniRef90_UPI000362A20C S V D G T L V A Q L N I N D E P F E M F R G D G I V V S T P S G S T T A Y N K

UniRef90_X0SSP7 A L G G A I L H P S L A S I Q I I A E M A S Y R T V G S P L V L P Q H H T C L L K
UniRef90_S2ZPE1 A A G G P L V T P E F T G M S C V P V A S P H T T M A R S A S F L L T S S S D I V E I T K
UniRef90_UPI000378629F A L G G G A M V I H P S I T E A F Q L I A E I A S F Y R T L L G S S P M M L P A K H H H C D E I K K
UniRef90_H8LBH3 A S V G G A V I H P S I T E A F Q L I A E I A S F Y R T L L G S S P M M L P A K H H H C D E I K K
UniRef90_UPI000368DB54 A A G G P V L S P H M D A V V F T P I A P H M T F N R S P V I A A P D D E P V E G L R
UniRef90_UPI00047564FF S A G G P V I P D G V S L Q L I L I C C A H S L A S R A T L V F A P A D A G R R L R M K
UniRef90_UPI0001C37976 S A G G P I I E P D L E C V L E M T L I C C P H S L F A S R A T L F A P A D A G R R L R M K
UniRef90_M1XPR0 S E G G P L V L H P D V S A F V V T E M C C P V E P M P S L A V A P A T V A E I T V R D
UniRef90_R5FRQ2 S S G G P L L P T A K N Y I T P I C C P Q L R T S I T S L V V N D T D V I S I D M
UniRef90_UPI0003F082AF A A G G A M C H P N P A I L I T P I C C P H S L S S F R A I V I V P P G S V V K S I W
UniRef90_K9VAD8 S A N G P T M H S G M E A I A V T P I C C P L S L S S R A I V L V P P G S V V K S I W
UniRef90_B3T991 S L G G P I V L H E S L D V L I I T P V A P H R L P S L V V P D E K V E I R E
UniRef90_U5WA90 S A G G P I V S P N V E G L L V S A A A A H S S F N R S L M L S P D E Q L V E I Q R
UniRef90_D6ZHV2 S V G G P V V W P D V Q A L L V T S P L A A H G L S F T R S S L M L S G P S S V L E I Q R
UniRef90_S7ZX41 S S L G G P I L H P S K V P A I L L T E M A S P R S L S F R S S L V L P S P A E S E V T L R K
UniRef90_UPI0002889D36 A L G G A I L H P S L E A L Q I T E M A S F R T L V G S L L V L P S P A R R L A I W
UniRef90_W0GXB2 A A G G P L L H P S G I D A I V A P I C C P M S L S S R S T L V V P P R A R L A I W
UniRef90_F6PFT1 A A G A S M I P S N V P A I M I T P I C C P H S L S S F R Q L I V V S A G Q V E I K I M K
UniRef90_V6LL38 S A G G V P V K S S V D C I L L T P V C P H V M S S F R K L I I P S D Q D V I T V K
UniRef90_UPI000382E551 S R N G P T I D P S L D L I I D P L N P L R W G S R K L I I P F N S S L K I Y
UniRef90_UPI00036430E5 S A G G P L V W P D M D A Y S V T P I C C A F L R S F Y P M V L P G D N S I F T A A
UniRef90_R83IC3 S S G G P I V H P E M K V T L V V P V S P H E L F A K P I V L P D N R S I L L K E
UniRef90_R9T7S0 A V G C P I V D P R V N A I T I A P M A P F K F A A R S P I I V S P L D S H V L R V E A
UniRef90_C9XNE4 S A G G S L V D I N S L E L M Q L T P I C C H P Y R C F T S I I C S N E S V I K I A
UniRef90_A2EED9 S A G G C M V I H P P E N S S L L F T P I C C G H S L N T Q P L V L P D C C E I S I F K
UniRef90_UPI00035E8565 S A G G P L I H P G V P A Y G I T P I C C P F L G S F R S P T V L P K E T V I E I V
UniRef90_A6TSZ5 S S G G S L V D P E N L D V L Q V T P I L A P Y R S F T S F R P I I L P A D T A V I R V S G
UniRef90_C7YTT3 A A G G S L C H P P E N P V M L V T S I I C C A H T L S S F R P L L V L H D S M I L H V A T
UniRef90_L0P8X8 S A G G S L C H P P D I P A I L I S P I C C P H T L S S F R P L L V L H D S M I L H V A T
UniRef90_R5TCF7 S C S G P I L S P S P E N P V M M V V T S I C C P H T L S S F R A S V L S E K D I V K I V
UniRef90_S3BNX9 A A G G S L C H P P E N P V M M V T S I C C P H T L S S F R P I I V L S D T L V L R V G R
UniRef90_L9X106 S A N G P I H Y P N N H T L Q L I P L H T H Q L G V R P I I V V S P E T E L R I R K
UniRef90_R3W5H1 S V G G A V I H P S I N A F Q L I A E I A S F R T L L G S A I V I V A H T E W L E V S
UniRef90_UPI0003B33A7E A N G G P V L A W G V E G F A V S F I A P H T L S S A R A L V V S P D G E L E V S
UniRef90_S2JH04 S A S G S L T H P D M Q C T L V T P I C C P H T L S S F R P M L L P S S K M V I R I V
UniRef90_K8ZMR1 S L G G A V I E P T M N V F Q L T E M A A F H T L G S S M I L P Q G S E R V D I H
UniRef90_B9DIP5 A L G G A I L H P S L R A I Q L T E M A A S F R T L V G S P L V L P A H H Y C L I T
UniRef90_B2GB65 S A G G A I M D P N I I G F Q L A E M A S F R T L L G S P L V I F G T D A K I L T F R
UniRef90_A6QYT8 A A G G S L S H P P E N P V I L L T A I C A H T L N F R S S A I I L P A D T L V L R V I G N
UniRef90_UPI000478B853 S A G G S V V Y P N L N V L Q L T E L A C A P Y R S L T S S P A I I I G S H E V V K V I Q
UniRef90_C5RBB5 A I G G A V M H P S L Q A I Q L A E I A S F R T L L G S P L I I I G S H E V V K V I Q
UniRef90_W2E4E7 S L G G A I V H P S L E A S I M L T E I C C A S Y R T L L G S P M L L I G S H H H C D I Y
UniRef90_X0Y3J5 S A G G P I V N P S I N S I M L T E I C C P H T L S A R P F I I G E N D Q V K I K
UniRef90_F3KM90 S L G G P I L H E S L D V L I T P V A P Y R L S S P I V V P D E K T E I S R
UniRef90_G1XDM1 S S F G S I V H P R V P A I L L T P I C C P R S L S F R P L V L P A Q D V E I V M K
UniRef90_Q03YD3 A N G G A V L H P S P A I L Q M S E L A S F R T L G S P L I V L P A Q D Q E I V M K
UniRef90_UPI0003686ABA A L G G A I L H P S L E S M Q V A E M A S Y R T L L G S P L V L P Q H H T C L L K
UniRef90_E3PT54 S S G G S I V D P S L K L Q V T P L S P Y R S F T S S P L I L P S S S D I V K I S R
UniRef90_M3K2Y3 S A G G S I T H P A V P C V L L T P I C C P R S L S F R S P L L P S S S D I M V A N
UniRef90_A8PWE3 S A G G S L V H P F I P A M L I T P I C C P H T L S S F R S P M L V P D S S M E L R I A
UniRef90_UPI000478E6CF S L G G P I V D P S L D V L Q V T P L A P Y R S F T S S M I L P S S S A T I K V N R
UniRef90_D6SR76 S A G G P L V H P E M Q A M L L T P V C V F L H D F K P M V M P A S E S I L L N R
UniRef90_Q72AV2 S A R G P L M D P A L D A F T V T P I C C P F L G N F P L V L G G G S V C S V R K
UniRef90_W7BA80 S L G G A I L H P S V K S M Q L T E M A S Y R T L L S S P L I F P T H H R V H I G Y
UniRef90_T0CLP2 A A G G S I V D P S L K L M Q L T P I H P Y R C F T S S P L I F P T H D A V I G I Y
UniRef90_J9VRG6 S A G G S L A H P Q I P A T L I T P I C C P H T L S F R P M L L P D S M E L R I V C
UniRef90_V6KGH1 A A G G P V L S P H M D A V V F T P I A P H M T F N R S P V V A P D E P V S L K T
UniRef90_G8SC44 S A G G P I V S P N V E G L I V S A A A A H S S F N R S L V L D T S E H L V I G I Y
UniRef90_R6CWC0 S L G G S I V Y N T F H T L Q I T P I A P Y R N L N R S V I V L P D N S M K V T L R
UniRef90_D7GEC3 S C G G P V M W P N T E A F E V V T P I A A H S A L S F R P C V V A P T S T V D L R
UniRef90_X1Y9P5 A A G A S M I H P S V P A I L V T P I C C P H S L S F R P I V V P A G V E L K I S
UniRef90_Q6IDH2 A A G A S M I H P S V P A I L V T P I C C P H S L S F R P I V V P A G V E L K I S
UniRef90_Q03AS0 S N G G A V I H P R L D A L Q M T E L A S F R T L S S P I I T A P D D A W L T L L E D
UniRef90_Q0RK76 S A G G P I V S P S V L E A L L V T P A A P H S A F N R S G V V L A V R D A L A L L E D
UniRef90_X1T778 S A G G P L L H P E M E A F I F N P I C C P F T L S W R S I F L S L S R S V S T N
UniRef90_UPI00021A7EBD A A G A S M I H P S V P A I M L T P I C C P H S L S F R P I V V P A G V E L K I S
UniRef90_UPI0002196089 A N G G A V L H P S I K A I Q M S E L A S F R T L G S P L I V P T A G V E L K I S
UniRef90_F7Z392 A L G G A I V H P S L Q S I Q L T E M A S F R T L G S P L I V P G H H T C L L R
UniRef90_H3ZJP1 S A G G P L V D P R L H A I L L V P L A P V A L T A R A P L V V P D D S S I E I E T
UniRef90_C7MP17 S A G G P L V A P N F R G L V V V P V A P H S L I A R A V V V D P H D I V E I E T
UniRef90_R5Y4V1 A A R G S I I D P S I N V M Q I T P L A P Y R S F T S S I I I C S K D S I V E I A R E
UniRef90_UPI00034C7FE5 S L G G A V L H P S I E A L Q I A E M A S Y R T L L G S P I I V P D K Y S V I N I R E S
UniRef90_S9VP70 N A G G S L V H P N L N A L L T P I C C P H S L S F R P V I L P D K Y S V I N I R E S
UniRef90_W5S9D6 S A G G S I L E S D L R A F I L T P I S P H S V Y N R S F V F S S G S K I L L V S
UniRef90_XOQLM8 S L G G A V I H P P R L E A L Q M T E I A S Y R T L L G S P I V V A S S D E N I L V K E
UniRef90_L0E915 S L G G A V I H P S I E S L Q M T A E I A S Y R T L L G S S F I L S G E R T L K L E T
UniRef90_A0A024PJ20 S I N G A V V D P K L P C F Q I S E L A S Y R T L L G S S F I L S G E R T L K L E T
UniRef90_B0C2T6 A A G G P V I A P G V E V M Q L T P I C C P H S L A S R A L V E A D T D P L E V E
UniRef90_X0UPL8 S A G G P I V K P G V E A M I L T T I C C P Y S Y F R A V V V P T D S R I T E V E
UniRef90_G4RL01 S A G G P I V D V K L D A L I S F I A P Y T L Y L R P L V V P P E T I E I T S R
UniRef90_F1T460 A A G G P I V T P T F T G M L C V P V A P H T L L A R A F L T A S S D E V V E I S R
UniRef90_Q9RJS6 A A G G P V S P R A E A L V F T A V A P H M T F D R S V V V T A S P D P V V G L R
UniRef90_A3GHN0 S A G G S I T H P L V P C I L L T P I C C P R S L S F R P L I L P S T C H I M I R K
UniRef90_H3NN15 S A G G A L H F Q N V D A F Q I T P L A P H R S L S D K L I V P A G D T I K I K T
UniRef90_UPI00034F3A33 A A G A S M I P N V P A I M T P I C C P H S L S F R P I V V P A G V E L K I T E
UniRef90_F4G2N9 S A G G P M V I R G A K V F I A V P V N S L N P M R R S L V V S D D S K L I E T
UniRef90_I7CTE3 S E G G P L V H P S A S T L V V A Q M A A T E S M P P L V I E P E T E I T L T R
UniRef90_R5N778 S V G G P I V L P P S A S T I S L T P V A P H S L N V R P L V I R D D W E I T L R E
UniRef90_UPI000367F695 S T S G A V I D P K I P C L Q V T P L A S Y R T L L G S S F V L N Q D R I L S L E
UniRef90_E3JS73 S A G G S L V H P E I P A M L I T P I C C P H T L S F R P M L V P D G T M E L R I C
UniRef90_A1RXJ9 S Y G G P I I D T G Q R A L E V V F P G A L S P L I R P L I V H G G S I V K V
UniRef90_UPI000362A20C S V G G A V I H P S L E A L Q I A E I A S Y R T L L G S S L I L P K H H H C D I V

UniRef90_X0SSP7
UniRef90_S2ZPE1
UniRef90_UPI000378629F
UniRef90_H8LBH3
UniRef90_UPI000368DB54
UniRef90_UPI00047564FF
UniRef90_UPI0001C37976
UniRef90_M1XPR0
UniRef90_R5FRQ2
UniRef90_UPI0003F082AF
UniRef90_K9VAD8
UniRef90_B3T991
UniRef90_U5WA90
UniRef90_D6ZHV2
UniRef90_S7ZX41
UniRef90_UPI0002889D36
UniRef90_W0GXB2
UniRef90_F6PFT1
UniRef90_V6LL38
UniRef90_UPI000382E551
UniRef90_UPI00036430E5
UniRef90_Q83IC3
UniRef90_R9T7S0
UniRef90_C9XNE4
UniRef90_A2EED9
UniRef90_UPI00035E8565
UniRef90_A6TSZ5
UniRef90_C7YTT3
UniRef90_L0P8X8
UniRef90_R5TCF7
UniRef90_S3BNX9
UniRef90_L9X106
UniRef90_R3WVSH1
UniRef90_UPI0003B33A7E
UniRef90_S2JH04
UniRef90_K8ZMR1
UniRef90_B9DIP5
UniRef90_B2GB65
UniRef90_A6QYT8
UniRef90_UPI000478B853
UniRef90_C5RBB5
UniRef90_W2E4E7
UniRef90_X0Y3J5
UniRef90_F3KM90
UniRef90_G1XDM1
UniRef90_Q03YD3
UniRef90_UPI0003686ABA
UniRef90_E3PT54
UniRef90_M3K2Y3
UniRef90_A8PWE3
UniRef90_UPI000478E6CF
UniRef90_D6SR76
UniRef90_Q72AV2
UniRef90_W7BA80
UniRef90_T0CLP2
UniRef90_J9VRG6
UniRef90_V6KGH1
UniRef90_G8SC44
UniRef90_R6CWC0
UniRef90_D7GEC3
UniRef90_X1Y9P5
UniRef90_Q6IDH2
UniRef90_Q03AS0
UniRef90_Q0RK76
UniRef90_X1T778
UniRef90_UPI00021A7EBD
UniRef90_UPI0002196089
UniRef90_F7Z392
UniRef90_H3ZJP1
UniRef90_R7MP17
UniRef90_R5Y4V1
UniRef90_UPI00034C7FE5
UniRef90_S9VP70
UniRef90_W5S9D6
UniRef90_XOQLM8
UniRef90_L0E915
UniRef90_A0A024PJ20
UniRef90_B0C2T6
UniRef90_X0UPL8
UniRef90_G4RL01
UniRef90_F1T460
UniRef90_Q9RJS6
UniRef90_A3GHN0
UniRef90_H3NN15
UniRef90_UPI00034F3A33
UniRef90_F4G2N9
UniRef90_I7CTE3
UniRef90_R5N778
UniRef90_UPI000367F695
UniRef90_E3JS73
UniRef90_A1RXJ9
UniRef90_UPI000362A20C

210 220 230 240
P L N V Q V S I L D H F T A F N Q I K S I Q C R V A D E K I R F A R F R P F P
M S R R H F F A D G Q N I A H A G I S A T V K R G P G D I I L L D R Q S F Y R
P Q R L Q L T I D H L N L S A N D D L T S L R V S K V R V S F A R Y R P Y P
L E D Y L V T V D Q L N V A K A N D I R I Y Y R I A E E R I H F A S Y R H M H
V G Q A I V S V D G Q L R L D P G D W I G V F R A S P Q R V R L V R L R D F Y G R L
S D Q L I L V V D G N A G C P H R D E S I R I A R S S Y Q T Q L I R L K E F F R L
N T T P V I N V D G E H F A D L H D S I E I H R G K K N I K F I D I N S F H E S
V E S A V V V A D G R E R V D L P S T V T S L R P A E T P V R I A G P R L E F F T
I N D P I V V I D G K T M I E L N E E S I T I R K S K K Y L R L L K
V S T A W A S F D G R N R I Q K G W S V T K I T T S I Y V A S I C R D D Q I S D
P L S T K L W T D G I T A I W P G Q R V D V R R A D C E A K F I E N Y S Y N T
S H D C N I V M D A Q V I K S A G V E I T I K K Y K K Q A V F I R L K K G L R
V G R L A V E V D G Q G Y A Q P G D K L K I L P V P A A A Q V I R F T S F Y E R
V Q D C E V W A D G R R I L P L G S S I R V T K S T T D M Q L A R L
A N E V E V S I D G K R W G G V G T G V E V R V
P D D F M V T D H V Q L R L H K N V K I E Y R V A K E K V R F A R F K A F P
P H R I K L W K D G V T V L L E P G E C C V V Q Q A R H H A L M V L L N S Y Y R T
L S P A W V S F D G R K Q E I G D S I S I T T S S
I D R G T A S V D G R N R I E P G E S I H I Q K A E D S L F T I C E V E E S V D
S N E N F L T I D G N I Y I N K E E E I K V Q G S S K R I N F V R F S E N F F E
V T E L F L T Q D G Q E A V Q T D D D V I S L T K A Q G G L L Y A E F D D N S
V N K V V L C S D G Q V R L C L G D E I A C H V G K V P V V F V K K G C F A E H
V K P C V C V T D G Q Q E K D M G D E L T F S R A E S T A K F V S F G S T
P E S V L I V V D G E H R F R Q I E N I K V S I S D A K I K L L R M S N Y
I S E S N I N Y D S R T T I S K G N E L C V R I S A F P L P T V C K Q S P I G D
V E D V N V T E D G Q R L F H L G D V L R V S R S D K D L I M V
P E S I V I V S D G E H H H D A I L E V L E S E L K V K M L R L K N S E
V P A S W A S F D G R E R V E I G D Y V T I S A S R Y P F A S V R S E D W V N S
V S T A W V S F D G R N R V E I G D Y V T I S A S R F P F P I V H R S K Q S S D
L P S L Y L S A D G N S Y E L N D I L L V Q G V S K P I R F V R F H D F W G T
V P S W A S F D G R E R V E L G D Y V T I S A S R F P F A S V R S E D W V N S
T Q P A S L L V D G G R A L E E G E E V L V T G A E Q L A H V V H D D H F F T A
S K D Y L V T V D Q P L D I E Q D A S V Y Y R I A D E R I H F A S Y R H M H
T D P V E L G V D G R N R I P A G A S L R V R F R R E A A L L A Q G A S F Y R R
V H S A Y C S F D G R N R T E L G D H V K I T M S P Y P V K T F C S C D S S N D
L E E Y I V T I D Q K T Y T L N D S I S Y T L V S K K R I Q F A K Y R H T P
P R T I M T I D H V T T K H H N K S I L E Y K L S E E E I R F A R F R P F P
L R D A V L T C D R E Q M M L G Q E L T Y R V A K E K I H F A K Y R H N N
V P S S W A G F D G R E R
P E S I L I V V D G Q Y R F D N I V E M S F K V S D M R I N L I G K R N F W S D
L E N V T F S Y D H L N K I S S N D W I S F Q V A D Q K I Q F A E Y R H M H
P Q P L I V T I D H L N F Q L S N I V S I R S S T K K V K E A R Y R P F P
L E K V M V T I D G Q E V L F K S K D E V I I K K S D H K A Q L I K E N S F Y A I
S H D C S I V M D A Q K S A G Y G E P I I K K Y S K P A V F V R L K K R G L R
G D E V E V S I D G K R W V R K G V I E K L T
S N H F L V M Y D G Q E E I K G H N T E L R F K V S E K R V H F A Q Y R H V D
P L N N V L T V D H Y S M V D R N Q S I Q C R V A E E K I R F A R F R P F P
P E S L V F V T D G Q P R Y D Q I V D V L T F Q T S T I N I K L L R L G G Y E
N H K I E L T V D G G E H R H P G D E V H I T
V S N A W A S F D G R G R I E I G D H I K I T A S P Y P F P T V T P E N E T G T
P E S I V I V S D G E H R H S S I L E V S L K L S T L N I K M L R L K G F E
I Q E A Y L T V D G Q T V L K P G D E L T L T
I R E V H A T I D G Q E G I A L G D R I T L T
P R D F Q I S I D H L S I L R H D H E I Y E I S D K E I Q E A R L R S F P
P E A L L I V V D G E Y R L E K I T N I S I T T S D V Y V K L V R L V N Y E
V S T A W A S F D G R G R V E L G D H I K V T A S K Y P F P T V C A D K A S T D
V G Q A A V S I D G Q L S L D P G D W I G V F R A R N R V R L I R L H D F Y G R
S G R L A I E V D G G E Y A E P G A A V E I E P V P G A A Q V I R F T S F Y E R
S K D L L V I V D G E K K Y S D V D K I E T T V K D K R I R C I R K D Y
S L G A V V W C D G R R S V D V G Y G I G V R R N P D D L Q I A R L R E Q P F T
I S P S R V S F D G R N E L N H G D S L R V T T S I Y P V P S I C S Q D Q I S D
P D D Y V M T V D Q F V I N P P T Q L R Y K I A K E R I H F A R Y R H M H
V L P G S V E V D G R V H D Y L E A G A T V E L H P R P V V R L G R T T F Y E R
P E Y R S L S F
V S P S W V S F D G R S R Q E L G D S V R V T T S I Y P V P S I C A T D Q I T D
P K H F L I T C D Q L E I L A E D V V S V E V A E T M I H F A S Y R H L L D
P K D F L V T V D H L T L L H K E V R I Q Y R V A K E K I R F A R F R P F P
V R E I L T V D G Q F Y T Q L P P R I R V E K S P R K T K E V R F S K R
L H E A Q L E V D G L A V E F P A R L R V Q R G P E T I L L R Y Q S F Y T L
P E S L I V V D G V E Y Q F K Q I V D I S V S D L K V K L L R M S N Y E
T D R H T I D N R T Y T H K N E K V E Y Q I D H H K I H F V A T P R H T S
V P T A F S V D G H T E I T P G D Y L S I V T S Q Y P F T T I Q N P H W T K V
L N S A S I F V D G V N I G T F G V D I V F E L G N K S L R F A C T D T F V R R
P D D Y V L T V D Q F T L K H R K K L E Y K I A K E R I H F A R Y R H K H
S Q R L A L V V D H I T I E R N D S L R C T V S D K K I C F A R Y R P F P
V D H P I I G M D N E A S I R N I H D V T T K L S E N V I K T V K L K N N T
P Q Q L V L E V D G N A Y I A P G D R V R V I K S P Y S A R F I R L P E F F K L
R A E G I V I A D G R E Y I K P L S S V E I W K S E H T T R F V R F K P F Y E R
T N D A E L S C D G Y E E E H G R E F V V N K S D R R L H L A V F G D Y Y E R
I S E R L F F A D G Q P L G A N L T I T R G Q G D I L L L E P S S F Y Q
S G R A A V S I D G Q L R L D P G A N L G V Y A A P R R L R A V R L G D F Y G R
L S E I E L T I D G Q R D L P G D S I H V
P E E S Y F A F D G K K E I E H I N N I E I K L S D K R I K K I I F D K F W K N
L S P A W V S L D G R K R I R H G D R
P S S V I T A V I D G I S R I K V K N R I L I E K G T P A P F I R
V S E A Y A I S D G R N R L D P G A E L V S V S L A N E A V R L V G P Q A N F F D
S H N F L V A V D G R E T C R E G T K V L S T I R R A D E A V R L V K R H S F F N T
V D Y P I V G L D N E A S T R N I Q T L T I Q L S D K R I K T V K L K N N S
V S T A W A S F D G R G R V E L G D H I K V T A S A Y P F P T V C G V S Q S I D
A H P A N L V V D G Q V I L Q E A S K V T V R P S K S L R F I Y V E K Y E T P
T E P L A I L G I D H L I M Q F H E V R I V C T V A E D K V H F A R Y R P F P

UniRef90_X0SSP7 F W K R V K
UniRef90_S2ZPE1 F W N R V R Q
UniRef90_UPI000378629F F W H R V K
UniRef90_H8LBH3 L R D R F R
UniRef90_UPI000368DB54 L R E K L
UniRef90_UPI00047564FF L C T K M
UniRef90_UPI0001C37976 A L G K L
UniRef90_M1XPR0 A L G K L
UniRef90_R5FRQ2 W F D S L
UniRef90_UPI0003F082AF L R E K L H
UniRef90_K9VAD8 Q M A K L
UniRef90_B3T991 A R R K L R
UniRef90_U5WA90
UniRef90_D6ZHV2
UniRef90_S7ZX41
UniRef90_UPI0002889D36 F W Q R V H
UniRef90_W0GXB2 L S H K L H
UniRef90_F6PFT1 F F K S L R
UniRef90_V6LL38 R I K I R S L
UniRef90_UPI000382E551 Y Y N K L
UniRef90_UPI00036430E5 L V K K
UniRef90_Q83IC3 F Y G R M H
UniRef90_R9T7S0
UniRef90_C9XNE4 W H S I
UniRef90_A2EED9
UniRef90_UPI00035E8565 F W K K V
UniRef90_A6TSZ5 I S G K L
UniRef90_C7YTT3 W F T G L
UniRef90_L0P8X8 L S G K L
UniRef90_R5TCF7 I S G K L
UniRef90_S3BNX9 I S K K L
UniRef90_L9X106 F W R R V K
UniRef90_R3WSH1 L R E K
UniRef90_UPI0003B33A7E W F S S V Q S
UniRef90_S2JH04 F W K R V K
UniRef90_K8ZMR1 F W K R V H
UniRef90_B9DIP5 F F M R V K N
UniRef90_B2GB65
UniRef90_A6QYT8 I K D K
UniRef90_UPI000478B853 F W H R V Q
UniRef90_C5RBB5 F W T R V R
UniRef90_W2E4E7 L R E K L R
UniRef90_X0Y3J5 Q M S K L
UniRef90_F3KM90
UniRef90_G1XDM1 F W R R V Q N
UniRef90_Q03YD3 F W Q R V K
UniRef90_UPI0003686ABA F W S K V
UniRef90_E3PT54
UniRef90_M3K2Y3 W F H S V
UniRef90_A8PWE3 F W T K V K N
UniRef90_UPI000478E6CF L R Y K
UniRef90_D6SR76
UniRef90_Q72AV2 F W H R V H
UniRef90_W7BA80 F W S R V
UniRef90_T0CLP2 W F S S I R T L
UniRef90_J9VRG6 L R N R F R
UniRef90_V6KGH1 A R R K L R
UniRef90_G8SC44
UniRef90_R6CWC0 T R
UniRef90_D7GEC3
UniRef90_X1Y9P5 W F D S L
UniRef90_Q6IDH2 F W D R V
UniRef90_Q03AS0 A A R K L R
UniRef90_Q0RK76
UniRef90_X1T778 W F D S L
UniRef90_UPI00021A7EBD F W C R V Q
UniRef90_UPI0002196089 F W K R V H
UniRef90_F7Z392
UniRef90_H3ZJP1 L R T
UniRef90_C7MP17 F W S R V
UniRef90_R5Y4V1 F W N R V K
UniRef90_UPI00034C7FE5 L E D K L R
UniRef90_S9VP70 L K N K L
UniRef90_W5S9D6 F W N R V
UniRef90_X0QLM8 F W R R V R
UniRef90_L0E915 Y W D R V K
UniRef90_A0A024PJ20 L R E K L
UniRef90_B0C2T6 L E R R L
UniRef90_X0UPL8 V S Q R L I S L
UniRef90_G4RL01
UniRef90_F1T460 L R E R M R
UniRef90_Q9RJS6
UniRef90_A3GHN0 I T E K
UniRef90_H3NN15
UniRef90_UPI00034F3A33 L F K K L
UniRef90_F4G2N9 G L D K L
UniRef90_I7CTE3 L R E K M
UniRef90_R5N778 F W D R V Q
UniRef90_UPI000367F695 W F
UniRef90_E3JS73 L P E K L
UniRef90_A1RXJ9 F W N R V R
UniRef90_UPI000362A20C

UniRef90_UPI0003769325 1 R I A F V A S E A P D A L Q A Q A R L I A R Y G T V A L 30 40 E D A
UniRef90_F7V0C8 MR V A V V N R A N P E A I D A S L L L G A Y G I D Y D L V D S T D E H L E Q P
UniRef90_R6BAB3 K I R I F A N E N E E S Y K I K L K L Q G V L E K Y K F E V V E E D Y
UniRef90_R2QVE7 MK V A I V H N H E H K S N E V T R H L L L L L K K N K I E I D D H Q P
UniRef90_I2K1Y6
UniRef90_C7LMC3 MK Y S F L T N K Y E E S S D P I V D E L L N I L K N T D F K K D Q N N P
UniRef90_A1RSI2 Y A V F Y R P D L R R P L A E E F K R K Y G A V E L T C D G D Y
UniRef90_F3A6I0 K F S I E V R D D E T S C K I G L K L R D F L L A N E M V E D K E T P
UniRef90_R7A0L3 MR F T I I S R P D D H S K E V S D Y L R R R C E E T G W K F D E S D F
UniRef90_K0DD36 MK V A I F N N D V E N S K Q L T S A L K K H D I E I N N D T P
UniRef90_K1LIX5 K I A I Y R N S H T A S I Q L A S K V K E K L V Q A G F I C Q E G L L N P
UniRef90_V6Q4V3 MR I A M I A S P S P Q S Q V V L T R L K T L L N K P P F E M V N E R P
UniRef90_P65771 MA K T I F Y F S Y R K T E E L H A K A K E L K I T T D Y G Y E L T D D Y Q K A
UniRef90_UPI0003653958 Q E F A P H L N I E S I A E L G R D V T I H E L
UniRef90_V4JYD2 E S A E A Y P G R L G G L R T F S L D R D R P P
UniRef90_L0IBX1 V A I V S P D A G D A A R L E A W C T D R G L G L S T V D V G D D D E N R A
UniRef90_D5U2B6 K I A L I Y K P T E I V K E L S N A F S A R G C E T L L F T V D D L L P A E V
UniRef90_U4KPI3 MR Y W I I S K T D E I S N D V S R R V K E L A M G V L D E K N P
UniRef90_UPI0003073C89 MK V A I Y Y Y P N D E T R A V I E R L T T A L N K A H L P I D D Q H P
UniRef90_A9A5D7
UniRef90_C7N4T6 T E L D I P S F
UniRef90_Q9K808 I Y F F Y K H T K S M Q E A V E P L K Q L A T S Q G L N V V D D V Q K A
UniRef90_E6VS89 A L G T G S D R V G F G P G P G D K P
UniRef90_D7CIU7 MQ V V I V Y K N D C R A T L L A R D L H A R D V T V L T S Q D L P N Y N Y G A
UniRef90_UPI0003822EE2 I A F I A S A T P D A T E A Q E R L S A L Y D S T D P E A A
UniRef90_R5Z486 MK F A I V E R G D A Y S K E L A D Y I K E R C Q Q E G W Q Y H K S N P
UniRef90_L9XTC5 V G I V A Q R D N E A A S L V D A L E R E G A S V V V D E A T G E A V G A T
UniRef90_C6JIV7
UniRef90_M0L13 V G I V A R N N E R A H E L A A A L T E S G D A I D V A G I P V A E M A D R
UniRef90_B5Y8M8 Q D A
UniRef90_A7HWM6 K I A F V A T E M P E A E A A R K A L S R R Y G D A K P E E A
UniRef90_V5SGI5 K I A F V A S E V S E A R E A L L R L S D R Y G A V E P S E A
UniRef90_U1QCV1 I D R L E S W T T T H G I D L T V R D V G E E I T E S
UniRef90_X6L1M3 L R I A F C A S R A P I A Q A A L E G L S R R Y G D H A E D I T S
UniRef90_B7RN14 MK I A F T A S R A E V A Q T A L A G L S A R Y G N V A P E E A
UniRef90_UPI00037B15E1 MT I A F V A S E A P L A R E A R D R L A A R Y G D A E V D E A
UniRef90_B9DS28 R V A I J A N G N Y H S K R V A S K L F A I F K D D P D F Y L S K K N P
UniRef90_E4KPD8 K L L I Y T N N S S R S R L V K E E F L R K A Q A K G L H I V D D Q D S P
UniRef90_X1BL52
UniRef90_UPI0003FDF42D I Y L F E P T Y K N S K K I L T D L Q Q L F E D I G Y K I A D S S D T A
UniRef90_A0A024KJN6 K L T F V I S S G T P E A D K A T S A L R D R Y G D V G L A H A
UniRef90_UPI00036A5564 K V A I L A N G K Y Q S K R V A A K L F A V L R D D D A F Y L T K K N P
UniRef90_H3NHZ3 MK I K L H A N H L G D L S Q V I A S K L K E K A E N A G L T C L P L D Q V S
UniRef90_U1MXB4 D D E A L E Q L D S W T S S Q G M D L T V H E V G A D L E D D Y
UniRef90_ROG312 MK I A I Y H S G D E H S I E V G Q D L S Q I L R E N H I A L D D Q D P
UniRef90_D8MEV4 MK I A I F N N N A V S S Q A I T K K L T L A L K K N N I I D N N E P
UniRef90_M7SHA5
UniRef90_L9WM90 V G I V A R D N E R A Q A L A A T L E S T G A A I N E D G V P V A S M A S R
UniRef90_L8FXR6
UniRef90_L0ACH3 V A I V S E S E A A V Q R L E T W A D D N G L G L Q T V D V G D D I P D S E
UniRef90_UPI00026CABF4 L R R A L V A S P T Q V A E G A G A L L A D A H D W V P V E D A
UniRef90_UPI0003F66375 I F F Y Y L S D Q G L E K L N A L Y Q L A E S N G F T I V N D F E H A
UniRef90_G5ZVJ4 MK L H F A A S T H A D S Q R L A Q L T G K Y G Q T E I E N A
UniRef90_A0A013VD82 R R A L V A S P T Q A A R A G E E R L R A A Y D F V P I E Q A
UniRef90_Q8EPB4 I F F Y Y H P D E E M D G K V K A L K K I S S E N G L N V V E N S S D A
UniRef90_A3SSH7 MK I A F I A S R S D V A Q D A L T A L S A R Y G N V T R E E A
UniRef90_UPI0001D2EFF6 R L A F L S S G T R E A D E A R Q R L V A K Y G D A P P E D A
UniRef90_C3MAC5 A F I A S T A D E A Q K A K E L K A I Y G D H P D Q A
UniRef90_J9J7C3 E S Q E I C E M H D D H Q H H Q C S Y N D Y Q S R N V H I
UniRef90_UPI0003810A00 R I A F L V S S G T P A A D E A L L E R L A R A Y G N V E P A Q A
UniRef90_UPI00037BAFD9 I A L V A S E S P E A Q E A L V R L Q S L Y R T V D P E D A
UniRef90_C8WJ38 MR I L I V R N N S D A S L L L A T Y L A T Q G L D Y T L V D S S D A L A S G V
UniRef90_G8PCS7 MK V A L Y H S D R D T S V M V S E K L V E L L R E S K I E I D D K N P
UniRef90_C6XLX3 R I H F I A S A R P E A K T A F A T L T R R Y G S N D I D K A
UniRef90_F7ZIF7 K I A F T A S R A D V A Q T A R A A L V T R Y G N V D V Q E A
UniRef90_UPI0003674E81 MR V E L V A K A K E Y A R K I V E E S G S L G I E T V S R P E D A
UniRef90_E1L1M1 M H V L L V P N Y S Q D A S Q L T D F L E Q D I S V T W A P D K K V D P T S A
UniRef90_UPI00040A8D15 Y F Y Y H P S E E L E Q L Y D I A R E S G F E I V H H S S D A
UniRef90_A8AXJ8 K I A V E S N Y K P Q S K E V C Q L L I K K L R Q N R F I L T D K N P
UniRef90_U7UMB0 I N I I S N Y N F E S K K I S Y E I Y E K L K E R D Y L P S T T F N H K A
UniRef90_A8HUJ3 R I A F M A S G T P E A E A A R A R L I Q R Y G D V S E D A A
UniRef90_K2KBV9 E A Q T A L R A L T D R Y G Q Q P A E Q A
UniRef90_O83455 H T I E Y D G L N K E S C A R A G Y P P E Q A
UniRef90_UPI00047D746D MA Y A F V A S E T S V A Q Q A R R K L V E R Y G E V P A I D A
UniRef90_I4VR11 MR F A F V A S D T S V A Q Q A R R K L V E R Y G D V P A I
UniRef90_X0UEY6
UniRef90_K7Z5Y5 MA L A F V A A N N E E A L L A Q K L L S E Q Y G N V V P T R A
UniRef90_E6RAX6
UniRef90_W4QE19 K I Y L F Y K K T N E M N T Y S E L F R S K A K E L N I P I V N H L E D A
UniRef90_Q6FZP8 S R F H F I S A E I E E A I K A T D K L I S I Y G H Y S L E E T
UniRef90_I7JFV3 K I W I V K N A Y K K T Q A L A S A L E A L C L E G G F I F D E E N P
UniRef90_UPI00039FF6E8 K I A F E A G E K P G A Q E A C E R L R E R Y D G C K A S D A
UniRef90_Q2G6U9 R L A L L A S P T D R A Q D A C E A L R K G R D W V P L E E A
UniRef90_A8JHP8
UniRef90_UPI0003B378B9 K I H F T A S Q A E A A L M A H E R L E A R Y G S V P L P E A
UniRef90_M0MAL2 G E T I D A N G V P V A E I A D R
UniRef90_M7YK75
UniRef90_D2UDX6 R I C F L A S A T P E A Q Q A H A Q L V A R Y G D C E P A V A
UniRef90_V4NPPY1 L K L A F V A S E R P E A L A A C A S L R A R Y G Q A D S P
UniRef90_V7EIT6 R I A F T A S P A P A A T E A L R V L T A R Y G Q V A V E R A
UniRef90_B0T3G2 A S D R P E A I E A R E R L I A R Y G D V G D E S A
UniRef90_A0A021W7M3 R I A F L A S H T D E A Q R A I L S A L I A Q H D Q H E P N D A

	50	60	70	80
UniRef90_UPI0003769325	D V I V A L	G G D G T F L	Q T L H R C R D	G T P I Y G M N R G S V G F L M N S F
UniRef90_F7V0C8	D L A V V L	G G D G T I L	R T A R Y V V S R V A P I L G I N T N G T H L	G F F L A N E A S
UniRef90_R6BAB3	D L A I A I	G G D G S F L	R M V N N F N S D I Y Y V G V I N T G T H L	G F F L Q E I R
UniRef90_R2QVE7	D L V I S V	G G D G T L L	S A F H R F S H R L D F L G V I N T G T H L	G F F Y T D W R
UniRef90_I2K1Y6				G F F L T N F K
UniRef90_C7LMC3	D L C F V L	G G D G T F L	Y A V H R K Y S D K L F P I K F F G G I	G F F Y T N K N
UniRef90_A1RSI2	S H V F I F	G G D G T L L	E A L R T R S C I L D S V V I H L L G	M G R V N F Y
UniRef90_F3A6I0	D Y V F A I	G G D G T V L	R T F S R K Y T D I L D F L S I H T G T H L	G F F Y T D Y S
UniRef90_R7A0L3	E L V L S V	G G D G T L L	R S F Q H E H L D H I S F V G L H T T G T H L	G F F Y T D Y T
UniRef90_K0DD36	D V V V T V	G G D G T L L	G A F Q A Y V D Q I D F V G L H T T G T H L	G F F Y T D W L
UniRef90_K1LIX5	D Y V L S I	G G D G T L L	G A F H A Y E D H V Q F L G L H T T G T H L	G F F Y T D W L
UniRef90_V6Q4V3	D I V L T I	G G D G T L L	S G F H R Y A H Q I K F L G L H T T G T H L	G F F Y T D W R
UniRef90_P65771	N V L I S I	G G D G A F L	K S V R E T Q D C L Y A G I A L T E Q L	G Q Y C D F H
UniRef90_UPI0003653958	E A A I V L	G G D G T I L	R A A E L L R G S C P I V G V N L G H V	G F L A E M E
UniRef90_V4JYD2	D R V I V I	G G D G T L L	R A A I K A G D N D V V M A V R A G K R G F L L	D V D
UniRef90_L0IBX1	T L G V T L	G G D G T F L	E G I K T F A R N V P M L G I D L G K T L S F L A R V D	
UniRef90_D5U2B6	Q L V V V V	G G D G T F L	K A S S V L Q E T S A I L P V H C G R R	G A F Y E T I
UniRef90_U4KPI3	E V V F S I	G G D G T V L	D V I E R Y Q N Q I L I V S L H T T G N L	G F Y T E F L
UniRef90_UPI0003073C89	D V V V S V	G G D G T L L	S A F H R Y R A E I R F V G L H T T G T H L	G F Y T D W R
UniRef90_A9A5D7	D L V V T L	G G D G T L L	R V F R N L E N E T P I L T I N V G G N R G I	L A E E S
UniRef90_C7N4T6	D M V V S L	G G D G T M L	H S A R L V G S H R V P I L L G V I S F G H L	G F L V N S S
UniRef90_Q9K808	N I I V S V	G G G N A F L	Q A T R E T V S D C L Y V V G V S T D R E	G F Y P D F T
UniRef90_E6VS89	D L V V V L	G G D G T F I	A V A R M L G L G V P F V G V N L G R V	G F L A Q L A
UniRef90_D7CIU7	E V V F V L	G G D G T V L	R A A R H F S R S A P I L G V N L G S K V	G F L S S V E
UniRef90_UPI0003822EE2	D V I V A L	G G D G F M L	Q T L H R F N S G K P I Y G M N R G T	V G F L M N E Y
UniRef90_R5Z486	D L I I S I	G G D G T M L	R S I H E Y L D Q L D F V G T H T G T L	G F L T D Y T
UniRef90_L9XTC5	D L V V S I	G G D G T L L	F V A R E V G S T P I L G V N L G E S V	G F L N A V A
UniRef90_C6JIV7				Y V I A I N A G S L G F L T A I K
UniRef90_M0L13	D F V V S I	G G D G T L L	F V A R E V G S T P I L G V N L G E S V	G F L N A V P
UniRef90_B5Y8M8	D V L V A I	G G D G T F L	R T A Q M F T F K K P F W S L G T G R L	N F L P N N V
UniRef90_A7HWM6	D V I V A L	G G D G L M L	Q T A H H M K R R I P I Y G M N R G S V	G F L M N E Y
UniRef90_V5SGI5	D A I V A L	G G D G L M L	A T L H R F N D R I P I Y G M N R G S V	G F L M N E Y
UniRef90_U1QCV1	D L G I S I	G G D G T F L	E G V R A F G P G I P L V G I N A G T L	S F L A R V G
UniRef90_X6L1M3	D V I V A L	G G D G F M L	Q T L H R T E D N P I V Y G M N R G T	V G F L M N E Y
UniRef90_B7RN14	D V I V A L	G G D G F M L	Q T L H S T Q A G L P V Y G M N R G T	V G F L M N E Y
UniRef90_UPI00037B15E1	D V L V A L	G G D G F M L	Q T L H A T E G D L P V Y G M N R G T	V G F L M N G Y
UniRef90_B9DS28	D L V I T I	G G D G M L L	S A F H H A Y E D Q L D F V G I H T G H L	G F Y T D Y R
UniRef90_E4KPD8	D Y I V T I	G G D G T L L	Q A F H Q F Q A Y L S F V G L H T G H L	G F Y T D W Q
UniRef90_X1BL52				
UniRef90_UPI0003FDF42D	D I T A S I	G A D G A F L	Q A I R K S D D C L Y I G I G V E D R N	H M Y V D F N
UniRef90_A0A024KJN6	E I V V A L	G G D G L M L	Q T L H V M S R S I P V Y G M N F G S V	G F L M N E F
UniRef90_UPI00036A5564	D L V I T I	G G D G M L L	S A F H M Y D D S V R F V G V H T T G H L	G F Y T D Y R
UniRef90_H3NHZ3	D Y I I T V	G G D G T L L	T A F H T Y Q D Q L A F I G V H T T G H L	G F Y T D W L
UniRef90_U1MXB4	A L G V S V	G G D G T F L	E G I R V F T R Q I P L V G V N A G T L	A F L A R I R
UniRef90_ROG312	T V V I T I	G G D G T L L	S A L Q K Y L P I I D F V G V H T T G H L	G F Y T D W R
UniRef90_D8MEV4	D I V V T V	G G D G T L L	G A F Q H Y V D Q V D F V G L H T T G H L	G F Y T D W L
UniRef90_M7SHA5				
UniRef90_L9WM90	E L V V S I	G G D G T L L	F V A R E V G G T P I L G V N L G E V G F L N A V D	
UniRef90_L8FXR6				
UniRef90_L0ACH3	T L G V T V	G G D G T F L	E G I K Q F S R N V P I L G V N T G T L A F L V R V D	
UniRef90_UPI00026CABF4	E L I V A L	G G D G F M L	Q T L H A A M K P V V P V F G M N L G E S V	G F L M N E W
UniRef90_UPI0003F66375	N I I V S I	G G D G A F L	Q A V R K T Q D C L Y T G I T R S G E S V G F L Y C	D F N
UniRef90_G5ZVJ4	D V I V V L	G G D G Q M L	Q A M R D I R H N L P L F G L N C G R I	G F L M N E Y
UniRef90_A0A013VD82	D M V I A L	G G D G Y M L	Q T L H A M R R I V P V F G M N L G T S V	G F L M N E W
UniRef90_Q8EPB4	S I I V S I	G G D G T F L	Q A V R K T Q D C L Y T G I M R E G Q S V G F L Y C	D F N
UniRef90_A3SSH7	E V I V A L	G G D G F M L	Q A L H D S Q E S T P V Y G M N R G T	I G F L M N A Y
UniRef90_UPI0001D2EFF6	D C I V A L	G G D G L M L	R T L H R F G A R K R V I Y G M N R G S V	G F L M N E Y
UniRef90_C3MAC5	D V I V A L	G G D G F M L	H T L H K M N S G K R V I Y G M N R G S V	G F L M N E Y
UniRef90_J9J7C3	D Y I I T I	G G D G T I L	R L L S K Y R N L P P I I T F S S G S L N Y L	G N F D
UniRef90_UPI0003810A00	D V L V T L	G G D G L M L	Q T L H R F M H A K P I Y G M N R G S V	G F L M N E Y
UniRef90_UPI00037BAFD9	E I V V A L	G G D G F M L	H V L H R F M D G K P I Y G M N K G T	V G F L M N E Y
UniRef90_C8WJ38	E M A V V L	G G D G T I L	R T A R Q I G S G V P I L G I N F G R L	G F L A N T G
UniRef90_G8PCS7	D V V I T I	G G D G T L L	S A V Q E Y L P R L D F V G V H T T G H L	G F Y T D W R
UniRef90_C6XLX3	D V V V A L	G G D G T L L	E A L H R F H D D L P V Y G M N R G S V	G F L M N D Y
UniRef90_F7ZIF7	D V I V A L	G G D G F M L	Q T L H A T Q D H P V V Y G M N R G T	I G F L M N A Y
UniRef90_UPI0003674E81	D A I I V A	G G D G T L L	K Y V K Y G I P V L G I T K F G R R S K L	L E V E
UniRef90_E1L1M1	N L V V A L	G G D G T L L	R A A H I V G Y T V P L M G L S Y G H L	G F L T C A G
UniRef90_UPI00040A8D15	N I I A I	G G D G T F L	Q A V R K T G F R D D V L Y T G I T T Y C	D F N L D Q
UniRef90_A8AXJ8	D I V I S V	G G D G M L L	S V F H K Y E K Q L D F V G V H T T G H L	G F Y T D Y R
UniRef90_U7UMB0	E L T I C I	G G D G A F L	K S I H N N N P Q M P I V G I N T G H L	G F Y Q E I L
UniRef90_A8HUJ3	D V I V A L	G G D G L M L	Q T L H H F R D G V P I Y G M H R G S I	G F L M N T Y
UniRef90_K2KBV9	D L V V A L	G G D G F M L	E T L H R F R D G I P I Y G M N R G S I	G F L M N E Y
UniRef90_O83455	M F A V S I	G G D G T L L	F A R C A S P G I P I A G N L G R F	G F I A P I E
UniRef90_UPI00047D746D	Q A I V A L	G G D G F M L	R T L H H L P L A I P V Y G M K L G R	V G F L M N K H
UniRef90_I4VR11	E V I V A L	G G D G F M L	R T L H A H R A E I P V Y G M K L G R	V G F L M N K H
UniRef90_X0UEY6				
UniRef90_K7Z5Y5	D L I I A L	G G D G Y M L	E T I R A T S T C K P I Y G M N C G T I	G F L M N K F
UniRef90_E6RAX6				
UniRef90_W4QE19	T I T A S I	G G D N A F L	Q A A Q K T N F S P Y I G I T P D L T T	G F Y T D F T
UniRef90_Q6FZP8	D V V V A I	G G D G T M L	Q T V R N V M N G K P I Y G M N Q G S V	G F L M N E F
UniRef90_I7JFV3	E I I I S V	G G D G T L L	A A L H Y Y E T Q L E F I G V H T T G H L	G F Y A D F Q
UniRef90_UPI00039FF6E8	D V I V A M	G G D G F M L	E M L H M G E D R P V F G M N R G S V	G F L M N E Y
UniRef90_Q2G6U9	D A A V V I	G G D G F M L	Q T L H T M D H I V P A F G L N L G T	V G F L M N K Y
UniRef90_A8JHP8				
UniRef90_UPI0003B378B9	D V V V A L	G G D G F M L	Q T L H A M G R N L P V Y G M N R G T	V G F L M N N F
UniRef90_M0MAL2	D L A V S I	G G D G T L L	F V A R E I I G S T P L V G V N L G E V	G F L N A V S
UniRef90_M7YK75				
UniRef90_D2UDX6	D V L C A L	G G D G F M L	Q T L H R H G G S K P V F G M K L G T	V G F L M N H F
UniRef90_V4NPPY1	D V V V A L	G G D G W L L	E T V H Y F R D G L P I F G M N R G S V	G F L L N H Y
UniRef90_V7EIT6	D I V V A L	G G D G F M L	Q T L H E T A T G L P V Y G M N C G T I	G F L M N A Y
UniRef90_B0T3G2	Q V I V A L	G G D G F M L	E T L H T M E R Q T P I Y G M N R G S I	G F L M N E Y
UniRef90_A0A021W7M3	D V L V A L	G G D G F M L	Q T L H R H G A G K P V Y G M K L G T	V G F L M N Q Y

UniRef90_UPI0003769325 REEDLPARLAAASQRVVIHP LMMMEATD KGRQH RRAWNEVSL
UniRef90_F7V0C8 DAGVVAIVAAALFDEEPADDDALSSK GARSRFFALNEVAV
UniRef90_R6BAB3 PEKLEEEFNFKLV DNIGSTLETKITTEDSVSRH FSLNEVLT
UniRef90_R2QVE7 DYELEELVQSLV HQEQGSLSY PLLDVVKISFHNKPKDKHFT
UniRef90_I2K1Y6 FEDFRQTLTTRAIKHGVKTNLRMRFT CRVHDSHV LNELTVD
UniRef90_C7LMC3 RDDDKYKIDLNKLI EQPNITELGLTJEVNYDDQKVVAYALNEIK
UniRef90_A1RSI2 RSSDYTTISPDEAIRRVVEGMGNRYRI LEFSTEDCVV LNEFLVY
UniRef90_F3A6I0 AKDFEKIFSDMLPKVVEQYPLLRRLKAYCKDGGKLIADSYSLN
UniRef90_R7A0L3 DKEIDDAFIVDI RQDDEYNTIEKAPLFSSPQKEELFYALNEV
UniRef90_K0DD36 SAEILDQQLVYSLLAHHDNYP LLDMDTVLVDSDSGEQYHFLALNEAA
UniRef90_K1LIX5 PDEFDRMIDSLVQNRMKETSYPLLEVKLYFQDQTIERRVVA
UniRef90_V6Q4V3 DFELEELVDSALLHEEQKDV ETVLADDETQEKHF LALNEVCI
UniRef90_P65771 INQLDEELIKASAIRWLVRVYPTIYGTVNNTKAFYV LNEFNI
UniRef90_UPI0003653958 NYDLAETIDRVLRRYTVVEERM TVDVQATCDGGEVIAETWAL
UniRef90_V4JYD2 ETELESKRVPDEFLEIVEHQRI RAEVEGAA TPCLANDIVVF
UniRef90_L0IBX1 PSDMEAAALDEAIRGRVDSRQQQLAIEAPGLDITGINDVMI E
UniRef90_D5U2B6 SKPSEIVEEVLKFI VQYYPRLRA CRGSD CRV FVNEAVT
UniRef90_U4KPI3 PNELDDEMFKSLKEEKSYVNYLLEYEVND LKGYALNEIT
UniRef90_UPI0003073C89 DYEITDQQLVNSLAHHDNYSVYPLLDINLITYPHGFALNEAT
UniRef90_A9A5D7 IDDALNQIQKDKFFLDKRTRVVVASCGGKEFP PAFALNEIFIN
UniRef90_C7N4T6 EDGVVPIVAAALRANLHITDLINYYDDEVTA SRFALNEAVT
UniRef90_K0K808 INQMF EAFENQNL EAVKRLSTLEVTIDDEKPFYCLNECSI
UniRef90_E6VS89 RDRWK PWLQAATGNQVSRYS DVVRGGGVVHSGLAVNDIVVG
UniRef90_D7CIU7 PEEV MARQEVYVLEERELMLLQAVVINKKALRLRAV LNDVVI
UniRef90_UPI0003822EE2 REDSLRERIALAAALPSTLHP LRMHDA TGNENHRAFA LNEVSL
UniRef90_R5Z486 KQETHLFLHFNKKPQLIEEFP LLEITLP EKKETFFYAFNEIR
UniRef90_L9XTC5 PADDLVITDLDRTGTVEEGRELSRLQATG VDGDWTLNEI VHS
UniRef90_C6JIV7 KEKVFEEYDNLFNKYEGRHLLEIKIN HKKYALNEI VHS
UniRef90_M0L13 PGDA PDVITDLAARLQETGRATGRGSDWTLE PALNEISVH
UniRef90_B5Y8M8 RDDDFEEGDLVEVEYLCAVYRWL LGEKDVSSRSGFFLNDLVVA
UniRef90_A7HWM6 RDDNLTERLAAAE CATTIHP LRMRAADGSCHEALAI NEVAL
UniRef90_V5SGI5 REDDLLERLAAAE MSRVHP LLSMVDAGGKASKALAI NEVSL
UniRef90_U1QCV1 PRDMDAALT EVLGRVH DRQQHLH ASGAGL DATGVNDVMIQ
UniRef90_X6L1M3 SEHGLPERLQSAEEAVIN PLAMLC T DGSERHALAI NEVSL
UniRef90_B7RN14 AADDLVEERLNAEEAVIN PLVMKATHTDGRSSMALNEVSL
UniRef90_UPI00037B15E1 AEDDLPERVADAEYALLNPLAMRATGDDEVHEG LALNEVSL
UniRef90_B9DS28 DFEIDELVENKVISYPL LKVVITLDSGRVITARALNEATIK
UniRef90_E4KPD8 PQQMDELILQFLSQPKYPL LQVITLRYKDGKKE SLLALNEFT
UniRef90_X1BL52 CNYALNDVVTIS
UniRef90_UPI0003FDF42D YHEIREVFETMNFETRQYPI ILEVKNVNDNQ PNYCLNEFTIR
UniRef90_A0A024KJN6 GNDHLRERLEEARPTKIYPL S MRDMDGK VHSALALNEVSL
UniRef90_UPI00036A5564 DFEVDELLNQLKIAJYPL LKVTTLLEDGRQFTSKALNEATIK
UniRef90_H3NHZ3 GDEMDLLNQIGLIDNDEEGIT ETVTLKGNQSLHYLALNEFTILR
UniRef90_U1MXB4 PGD VDDAMTEV LNHGVYDRQQVEVSGAGLDA VGVNDVMI E
UniRef90_ROG312 DYE LDDLVKAKSDG CSEITGYPL LNI DVTHTDGT KANYKAI
UniRef90_D8MEV4 STELDELVNSLVNDNSQSV DMTVVYDSGEHYHFLALNEAA
UniRef90_M7SHA5 P DVVESEVRADGAVDGRRLDR LRAEGEGWSLE PALNEV VVH
UniRef90_L9WM90 YE LNDIVVD
UniRef90_L8FXR6 VDDLEAALTEVVQGRATVID ERQQVA VEA NEATGINDV MVK
UniRef90_L0ACH3 RQHGLDARLERVKPFKVVPL LAMTAT T MGGESFALINEVSL
UniRef90_UPI00026CABF4 VDEMLKTIQYEVEMVRRFV PINAE L NGETSFYCLNEISVR
UniRef90_UPI0003F66375 GDDALPERIIAADR AELHP LQMTTITGETHEALAMNEVAL
UniRef90_G5ZVJ4 RLERLDQRLDKAKSFKVHP LRMVTV DGEQFSPALINEVSL
UniRef90_A0A013VD82 IDNFDNMIH SVLHHD RRFPTIKVQI NGETFSYCLNEVSI R
UniRef90_Q8EPB4 AEE DLVDRLRAEEAVIN PLVMV HANGETS KALALNEVSL
UniRef90_A3SSH7 REANLKRRIAGAKPSL IHP LRLRATNT HGD EFAI NEVSL
UniRef90_UPI0001D2EFF6 STEDLRERIASAVDN AFIHP LEMRTVDVTGNFAI NEVSL
UniRef90_C3MAC5 IKEMNQVLDAAIFKIE LDPRMRQLNI IKSNVDQLEIQTI
UniRef90_J9J7C3 QEE DLKARLEAAEPSV VHP LVMTTT DGHTERANAI NEVAL
UniRef90_UPI0003810A00 RELDLADRLEKAVQS ELRPLQMI D DVGMRHTALAI NEVAL
UniRef90_UPI00037BAFD9 DEDVLC EGE PD PWGDDDEAAAH D VDDP ARTFFALNEAVT
UniRef90_C8WJ38 DYE LTLGLVJELVRLDQEEVGY PMLDINVKYADGSI SKFYAV
UniRef90_G8PCS7 SDDNLJERAVRALRH P L IJMKA T LMSGEEVYVYRAI NEVSLI
UniRef90_C6XLX3 AESDLPARLADAEE E VIN PLAMI CADGSTTKALAI NEVSL
UniRef90_F7ZIF7 PEEGEHALRRLTKDYVIDEYPL LEVEEMRGEKFLAFNEVAL
UniRef90_UPI0003674E81 PNHKDLV MRALAGELHTYIDNRGEEQTVHAFALNDFALS
UniRef90_E1L1M1 FDE MIDSMQHAPLEVRRFP T IEMNVN HESSFLCLNEMSLR
UniRef90_UPI00040A8D15 DFEIDKLDNGAQKVSYP LNVRI FLEDG SVKTKLALNEAT
UniRef90_A8AXJ8 PDQIDLWFLDQYEKSDYEIE DLKLVKGDITKNRVINLTVL
UniRef90_U7UMB0 REDDLRARLANATHVVIHP LMMEA V DGVRYSA PAI NEVSL
UniRef90_A8HUJ3 AEE DLAAARLARAEVTLHP LRMATADGQVHEALAI NEVSL
UniRef90_K2KBV9 PRY WQAARLDYERAVLISCTVTTRAGKEIASCLALNDV VLS
UniRef90_O83455 R I DDLPGRIARAHA AVLYPLEMDVVCA KGEK H HAFNEVSL
UniRef90_UPI00047D746D RL DGLPERILDR AHTAVLYPL DMRDAKGNVHQALAFNEVSL
UniRef90_I4VR11 QNNNL I IERLHKAKK PVILLHP LRMHAT CRNRVEMLAI NEVSM
UniRef90_X0UEY6 QF EYV LNEVVD
UniRef90_K7Z5Y5 MNDLDLAFQMM SKEHRSNP I LQVVI NDET P FVCLNECTIR
UniRef90_E6RAX6 HEK KLPNRI AVA H KKEIHP LRMIAE CQETIEALAI NEVSL
UniRef90_W4QE19 EHELEQVVEQNEKPEEAFKYQLLKVQIHFTHLALNEVSIK
UniRef90_Q6FZP8 REDGLIERLEAAEPA C IHP LLSMKRVNGEKFEALAI NEVSM
UniRef90_UPI00039FF6E8 RSEERLJAKATRAJAVS PLRMTATNTGETIQSFCAI NEVSI L
UniRef90_Q2G6U9 WVVLNEVVID
UniRef90_A8JHP8 SEEGLERLAAAEETVIN PLRMR CGDGI CHEELAI NEVSL
UniRef90_UPI0003B378B9 PADADGVVTDLVRELRDAGSLEARVADWTLE PALNEV VVH
UniRef90_M0MAL2 RNRLLQCHVIRDAAKDELVTEEPILV LNEVTD
UniRef90_M7YK75 RAE D FVARLSLAEPAKLRPLEMLA HTESGATTGSLNEVSL
UniRef90_D2UDX6 EEDGLIERIENAE RTLISPLH MRTGDGGEVHEALAFNEVSL
UniRef90_V4NPPY1 QPGDLPARLAAAEAVLNPLRMR AVGV DGTGHS LNEVSLI
UniRef90_V7EIT6 SEDDLPARLAAAEAVLHP LAMVAI DSNRKGHRAI NEVSL
UniRef90_B0T3G2 ADGAGDLFERLAAAEPAVLRPLEMVAQTESGATFGNEVSL
UniRef90_A0A021W7M3

UniRef90_UPI0003769325 130 140 150 160
UniRef90_F7V0C8
UniRef90_R6BAB3
UniRef90_R2QVE7
UniRef90_I2K1Y6
UniRef90_C7LMC3
UniRef90_A1RSI2
UniRef90_F3A6I0
UniRef90_R7A0L3
UniRef90_K0DD36
UniRef90_K1LIX5
UniRef90_V6Q4V3
UniRef90_P65771
UniRef90_UPI0003653958
UniRef90_V4JYD2
UniRef90_L0IBX1
UniRef90_D5U2B6
UniRef90_U4KPI3
UniRef90_UPI0003073C89
UniRef90_A9A5D7
UniRef90_C7N4T6
UniRef90_SNEV808
UniRef90_E6VS89
UniRef90_D7CIU7
UniRef90_UPI0003822EE2
UniRef90_R5Z486
UniRef90_L9XTC5
UniRef90_C6JIV7
UniRef90_M0L113
UniRef90_B5Y8M8
UniRef90_A7HWM6
UniRef90_V5SGI5
UniRef90_U1QCV1
UniRef90_X6L1M3
UniRef90_B7RN14
UniRef90_UPI00037B15E1
UniRef90_B9DS28
UniRef90_E4KPD8
UniRef90_X1BL52
UniRef90_UPI0003FDF42D
UniRef90_A0A024KJN6
UniRef90_UPI00036A5564
UniRef90_H3NHZ3
UniRef90_U1MXB4
UniRef90_ROG312
UniRef90_D8MEV4
UniRef90_M7SHA5
UniRef90_L9WM90
UniRef90_L8FXR6
UniRef90_L0ACH3
UniRef90_UPI00026CABF4
UniRef90_UPI0003F66375
UniRef90_G5ZVJ4
UniRef90_A0A013VD82
UniRef90_Q8EPB4
UniRef90_A3SSH7
UniRef90_UPI0001D2EFF6
UniRef90_C3MAC5
UniRef90_J9J7C3
UniRef90_UPI0003810A00
UniRef90_UPI00037BAFD9
UniRef90_C8WJ38
UniRef90_G8PCS7
UniRef90_C6XLX3
UniRef90_F7ZIF7
UniRef90_UPI0003674E81
UniRef90_E1L1M1
UniRef90_UPI00040A8D15
UniRef90_A8AXJ8
UniRef90_U7UMB0
UniRef90_A8HUJ3
UniRef90_K2KBV9
UniRef90_O83455
UniRef90_UPI00047D746D
UniRef90_I4VR11
UniRef90_X0UEY6
UniRef90_K7Z5Y5
UniRef90_E6RAX6
UniRef90_W4QE19
UniRef90_Q6FZP8
UniRef90_I7JFV3
UniRef90_UPI00039FF6E8
UniRef90_Q2G6U9
UniRef90_A8JHP8
UniRef90_UPI0003B378B9
UniRef90_M0MAL2
UniRef90_M7YK75
UniRef90_D2UDX6
UniRef90_V4NPPY1
UniRef90_V7EIT6
UniRef90_B0T3G2
UniRef90_A0A021W7M3

UniRef90_UPI0003769325 S A Q G G P I L V P L G T P L L A V T P I 170 S A F T R R R W R G A L V P 190 P D R A R V D I 200
UniRef90_F7V0C8 S A G G P L V A P G Y R T G L V V T P L I A P H T R L Q Q R S A L V T E E Q H D H I V D I A S
UniRef90_R6BAB3 S F H G A V L I Y N T S L H T N A F Q L Q I T A E I A A S P F R T N L L G S T S I V I P A H K K E H I V V D I S
UniRef90_R2QVE7 S S G G G L V L H P N V S T I T C V T A T E I L C P F H T L S F R P I L L E A D D S M T L R V L Q K
UniRef90_I2K1Y6 S A G G S L V I H P N V S T I T C V T A T E I L C P F H T L S F R P I L L E A D D S M T L R V L Q K
UniRef90_C7LMC3 S A N G G A V I Y D Y R A N S L F E M V I Q S E I L M P F F T L Y L N A P I L V F S S D A S N S H L T I E T
UniRef90_A1RSI2 S T F G P V I V D Y R A N S L F E M V I Q S E I L M P F F T L Y L N A P I L V F S S D A S N S H L T I E T
UniRef90_F3A6I0 S L G G A V I H P Q M D L Y Q I L T E I L A A Y F R T L G N S P I L V L S S K S D E D E L I I K
UniRef90_R7A0L3 A L Q G A V I D S G L N V L Q L L C E I L M S P F H H T L R S P Y I M K P A G D Q E I L V K K
UniRef90_K0DD36 S N G G A V L H P Q L P A I L Q M S E I L A S F F R T L G S P Y I M K P A G D Q E I L V K K
UniRef90_K1LIX5 S L G G A V L H P C V E A I L Q M T E I L M A S F F R T L A S P I L V L P K G Q E W L D L Y
UniRef90_V6Q4V3 S V G G A V L H P R I N A S L Q M Q V S E I L A S F F R T L G S P I L V L A G P K R K W L D R I R
UniRef90_P65771 S V N G S I V D P L P L N S M Q V S E I L A S F F R T L G S P I L V L A G P K R K W L D R I R
UniRef90_UPI0003653958 S A G G P V V W P T V Q A M L M V P I L A A H A L F D R P L V T G T D S E L L S T I R R
UniRef90_V4JYD2 N A N G P I L D P R L D V I T P L N Q T P V Q L G L R R P V V M S S P R S T S E Q I L T I V R
UniRef90_L0IBX1 S A N G P L H Y P N N Y A L Q L I P L N P M Q L N L P S I V V C P S S A S T R V R V S
UniRef90_D5U2B6 S A G G P L V D A W N S L M I I T P L N P M Q L N L P S I V V C P S S A S T R V R V S
UniRef90_U4KPI3 A L G G A V I D N K I L K A I L Q L N E I A S P F F T A G N S P I V V L S G D A H E F V I K R
UniRef90_UPI0003073C89 S L G G A V I H P Q L P A I L Q M S E I L A S F F R T L G A S F I I S G K P A G D Q E W L D L Y
UniRef90_A9A5D7 S L G G P I L H E S L D V L I T T P V A S P Y R T L E S I I V V P D S D D L V E I I S E
UniRef90_C7N4T6 S A G G P L V S P R L K G L I V V I L A S P H T L L S R T S F L L T D S G D D L V E I I S E
UniRef90_Q9K808 S V R G A V L P P L F P S L Q V S E I A S Y R T L G T S F L L T D S G D D L V E I I S E
UniRef90_E6VS89 S A G G P L V H A D L F A Y C V T A V C P F L S G S F K S P M V L P A D T G S E L C A V R
UniRef90_D7CIU7 S A G G P I L S A S V A A T V I T P I S A F R R H W R G A L V P G A D H I T V S L G F V
UniRef90_UPI0003822EE2 S A H G P I L P L H A P L L A L T E I L S A F R R H W R G A L V P G A D H I T V S L G F V
UniRef90_R5Z486 A L S G A V V D S G L Q V M Q L S E I L M P H H S L K N P Y I M R K D R E I M V L E Q T
UniRef90_L9XTC5 S E G G P L L H P T N A D A L I V T Q L M A A P H N T E A M P P I V V E S G D D T E V L T Q
UniRef90_C6JIV7 S A G G P I L K S N M K A I I V T P L A A P H N T E A M P P I V V E S G D D T E V L T Q
UniRef90_M0L13 S E G G P L L R P D T D S L V V T Q L M A A A Q D A M P S L V V D A E D S E I K V L S Q
UniRef90_B5Y8M8 S A G G P V M D R G V R G F C V T P L N A H Q R T N L R L I V P S E D E R A Q L R G V Q
UniRef90_A7HWM6 S A Q G P I V P I D A A L L A L T P I S P F F R R R W R G A L L P S H H R A Q I S I V S
UniRef90_V5SGI5 S A Y G P I L P I D A A L L A L T P I S P F F R R R W R G A L L P S H H R A Q I S I V S
UniRef90_U1QCV1 S A N G P V H F P N D N L Q I T P L A Q T H T M G V R G A L V P S N K Q S A E V S F V
UniRef90_X6L1M3 S A H G P I L P I G S D A M A L T A V A A F R R R W R G A L L P K R A E T V V R L E E
UniRef90_B7RN14 S A H G P I L P I G S D A M A L T A V A A F R R R W R G A L L P K R A E T V V R L E E
UniRef90_UPI00037B15E1 S A H G P I L P I G S D A M A L T A V A A F R R R W R G A L L P K R A E T V V R L E E
UniRef90_B9DS28 S L G G A I L H P T I E A L Q L T E I L S S F R T L G S L I I P K K A D T I E I V
UniRef90_E4KPD8 S L G G A V I H P R L D A L Q M T E M A S Y R T L S G P I I I A K E D E W I E K L I
UniRef90_X1BL52 S T G G P V V D P L V K G V V L S P I C A H T L A V R P L V I P S E R D E I D V I
UniRef90_UPI0003FDF42D S L G G A V I P L N V K A M Q V T E L G S H R T L G T S F L L P S K K R P I T L V
UniRef90_A0A024KJN6 S A H G P I L P I S A P L L A L T E I L S P F R R R W R G A I L P N T A V V T F R
UniRef90_UPI00036A5564 S L G G A I L H P T I E A L Q L T E I L S S F R T L G S P I I L P K K D D K I E I I
UniRef90_H3NHZ3 S V G G A V L H P T I E A L Q M T E I L S S Y R S L A S P I I L P K K D D K I E I I
UniRef90_U1MXB4 S S N G P I H Y P K D N T L Q L T P L Q T H T M G A R P V V V S E D D S T V T T L V
UniRef90_ROG312 S V G G A I V H P Q L S A M Q M A S E I A S F R T V G A L L V A P Q N E T V T I R
UniRef90_D8MEV4 A N G G A V L H P S L S A I Q M S E I A S F R T L G S P I L V P Q G Q E I I M K
UniRef90_M7SHA5 A G G S L C H P E N P V M L V T S L C P H T L S F R P I I L P D T I V L R I G S
UniRef90_L9WM90 G E S G P L V R P P G A D A L I V N Q M A A P H N T E A M P P I V V D R D T A E I E L S V
UniRef90_L8FXR6 A A G G S L C H P E N P V I L L T A I C A H T L S F R P I I L P D D T I V L R V G
UniRef90_L0ACH3 S A N G P H N P T N N S C L Q I V I L H T H R M G V R P L I V S E N T E I R I C
UniRef90_UPI00026CABF4 S A Q G P I L P L G S N M L A L T E I L S S F R R R W R G A I L P D D K A R I T L L R S
UniRef90_UPI0003F66375 S T N G A V I D P K I P C F Q V T E L A S Y R T L G S S F V L N S D K A R K L T L S
UniRef90_G5ZVJ4 S A H G P I L P I G A E L L A L T P I S A F R R R W R G A L L P A K S R V H I L E
UniRef90_A0A013VD82 S A H G P I L P L G S G L G V A L T P I S P F R R R W R G A I L P E N T V I R E F T
UniRef90_Q8EPB4 S A R G A V I D P L I H G V Q V S E V A S Y R T L G S S F L L P N E T D R K L E D
UniRef90_A3SSH7 S A H G P I L P I G A D V L A L T A M A A F R R R W R G A L L P K T V T V R F D
UniRef90_UPI0001D2EFF6 S A N G P I L P L D A P L M A L T P I S A F R R R W R G A L L P D V A K V R I E E
UniRef90_C3MAC5 S A H G P I L P L E A P L L A L T P V S P F R R R W R G A L L P N R V T V E I E
UniRef90_J9J7C3 C G G P I V H P S A Q I L C M T P I A P H S L S F R P V I L P A N E E V E I K
UniRef90_UPI0003810A00 S V G G P I L P L D A T L M P L T P I S A F R R R W H G A L L A N R Q A H V I D E
UniRef90_UPI00037BAFD9 S A Q G P I L P L E A P L L A L T P V S A F R R R W R G A L L A N R Q A H V I D E
UniRef90_C8WJ38 S A G G P L V A P G F N G L V A V P L A P H T L H S R A I V T A A N D V V E M D
UniRef90_G8PCS7 S V G G A V I H P R L E V L Q M A T E I A S F K T V G A S L I M A H N E T V T I F R
UniRef90_C6XLX3 S A H G P I L P I R S N L L A L T E I L S P F R R R W R G A L L R H D A I V R F E
UniRef90_F7ZIF7 S A H G P I L P I G S A V L A L T A M S A F R R R W R G A L L P Q D A T V R F D
UniRef90_UPI0003674E81 S A T G V I V H K N V D S M E L I L M N P L S L G L K A V I L P P V E L A V R
UniRef90_E1L1M1 S A G G P I V T P H F Y G M V C V P V E L A P H T I M A R A F I L S P S D V V E L R
UniRef90_UPI00040A8D15 S S R G A V V D P K L P C F Q V T E L A S Y R T L G S S F I L S G G E R D K I E I R
UniRef90_A8AXJ8 S L G G A V L H P T I E A L Q L A E V I A S Y R T L G S S I V P K G D K I E I R
UniRef90_U7UMB0 S T G S I V Y P T I N V L Q M T E I A S P Y R S L L H S I V P K G D H V I S L V
UniRef90_A8HUJ3 S A H G P I L P L G A A L L A L T P I S P F R R R W R G A L V P D R A T I Q I E
UniRef90_K2KBV9 S A H G P I L P L G A N L L A L T P I S A F R R R W R G A L L P S Q S G A T V R T F T
UniRef90_O83455 A C G G P I L P D L D A F V L T P I S A L C L S N R P V V V P S G S V R I K
UniRef90_UPI00047D746D S A H G P I L P L D A N V L A L T P I S P F R R R W R G A I L P H R T Q V S L R
UniRef90_I4VR11 S A H G P I L P L D A N V L A L T P I S P F R R R W R G A I L P H R T Q V S L R
UniRef90_X0UEY6 S A G G P L L P G I H A I V L T P I C P H V L T Q R P I V L P Q S S Q V E I R
UniRef90_K7Z5Y5 S A H G P I L P L G A N V L A L T P I S A F R R R L R S A L L S R E A I I R F E
UniRef90_E6RAX6 S A G G S L T S P Q T S N I L S I C P H T L S F R P V V L E N D S I D I R V C
UniRef90_W4QE19 S V R G A I L D P T L S I Q V S E I A S Y R T L G T S F V L E A D S D R T L T L K
UniRef90_Q6FZP8 S A Q G P I L P L M A P L M A L T E V S P F R R R W H G A L L P N T A I V R F D
UniRef90_I7JFV3 S L G G A V M H P R V H A F Q V T E V A S Y R T L G A P M I L A E K D A S V T I F E
UniRef90_UPI00039FF6E8 S A H G P I L P I R S N V L A L T P I S A F R R R W R G A I L P H G A S V R F E
UniRef90_Q2G6U9 S A N G P I L P L S S N M L A L T P I S P F R R R W R G A L L P E T Y E I V F K
UniRef90_A8JHP8 A A G G S M V H P Q V P G I L F T P I C P H S L S F R P I L E P K Y V Q L C V Q
UniRef90_UPI0003B378B9 S A H G P I L P I G S E V L A L T A I A P F R R R W R G A L I P D K A R V T V E
UniRef90_M0MAL2 S E G G P L V R P A A D S L V T Q M A A A D G L P S L V V D A D T E I L S
UniRef90_M7YK75 A A G G S M V H P Q V P G I L F T P I C P H S L S F R P I L I P E Y D T L R I Q
UniRef90_D2UDX6 S A H G P I L P L G S H T L A L T P I A P Y R R R W R G A I L K A V T E V R F E
UniRef90_V4NPP1 S A H G P I L P L T A Q A L A L T P I A S A F R R R W R G A I L P H T A E V R F E
UniRef90_V7EIT6 S A H G P I L P I G A D V L A L T A M A A F R R R W R G A L L P K T S A V R F F E
UniRef90_B0T3G2 S A H G P I L P I G A Q V L A L T A I A S A F R R R W R G A L L P Q T A V V T F F E
UniRef90_A0A021W7M3 S A H G P I L P L G S A V I A L T P I A A F R R R W R G A L L K A D T E V R F F

UniRef90_UPI0003769325 V R P V N A T A D H F E V R D V V A V R 210 220 230 240
UniRef90_F7V0C8 R S E T T I F V D G E A L J A L D E R I I V R R G E R P T R L L R Y Q S F Y
UniRef90_R6BAB3 P N D L I T I F D G N K K Y E N V K K I E C F V K N K K I K F L R M K D Y
UniRef90_R2QVE7 S N D Y L I T V D G Q L E D I Y Y R I A D E R I H F A A D E R I H F A S Y R H M H
UniRef90_I2K1Y6 V P H A W A S F D G R E I E L G Y Y V S V S A S Q Y P F P T V R S S K Y F D S
UniRef90_C7LMC3 L E D V T L S A D T Y E R Q F K N K E L L I K L S R K K I K L L N L N K D K F N
UniRef90_A1RSI2 A E E A V L V C D G R E R R R K G K S F E I R R R G K K L K L A V F G E F L N R
UniRef90_F3A6I0 P D N H R I S V D F R T N Y D T V S K L Y I T L A D K K I S F I R Y N D V S
UniRef90_R7A0L3 G E D L S L A H A G Y D H L E T D S E I M L S T S D K Y V R F A R Y R K Y S
UniRef90_K0DD36 P S N R F L V M Y D Q S D I H E I T E L R F K V A Q Q V H F A A Y R H V D
UniRef90_K1LIX5 P Q E A F L S I D H R D H C Q I E R L R L Q M A Q E R V H F V
UniRef90_V6Q4V3 L A N D Y L L T L D S E L S F P Q S A S I R Y K T A D E R I H F A S Y R H T H
UniRef90_P65771 I A S P M I G M D S E A S I Q H V H E V N L E V G D R F I N I I K L P K N S
UniRef90_UPI0003653958 I G P G V M W C D G R R R T E L G S I V R V R R S A H S V R L A R L N R F S D R
UniRef90_V4JYD2 L R E A Y L V I D G G H T L R P G A L V S V G P C P R P L R V A R F N S Y Y E R
UniRef90_L0IBX1 P D E T S L T V D G H S T V L D P T D D V L I T G A D T R A H I V R T S Y F F T A
UniRef90_D5U2B6 C R G F S M F I D G E R T A T L G E E V I V S G S N S V L R V I R F K P R R D I
UniRef90_U4KPI3 P D E K H L S F D R R I S L E N V S I K V R L S Q V C V K F L K N E K H
UniRef90_UPI0003073C89 S E D A A I S C D A Q V L T P L V S K E I T F K V S Q O R I Y F A E Y R H T A
UniRef90_A9A5D7 S H D C N I V M D A Q V V K S A G E P I T I K K Y K K P A V F I R L K K R G L R
UniRef90_C7N4T6 T R E A S L F V D G E L I V P D E K R V L V R K S N N P T V V L R Y K S
UniRef90_Q9K808 V D F P L I G A D N E A S I R H A E D I K I R L S D K Q V K V L K L K D N T
UniRef90_E6VS89 V E D A T L T E D G Q A S L E T G D E V R V G R S P S D L L V V D M G P R A
UniRef90_D7CIU7 V D K T T L S I D G E E T L F L K D K I L V E R A S E V A R F V Q L L F P Q L T K
UniRef90_UPI0003822EE2 V R P V N A V A D H T E L K S V L K I A I K Q D R R A K S L I L F D P G H S
UniRef90_R5Z486 G D T I R Y T M D H S R S F Q D V N Q I L I R T S Q K K V R F A R Y R T Y S
UniRef90_L9XTC5 V E D T A Y A I S D G R N R L E P P A A V S V S L A S E S V T L A G P Q A N F F D
UniRef90_C6JIV7 L E D G Q I V V D G Q V S T K V N S E I D I E Y S S M T L N L V K D R N Y S V
UniRef90_M0L113 I S E A Y A I S D G R N R L E P P A T V S V S L A D D P V R L V G P E A D F F G
UniRef90_B5Y8M8 V I E A V A V A D G S T S C Q L P V I S I R I W S S G E V V K H L I N R D F Y E R
UniRef90_A7HWM6 I L J E A
UniRef90_V5SGI5 A R P V S A V A D A N E M R N V V R V D I E Q A R
UniRef90_U1QCV1 P D N P V V S V D G G R H Y T K D D V L R V T G A D Q P A Y I V R D N A F V S A
UniRef90_X6L1M3 V R P V M A E A D G N S V R N V A Q V H I R S E P R V A H R V L F D P
UniRef90_B7RN14 P E K R P V M A D A D G I S H R D V V S V E I T S D P
UniRef90_UPI00037B15E1 V L D A E V M A D A D R S V K F V R R V R S E P A V A H R L L F D P
UniRef90_B9DS28 P Q R T T I S V D N K T Y N V K N V V K A E L D S K K I N F V S T P S H T S
UniRef90_E4KPD8 P T A F S L S V D H L H Y E D K I R V Q I A Q E R I A F A S F K H L H
UniRef90_X1BL52 V E K T L L T L D G Q V V Y D L E D I R V K K A S S Q A T L I R L K E F F R M
UniRef90_UPI0003FDF42D I D N P L I M S M D N E A S V Q N T E K I S V K L S D H S I N T I K L T N N T
UniRef90_A0A024KJN6 T R E A S A V A D N V E F K S V V E V T V
UniRef90_UPI00036A5564 P K R Y F L S I D N K T Y T H R N A K I E Y E L D K K K I N F V A T P S H T S
UniRef90_H3NHZ3 P A D S M F S I D N R F F D V V E Q V R L Q M S Q Q R I H F A S F R H
UniRef90_U1MXB4 P E S P V I S V D G H T T A E E G D V L T I T G A A D R A H I V R
UniRef90_ROG312 P R T Y N F T A D R L G S D I L D K N Q S V H Y G I A V P K V K F L K Y R H T G
UniRef90_D8MEV4 P S D H F L V M Y D Q S D I D K V K S E L R F R V A D K Q V H F A A Y R H V D
UniRef90_M7SHA5 V P N S W A S F D G R E I E L G D Y V T I S A S R F P F A S V I Q P H D W V N S
UniRef90_L9WM90 V E T A Y A I S D G R N R L E P P A T V D V S V A D E P V T L A G P R A N F F E
UniRef90_L8FXR6 V P T S W A S F D G R E R V L E G D Y V T V S A S R Y P F A N V R S E D W I N S
UniRef90_L0ACH3 S E E T D L L V D G H E Q L E T D D V I T V T G A K S T A N V V R D D D F F T A
UniRef90_UPI00026CABF4 V R P V S A V A D Q R E I R D V A V E I G I D R T R E L T L L F D P E H A L D D
UniRef90_UPI0003F66375 V R Q P L I G L D N E A S I R N I R D I S V T L S D H V I K T V K L K N N S
UniRef90_G5ZVJ4 V R E P S V T A D N V E F R H I T A V D I W Q R Q D I S I P L L
UniRef90_A0A013VD82 I R P V S A V A D Q R E V R D V A Q E V R I D R A T P L T L L F D P E H T L D D
UniRef90_Q8EPB4 I D H P I I S L D N E A S I K R V I Q N I D V T M D E T I I K T V K L K N N S
UniRef90_A3SSH7 V R P V M A D A D G N S Y R D V V A V E I T S D P L I
UniRef90_UPI0001D2EFF6 V Q E A S V V A D H D E F R D A L H V D V E D H A T E L V L L H D P G H S
UniRef90_C3MAC5 I R P V N A V A D H Q E V K S V V R V R I A E S E K T A R I L S D P D H
UniRef90_J9J7C3 I P D
UniRef90_UPI0003810A00 I R P V A A T A D H F E I R N V V R V S I A D H A T G L V L L H D P G H S
UniRef90_UPI00037BAFD9 V R P V N A V A D H R E V K S V Q H I E I R
UniRef90_C8WJ38 P R E A A L F A D G E L L S F D A R V Y V S R G A V P T T L L R Y R H
UniRef90_G8PCS7 P V T A N F T A D G E A V L S V D Y R I S T R K V K F L K Y R H T G
UniRef90_C6LX3 T I D G E H R
UniRef90_F7ZIF7 V R P V M A E A D A Q S V M D V T S V E I R S E P S V A H R I L F D P
UniRef90_UPI0003674E81 L E D S K V V A D G E I F S R A G E G F K V R K S E K R A K L I R F G Q P L R M
UniRef90_E1L1M1 S V I E R L F F A D G Q P F L K K P T R V A I T R G Q G D I L L L D T S S F Y Q
UniRef90_UPI00040A8D15 I D Y P I T I G A D N E A P V R N V E T V H V R L A E T R I K T V K L K D N S
UniRef90_A8AXJ8 N D Q H T I S V D N R T T F K H I A K V E F Q I D N H K I H F V A S P S H T S
UniRef90_U7UMB0 P E R C L V L V D G N E S F S N L A K R V N L K I S K N S I K V L N K D S Y W D N
UniRef90_A8HUJ3 I R P V S A V A D H K E V R D I I E V T
UniRef90_K2KBV9 V L J E A
UniRef90_O83455 V K E T V L S V D G H E T L Q E E D Q L L A S R S S C S A R L V T P H V F Y H A
UniRef90_UPI00047D746D V R P V S A T A D F H E V R D V R E V T V K Q S G G P V R L L F D P E H
UniRef90_I4VR11 V L D
UniRef90_X0UEY6 G G E V H L T V D G Q R Q L E Q G D R V L L R A A D R S F Q M L P D R N R F E V
UniRef90_K7Z5Y5 T R P I N A V A D V M E V P D V I E V E R E D S N V K L T V L Y D P E H N
UniRef90_E6RAX6 V P T A W T S F D G R S R L E L G D H I K V T A S K Y P F P I I S F P D W A S S
UniRef90_W4QE19 V D H P I I G V D N E A S I R H A K E V S L S J A D H Q I H I L Q K D N Y H F
UniRef90_Q6FZP8 M R P V N A A D N V I E V K S V H S V T L S T A K E V K A S I L F D S N H S
UniRef90_I7JFV3 L E N A L L T V D
UniRef90_UPI00039FF6E8 V R P V S A V A D N K E F R D V E S V E V R E A P E
UniRef90_Q2G6U9 V K R P V L V V A D Q K E V R D V S E V R V K
UniRef90_A8JHP8 V P Q M W C S F D G R Q A L N A G D A V M I R M S A W P V P T V C S S D A S R D
UniRef90_UPI0003B378B9 V R P V M A D A D S R S V R D V I K V D I E S V P T I A H R L
UniRef90_M0MAL2 V S D A Y A I G D G R N R L E P P A T V T V S L A D E P V R L V I G P D P D
UniRef90_M7YK75 V P H A W A S F D G R K Q L A P G D A L I C S I S P W P V P T A C L V D S T T D
UniRef90_D2UDX6 V R P V S V T A D S H E T R D V I E V T I R E S R D R L V T L L F D P E H N
UniRef90_V4NPPY1 V R P V A A S A D T F E V R H I R S V E V S E A P
UniRef90_V7EIT6 V R P V M A D A D S R G S V R G V A S V E V R S E P G V R H R I L F D P G H G
UniRef90_B0T3G2 V R P V S A V A D N F E V R D V E V H I J A E
UniRef90_A0A021W7M3 V R P V S A T A D S H E V R D V I E V M I R E S R D R T V T L L F D P E H N

UniRef90_UPI0003769325
 UniRef90_F7V0C8
 UniRef90_R6BAB3
 UniRef90_R2QVE7 F W H R V K
 UniRef90_I2K1Y6 V S S V L
 UniRef90_C7LMC3 K I K L L R D I
 UniRef90_A1RSI2 V V E R L K S L
 UniRef90_F3A6I0 F W K R V K
 UniRef90_R7A0L3 Y L K R L K N L
 UniRef90_K0DD36 F W Q R V H N
 UniRef90_K1LIX5
 UniRef90_V6Q4V3 F W R R V K
 UniRef90_P65771 F W D K V K
 UniRef90_UPI0003653958 L V R K F H
 UniRef90_V4JYD2 L F A R L
 UniRef90_L0IBX1 I T K K L
 UniRef90_D5U2B6 V K N V I E S
 UniRef90_U4KPI3
 UniRef90_UPI0003073C89 F W Q R V R
 UniRef90_A9A5D7 Q M S K L
 UniRef90_C7N4T6
 UniRef90_Q9K808 F W H K V Q
 UniRef90_E6VS89 Y F E K L K
 UniRef90_D7CIU7 L W Q R M
 UniRef90_UPI0003822EE2 W D D R I
 UniRef90_R5Z486 Y L R R L K E L
 UniRef90_L9XTC5 G L D K L
 UniRef90_C6JIV7 L R E K L K
 UniRef90_M0L113 G L E K L
 UniRef90_B5Y8M8 V I R K
 UniRef90_A7HWM6
 UniRef90_V5SGI5
 UniRef90_U1QCV1 L S A K L
 UniRef90_X6L1M3
 UniRef90_B7RN14
 UniRef90_UPI00037B15E1
 UniRef90_B9DS28 F W E R V K
 UniRef90_E4KPD8 F W N R V
 UniRef90_X1BL52 L Q T K L
 UniRef90_UPI0003FDF42D F W H K
 UniRef90_A0A024KJN6
 UniRef90_UPI00036A5564 F W A R V K
 UniRef90_H3NHZ3
 UniRef90_U1MXB4
 UniRef90_ROG312 F W N R V R N
 UniRef90_D8MEV4 F W Q R V H
 UniRef90_M7SHA5 I R G K L
 UniRef90_L9WM90 A L E K L
 UniRef90_L8FXR6 I R A K L
 UniRef90_L0ACH3 I S E L L
 UniRef90_UPI00026CABF4
 UniRef90_UPI0003F66375 Y W D R V K
 UniRef90_G5ZVJ4
 UniRef90_A0A013VD82
 UniRef90_Q8EPB4 Y W E R V K
 UniRef90_A3SSH7
 UniRef90_UPI0001D2EFF6 L E E R I
 UniRef90_C3MAC5
 UniRef90_J9J7C3
 UniRef90_UPI0003810A00 M N E R I
 UniRef90_UPI00037BAFD9
 UniRef90_C8WJ38
 UniRef90_G8PCS7 F W N R V R N
 UniRef90_C6XLX3
 UniRef90_F7ZIF7
 UniRef90_UPI0003674E81 L R
 UniRef90_E1L1M1
 UniRef90_UPI00040A8D15 Y W D R V K
 UniRef90_A8AXJ8 F W N R V K
 UniRef90_U7UMB0 L K S K
 UniRef90_A8HUI3
 UniRef90_K2KBV9
 UniRef90_O83455 L C S K L
 UniRef90_UPI00047D746D
 UniRef90_I4VRI1
 UniRef90_X0UEY6 M R D K L
 UniRef90_K7Z5Y5 F E E R V
 UniRef90_E6RAX6 L S R K L R
 UniRef90_W4QEI9 W R N
 UniRef90_Q6FZP8
 UniRef90_I7JFV3
 UniRef90_UPI00039FF6E8
 UniRef90_Q2G6U9 M F D R G Q S L
 UniRef90_A8JHP8 W F S G V R
 UniRef90_UPI0003B378B9
 UniRef90_M0MAL2 F F D G L E N L
 UniRef90_M7YK75 F L R S L
 UniRef90_D2UDX6
 UniRef90_V4NPY1
 UniRef90_V7EIT6 L E E R L
 UniRef90_B0T3G2
 UniRef90_A0A021W7M3

UniRef90_A4ES01 1 MR I A F L A S N A P V A Q F A L Q S L 20 30 VEK HGNST PVEA 40
UniRef90_S9QMT1 K I A F L A S E T D V A R E A R A A L V D S Y G D A P L D E A
UniRef90_S5ZVE0 R R A L V V S P T D A A R G A A S A L S A R V E V Y V V E Q L S E E A T K A
UniRef90_W0AB68 R I A F L S S G A P E A T A A L H E L V A R Y G N V R D W V D V T E A
UniRef90_UPI00041087A9 R I A F L S S G A P E A T A A L H E L V A R Y G N V H P D A A
UniRef90_J9GJU6 H N I A K E A N T D I D R I K Y W N P Y I C L I K P S I F
UniRef90_Q9P7K3 R V A I I A N G K Y Q S K R V A S K L F A A F K H D P D F Y L S K K D P
UniRef90_Q8E571 M K N L L I Y L S K K I S K D I F K I L D K N K F D Y A T H E I D S L E D E K I
UniRef90_S5DPN3 K L A L L A S P T D A A Q E A A R R L S T I S H F V E I G Q A
UniRef90_D9WV77 K V W L I G N S S E K S K K T L N K L S K L K A E H F V F D D I N P
UniRef90_G2ITK3 R I A F M A A P T E A A R H E F D R L A R Q Y G N V H P G E A
UniRef90_Q9CIJ4 R I A F M A A P T E A A R H E F D R L A R Q Y G N V H P G E A
UniRef90_F7VJC0 K E S L S A Q K D L V E R Y G H V A A E D A
UniRef90_Q8G0Z4 K E S L S A Q K D L V E R Y G H V A A E D A
UniRef90_UPI0001DD0FEB R I A F L A S D A D V A Q S S R S S L V K R Y G N A A P R D A
UniRef90_D0CWD7 L K L A F T A S E R P E A Q A A C A V L R K R Y G E S N D P
UniRef90_E8RQE1 K I A F V A S A S A E A Q T A L E Q L T A M Y G N H L P A D A
UniRef90_U1HK46 M K F V C I A R P D A T S M Q L K E A I Q N R M I E K G W K E N L I Q P
UniRef90_D2MN13 V S K L I Q L Q K R D Y D Y K I F T L G S T L P
UniRef90_G0EED6 MR L A Y H A S D R D D A Q A A K A E L I E R Y G E V D L L D A
UniRef90_A3UDG6 K F A F V S S G A P D A E A A V A R L A K K Y G S V P V T E A
UniRef90_UPI0002E9E5BF K F A F V S S G A P D A E A A V A R L A K K Y G S V P V T E A
UniRef90_K1TUUV2 F F F Y G D D K A T L V E I K M K P L Y R I L E E N G F T I L D H P K N A
UniRef90_Q817B5 K I R L F V N D N E K S K R I E N E L K N Y G F E I V I E Q E
UniRef90_R7NJC5 S S E A D D A K K A K A E L V G R Y G N V P A G D A
UniRef90_UPI000467A011 R M A L V A S P T T A A Q E A A T E L R A I Y E W H P I E R A
UniRef90_A5V6G8 K I A F L A S N A P T A Q A Q A G L E Q L A G L Y D L V N H S P E T A
UniRef90_UPI0003B3801F K I A F L A S N A P T A Q A Q A G L E Q L A G L Y D L V N H S P E T A
UniRef90_F0JBX8 R V A I Y A R P D E L A R E A Y R R L R E A G A E A G L V G G P S T D V D V
UniRef90_A2BKR3 V C F L A S T A P E A Q A Q E E L I R L Y G Q T P Q A N A
UniRef90_B9JDQ1 R I A F L A S R A P V A Q T A K T A M V S R Y G N V A K E E A
UniRef90_UPI0003484DCF R I A F L A S R A P V A Q T A K T A M V S R Y G N V A K E E A
UniRef90_B7QUG7 K I C F A A D E T Q K A W E A L S F L K K H Y G S V D D E F L A R V
UniRef90_U5VPH8 L R L D E I A S D R P E A Q T A C A R L K A L Y G S A A H P
UniRef90_R5Q2E9 A L L A S P T P A Q T A G E L R D L Y D W V P I E E A
UniRef90_V4Q451 K I W L V G N S S E K S Q K T L L E L T A L L Q S K N F K F E K E N P
UniRef90_UPI000263028C K I W L V G N S S E K S Q K T L L E L T A L L Q S K N F K F E K E N P
UniRef90_S0JII6 K I W L V G N S S E K S Q K T L L E L T A L L Q S K N F K F E K E N P
UniRef90_UPI000468CD2C A Q E A L A E L T A L Y G Q A P L D Q A
UniRef90_E3F396 M K R I I T V N S N Q V H K S L E K L L T E K L L N V G F E V S Y D F H P D A
UniRef90_UPI00047E5B7E M K R I I T V N S N Q V H K S L E K L L T E K L L N V G F E V S Y D F H P D A
UniRef90_G3ARB0 R I A F L A S D A P V A Q T A R A A L V G R Y G N A A P R D A
UniRef90_UPI00046324BA R I A F V S S D T D D A K A A L E R L S A R Y G Q A P V D E A
UniRef90_U3ATA2 R I A F V S S D R P E A L A S R D A L A R R Y P S V T E E D A
UniRef90_W1JUM5 K I A F V A S P S S E A Q A A F G Q L T G Q Y G N C D P D E A
UniRef90_UPI000470A21D R I A F L A S P T E I A Q K A R Q K L I E T Y G D C A L C D A
UniRef90_B6ITE2 A F V A A E T D D A R S A R D R L H A R Y R G V P P E E A
UniRef90_A0A059IJ33 K I A F T A S R S D V A Q A A R E R L V S R Y G A V P F E E A
UniRef90_UPI000471D6F8 A R H E L D R L V A R Y G N R H P G E A
UniRef90_A0A058ZKD8 A R H E L D R L V A R Y G N R H P G E A
UniRef90_J2AS50 E A L A A R D E L I R L Y G D V P A N E A
UniRef90_A0A017HM69 R I A F T A S R G Q T A Q A A R K S L S Q R Y G S V P E A E A
UniRef90_UPI00025590AB R I A F T A S R G Q T A Q A A R K S L S Q R Y G S V P E A E A
UniRef90_A0A022LUC0 R I A F T A S R G Q T A Q A A R K S L S Q R Y G S V P E A E A
UniRef90_A0A059G2M0 K I A F A A S D A P T A Q T A R A A L E A Q D A L P E L V R R Y G Q V P E A E A
UniRef90_A6FVJ5 K I A F A A S D A P T A Q T A R A A L I S R Y G T T P E E E A
UniRef90_D5AMR5 I Y L F S R L D E D T H V I E Q L L K E G F S L T D D H T A A
UniRef90_F9DW34 R L G L I V S D T A Q N L G A I E L R R A H D W V E L E E A
UniRef90_T0H0X5 M K F A I T S K G D S R S N T L M H K M R T Y L L D F D L Q Y D E D Q P
UniRef90_W4RLE1 M K F A I T S K G D S R S N T L M H K M R T Y L L D F D L Q Y D E D Q P
UniRef90_A9D594 M K F A I T S K G D S R S N T L M H K M R T Y L L D F D L Q Y D E D Q P
UniRef90_A9GZH4 M K F A I T S K G D S R S N T L M H K M R T Y L L D F D L Q Y D E D Q P
UniRef90_Q28N05 I S F L A S D T P L A Q E A K V T L E A R Y G S F A P A D A
UniRef90_Q9YD08 I S F L A S D T P L A Q E A K V T L E A R Y G S F A P A D A
UniRef90_D5RLQ0 R I A F L A A P T E V A E L A R D R F V A L H G Q A V P E E A
UniRef90_A4YSC0 R I A F V A S P S A E A Q A A L T Q L S S L Y G N S D P D L A
UniRef90_E3RT84 R I A F L A A P T E V A C A A R E R L I A Q H G D T P L D E A
UniRef90_X7F3V0 M R R N I I H F R A S K S E K A Q E A Y K E F M K I Y E N S S Y E E S
UniRef90_G9ZVD0 M R R N I I H F R A S K S E K A Q E A Y K E F M K I Y E I A Q H G D T P L D E A
UniRef90_E4UC28 M R R N I I H F R A S K S E K A Q E A Y K E F M K I Y E I A Q H G D T P L D E A
UniRef90_UPI00047409E1 M R R N I I H F R A S K S E K A Q E A Y K E F M K I Y E I A Q H G D T P L D E A
UniRef90_A0A059DXC0 M R I G I A G M Q T T E V K S I Q E T L S D A G F D S F Y F R N N S K T E D A
UniRef90_B3T8W7 R F L L V A K K D K D Q G V A E R I R N S L D C H T C D S G A A Y T M A
UniRef90_Q8SUZ0 I A F V S A A T D E A Q S A A R R L A A L Y G Q A S L E E A
UniRef90_UPI0004646D45 I A F V S A A T D E A Q S A A R R L A A L Y G Q A S L E E A
UniRef90_W7DKA9 I A F V S A A T D E A Q S A A R R L A A L Y G Q A S L E E A
UniRef90_UPI00046EF20E R I A L M A S R N P K S E A V Y S Q L F N A L R D A G F I L S S F R E D Y D D I S N Q I
UniRef90_UPI0003789B94 R I A L M A S R N P K S E A V Y S Q L F N A L R D A G F I L S S F R E D Y D D I S N Q I
UniRef90_UPI0003943D41 R I A L M A S R N P K S E A V Y S Q L F N A L R D A G F I L S S F R E D Y D D I S N Q I
UniRef90_W4LZF1 R V G L I A K P H A E L Q Q L L P W L E Q R Q I E V F L D H D T A A A I E H A
UniRef90_M0MU17 M R V G I V A R A A A L A A E V R E H L R E S G A Q V W L D E A T A D A L E S D C
UniRef90_A8PU25 M R V G I V A R A A A L A A E V R E H L R E S G A Q V W L D E A T A D A L E S D C
UniRef90_U4V1C6 M R V G I V A R A A A L A A E V R E H L R E S G A Q V W L D E A T A D A L E S D C
UniRef90_T0JZC7 M R V G I V A R A A A L A A E V R E H L R E S G A Q V W L D E A T A D A L E S D C
UniRef90_K2MJH5 D T D D A Q E A A R R L S A L Y G Q E R I E D A
UniRef90_X5H3V9 S S G A E K A R S V G S V L E E R Y G I K K I D R Y A D I E A
UniRef90_UPI000308F69B S S G A E K A R S V G S V L E E R Y G I K K I D R Y A D I E A
UniRef90_V9DAL5 S S G A E K A R S V G S V L E E R Y G I K K I D R Y A D I E A
UniRef90_G2QAK9 S S G A E K A R S V G S V L E E R Y G I K K I D R Y A D I E A
UniRef90_C1GF16 S S G A E K A R S V G S V L E E R Y G I K K I D R Y A D I E A

UniRef90_A4ES01 E V I V A L G G D G F M L S T L H E T M D D A P V V Y G M N R G T V G F L M N E Y
UniRef90_S9QMT1 Q V I V A L G G D G F M L S T L H H G T Q H D T P V V Y G M N C G T V G F L M N E Y
UniRef90_S5ZVE0 D L I V A L G G D G F M L R T L V H Q K S G G I P P V I L G F A A D S T V G F L M N E Y
UniRef90_W0AB68 D L I V A L G G D G F M L Q T L H H T M R R L V P V I Y G M N L G T V G F L M N E W
UniRef90_UPI00041087A9 D V I V A L G G D G L M L R T L H H R F G A N K P V V Y G M N R G T V G F L M N E F
UniRef90_J9GJU6
UniRef90_Q9P7K3 D L A I T I G D N S T L L Y T S W L F Q K G P P V L S F S D D V P G F L T H F
UniRef90_Q8E571 D I V I S I G G D G M L L S A F H M Y E K Q L D F V G V H T G H L G F Y T D Y R
UniRef90_S5DPN3 D L V I S L G G D G T A L R G A M R A A W Q L N S P L I N I G P G R V G F L T E S S P
UniRef90_D9WV77 D L I V T F G G D G T F L R G A R A A K D G A A A L G V N V I G T V G F L T E I T
UniRef90_G2ITK3 D A I I A L G G D G F M L Q T L H G M H R T V P V F G M N L G T V G F L M N E W
UniRef90_Q9CIJ4 E I V I S V G G D G T L L R A M H M Y E Y Q L D F L G V H T G S H L G F Y T D F T
UniRef90_F7VJC0 E V I V C L G G D G F M L E T L R V V N L N V P V Y G M N C G S S V G F L M N P M
UniRef90_Q8G0Z4 D L I V A L G G D G T M L Q A L R D F M N G K P I Y G M N R G S S V G F L M N E F
UniRef90_UPI0001DD0FEB E A I V A L G G D G F M L R T L H H K M G R L L P V Y G V N R R G T M G F L M N K H
UniRef90_D0CWD7 D V I V A L G G D G F M L R T L H H T Q H D V P V Y G M N R R G T V G F L M N E Y
UniRef90_E8RQE1 D V I V A L G G D G W L L E C V H H F R D E R P I F G M N M G S I G F L L M N E Y
UniRef90_U1HK46 D V V V A L G G D G L M L E T A H H A M R S N K P I Y G M N R G T V G F L M N E Y
UniRef90_D2MN13 D L V F V I G G D G A F I H A H H E M Y V D V Q P I Y P I Q T G T V G F F A Q N E Y K
UniRef90_G0EED6 D L L V V V G G D G T I L R V L H H A Y R G S I S I I G V K F G R R G F L A G F E
UniRef90_A3UDG6 D V L I A L G G D G V M L D A L H V M G R K I P V F G M N F G S V G F L M N E P
UniRef90_UPI0002E9E5BF D V V I A L G G D G F L L Q T L R T M S T G K Q V Y G M N R G T V G F L M N E F
UniRef90_K1TUU2
UniRef90_Q817B5 N A I I S V G D D A T F L R Q A V R K K T G D C L Y A G I S T K D E I S F Y C D F H
UniRef90_R7NJC5 E L L I S I G G D G F L R M V N K F N V S V Y Y V G I N J A C S V Y V G I N T G H L G F Y Q E I I
UniRef90_UPI000467A011 D Y I V A L G G D G F M L Q T L H H E T M N S T P V V Y G M N R R G T V G F L M N E Y
UniRef90_A5V6G8 D L V V A L G G D G F M L R T L H H A M H R L E M P V V F G M N L G T I G F L M N D W
UniRef90_UPI0003B3801F S H I V A L G G D G F M L Q T L H H A M Q S H E M P V V Y G M N C G T I G F L M N A Y
UniRef90_F0JBX8 D A L V A L G G D G F M L Q T V H H M D S G I P I Y G M N R G T I G F L L N R F
UniRef90_A2BKR3 D G V V V I G G D G T L R L L Q L L G S K T P V L H V R L G S R K A F F F D E E
UniRef90_B9JDQ1 D I V V A L G G D G F M L Q T L H H T M N S G K R P V Y G M N R G S I G F L M N D Y
UniRef90_UPI0003484DCF D L G I I L G G D G T I L A A A R H L S P N I P I L A V N L G F L T E P F S L F
UniRef90_B7QUG7 E V I V A L G G D G F M L D T L H H D T I D D A P V Y G M N R G T I G F L M N E Y
UniRef90_U5VPH8 N G I V A L G G D G T M L G A M R L V I D R P P V V L G V N H G N L G F L V E V T
UniRef90_R5Q2E9 D V I V A L G G D G F M L Q T L H H I L G D N L P V Y G M N R R G T V G F L M N K Y
UniRef90_V4Q451 D V V V A L G G D G F L Q S L H K Y M D Q V P I F G M N R G S V G F L L N D F
UniRef90_UPI000263028C E E I V A L G G D G F M L Q T L H H A M R R L P V F G M N L G T V G F L M N D W
UniRef90_S0JII6 E I V I S V G G D G T L L K A M H L Y E D K I R F V G V H T G H L G F Y T D F M
UniRef90_UPI000468CD2C E V I V A L G G D G F M L S T L H H A T Q A A A P V Y G M N R R G T V G F L M N T Y
UniRef90_E3F396 E A I V A L G G D G F M L S T L H H A P R D G L P V Y G M N R R G T V G F L M N D Y
UniRef90_UPI00047E5B7E E L I I S I G G D G S F L K T L H H D F N P E V P V V G I N T G H L G F F P D I S
UniRef90_G3ARB0
UniRef90_F9MSU8
UniRef90_Q5LPA9 E V I V A L G G D G Y M L R T L H H S T Q H D V P V V Y G M N R R G T I G F L M N E Y
UniRef90_UPI00046324BA D T I V A L G G D G F L L Q T L R T M S T G K R V V F G M N R R G S T I G F L M N E F
UniRef90_U3ATA2 D V I V A L G G D G F M L E M L H H I L D R R T P V F G M N R R G S T I G F L M N D Y
UniRef90_W1JUM5 D V V V A L G G D G L M L Q T L H H M R T G K P I Y G M H R G T V G F L M N E Y
UniRef90_UPI000470A21D E V V V C L G G D G F L L E V L H K V E H G I P A Y G L N C G S V G F L L N T V
UniRef90_B6ITE2 D I V V A L G G D G F L L E T L H H T L S L R V P V Y G M N R R G S V G F L L N D F
UniRef90_A0A059IJ33 E V I V A L G G D G F M L D T L H H A T E R D V A V Y G M N Y C G T V G F L M N E F
UniRef90_UPI000471D6F8 D V I V C L G G D G F M L E T L S E A G L E T P V Y G M N Y C G T V G F L M N P T
UniRef90_A0A058ZKD8 D I V V A L G G D G F M L Q T L H H V Q P G K P V Y G M N C G T V G F L M N E Y
UniRef90_J2AS50 D V I V A L G G D G F M L Q T L H H T M N S G K L V Y G M N C G S V G F L M N D Y
UniRef90_A0A017HM69 A V V A L G G D G F M L Q T L H H A V G R E V P V Y G M N R R G T V G F L M N A F
UniRef90_UPI00025590AB D V I V A L G G D G F M L A T L H A R T Q A E A P V Y G M N R G T V G F L M N E F
UniRef90_A0A022LUC0 L V V A L G G D G T M L G A M R L V A S R P P V L G V N Y G N V G F L V E I E
UniRef90_A0A059G2M0 D V I V A V G G D G A M L D T L R R F Q D N K P V Y G M H R R G T V G F L M N D Y
UniRef90_A6FVJ5 D V I V A L G G D G F M L H T L H R T Q G R A P V Y G M N R R G T V G F L M N E Y
UniRef90_D5AMR5 D V I V A L G G D G M M L Q C L H A G S G L P V Y G M N R G S V G F M M N D Y
UniRef90_F9DW34 T V V I S I G S D G T F L Q A V R K T Q D C I L K L G V S I K G A H G V Y C D F K
UniRef90_T0H0X5 D V F V V V G G D G F L L H A V H E M L D I K P V Y G M N L G T V G F L M N G P
UniRef90_W4RLE1 D I C I S V G G D G T L L Y A F H H R Y A D K T A F I G V H T G H L G F Y A D W V
UniRef90_A9D594 D V I V A L G G D G F M L Q T L H H E M N T G R L V Y G M N R G S I G F L M N D Y
UniRef90_A9GZH4 E A I V C L G G D G F M L E T L H H M L G R P T P V Y G M N C G T V G F L M N P A
UniRef90_Q28N05 D V I V A L G G D G F M L S T L H H G T Q A L P P V Y G M N R G T V G F L M N G Y
UniRef90_Q9YD08
UniRef90_D5RLQ0 A V I V A L G G D G F M L R T F L R L R E S P L F E M T K A G K G F L L D V E
UniRef90_A4YSC0 D V V V A L G G D G L M L Q T L H H R F G R N M P V Y G M N C G S V G F L M N A F
UniRef90_E3RT84
UniRef90_X7F3V0 D V I V A L G G D G F M L Q T L H R T Q A A V P V Y G M N R G T V G F L M N E Y
UniRef90_G9ZVD0 A V I V A L G G D G F M L E T Q H R F G R N I P T Y G M N C G S V G F L M N A F
UniRef90_E4UC28 D A I V I L G G D G F M L Q N L S R L H G K P L Y G I N C G S V G F L M N D Y
UniRef90_UPI00047409E1
UniRef90_A0A059DXC0 E V I V A L G G D G A M L D S L R R F F E G G K P V Y G M N R R G T V G F L M N E Y
UniRef90_B3T8W7 D L V I V L G G D R G V R N Y F H A R A L D D D T P V V L G I N S S E S N G V L S Q I E
UniRef90_Q8SUZ0 D G I I V L G G D G T V L R A V I A R Y R S P P T V I Y A V N S R G R V G F L C P I P
UniRef90_UPI0004646D45 D V V V A L G G D G F M L Q T L R Q M G S G K A I Y G M N K G T V G F L M N E F
UniRef90_W7DKA9 E I I V C I G G D G F M L E T L H R N Y N Y Q I P I Y S I N F G S V G F L N T V T
UniRef90_UPI00046EF20E E I I V C I G G D G F M L E T L R E N T Q L T A P V Y G M N C G S V G F L M N P M
UniRef90_UPI0003789B94 D L V I S I G G D G M L L S A F H K Y E D T V R F V G V H T G H L G F Y T D Y R
UniRef90_UPI0003943D41 D F I I C I G G D G T L L Y A S S L F Q S V P V I M A F H L G S L G F L T P F N
UniRef90_W4LZF1 D L F I V L G G D G T L L S V T R L L Y N R K V P I L G V N M G S L G F L T E T T
UniRef90_M0MU17 T L V V S I G G D G T F L F T A R E V G T T P I M G V N L G E V G F L N A T S
UniRef90_A8PU25
UniRef90_U4V1C6 D I I V A L G G D G F M L Q T L H A T Q H D A P V Y G M N R G T V G F L M N A Y
UniRef90_T0JZC7
UniRef90_K2MJH5 D V I V A L G G D G F M L H T L R T M G T G K R I Y G M N R G T V G F L M N E Y
UniRef90_X5H3V9 S L I L A L G G D G F M L D T L R R M G N N I P V Y G I N C G N V G F L N E F H
UniRef90_UPI000308F69B D L I V V L G G D G T M L R A I R H W R D R C P F Y G I N T G H L G F L L N D
UniRef90_V9DAL5
UniRef90_G2QAK9
UniRef90_C1GF16

UniRef90_A4ES01 QEEGLIERLRREAELLEINPLSMVAMDRQGTTHKAIINNEVSL
UniRef90_S9QMT1 HEPHLRDRRLRDAVEEDINPLLRMIREDGTVHEALAIINNEVAL
UniRef90_S5ZVE0 IRDAERKVLNVLNLEGNYSSTRNVALGVEYAYGDEKGVFNEVAL
UniRef90_W0AB68 QPDRLEERLEARARAFNYSVAFLRMTTVDGVEVLELPAINNEVSL
UniRef90_UPI00041087A9 PDLTLQRLDEAEASVVHPLLMKALIDMEGEIVVKARAANNEVSL
UniRef90_J9GJU6 MVL
UniRef90_Q9P7K3 SLSNYQQHLQYQVQNVSLRFCSRLQCFSFHKKYDYSLDEELIS
UniRef90_Q8E571 DFEVDTLINNQISYPILKVTITLEDGRVIRARALNEESTLIK
UniRef90_S5DPN3 DNLQSLNDWVNGNIEFVEERKAITQNE DQNFPSFNEVVI
UniRef90_D9WV77 PDDVVRGALDVEAGNATVEERMMLTLRARSRLDMLNDVVF
UniRef90_G2ITK3 RLA GLDQRLDRAKAFKVNPLLRMHATTVSGEQITLNEVSL
UniRef90_Q9CIJ4 DEEDLFEVVEQATLHYPLIRVQVVSFTDGYQIVRHVLENEATIR
UniRef90_F7VJC0 LEEEDLPQRLATTQAACLHPLLRMTQVSGEVFEALALNEVSL
UniRef90_Q8G0Z4 VTIENLPERILAAQMETIRPLVMMVTE DAPVVEALALNEVSL
UniRef90_UPI0001DD0FEB RPKGALVERVNSRSRPLVGLSPLRMEALNQNRRVEALNEVSL
UniRef90_DOCWD7 DSDNLLERLRSQAEEVNI NMSKAMDQS GKLEHALAINNEVSL
UniRef90_E8RQE1 RESDLMARIESAEQTRISPLLRMTNNGRGEVQEALAFNEVSL
UniRef90_U1HK46 STHDLRTRLRSAARESILNPLLRMRATDIHVHLHHAINEVAL
UniRef90_D2MN13 WEDFEAYRLKALEG DYEVQLPLELETKIHDDEVITYAVNEIR
UniRef90_G0EED6 CSEVESLVKALVNKNITWCKAERKLP LNQELPLALNEVAV
UniRef90_A3UDG6 RMDDELTERLSQAERAEIHPALVIRDTRGQTFEALAINNEVSL
UniRef90_UPI0002E9E5BF NEDDLRERIRGAVPETIRPLQMDAADGSGNKLKALAINNEVAL
UniRef90_K1TUV2 IDDMEDAISKFLQDDFIIEKRM MNKIQFSFHALNDVVS
UniRef90_Q817B5 I D H V P N T A L Q E I T K N E R K Y P T I Q V D V D G S T S F H C L N E F S L R
UniRef90_R7NJC5 L I S E C P D F A I K R L S E N D F K I E D V T V T T E A K T F H C N F L N E I V I
UniRef90_UPI000467A011 STE NL HE RL QA ADM NE LR P M T T R N A D G T S S I A L A I N E V S M
UniRef90_A5V6G8 K P D L L E L R L Q Q A R A I T V L P L R M D T V S E G Q R H S V P A I N E V S L
UniRef90_UPI0003B3801F S E E N L P Q R L D E A G E E V L N P L R A M T T V S G V P V T G L A I N E V S L
UniRef90_F0JBX8 R P D G L L E R L N R A H R L V L N P L V M T T V S G Q V C S A L A F N E V A L
UniRef90_A2BKR3 P G E A L D R I D F V A G H F E A F E Q R V R L H V E V Q G V P V Y F N E A V L
UniRef90_B9JDQ1 R T E N L L E R L E A A V E N A F H Q M T T R N A D G S S C V A L A I N E V S L
UniRef90_UPI0003484DCF Q D T E N L W Y R L J E N D L Y A V E R R M M L E A Q I W D R F F C L N E M C V K
UniRef90_B7QUG7 S E S G L L A R L E A A E E E I N P L S M M D A E G R V H R A L A I N E V S L
UniRef90_U5VPH8 P S T L G A A L E Q L A S D F T V E S H S C L T A D A G E T R F G F N D V V L A
UniRef90_R5Q2E9 K K K D L T K R L E N A Q K I T L H P L K M Q A V T A K G K T K A I N E V S L L
UniRef90_V4Q451 S E D N L M E R I I R S E S S L I S P L S M T A V C R S G K E H R A F N E V S L
UniRef90_UPI000263028C R L J E G L T H R L E R A R P F R V A P L A M T A T T V E G E T C V L I N E A S L
UniRef90_S0JH6 N T D L D E T A E H A V H Y P L L R I R V K F Q D G S E M L H Y A L N E S T I
UniRef90_UPI000468CD2C V E S D L R A R L D A A E E A V I H P L S M R I H V D G R T V S E A L A I N E V A L
UniRef90_E3F396 R P D D L H A R I R A E A V E V I N P L S H M R A T D T T V R E A L A I N E V S L
UniRef90_UPI00047E5B7E P D N L D G F L E A Y L K E D Y I I Q N I P L T I G A S I C E T N T H C L D E V V V
UniRef90_G3ARB0 C E Q Q V L N E I V D
UniRef90_F9MSU8 P D Q L D D F L K A Y V E G N Y M I E E L S L I G A E V F T K N R S F N E I V V
UniRef90_Q5LPA9 A E T S L L A A A E E E I T N P L S M T A M D Q A G Q I H R A L A I N E V S L L
UniRef90_UPI00046324BA R E K N L P E R I L A K A V P E T I R P L E M V G A D G E T V S A L A I N E V A L
UniRef90_U3ATA2 G E D A L J E R L T R A I A T V I R P L E M R A W T S D A Q V Q V I N E V S L L
UniRef90_W1JUM5 S T H D L R Q R L E T A H E S E I N P L L M R D V N D R V H L H H A I N E V Y L
UniRef90_UPI000470A21D S D E D L V A R L T R A Q A S E L H P L R M K A V G R D G T R H I A F N D V F L
UniRef90_B6ITE2 G E D G L S D R V C R A Q R V A L H P R M R A T T A A G E R S G L A F N E V S L
UniRef90_A0A059IJ33 S E E R L T J E R L E A A E E E V I N P L R M T A T D A E G Q R R D L I N E V S L
UniRef90_UPI000471D6F8 D E E N L P E R L W H A Q A A T L H P L R M T S I V R G E H F E A L A L N D V Y L
UniRef90_A0A058ZKD8 H E P G L L E R L A E A E Q E V I H P L K M R S I S P E T E A W A I N E V S L L
UniRef90_J2AS50 K T T D L H D R I C T A V E N A F H P M T T S N A D G S S S S A L A I N E V Y L
UniRef90_A0A017HM69 R E G D L R E R I D R A E H F I T N P L R M R P V A A G G L E E A L A I N E V S L
UniRef90_UPI00025590AB N E D D L V Q R L E G A E E E V I N P L H M R R A D G K I Q A L A I N E V S L
UniRef90_A0A022LUC0 P P D R L S A G E Y Q L I E P H H A L I E A R L S W G A R T D Y L A F N D L T I V
UniRef90_A0A059G2M0 S L D G L V D R I N A A E R A S L V P L R M I A T D I H G E E H S A I N E V S L
UniRef90_A6FVJ5 S E T D L T E R L D A A Q E E V I N P L R M Q G A D G Q V H D A L A I N E V S L
UniRef90_D5AMR5 R V F D L P E R L A A A E E A L I N P L A M R T A D G V I R E E L A I N E V S L
UniRef90_F9DW34 Y D E T E H A L E N Q P G L N E R H Y P L L E V T I N Q H K P F Y C L N E F S I R
UniRef90_T0H0X5 H D G V P A E R I A D A H P V R P L Q M H A T S H D F V Y A I N E V S L
UniRef90_W4RLE1 P E E I E K L V I A V A K T P Y Q V V E Y P L L E V I T R Y Q H G G R E T R A A
UniRef90_A9D594 S D V D L S D R I D A A N I T R P L E M T A T D A H G A T H S A L A I N E V S L
UniRef90_A9GZH4 V P D D L P E H L V R T Q A A T L H P L R M R T T K T V T E A L A I N D V F L
UniRef90_Q28N05 A E D D L J A R L E D A E E A V I N P L H M R C V D G S E V D A L A I N E V S L
UniRef90_Q9YD08 R Y E A V E R L R D F L A R F R E V Y P R Y R V Y L E G E A R A C M F N D T A V
UniRef90_D5RLQ0 H E D D L L G R L S A Q A A T L H P L R M L D V S T G A L R E A L A I N E V S L
UniRef90_A4YSC0 S T R G R L J E A A Q E S V I H P L L M R A T D A S G V V H I H H A I N E V Y L F
UniRef90_E3RT84 Y A L N E V T L H
UniRef90_X7F3V0 S E H G L E E R L A A E E A V L N P L S M R T A D G A A H E A L A I N E V S L
UniRef90_G9ZVD0 H E D D L L P R L A A A Q A A V L H P L R M R D G E G A L H E A L A I N E V S L
UniRef90_E4UC28 C T K N I L E R L S D A I E Y T F H P L K M I V F D D C A E F F G V N E V S I L
UniRef90_UPI00047409E1
UniRef90_A0A059DXC0 G V D A L P D R I N A A E R A V I S P M T V R D V H E H E H H A L A I N E V S M
UniRef90_B3T8W7 L R E Y L N R I K K Q D Y V I E D V P R I G V K V D G K N T Y P V L N D V S V F
UniRef90_Q8SUZ0 Y A A V D E L J A R L K D G R E M G F V E L K R L C L A G R H Y F L N E A V I K
UniRef90_UPI0004646D45 A E T G L R D R I A A A L P E T I R P L E M I A E T A E G P E A K L I N E I A L
UniRef90_W7DKA9 L E K D L P L L H E A Q P T C L H P L S M T A Y T A D G K H T F N D I F L Y
UniRef90_UPI00046EF20E N E E D L P E R L F H A Q A A T L H P L R M T A T T R D N E A L A I N D V Y L
UniRef90_UPI0003789B94 D F E I D K L V I E N K I S Y P V L R I V L Q L K N G D K F T Y R A L N E A T V K
UniRef90_UPI0003943D41 F E N F Q V T Q V I E G N A A L V L R S R L K V R V V K E H R D R K G S V Q N G
UniRef90_W4LZF1 T Q E L F S H L E K I L Q N Y E T Q D R M L R T C V N R Q G D R L N D V V I N
UniRef90_M0MU17 P D D A L A E L T H E L D H I E R E P R L R V T G E D I S L P R A L N E I V V M
UniRef90_A8PU25 R K R M C M A L W D K S P G D C L W L P G E Q A C R E H F M N E V L H
UniRef90_U4V1C6 E E D R L I D R L S A A E E A E I N P L S M V D V E G H E F S A L A I N E V S L
UniRef90_T0JZC7 P Q P I H A L N E L L I H
UniRef90_K2MJH5 R E D G L R E R I A A A I G E T V R P L Q M L D A D N G N I T E A L A I N E V S L
UniRef90_X5H3V9 S D Q L L A D I E S A E E Y N L I K A E L S A N G N I T S G T A I N D V Y I
UniRef90_UPI000308F69B R E T R F W E Q E L K L Y Q L P L L W A E A V T V D G K T V T G H A F N E V W V
UniRef90_V9DAL5 H D M Y A M N E V I L H
UniRef90_G2QAK9 V Q K P R Y L H A I N E V S I D
UniRef90_C1GF16 H D D G L H A M N E V I H

UniRef90_A4ES01 L R A G S P Q A A R L R I S V D G R Q R E E L V C D G A L V C T P A G S T A Y N Y
UniRef90_S9QMT1 L R A G S Q A A K L R L F D D G E R L E E L V C D D G A L V S T P A G S T A Y N Y
UniRef90_S5ZVE0 W A L P G K L T E F E F S L N D G L G L I H G R S D D G I V L V A T P A G S T A G H A L L
UniRef90_W0AB68 L R E T R Q T A K L E F E F S L N D G L R I Y E E L V C D D G I V L V A T P A G S T A Y N L
UniRef90_UPI00041087A9 M R Q S Y S Q V A K M R V T S I V D G E R L G E E L A A D G L L V A T P V G S T G T A Y N L
UniRef90_J9GJU6 K H D N S S L I E K T F V N S E H Y L T N Y L A D G L L V A T P T G S T G T A Y N L
UniRef90_Q9P7K3 R G E H P F I S N L N V Y N N S E L M T V V Q A D G L V I V A T P T G S T G T A Y N L
UniRef90_Q8E571 R I E K T M V A D V V I N Q V V F E R F R G D G I L V A T P T G S T A Y N K Y
UniRef90_S5DPN3 K N S P T R I L D L Q I V E T Y Q Q K V K L R G D G I L V A T S L G S T G T A Y N Y
UniRef90_D9WV77 K L A R D R Q A G L A V V S V N G R V L P E L V C D G A L V A T P A G S T A Y N L
UniRef90_G2ITK3 L R E T R Q T A W I L A V V S V N G R V L P E L V C D G A L V A T P A G S T A Y N L
UniRef90_Q9CIJ4 R A S K T M V G D V V I N S D Y L F E R F R G D G L S I A T P T G S T A Y N K
UniRef90_F7VJC0 F R Q T R Q A A K L R V I V D V D G M R M P E L I C D G A L V A T P A G S T A Y N L
UniRef90_Q8G0Z4 F R Q S Y Q A A R I R I T I D G K V R Q E E L V C D G V M V A T P A G S T A Y N L
UniRef90_UPI0001DD0FEB L R E T R Q T A K I E I L V D G K R I E E L V A D G V L V A T P A G S T A Y N L
UniRef90_DOCWD7 R A G P Q A A R K I R I S V D G R V R E E L V C D G A L L A T P A G S T A Y N Y
UniRef90_E8RQE1 L R Q T Y H Q S A K L R I L I D G K A R E E E L I C D G A L V A T P A G S T A Y N L
UniRef90_U1HK46 F R Q T Y Q V A K L R I L I D H H F M A E L M A S D G I L V A T P A G S T A Y N L
UniRef90_D2MN13 I E N V M H T Q I L T D V F V N D H H F F E N L R S S G V C V A T Q A G S T A Y N R
UniRef90_G0EED6 V G S R G K T I E L E I R V V G S R S H Q V Y H G D G V L I A T A V G S T A Y T A
UniRef90_A3UDG6 L R E T R Q T A K I R V S V L D G K T R E E L A A D G V L V A T P A G S T A Y N F
UniRef90_UPI0002E9E5BF W R Q S Y Q T A K I R I S V D D G K V R E E L N C D G V M V A T P A G S T A Y N L
UniRef90_K1TUV2 K V A G E K L I Y M E L S T D G V A V N R Y T A D G L I I A T P T G S T G Y S I
UniRef90_Q817B5 S S I K T F V V D V H V D D L Y F E T F R G D G L V V A T P T G S T A Y N K
UniRef90_R7NJC5 R D L N F K V M D A Y I V D D R E L L E N Y T F R G D G I L I S S T G S T A Y N K
UniRef90_UPI000467A011 L R Q S H Q A A K L K V R V D D R V R P E L A C D G I L V A T P A G S T A Y N L
UniRef90_A5V6G8 L R E T R E T A K I E V L V D D G R V R P E L V C C D G V L V A T P A G S T A Y N L
UniRef90_UPI0003B3801F L R A G P Q A A K L R I S V D G R R M E E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_F0JBX8 H R Y S Q Q S A N I R L C I N G E R L D R L V C C D G I M V A T P A G S T A Y N L
UniRef90_A2BKR3 G S G S K L V V R V R A G D D T V Y E R L E G D G L V A T P M G S T A Y S Y
UniRef90_B9JDQ1 F R Q S Y Q T A K L K V E I D G R V R P E L I C D G L M V T T P A G S T A Y N L
UniRef90_UPI0003484DCF P A C L D R M A I L E M E V D G E V V D Q Y H G D G L I V A T P T G S T C Y T A
UniRef90_B7QUG7 L R A G P Q A A K L K I V L D D E R M A E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_U5VPH8 R L G R T G A V S V D L S T L N G R Q Y G Y K C C D A V V V S T P A G S T A Y N Y
UniRef90_R5Q2E9 R S A R Q A A N I R I C V N G Q E K L S D L I C C D G V L V A T P A G S T A Y N L
UniRef90_V4Q451 L R Q S H Q A A K L R I L I D G K V R D E L I C C D G A L V A T P A G S T A Y N L
UniRef90_UPI000263028C L R E T R Q T A K L E I V D D E R G R I P E L V C D G L L V A T P A G S T A Y N F
UniRef90_S0JII6 R R T S K T L V A D I R I S D F L F E K F R G D G L S V A T P T G S T A Y N K
UniRef90_UPI000468CD2C L R Q G P Q A A K L Q I V V D D G R R M Q E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_E3F396 L R T G A Q A A K L R V I F V D G R R M P E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_UPI00047E5B7E K G D K S R T I H I N L K V N D K H I Q K F S G D G M I I A T P T G S T A Y N Y
UniRef90_G3ARB0 R G P S P Y V T I Q L E L L V G D G S L L T V A Q A D G L I A T P T G S T A Y N L
UniRef90_F9MSU8 K A Q H S K V I H L N L F L N R N H V E K F S G D G M L V A T P S G S T A Y N F
UniRef90_Q5LPA9 R A G P Q A A R L K I S I D G R L R A E L V C D G A L V A T P A G S T A Y N Y
UniRef90_UPI00046324BA W R Q S Y Q T A K L R I A V D D H V R E E L S C C D G V M I A T P A G S T A Y N L
UniRef90_U3ATA2 R Q T R Q S A K L R I L V D D E R V R L E E L I C C D G V L V A T P A G S T A Y N L
UniRef90_W1JUM5 F R Q T S Q A A R L R I L I D E E R M P E L I A D G I I V A T P A G S T A Y N L
UniRef90_UPI000470A21D F R Q T R Q A V K L R I S V D D Q R V R P E L I C C D G V I V A T P A G S T A Y N L
UniRef90_B6ITE2 L R E T R Q A A K L R I S I D G V V R P E L I C C D G A L V A T P A G S T A Y N L
UniRef90_A0A059IJ33 L R A G P Q A A K L R I S I D G K V R E P E L I C C D G A L V A T P A G S T A Y N Y
UniRef90_UPI000471D6F8 F R Q T R Q A A K L R I S I D G V R L P E L I C C D G A L V A T P A G S T A Y N L
UniRef90_A0A058ZKD8 R A G P Q A A K L R I S V D D G K R M E E L V C C D G A L L A T P A G S T A Y N Y
UniRef90_J2AS50 F R Q S Y Q A A K L R V S I E I D G H V R E E E L V C C D G L M V A T P A G S T A Y N L
UniRef90_A0A017HM69 L R M G P Q A A K L R V S V D D G R R I E E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_UPI00025590AB L R A G P Q A A K L R V S V D D G R R M D E L V C C D G A L I A T P A G S T A Y N Y
UniRef90_A0A022LUC0 R R P G S G Q V S A D L S V G G L G Y G Y R A D A I V A A T P A G S T A Y N Y
UniRef90_A0A059G2M0 L R Q T A Q S A R L K I T I V D D R M M E E L T C C D G V M V A T P A G S T A Y N L
UniRef90_A6FVJ5 L R A G P Q A A K L K I S V N G R R L A E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_D5AMR5 L R A G P Q A A K L R I S V N G R R M E E L I S D G A L V A T P A G S T A Y N Y
UniRef90_F9DW34 S T I R T F V M D I S I N D E L L F E E F L G D G L I A T P T G S T A Y N K
UniRef90_T0H0X5 L R E T R Q T A K L E I V T I N G K R M E E L V C C D G V L V A T P V G S T A Y N L
UniRef90_W4RLE1 V K S V E G T L V M D V S I R G G Q H F E R F R G D G L C V S T P S G S T A Y N K
UniRef90_A9D594 L R Q S Y Q A A K L R L S I D D G E R M E E L I C C D G I M V A T P A G S T A Y N L
UniRef90_A9GZH4 F R Q T R Q A A K I E I Q V D G R R M P E L I C C D G L V A T P A G S T A Y N L
UniRef90_Q28N05 L R A G P Q A A K L R I V F V D G K R M D E L V C C D G A L L A T P A G S T A Y N Y
UniRef90_Q9YD08 T A N N A K M A R V H V E V D D G D L A M N I D G D G V V V A T P A G S T A Y N L
UniRef90_D5RLQ0 L R E T R Q A A K L R I L V D D G K V R E E L I C C D G I L V A T P A G S T A Y N L
UniRef90_A4YSC0 R Q T A Q T A R L R I L I D E R E R M P E L I A D G V L V A T P A G S T A Y N L
UniRef90_E3RT84 R G S S P H L K I L D V Y I N D N R F L T E A V A D G M I A T P T G S T A Y N L
UniRef90_X7F3V0 L R Q G P Q A A R L R I S V D D G R R M A E L V C C D G A L V A T P A G S T A Y N Y
UniRef90_G9ZVD0 L R E T R Q T A K I R I L V D D G E R L P E L I C C D G V L V A T P A G S T A Y N L
UniRef90_E4UC28 R D Q V V Q A A K L K V I N S Q V R P E L I C C D G L I V A T P L G S T A Y N F
UniRef90_UPI00047409E1 F R Q T A Q T S R F R I T V D G K R M D E L A C D G L M V A T P A G S T A Y N L
UniRef90_A0A059DXC0 T S K S A T L M E Y I L S V N D N E E V W H D S S D G V I A T P T G S S A Y N L
UniRef90_B3T8W7 P S S M G L G R F R I S I N D N V S V K I R G D A V V I A T R T G S S A Y N A
UniRef90_Q8SUZ0 F R Q S A Q A A K L R I T I D G K V R D E L V C C D G V M V A T P A G S T A Y N L
UniRef90_UPI0004646D45 R Q T R Q A A K I Q I T N D E I L R L S E L I C C D G L I V A T P A G S T A Y N L
UniRef90_W7DKA9 F R Q T R Q A A K L R I D V D D G L V R V E L I C C D G A L L A T P A G S T A Y N L
UniRef90_UPI00046EF20E R L S K T M V A D V M I N Q V H F E Q F R G D G L S V A T P T G S T A Y N K
UniRef90_UPI0003943D41 I E E N G V S A T L E K E V D G K Q I M Q Y Q D P A L T W N K P K S V L V I K
UniRef90_W4LZF1 K G A L A R I L S L E I Y V D D L Y I T T Y R A D G L I V A T P T G S T A Y S M
UniRef90_M0MU17 G D R P G R G A E F I V E I D G S E Y L D S H A D G V L V A T Q T G S T A Y N L
UniRef90_A8PU25 R G R E P H M T T M D A F V N G E H L T R T I A D G L V A T P T G S T A Y N L
UniRef90_U4V1C6 L R A G P Q A A K L K I S V D D G E R M S E L V S D G V L L A T P A G S T A Y N Y
UniRef90_T0JZC7 R G P K P H L A H I K I Y S L N N R F L T E A V A D G I L L A T P T G S T A Y S L
UniRef90_K2MJH5 L R Q S Y Q A A K I R I S I D D G K V R E E L I C C D G V M V A T P A G S T A Y N L
UniRef90_X5H3V9 L R N H G K A S K L R I S V D D E L I E N F V G D G V I V A T A V G S T A Y N A
UniRef90_UPI000308F69B E R A T G Q T A W V K L S I N G V C R E R L V C D G A L V A T S A G S T S Y A K
UniRef90_V9DAL5 R G R D P H L A I I V D V Y V N G R F L T E A V A D G M I A T P T G S T A Y S L
UniRef90_G2QAK9 R G S H P H L A I I D I Y V N S H F L T E A V A D G L I I S T P T G S T A Y S L
UniRef90_C1GF16 R G K Q P H L A V V E V F V G G R F L T E A V A D G M I V S T P T G S T A Y S L

UniRef90_A4ES01 S A H G P I L P I 170 G S D V L A L L T A L M A A F R R R R W R G A L L L P S N A R K V V R L D
UniRef90_S9QMT1 S A H G P I L P I G S E V L L A L L T A M A A F R R R R W R G A L L L P K G A T K V R R F E
UniRef90_S5ZVE0 S Y G G P V L D V L G S Q K L L E L L T F P G G A F L S R P A L R R P L L V I H G D R A R T V R F R
UniRef90_W0AB68 S A Q G G P I L P L D V G G Q G M L L A L L T P I S A F F R R R G W R G A L L L S D D K M Q E I T L D R
UniRef90_UPI00041087A9 S A H G P I L P L D A T M V A L L T P I S A F F R R R G W R G A L L L S R D D D V E I T L D R
UniRef90_J9GJU6 S V G G P I L V P Q S G T F C L S P V I A P H S L S V R P I V I L P R D D Y N V L N V E
UniRef90_Q9P7K3 N A G G S L V H P A L N A I L V L T E I S S F Y S T L G S S I V I V P K K D A I E I V
UniRef90_Q8E571 S L G G A V L H P T I N A I L Q L T E I S S F Y S T L G S S I V I V P K K D A I E I V
UniRef90_S5DPN3 S A G G P I L Q N D I D V I S L T P I V A P F H I A F D R T V V V A V D E A V I N I S R R
UniRef90_D9WV77 A A G G P V V P H M D A V V F T P V V A P F H I A F D R T V V V A V D E A V I N I S R R
UniRef90_G2ITK3 S A Q G P I L P L G C G L V A L L T P I S A P F R R R R W R G A I L L P E R T R I T T L R
UniRef90_Q9CIJ4 S L G G A V V H P R V K A M Q V L A E I A S F Y R R R L G S P M I L V A E S T A H V G F T
UniRef90_F7VJC0 S A H G P I V P L A G N M L P L L T P V S A F F R R R R W R G A L L L P K H V T V R M D R
UniRef90_Q8G0Z4 S A Q G P I L P L E A P L L A L L T P V S A P F F R R R R W G G A L L L P K H V T V R M D R
UniRef90_UPI0001DD0FEB S A N G P I L P L I G S D V L L A L L T A I S A F F R R R R W R G A L L L P K D R A K N V R F F D
UniRef90_D0CWD7 S A H G P I L P L I G S D V L L A L L T A I S A F F R R R R W R G A L L L P K D R A K N V R F F D
UniRef90_E8RQE1 S A H G P I L P L D A Q A L L A L L T P I S A F F R R R R W R G A L L L P H S A K V R F E
UniRef90_U1HK46 S A Q G P I L P L I N A A L A L L T P I S A F F R R R R W R G A L L L P H S A K V R F E
UniRef90_D2MN13 S L G G A V I A D G L E A M Q M V E I A G Y Q S L N V P I V F P W N T V L V H F Q
UniRef90_G0EED6 A A Q G P L L K S E K C V V I T P I N P L A G L S H P L V I D S S S V H I E V Q
UniRef90_A3UDG6 S A H G P I L P L D A T L L A L L T P I S A F F R R R R W R G A L L L R Q E S S M V R F D
UniRef90_UPI0002E9E5BF S A H G P I L P L D A P L L A L L T P V S P L A P Y Q S T L G S P F I N H E R T L T L Y
UniRef90_K1TUUV2 S A G G P V V D P C M R L Y V A T P I C A H M L S V R S A V L S S N K D I R I K
UniRef90_Q817B5 S L H G A V V D P L I P C F Q V S E L A S Y Q S T L G S P F I N H E R T L T L Y
UniRef90_R7NJC5 C Y G G S I Y N T L S I T P I A P Y Q S T L G S S V I I P E K K I I S Y V
UniRef90_UPI000467A011 S V H G P I L P L E A P L L A L L T P V S A F F R R R R W R G A L L L P N R S V V D I E
UniRef90_A5V6G8 S A Q G P I L P L I G S E V L L A L L T A I S A F F R R R R W R G A L L L P N K A A J S F R D
UniRef90_UPI0003B3801F S A H G P I L P L I G S E V L L A L L T P V S A F F R R R R W R G A L L L P N K A A J S F R D
UniRef90_F0JBX8 S A H G P I L P L I G S N V L L A L L T P V S A P F F R R R R W N G A L L L P H S A V V E F T E
UniRef90_A2BKR3 S A G G P V L Y L D L D A V V L T P V S N P L D R R R Y G S V V V P N K R P G V E I T
UniRef90_B9JDQ1 S A H G P I L P L E A P L L A L L T P V S A F F R R R R W R G A L L L P G K V T V D I
UniRef90_UPI0003484DCF S A S G P I L H P G M S A I A V T P I C P L S L S S R P L L L P P R S V V S I W
UniRef90_B7QUG7 S A H G P I L P L I G S D V L A L L T A I A A F F R R R R W R G A L L L P S N A T V R L E
UniRef90_U5VPH8 A A G G P I L S P S A S A M V I T P V A P M A G I G R A V V L G A G D R V A L L T
UniRef90_R5Q2E9 S A H G P I L P L A S N V L A L L T P V S A P F F R R R H W R G A I L L P S H V S V E L D E
UniRef90_V4Q451 S A H G P I L P L T A Q A L L A L L T P I S A F F R R R R W R G A L L L P E T A K V L E
UniRef90_UPI000263028C S A Q G P I L P L T G S A L L A L L T P I S P F F R R R R W R G A L L L P E K T R I D I
UniRef90_S0JII6 S L G G A V L H P R V E A M Q M A E I A S Y R T L G A P M V V A K K D S I T I C
UniRef90_UPI000468CD2C S A H G P I L P L I G A D V L A L L T A M A A F F R R R R W R G A L L L P S R A T V R F D
UniRef90_E3F396 S A M G P I L P L I G S E V L L A L L T A I A A P Y R R R R W R G A V L P R A A V I R I E
UniRef90_UPI00047E5B7E A A G G S I V D P S L S L M Q L T A I L V P I N T N A
UniRef90_G3ARB0 S A G G S L V Y P G V S A I S V I T P I C P H T L S F N S P I L L P D G M F L K V K
UniRef90_F9MSU8 S A G G S L I H P T M E V L E I T P I L N P Y R S L S R R S P I L L P D G I T T R V I V
UniRef90_Q5LPA9 S A H G P I L P I G S D V L L A L L T A I A A F F R R R R W R G A L L L P K T A K V R V D
UniRef90_UPI00046324BA S A H G P I L P L D A P L L A L L T P V S A F F R R R R W R G A L L L S N R A T V R F D
UniRef90_U3ATA2 S A H G P I L P L D A K V L L A L L T P V S A F F R R R R W R G A L L L P H S S E V C F D
UniRef90_W1JUM5 S A Q G P I L P L I N A A L L A L L T P I S A F F R R R R W R G A L L L P N T A Y V I E
UniRef90_UPI000470A21D S A H G P I L P L T A N A L L P L T P I S A F F R R R R W R G A L L L P S T A T V R F T E
UniRef90_B6ITE2 S A H G P I L P L G A G I L L A L L T P I S A F F R R R R W R G A L L L P H D A R I T F F E
UniRef90_A0A059IJ33 S T H G P I L P I G S E V L L A L L T A V A A Y R R R R W R G A I L L P K R A V V R L E
UniRef90_UPI000471D6F8 S A H G P I L P L I G S G N L L P L T P L C A F F R R R R W R G A L L L P S T A E V S F T
UniRef90_A0A058ZKD8 S A H G P I L P I G S D V L L A L L T A M S A F F R R R R W R G A L L L P T D A K V R F D
UniRef90_J2AS50 S A H G P I L P L D A P L L A L L T P V S A F F R R R R W R G A L L L P N R V T V D I H
UniRef90_A0A017HM69 S A H G P V L P I G A E V L A L L T A I A A F F R R R R W R G A L L L P K D A R V R V D
UniRef90_UPI00025590AB S A H G P I L P I G S D V L L A L L T A I A P F R R R R W R G A L L L P K E A V I R L E
UniRef90_A0A022LUC0 A A G G P V L S P A L S G S V V T P V A P M A G I D R S V V L S A R E R Y R F D
UniRef90_A0A059G2M0 S A H G P I L P I G A N L L A L L T P V S A F F R R R R W K G A L L L R H D A T V R I D E
UniRef90_A6FVJ5 S A H G P I L P I G S D V L L A L L T A I A P F R R R R W R G A L L L P S S A T V R F D
UniRef90_D5AMR5 S A H G P I L P I G S D V L L A L L T A I A P F R R R R W Q G A I L L P S S A T V R F D
UniRef90_F9DW34 S V R G A V I D P L L P C F Q V S E L A S Y R T L G T S F I L S A N R K L T L D
UniRef90_T0H0X5 S A N G P I L P L G S R M L A L L T P L S P F R R R R W K G A I L L P E S A E V E F R
UniRef90_W4RLE1 A L G G A I L H P S L R L Y R L R K W H P
UniRef90_A9D594 S A H G P I L P L D A Q L L A L L T P V S P F F R R R R W R G A L L L P N K V T V T M D
UniRef90_A9GZH4 S A H G P I L P L S A N L L L P L T P V S A F F R R R R W R G A L L L P N S T A Q V T T V T
UniRef90_Q28N05 S A H G P I L P L I G S D V L L A M T A V A A F F R R R R W R G A L L L P K K A L V T V E
UniRef90_Q9YD08 S G G P I L D P R L D V I V L T P I L N P V Q L L F L R S I V V P S D S G S R V T V E
UniRef90_D5RLQ0 S A Y G P I V P L G A N L L P L T P I S A F F R R R R W R G A L L L P S D A V V M F Q
UniRef90_A4YSC0 S V I Q G P I L P I N A A L L A L L T P I S A F F R R R R W R G A L L L P N T A Y V I E
UniRef90_E3RT84 S S G G P I L H P L V P S I C A L L T P I C P R S L S F R P L L V L P A E T P I T L R
UniRef90_X7F3V0 S A H G P I L P L G A D V L A L L T A M S A F F R R R R W R G A L L L P K T A E V T F E
UniRef90_G9ZVD0 S A H G P I L P L G T N L L P L T P V S A F F R R R R W R G A L L L P S D A V V L E Q
UniRef90_E4UC28 S A L G P I L P F G S P H L V L T P V S P F K R W S G A V L P N D V I E I Q
UniRef90_UPI00047409E1 A A G G P I L H P S I D G M I N P I C P M S L A S R P I V I P N T S M V I K
UniRef90_A0A059DXC0 S A H G P I L P I G A G L L A L L T P V S A F F R R R R W K G A L L L R R D A H V R I D
UniRef90_B3T8W7 S A G G P I L F Q A S N V F G I S V A S P N R L D T R R P I V S D N S L I E I S
UniRef90_Q8SUZ0 S L N G P I L L S E G I I V N V V A P N R C S F K P I V D I G S R V R V E
UniRef90_UPI0004646D45 S A H G P I L P L D A P L L A L L T P V S P F F R R R R W R G A L L L P N R A T V S F E
UniRef90_W7DKA9 S A H G P I L P L N S G N L L P L T P I C A F F R R R R W R G A L L L P S N T S I Q F
UniRef90_UPI00046EF20E S A H G P I V P L S G N L L P L T P I C A F F R R R R W R G A L L L P S T A H V G F T
UniRef90_UPI0003789B94 S L G G A V L H P T I E A L Q L A E I A S Y R T L G S S V V V P K K D K I A I
UniRef90_UPI0003943D41 K L R D A S L L Q P F K E L C V Y L T E I M L S P D A R
UniRef90_W4LZF1 A A G G P I L H
UniRef90_M0MU17 S E G G P I L H P D V P A L V V T
UniRef90_A8PU25 S A G G P I L P L S V S T M V L T P I L S P R S L S F R T L L L P D S A Q I V Q I F
UniRef90_U4V1C6 S A H G P I L P I G S A V F A M T A I L N A Y R R R R W R G A L I L P K A S H V D F E
UniRef90_T0JZC7 S A G G S I L H P L V K S L L T P I C P R S L S F R P L L V L P L N T K V T L K
UniRef90_K2MJH5 S A H G P I L P L D A N L L A L L T P V S P F F R R R R W R G A L L L S N Q A T V R F D
UniRef90_X5H3V9 A A G G P I L A L D S N C I T L T T I N A F P Q C R S I V L L D N S Q T I E I D
UniRef90_UPI000308F69B A M G A T P L P F N T P V L V L T P M G W R P A V L P I H T E V E M T
UniRef90_V9DAL5 S S G G S I V H P L V S S L L L T P I C A R S L S F R P L L V L P S T T P I T L R
UniRef90_G2QAK9 S A G G S I V H P L V K S L L I T P I C P R S L S F R P L L V L P S T H T K V L R
UniRef90_C1GF16 S S G G S I I H P L V P S L L L T P I C P R S L S F R P L L V L P S G T P V T L R

UniRef90_A4ES01 PDKRPMADAD 210 DSISFPDI EWVVEITGTPSIL 230 RHR 240
UniRef90_S9QMT1 VRPVMADADGRGTA GSVVSVVEITSE P
UniRef90_S5ZVE0 AHPANMILDGGKTVLSLGAEVRLISNSERMRLRILFVK E F E V K
UniRef90_W0AB68 VLD AVAVADQR E VRDVS L VESV V V
UniRef90_UPI00041087A9 VRPVA AVAD HFE LKNIVKVT VSDHATGLVLLHDPGHS
UniRef90_J9GJU6 SHNFLLS SDGKESLPDTT VLSVRRAPHTIKVIKLLK HFFET
UniRef90_Q9P7K3 ISSAFFFSDR HESVEMGDYLSLVTS HYPTTIQNP GY
UniRef90_Q8E571 PKRVTITSIDNKTHYKNVTKLEYSIDEKSNFVSTPS HTS
UniRef90_S5DPN3 IQNYA IQFDGVAEITQ
UniRef90_D9WV77 VGRVA VSIDGQLRLLE PGDWVAAYRA PARLR LVR PTEFYHR
UniRef90_G2ITK3 VRPVSAVAD QREVRDVAQVQI
UniRef90_Q9CIJ4 PDDYSLTFD
UniRef90_F7VJC0 IRPVA AVAD SIEIRDVVS VHVHE
UniRef90_Q8G0Z4 LRPVA AVAD NNEVKSV TSVTVREAP NSQVIT I
UniRef90_UPI0001DD0FEB INE PVA AVADQKEVRDVAEVHVEIAR DSELT L
UniRef90_D0CWD7 VDKR PVMADA DSISFPDILDWVVERSE PKVRHRLILFD P GHG
UniRef90_E8RQE1 V L E C DKRPVAASADTFEVR
UniRef90_U1HK46 VRPVA AVADHDEV RDVR RVIE L S DKTIAMRMLFD P GHS
UniRef90_D2MN13 SEDAVL LGADSKVSLKGL HDVEI RYSKEKKVRVLR TNWLN P
UniRef90_G0EED6 VGN AVWLIDGQVST PGEVLSVKSSES P VYI
UniRef90_A3UDG6 IRPVA AVADNKEFRDA ETVTI CQAPGH LTM
UniRef90_UPI0002E9E5BF IRPVNA AVADHTEAKSV LTVTV QQSRR
UniRef90_K1TUV2 LDDAVVTADGQGYIKNADEVIIT ESEYDFELIKIQSFYDT
UniRef90_Q817B5 LRP PVI GMDNEASLQKQVEKAVVRLS DKQIKTVKLLKN NS
UniRef90_R7NJC5 PNNLFIITLDGENKMEVNLKIDVKLEDDKIKC LKLMNFKT
UniRef90_UPI000467A011 VKR L VNA FADHTEVK HVLHVRLE QDPERAKVLS DPNR
UniRef90_A5V6G8 VLD AJI
UniRef90_UPI0003B3801F VRPVLAAAD SLSVPDVL SVEIRSE PAI RHR I
UniRef90_F0JBX8 ILIDP DHRPVGA AADSFEVRDVA KVRVVEEDHSRPAV
UniRef90_A2BKR3 LRP AKLIVIDGKLLSLRGA VVRAC LCGP VRIARYR
UniRef90_B9JDQ1 VRPVNA AADNTEVKS VVGVRITQSDTTARILS D PDR
UniRef90_UPI0003484DCFT LNNK L WMDGATSIWPGQWVSI S MAQCQAQFILIHSFYKT
UniRef90_B7QUG7 PDKR PVMADA DSISFPNVVRVVEIS QKKIRHKLILFD P GHG
UniRef90_U5VPH8 VDSAPVAVD
UniRef90_R5Q2E9 I
UniRef90_V4Q451 VDKR PLSA SADTFEVRNVVHV D IAE
UniRef90_UPI000263028C VRPVSAVAD QREIREVAHVHVEI
UniRef90_S0JII6 PEDVSVITVD QLITFNYEKIEAIEYSMDGKTIAFANC AHTS
UniRef90_UPI000468CD2C VQEVMA DADGTSYRDV ASVEIR
UniRef90_E3F396 VNDV MANAD SQ P FADI AVVEVRSEPAVSHR
UniRef90_UPI00047E5B7E
UniRef90_G3ARB0 VPDRAWASF DGKVRT E L G F Y V I QAS P F P F P T V T S S K Y I D S
UniRef90_F9MSU8 PERRYLVVDGEYTYRQLRKNIRMSKRKIQRITLKN D N
UniRef90_Q5LPA9 ADKR PVMADDSSTSI TD L R WVEIQ SEPTIRHRLILFD P GHG
UniRef90_UPI00046324BA IRPVNA AADHTEVKAVT SVTVRES
UniRef90_U3ATA2 V L E A
UniRef90_W1JUM5 V
UniRef90_UPI000470A21D
UniRef90_B6ITE2 VRPVSAVAD FTEVRDVL RVEVYE
UniRef90_A0A059IJ33 PEKR PVMAD EGDGRSVSGARVVEVRSEPAVRHRLILFD P GHG
UniRef90_UPI000471D6F8 VRPVA AVADSRMEIREVAHVSVRRSQS V T V L F D P GQT
UniRef90_A0A058ZKD8 VRPVMADADSR TA GVVISVEIESDP
UniRef90_J2AS50 IRPVNA AVADN TEIKSILHVRIADMTARILS D PDR
UniRef90_A0A017HM69 PEKR PVRADADSR PVQAVAVWVEVASEPAVRHHL
UniRef90_UPI00025590AB PEKRPI MAD
UniRef90_A0A022LUC0 IRSAA LIEVDGLVEVATGAQIRLRK DAGS VVR L D A E R H GRT
UniRef90_A0A059G2M0 VRPVA AADNQEVRD I K HVLVRESRET
UniRef90_A6FVJ5 PEKR PVMADA DSTI WVENVLWVEI HSE P
UniRef90_D5AMR5 VRPVMADADSR SVK PVLWVEIRSEPTITHRILFD P
UniRef90_F9DW34 VHQ PSTAADNEAGLIKQVEKVEAKLSNRVIR TAKLSD NS
UniRef90_T0H0X5 IREVA AVADQKEVRDVKTVRI VANA EKELTLLFD P GF
UniRef90_W4RLE1
UniRef90_A9D594 VRPVNA VAD HNEVKSV TRVVEVAESKETARILITDSS H
UniRef90_A9GZH4 IRPVA AVAD FTEVRD VVS VQIAEDRA
UniRef90_Q28N05 VVIEA
UniRef90_Q9YD08 SNPLVVNLDGQYELE PGGIVDI ER CGSGVRIARFRDYER
UniRef90_D5RLQ0 IRPVA AVADNQEVRD I R SVEVR
UniRef90_A4YSC0 VKR PVA AVADHDEV RNVRVVEV L S DKTIISM RM
UniRef90_E3RT84 LREVEVSLDGNITTE LGTGMEVRIIGGEVVK
UniRef90_X7F3V0 VRPVMADADSR SVRDVVRVDIRSE P
UniRef90_G9ZVD0 VRPVA AVAD YVIEVRDSVEVRRSKRLTLLFD P DH
UniRef90_E4UC28 VRPVIATAD RLAIIE PVSRLRITHS P DTTRI L S DPNR
UniRef90_UPI00047409E1 PGEIKLWTDGSKTIKENYCYEIKKGES PCKIKKFSYNT
UniRef90_A0A059DXC0 VRPVA AADNQ EVRDI VSDVQEDRRRLTMLFD P GHA
UniRef90_B3T8W7 RLHC D V V L D G I D R F K I N N K L E A T K F T P S A R I I R M K
UniRef90_Q8SUZ0 VDEPLITLDG
UniRef90_UPI0004646D45 IRPVNA AVAD HTEIRSVLKVITVREASDV TATV
UniRef90_W7DKA9
UniRef90_UPI00046EF20E VRPVA AVAD SIEVRDVT S VQREDRNLT V T L L F D P GQT
UniRef90_UPI0003789B94 PDRYSLSVDNKT YVY DSIEFYLDNTKIN FVA T PS HTS
UniRef90_UPI0003943D41 NTA WVSFDGRKRQEIGDSISITTS CYPLPSILCFRDPVSD
UniRef90_W4LZF1
UniRef90_M0MU17
UniRef90_A8PU25 VSPA EVSVDGRHTL I K Q Q S A S V Q M S P F P I P C I T F S P
UniRef90_U4V1C6 VRPVMADADSRSFANV ARVSVK
UniRef90_T0JZC7 VSELEVSIDGKRSAP IGT E I R V E
UniRef90_K2MJH5 IRPVNA AVADHTE
UniRef90_X5H3V9 VRPVMADADAQVFINIKARISIDRKNSVI ALFRKDN S
UniRef90_UPI000308F69B TRPLMGYMDG VPLGSSVKVRVSR
UniRef90_V9DAL5 GRELVEVSDGMRRIIGVIGTELRVSE
UniRef90_G2QAK9 GREL P V S I D G K R R V I G M E V R V E
UniRef90_C1GF16 LSEVEVSI DGGELR V G M E V R V

UniRef90_A4ES01 F D
UniRef90_S9QMT1
UniRef90_S5ZVE0 N E K K
UniRef90_W0AB68
UniRef90_UPI00041087A9 N E
UniRef90_J9GJU6 R D K M
UniRef90_Q9P7K3
UniRef90_Q8E571 F W E R
UniRef90_S5DPN3
UniRef90_D9WV77 R D R F R
UniRef90_G2ITK3
UniRef90_Q9CIJ4
UniRef90_F7VJC0
UniRef90_Q8G0Z4 F D K N H S
UniRef90_UPI0001DD0FEB F D K G H A
UniRef90_D0CWD7 E E R
UniRef90_E8RQE1
UniRef90_U1HK46 E E R
UniRef90_D2MN13 D N K S
UniRef90_G0EED6
UniRef90_A3UDG6 F D K G R A
UniRef90_UPI0002E9E5BF
UniRef90_K1TUV2 I K K
UniRef90_Q817B5 F W E K V Q
UniRef90_R7NJC5 N N K
UniRef90_UPI000467A011
UniRef90_A5V6G8
UniRef90_UPI0003B3801F F D E G H G
UniRef90_F0JBX8 F D P D H S
UniRef90_A2BKR3
UniRef90_B9JDQ1
UniRef90_UPI0003484DCF R E K Q
UniRef90_B7QUG7 E E R
UniRef90_U5VPH8
UniRef90_R5Q2E9
UniRef90_V4Q451
UniRef90_UPI000263028C
UniRef90_S0JII6 F W E R K N
UniRef90_UPI000468CD2C
UniRef90_E3F396
UniRef90_UPI00047E5B7E
UniRef90_G3ARB0 S R N H
UniRef90_F9MSU8 Y W T N K S
UniRef90_Q5LPA9 E E R
UniRef90_UPI00046324BA
UniRef90_U3ATA2
UniRef90_W1JUM5
UniRef90_UPI000470A21D
UniRef90_B6ITE2
UniRef90_A0A059IJ33 E E R
UniRef90_UPI000471D6F8 S E R A S
UniRef90_A0A058ZKD8
UniRef90_J2AS50
UniRef90_A0A017HM69
UniRef90_UPI00025590AB
UniRef90_A0A022LUC0 G R K
UniRef90_A0A059G2M0
UniRef90_A6FVJ5
UniRef90_D5AMR5
UniRef90_F9DW34 F F E K Q
UniRef90_T0H0X5
UniRef90_W4RLE1
UniRef90_A9D594
UniRef90_A9GZH4
UniRef90_Q28N05
UniRef90_Q9YD08 Y T R
UniRef90_D5RLQ0
UniRef90_A4YSC0 F D A G H S
UniRef90_E3RT84
UniRef90_X7F3V0
UniRef90_G9ZVD0
UniRef90_E4UC28
UniRef90_UPI00047409E1 I K K
UniRef90_A0A059DXC0 D E R
UniRef90_B3T8W7
UniRef90_Q8SUZ0
UniRef90_UPI0004646D45
UniRef90_W7DKA9
UniRef90_UPI00046EF20E S E R
UniRef90_UPI0003789B94 F W E R K
UniRef90_UPI0003943D41 W F E S
UniRef90_W4LZF1
UniRef90_M0MU17
UniRef90_A8PU25
UniRef90_U4V1C6
UniRef90_T0JZC7
UniRef90_K2MJH5
UniRef90_X5H3V9 R K K
UniRef90_UPI000308F69B
UniRef90_V9DAL5
UniRef90_G2QAK9
UniRef90_C1GF16

1 10 20 30 40

```

UniRef90_E0S829  R F L L V T K N D V N E E L I E R V K S S L D C D V Y D H G I N Y
UniRef90_I7ASE4  R F L I V T K N G N D A E L V E K I R H S L D C H T L D Q G I E Y
UniRef90_I1BPB8
UniRef90_A7T4S9
UniRef90_L2GMQ1
UniRef90_Q500Y9
UniRef90_UPI00037002CC
UniRef90_Q5FGA8
UniRef90_S0B2V1
UniRef90_E8RA75
UniRef90_UPI00036F36FB
UniRef90_UPI000368C1E9
UniRef90_M4F1V3
UniRef90_Q3YR41
UniRef90_W4LYG3
UniRef90_F21T2
UniRef90_UPI000368572B
UniRef90_X1LZC8
UniRef90_Q7NAU0
UniRef90_A1RVY6
UniRef90_B3CRT5
UniRef90_I1M2W0
UniRef90_E0CS10
UniRef90_A9SDX5
UniRef90_S6C667
UniRef90_H6Q7D3
UniRef90_W9DUP1
UniRef90_K2CGW7
UniRef90_A0A022RDW9
UniRef90_W5DCP4
UniRef90_G4RMZ5
UniRef90_E7QSV0
UniRef90_K1VS05
UniRef90_R4W6W1
UniRef90_UPI00042B1EFA
UniRef90_Q9N4A9
UniRef90_I1IPH1
UniRef90_W5ENK3
UniRef90_L9ZU83
UniRef90_UPI0002FAF5B6
UniRef90_A0A024GDM3
UniRef90_Q1RH32
UniRef90_G0TYY4
UniRef90_R6E6Z2
UniRef90_H6N8N1
UniRef90_L9W5N2
UniRef90_R5PU29
UniRef90_B7FV00
UniRef90_L0ACZ0
UniRef90_H8ZEI9
UniRef90_A8M8T8
UniRef90_K2G506
UniRef90_L0I772
UniRef90_DOMQC3
UniRef90_L0JMU5
UniRef90_F2Z9R6
UniRef90_K4EA28
UniRef90_H2WQ66
UniRef90_UPI0003ACD0C2
UniRef90_Q9CUB4
UniRef90_L9ZNR1
UniRef90_G0NAB0
UniRef90_G0HQJ2
UniRef90_U1NZN1
UniRef90_W5PMJ7
UniRef90_W5K781
UniRef90_UPI000298BEED
UniRef90_V6HTX9
UniRef90_M0EAB5
UniRef90_M0NWU1
UniRef90_UPI0001E477F8
UniRef90_S3UL06
UniRef90_UPI0002A4CE5E
UniRef90_C7P1V7
UniRef90_T1L1M6
UniRef90_W5JQF3
UniRef90_A6H8J0
UniRef90_E9UUE6
UniRef90_A4RTT4
UniRef90_A0A023GCP6
UniRef90_K5C169
UniRef90_UPI0003CFD4B4
UniRef90_T0F5G2

```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25

CCCCCCCCCCCC

8 1 7 8 8 8 4 5 8 6 2 4 8 9 9 9 9 9 8 7 4 5 8 6 0 8 8 6 1 5 6 7 7 7 7 7 7 4
B B

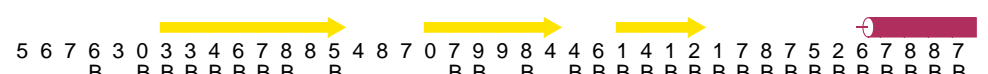
UniRef90_E0S829 Y S S V D E L I A R L R G N G E I K F M E T K R L C L Q P K H Y F L N E A I I 120
UniRef90_I7ASE4 H T A I D E L I G R L R N G K R I E L V E V K R L C L S K K H Y F L N D A V I R
UniRef90_I1BPB8
UniRef90_A7T4S9 F D R F R E H V R C I I T K Y H T D S N E N C K T P N M Q R Y T V L N E V V I D D
UniRef90_L2GMQ1 L Q D L R N I L K A I E K N E L T T F K K S R L L V S S H G I L V A N E L V V R
UniRef90_Q500Y9 L S D Q F D A S R S T G H L C A A T V E N F E Q V L D D I L F H A L N D I L L I A
UniRef90_UPI00037002CC
UniRef90_Q5FGA8 S E Y N L I D R I N K A V P T Q T L N M V A T D I Y Q H K H E S T A I N E V S L
UniRef90_S0B2V1 E E S V E I D R P V R C Y T H P Y L T A T S I M G E N T L P P V K A F N D V W I
UniRef90_E8RA75 I P S A S L I V E K V L D F M V Q L Y P R G R V C V R D R C V Y F L N E A A V L
UniRef90_UPI00036F36FB P E E V L K R L T E D K L V Y R Y M K L T C S V Y P S H Q F E A L N E V M V E
UniRef90_UPI000368C1E9 N D S S D L M E L T Y S S E I T F L N P L Q A Q V N R S D K C Y L A F N E C T I
UniRef90_M4F1V3 V E N F E Q V L D D I L Y G R I V P S K V S R I S V K L N T E H A L N D V L I A
UniRef90_Q3YR41 S D H N L I D R I N Q S V P T T V L N M V A I D T N K N Q H N A I A I N E V S L
UniRef90_W4LYG3 A A D R A T I G E R F A D T L E L V P L T R L Q L A I N D Q F Y A L N D I L L I A
UniRef90_F21T2 S I G K L K A K S N Q I L N P L Q M T V T T R T K T I K K I T A I N E V S I F
UniRef90_UPI000368572B D E K D L I N K I N K A N I A E L H P L E M Y A K N K N G K I K T A I N E V S V
UniRef90_X1LZC8 A D E A V D W I D E R A V L E A E L S P T N Q E H K S A R I F Y A L N D V V A
UniRef90_Q7NAU0 E T N I D Q I A N N L D Q L K Y T Q L D F I R L Q I D D F I H A L N E F N I N
UniRef90_A1RVY6 A L E I R E V P L L A E F V F E I T D V I R L E A E S G G Q R A T I N E V A L L
UniRef90_B3CRT5 N N K H D L I E Q I S A K V V A L N P L R A K V A Y N D K I C F A F N E C T I
UniRef90_I1M2W0 F G S E F D A H R S T G H L C E L T R I M S V N G L D L S T Y A L N D I L L I A
UniRef90_E0CS10 I G N F E Q V L D D I L D D R R T P S N L S R M S I C L N P T Y A L N D A L L I A
UniRef90_A9SDX5 A E N F E Q M L D D I L N G T M E P A E V T R I A T F I D D T P A L N D I L L I A
UniRef90_S6C667 Q F F A L N D I A I T
UniRef90_H6Q7D3 A F D V R E L P D L E N A K C K V A E I P R L M A E S A H G Q V V V N E V A V F
UniRef90_W9DUP1 S S K N I I K N L S R A N K I S I S P L E M I V K N R N N Q L K K I N E V S V L
UniRef90_K2CGW7 K E E V L L K N L A E G R M L I K Q Y S K L E T T I F Y Q K L J A L N D F V I R
UniRef90_A0A022RDW9 L S E E F D A T R K R F V P S E L A R M A I S I N S K L I A T S A L N D V L L S
UniRef90_W5DCP4 S E Q Y R D T L R N R L Q C H V I R D A A K D E I V T E E P I L V L N E V T I D
UniRef90_G4RMZ5 S E D L L P L V L N R S E C R V L K I P R L H A E S G G R I V R A V N E V A I F
UniRef90_E7QSV0 P D D I E P A V A D L L A G E W T T V D R P L T V D G E H V A D A L F D A T L V
UniRef90_K1VS05 V Q D I D R A L H Y I L G D G E V E N R M L N A M P E S G W Q V M N E V C L H
UniRef90_R4W6W1 A D R A I E A V V A G E A T E A A P L L E V A V A D D A I H T T A Y R D V T L I
UniRef90_UPI00042B1EFA F S N E F D A A A T V K N F E Q V V L D S F L E G Q T V P S K L S R I S V S V N
UniRef90_Q9N4A9 P R D L I E R L V S G N L K W V L Q R T R I R V T V K E S R N S F L N E V F I G
UniRef90_I11PH1 L T D D F D A R R S T I H H S E L S R I S V K L N G F Q L P T Y A L N D I L V A
UniRef90_W5ENK3 F E G F R Q D M R A V I H G N Y I T L R M R L R C M P G K V F D V L N E V V D
UniRef90_L9ZU83 R L P A A L E A A L D G R A V R R E R P V L G V V L E P I R E R A L F D V T L I
UniRef90_UPI0002FAF5B6 R T H G L T E R L Q A F S M E L P V L Q A E I E Q A G G H S R V L F N E I V L
UniRef90_A0A024GDM3 V C N R F S T V L E R L L E G K F N W R L R Q R I W Y E L P R Y A L N E V F I A
UniRef90_Q1RH32 P L D L K N I L Q N I Q E S T A S T L N P L L M V D G Q I H K A L A I N E V S I
UniRef90_G0TY4 F S A P L K L Y T T S M L Y C L A E Q E E S P G G D K T V H A K L A F N D A W V
UniRef90_R6E6Z2 P S E I E S A G E Y K I E N H T V I Q V E A N G E P I T G Y P Y A L N D I A V L
UniRef90_H6N8N1 N L P T H T L E N F I F H D L L E V E G K S S H Y A F N D F Y I S
UniRef90_L9W5N2 P D A G D A T I R Q R S V L G V D V D D G T T R D G N N T P A R A L N D V T L V
UniRef90_R5PU29 L D D M D R V L P A M L A G E C S A D Q R H L N G Q E I F R N V A V N D I G F S
UniRef90_B7FV00 M E D G L A Q V L Y G G Y L Q A R T R I R C K V K S T F S E T R L N D L L A
UniRef90_L0ACZ0 P D R L S A Q L A V L Y G E A T V R E R S L S T G W D E L T Q A L F D V L V
UniRef90_H8ZE19 F D H C M G D F E I D R L Y R D C T I K R R R L L N Q S V Y A L N E I Y I Y
UniRef90_A8M8T8 V T D F G D L M S S L K G N Y T V E A I P T L T T G Q G Y V A L N D I V A
UniRef90_K2G506 W F K I N D W E T F R A M R Y P M L D I E V D T W N G K L H H T A F N E A Q I K
UniRef90_L01772 T V I E W D S D H L F E I G G D T R L D A T L S I E T D T T S E L A V R D L A L V
UniRef90_DOMQC3 V T H R F S T A L D R L L E G D Y K W R L R Q R I W Y E L P R Y A L N E V F I A
UniRef90_L0JMU5 R E R L S D A V R Q V L R G A T A R Q D R P V E S D P I A R E R A L F D V T L I
UniRef90_F2Z9R6 S E E F D D I L E N H A R P S E V S R M S V T L N S K Q L S P Y A L N D V L I A
UniRef90_K4EA28 S T L G E L F F A P L K L H T I L M L Y C L A E K E T E T G E K V L F N D A W V
UniRef90_H2WQ66 P R N L I E L L V S G K L K W V Q S R I R V T V K E S S K Y S S I F E V F I G
UniRef90_UPI0003ACD0C2 P V D L H E Q Q L S L H Q H S R A F N I E R V H G P Q L L P V R A L N E V F I G
UniRef90_Q9CUB4 F P E A L R R F S R G E F R W L W R Q R I L Y G P Q L L P V R A L N E V F I G
UniRef90_L9ZNR1 H C E R P V L E C T A T L A D G S E T T V R A L F D L T L I A
UniRef90_GONAB0 P R D L I S R L V S G K L D W V Q R T R I R V T V S T K S G F F S L N E V F I G
UniRef90_G0HQJ2 R D D A V A A V S G L A D A R V E T H P V L R V A M P D T V E Q A F W D V T L V
UniRef90_U1NZN1 C K D V S E A E D E M C E K S D G L R K A R L F R T D S F D P E M L N D V F L I G
UniRef90_W5PMJ7 L P V R Y T H S F P E A L Q K F Y R G E F S L R W L W R Q R I R L Y L E G T G I
UniRef90_W5K781 F S E A L H K L R K G D F R W Q R R I R M H T P H L L P V R G L N E I F I G
UniRef90_UPI000298BEED F P E A L D K L S R G E F R W L W R Q R I R L H L E G T G I N P T L N E I F I G
UniRef90_V6HTX9 V D D L K K A L E T G W E N A A I E E W P L I E V K I H Y P D Q G I S E I S I R
UniRef90_M0EAB5 T E R L A D V V D E M L D G F T R A A H P V L S V E A A D D G T A L F D V A L V
UniRef90_M0NWU1 T E R V A G V V D E G F S R V A H P V L A V D G A G D A P D R F A A D V A V V
UniRef90_UPI0001E477F8 A E S D E E Y H E K S D K L R E A R L F L Q D N G Y P E Y P L L A L N D V F I G
UniRef90_S3UL06 T S D L A K A V S E N W A G L E I E E W P R I D V R I E Y P F Q G I S E I S I R
UniRef90_UPI0002A4CE5E F P E A L D K L S R G E F R G L W R Q K I R L P L E G T E I N P P L N E I F I G
UniRef90_C7P1V7 A V I E A A P S I V A G E W T T E S H P L V A V E L D G E R V D C A L L D V T L V
UniRef90_T1L1M6 N D L D L M E L D K L Y S N K F K W F Y R Q R I R V T L E G V N A E D D P I E L H
UniRef90_W5JQF3 P M D L H E Y H S Q P I E H K E V M S P V R N G Q S R I L P Y L A L N E V F I G
UniRef90_A6H8J0 F P E A L Q K L Y R G E F R W Q W R Q R I R L Y G P H L L P V R A L N E V F I G
UniRef90_E9UUE6 R Y T P R A A A D L I R S T G T C E E R T M V E A V A D D G Q S L V A L N E V Y
UniRef90_A4RTT4 A E T V L D G A L R G T L K P T R L A R I R T V L N G K V L E P A L N D V L I A
UniRef90_A0A023GCP6 E N F P L A L K R L L T G K F Q W M W R Q R L R V T L K G E H A F D A P V E L H
UniRef90_K5C169 A E E L K T A V K N N F Q H T Q V E S W S L L D T E I L Y P N P A I C E L S I R
UniRef90_UPI0003CFD4B4 Q E K S L P K T F E E L D I V K V H P M Q I E V V T Q E A T R H L I L N D V I R
UniRef90_T0F5G2 V N D I E E S L R Q N W T D V K I E Q W P L I N V R I E Y P F Q G I S E I S I R

lupas_21
lupas_14
lupas_28
jnet
conf
sol25



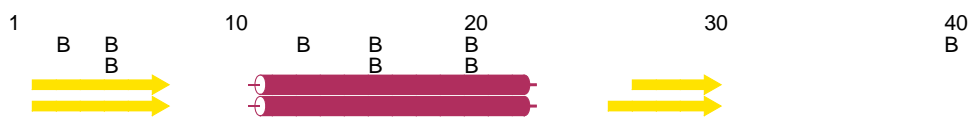
UniRef90_E0S829 K P S S S L G L G T F K I F I L D D D T M I E 140 L R G D A V I V ST R G S S A Y N A
UniRef90_I7ASE4 P S S S L G L G T F K I F I L D D D D S L V L R Q G D A V L V ST A T K T G S S T A Y N A
UniRef90_I1BPB8 R G T S S N M S F L E V L F A D D R H L T T V Q Q G D G L C I AT AT AT G S S T A Y N A
UniRef90_A7T4S9 R G Q S S P Y T L S N L E L V Y C A N D Y H L T S V V Q G D G L I I ST A T P T G S S T A Y N A
UniRef90_L2GMQ1 S K M F R L N R F N L A T N G Y G F E L Y A S S E L V V ST R T G S S T A Y N A
UniRef90_Q500Y9 K P C P A A V S R F S F K I K N K D T V N C R S S G L R L C AT A A G S T A A M Q
UniRef90_UPI00037002CC Q S A S G R M L E M V L E I D G R P L S R W G C D G L V V C AT P T G S S T A H A A
UniRef90_Q5FGA8 F R S T H Q A T N L Q I K I N D K V M E K L V S D G L V ST P A G S T A Y N F
UniRef90_S0B2V1 E R N C G Q C C W F E V T S I N D G V R I P K L T C D G C I C AT Q A G S T A G Y N R
UniRef90_E8RA75 N M D M G R V I G F T V T V R S Y S R Y D F E G D G F L V ST A P G S A G A M L
UniRef90_UPI00036F36FB K G K L N T A V R F K I W I D G I S Y E D L L G D G F M I ST P F G S T A Y F S
UniRef90_UPI000368C1E9 L R K T S Q V T K L E L R V D D N I T Q P S L L G D G L L V ST L V G S T A Y N Y
UniRef90_M4F1V3 H P C P A A V S R F S F K I K S Q K T V N C R S S G L R V C AT A A G S T A A M L
UniRef90_Q3YR41 F R S T H Q A A N L Q I K I N S R V M E K L V S D G I L V ST P A G S T A Y N F
UniRef90_W4LYG3 H I N P A A M A Y E L V I G A E C E R Q K S G L W L ST A A G S T A G I R
UniRef90_F21T2 R Q S R Q T T K L E L V Y I D G K V R I K Q T G D G L L I ST A A G S T A Y N L
UniRef90_UPI000368572B F R E T R Q A A K L E L K I D N K V R M E I C D G T L V AT P A G S T A Y N L
UniRef90_X1LZC8 R G A A T A R I V Y V E A S I N G E P L T T Y K A D G V I V AT AT G S T G Y S L
UniRef90_Q7NAU0 S T T A Y G Y D T F I V D N E F Y T K F R G T G L L I ST T T G S T G Y N K
UniRef90_A1RVY6 S A E P A T F V R Y S L Y V D G A F V F N D M G D G C L I ST P I G S T A Y A L
UniRef90_B3CRT5 L R Y S S Q A L K V D L K T D N E G D F R L N L F G D G V L V ST A T A V G S A A Y N Y
UniRef90_I1M2W0 H P C P A A V S R F S F K I K E G D Q V N C R S S G L R V ST A T A G S T A A M Q
UniRef90_E0CS10 H P C P A T V S R F S F K I K E R E G H V H C R S S S G L R V ST A T A G S T A A M L
UniRef90_A9SDX5 H P S P A A I S R C S F S I S E K Q V T E E L R S S G L R I ST A T G S T A A M K
UniRef90_S6C667 R G A M G R L I E L T L N V I N G V D V A R M R G D G L V V ST A T G S T A Y A L
UniRef90_H6Q7D3 P E K S A T F L R Y S L Y I N G V F I F N D L G D G V L V ST P L G S T A Y A L
UniRef90_W9DUP1 R Q S R Q A A S L S I K T H G S K K V E I K N L V S D G V L V ST P A G S T A Y N L
UniRef90_K2CGW7 N A T P I H T I R F K R K E E E V H C R S S S G L R V ST A A G S T A A M H
UniRef90_A0A022RDW9 H P C P A T V S R F S F R I R K E E E V H C R S S S G L R V ST A A G S T A A M L
UniRef90_W5DCP4 R G I S S Y L T Y L A Y C Y C D S S F V T C V Q Q G D G L I I ST T S G S T A Y S L
UniRef90_G4RMZ5 P R R S A S L M S Y A V R V D G A L F N D V A D G V L I ST T P L G S S A Y A R
UniRef90_E7QSV0 T S E P A R I S E Y S V R V A G E E V S Q F R A D A V V V ST P T G S L G Y A H
UniRef90_K1VS05 R G R Y P H L P S V D V I Y Y N G G H L T K G L V V ST L R A V H T K L T T
UniRef90_R4W6W1 T A E P A K L I S E F I R A G G H L D T V R A D G V V V AT P V G S H G Y A A
UniRef90_UPI00042B1EFA S K A L P A Y A L N D I L T A H P C P F S F K S S S G L R V ST A A G S T A A M L
UniRef90_Q9N4A9 E D E A A K V S T Y N I S L D D S Q T V K Q K S S G L L V ST T G T G S T A W Y L
UniRef90_I11PH1 H P C P A A V S R F S L R K R S S T G E T S H S S G L R V ST A T G S T A A M L
UniRef90_W5ENK3 R G S N P Y L S K I E C Y E H N H L I T K V Q G D G V I V AT P T G S T A Y S T
UniRef90_L9ZU83 T D E P A R I S E Y S L R D R G S D V A T F R A D G V V V AT P A G S H G Y A S
UniRef90_UPI0002FAF5B6 V R O Q V F Q A K L N V A V D G K D P T I N G D G L V L T T P L G S T G Y N R Y
UniRef90_A0A024GDM3 E S D A S R P S H Y N I G V D Q H Q R E S Q R S S G L I V C T G T G S S A W Y Y
UniRef90_Q1RH32 F R K T N Q A A K F R I E V N G E R M S E L V A D G A L V AT P A G S S A Y N L
UniRef90_G0TY4 E R S S G Q A L T I R V L V N G E S I R R L C G A D G L V AT A A G S T A Y C R
UniRef90_R6E6Z2 K R D I A S M I T I R T H I D G E L V A Y Q A D G L I I AT P T G P T
UniRef90_H6N8N1 G D L M L E L E T S L N N Y Y L E R F R G S G L L E ST P I G S T A F N R
UniRef90_L9W5N2 T D E P A R I S E Y G V S S R G E S V A T F R A D G V V V AT P A G S R G Y A S
UniRef90_R5PU29 H G R A G M V D F I Y V D G K Q M S A Q S A D G V V W
UniRef90_B7FV00 N P S P A A V S R F R L R G W M N S L N V W S S G M W L ST S T G S T A A M A
UniRef90_L0ACZ0 T D E P A R I S E Y G V R D N G E V A T F R A D G V V V AT P A G S H G Y S S
UniRef90_H8ZE19 Q R E K G L L G A L S I S I D S Q T H Q A V R C D G V I I ST P T G S S G Y N A
UniRef90_A8M8T8 P T R S A T L M E Y T L I I N N E F A W R D S A D G L I I AT P T G S T A Y A L
UniRef90_K2G506 T A W G H M V D L N L Q I W D L S K I R L K W D Q I W D L S K I L R L K W D W L
UniRef90_L01772 T T E P G A I A T F T A T S R G D P I T E V R A D G L V V AT P A G S R G F A H
UniRef90_D0MQC3 E S D A S R P S H Y N I G I D D G H Q R E S H R S S G I L M C T G T G S S A W Y S
UniRef90_L0JMU5 T D E P A R I S E Y G V Y S R G S V A T F R A D G V V V AT P A G T H G Y A S
UniRef90_F2Z9R6 H P C P A T V S R F S F R T K K E E Q S H C R S S S G L R V ST A A G S T A A M L
UniRef90_K4EA28 E R S S G Q T A L T R I V N G E E R I H L R G D G V L V ST A A G S T A Y C Q
UniRef90_H2WQ66 E D E A A K V S T Y N I S I N D D S M V K Q K S S G M I V T T G T G S T A Y L
UniRef90_UPI0003ACD0C2 E S L S S R M S Y S W I S V D D D G P W E K Q K S S S G L N L C T G T G S K A W S F
UniRef90_Q9CUB4 E S L S S R A S Y F E I S V D D D G P W E K Q K S S S G L N L C T G T G S K A W S F
UniRef90_L9ZNR1 A E E P A A I S E Y S V I R S R G E S V G S V R A D G I V I AT A L G T H G Y A S
UniRef90_G0NAB0 E D E A A K V S T Y N I S I D D S P T V K Q K S S G L V V ST G T G S T S W Y L
UniRef90_G0HQJ2 T A D A A R I S E F T I A S T A D R I L G Q F R A D G V V I AT A A G S P G Y V H
UniRef90_U1NZN1 E S H A A R V S Y Y D V I Q V D D D G P M L R Q K S S G L T V ST G T G S T S W N Y
UniRef90_W5PMJ7 N P V P V D L H E Q Q L S L N Q H
UniRef90_W5K781 E S L S S R A S Y E I S I D D D G P W E K Q K S S G L S I C T G T G S K A W S Y
UniRef90_UPI000298BEED E S L S S R A S Y E I S V D D D G P W E K Q K S S G L S I C T G T G S K A W S Y
UniRef90_V6HTX9 N N S P D L T S R F L I C H G D E M E E Q K C S S G L L V Y T G A G S T G W V M
UniRef90_M0EAB5 T A E P A R I S E Y G I A F S D G D E S V M R A D G A V V AT P L G S D G Y A A
UniRef90_M0NWX1 T A E P A R I S E Y G I A F S D G E S V S V R A D G A V I AT P L G S D G Y A A
UniRef90_UPI0001E477F8 E S H A S R V S Y Y D V Q I D D G T V V R Q K S S G M T A C T G T G S T S W N Y
UniRef90_S3UL06 N N S P D L T S R F L I S H E G I T E E Q K C S S G L L V Y T G A G S T G W V M
UniRef90_UPI0002A4CE5E E S L S S R A S Y E I S V E D G P W E K Q K S S G L S I C T G T G S K A W S Y
UniRef90_C7P1V7 T S E A A R I S E F A V T A R A T H V G Q F R A D G V V V AT P A G T P G Y A R
UniRef90_T1L1M6 N Q Q L M Y P E Y R Y L E A D E K M M C D H A P G R V S P C S P H T S F A S Q
UniRef90_W5JQF3 E M L S A R V S H L H L R I D S E T V T K T K S S G L C V S T G T G S T S W L T
UniRef90_A6H8J0 E S L S S R A S Y E I S V D D D G P W E K Q K S S G L N V C T G T G S K A W S Y
UniRef90_E9UUE6 V G Q T H A Q T A R Y R L T V A G R T E S Q A S S G L I V AT G T G A T G W A R
UniRef90_A4RTT4 H P S P A A V S R Y S V R L D G K R F H V R S S G V R T C T A S G S T A A M Y
UniRef90_A0A023GCP6 D Q Q L Q Y P E Y R F L D C W Q E Q H
UniRef90_K5C169 N N S P D L T S R F W I S Y Q G Q K E E Q K C S G L L V Y T G A G S T G W L S
UniRef90_UPI0003CFD4B4 G G N I L D Y F S F W L H H G E S F D K H I L G T S L I L S T S L G S S G Y R L
UniRef90_T0F5G2 N N S P D L T S R F L I S H E G S V E E Q K C S G L L V Y T G A G S T G W V M

lupas_21
lupas_14
lupas_28
jnet
conf
sol25

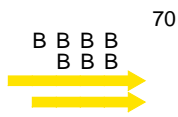
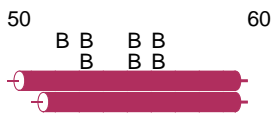


UniRef90_E0S829
 UniRef90_I7ASE4
 UniRef90_I1BPB8 WF S S Q T
 UniRef90_A7T4S9
 UniRef90_L2GMQ1 T R N K
 UniRef90_Q500Y9 R S R
 UniRef90_UPI00037002CC V A K
 UniRef90_Q5FGA8
 UniRef90_S0B2V1
 UniRef90_E8RA75
 UniRef90_UPI00036F36FB
 UniRef90_UPI000368C1E9
 UniRef90_M4F1V3 R S R
 UniRef90_Q3YR41 F D K G H N
 UniRef90_W4LYG3
 UniRef90_F211T2 Y N K
 UniRef90_UPI000368572B
 UniRef90_X1LZC8
 UniRef90_Q7NAU0
 UniRef90_A1RVY6
 UniRef90_B3CRT5 E D K
 UniRef90_I1M2W0
 UniRef90_E0CS10
 UniRef90_A9SDX5
 UniRef90_S6C667
 UniRef90_H6Q7D3
 UniRef90_W9DUP1 Y D K N R S
 UniRef90_K2CGW7
 UniRef90_A0A022RDW9
 UniRef90_W5DCP4
 UniRef90_G4RMZ5
 UniRef90_E7QSV0
 UniRef90_K1VS05
 UniRef90_R4W6W1
 UniRef90_UPI00042B1EFA
 UniRef90_Q9N4A9
 UniRef90_I1IPH1
 UniRef90_W5ENK3
 UniRef90_L9ZU83
 UniRef90_UPI0002FAF5B6
 UniRef90_A0A024GDM3
 UniRef90_Q1RH32
 UniRef90_G0TY4 Q Q K
 UniRef90_R6E6Z2
 UniRef90_H6N8N1 F
 UniRef90_L9W5N2
 UniRef90_R5PU29
 UniRef90_B7FV00
 UniRef90_L0ACZ0
 UniRef90_H8ZE19 Y N K M H S
 UniRef90_A8M8T8 I E S M
 UniRef90_K2G506 W N A K
 UniRef90_L0I772
 UniRef90_DOMQC3
 UniRef90_L0JMU5
 UniRef90_F2Z9R6
 UniRef90_K4EA28
 UniRef90_H2WQ66
 UniRef90_UPI0003ACD0C2
 UniRef90_Q9CUB4
 UniRef90_L9ZNR1
 UniRef90_G0NAB0
 UniRef90_G0HQJ2
 UniRef90_U1NZN1
 UniRef90_W5PMJ7
 UniRef90_W5K781
 UniRef90_UPI000298BEED
 UniRef90_V6HTX9
 UniRef90_M0EAB5
 UniRef90_M0NWU1
 UniRef90_UPI0001E477F8
 UniRef90_S3UL06
 UniRef90_UPI0002A4CE5E
 UniRef90_C7P1V7
 UniRef90_T1L1M6
 UniRef90_W5JQF3
 UniRef90_A6H8J0
 UniRef90_E9UUE6
 UniRef90_A4RTT4
 UniRef90_A0A023GCP6
 UniRef90_K5C169
 UniRef90_UPI0003CFD4B4
 UniRef90_T0F5G2

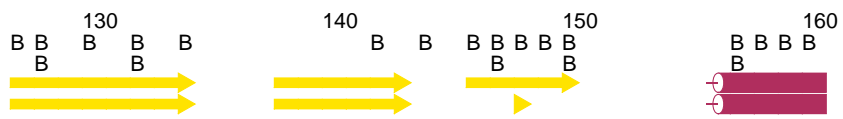
lupas_21
 lupas_14
 lupas_28
 jnet
 conf 8 8 9 8 6 0 8 9
 sol25 B B B



sol5
sol0
jhmm
jpssm



sol5
sol0
jhmm
jpssm



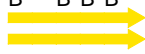
sol5
sol0
jhmm
jpssm

B B B B B



170

B B B B B B B B B B
B B B B B



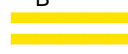
180

190
B B B



200

B B
B



sol5
sol0
jhmm
jpssm



