

QUERY 1 10 20 30 40
UniRef90_A0A059G5P2 S G P L L S G L V R V I V E L F A G I V G P P P H A A M I L L G D L G G A D V I V I R I I D R R P S G R G
UniRef90_A0A038H6U9 G P P L L A G L V R I V E L V G G I V G P P A P F C C C M L L A D D M G G A D V I V R R I D D D Q P P P N T
UniRef90_Q13I84 A G P P L L A G L V K V I E L M V G I G P P G P F C C A M M L L A D D M G G A D V I V R V L D D R P P V P
UniRef90_Q39MW4 T G P P L L A G L K V I E L L G G I G P P G P F C C A M M L L A D D M G G A D V I V R V L D D R P P G A
UniRef90_W9AMP2 A G P P L L H G L R V I E L A G I G P P G P F C C A M M L L A D D H G G A E V I V R I V D D R P P G A
UniRef90_M2U2B6 A G P P L L Q G L R V I E L L A G I G P P G P F C C A M M L L A D D H G G A E V I V R I V D D R P P A G
UniRef90_UPI000371D27B G P P L L A G L V R V I E L L Q G L G P P G P F C C A M L L A S D F G G A E V I V R I V D D R P P A G
UniRef90_A1TDV3 A G P P L L Q G L R V I E L L A G I G P P G P F A A M I L L A G D D L L G A D V I V R I V D D R P P G
UniRef90_UPI00037DBB49 G P P L L A G L V R V I E L L A G I G P P G P F A A M I L L A D D L L G A D V I V R I V D D R P P F G
UniRef90_D9WSE3 T G P P L L A G L V R V I E L L A G I G P P G P F A A M L L A G D L L G A D V I V R I V D D R P P F G
UniRef90_Q0VPC1 T G P P L L H G L K V I E L F A G L G P P A P F C C G M M L A D D M G G A T V I V S V Q D R P P G G G
UniRef90_D5UX06 G P P L L A G L V R V I E L A G I G P P G P F A A M L L A D D L L G A D V I V R I V D D R P P G G P
UniRef90_B4VF96 G P P L L A G L V R V I E L A G I G P P G P F A A M L L A D D L L G A D V I V R I V D D R P P G G P
UniRef90_UPI000464FDD0 G P P L L S G V R V I E L L A G I G P P G P F A A M L L A D D L L G A D V I V R I V D D R P P G G
UniRef90_W5WHT6 A G P P L L S G V K V I E L L A G L A P P A P F G C M V L L A D D L L G A D V I V R I V D D R P P G G A
UniRef90_D9WJ08 T G P P L L A G L R V I E L L G G I G P P G P F C C A M L L A D D A G G A D V I V R I V D D R P P G G S
UniRef90_H5SN40 G P P L L S G I R V I E L D L T R M L L A G P P Y G S Q L L A D D L L G A S V I K I V D D R P P G G
UniRef90_UPI0003451A49 G P L L K G V R V I E L F A G I G P P G P L A A M L L A D D L L G A S V I R I V D D R P P A G
UniRef90_UPI00046D009F P L L A G L R V I E L D L T R V L A G P P Y C T M V L L G D L L G A S V I K V I E V P P G G A
UniRef90_Q2CH70 P L E G L R V I E D V S Q I V M A G P P F C C M M L L G D M G G A D V I K V I E D R P P G G G
UniRef90_UPI0003C7FB6B T G P P L L A G L V R V I E L V I G I G P P G P F A A M L L A D D L L G A D V I R I V D D R P P G G
UniRef90_UPI00037105AD G V L L D G V K V I E V A G I G P P G P F A A M V L L A D D L L G A D V I R I V D D R P P T D P
UniRef90_A8LAG6 T G P P L L A G L R V I E M A G L G P P V P F A A M M L L A D D L L G A D V I R I V D D R P P T G G R
UniRef90_M3BVR9 P L L A G L R V I E D M T R V L A G P P Y C Q I L L G D L L G A D V I K I V E H P P G R
UniRef90_L7VUW0 T G P P L L A G L R V I E L V G I G P P G P F A A M L L A D D L L G A E V I R I V D D R P P K P
UniRef90_W7VUN8 G P L L A G L R L L E L L G G Q G P P V P F A T M M L L A D D M G G A Q V V R V D D R P P P G
UniRef90_UPI0003F7D783 P L L A G L R V I E L L A G I G P P A P F C C G M L L A D D L L G A E V I V R I V D D R P P D G
UniRef90_M3WPD9 A L L Q G I R V I E L L A G L A P P F C C G M V L L A D D F G G A Q V V R V D D R P P G A
UniRef90_UPI0003451E97 G P L N G I R V I E F T G I G P A P M T A M L L A D D M G G A D V I K V I E K P P S G
UniRef90_UPI00046A7525 T G P P L L A Q G M K V I E L A H I M A G P P V C G L M L A D D M G G A D V I K V I E K P P S G
UniRef90_C0QLM4 G A L L S G I K V I E D L S R V L L P G P Y C S M I L L A D H G A Q V I R F K A D G L
UniRef90_UPI00037EAF05 S G A L L T G L K V I E D L T R V L A G P P W A G Q L L A D D L L G A D V I K V I E D R P P G T
UniRef90_A0A010Z262 G P P L L A G L V R V I E L A G I G P P G P C A G M M L L A D D M G G A E V I T V I E R R P P
UniRef90_A0Z669 G P P L L R S L V I E F A G I G P P G P H A A M L L A D D L L G A D V I R V I Q R P A G D
UniRef90_G7GXT1 G P P L L D G Y T V I E L A G I G P P A P M G M I L L A D D M G G A N L I R V I D R A A G
UniRef90_A0YAL5 S G P P L L S G I R V I E M A G I G P A P Y A C M L L A D D L L G A E V I R I V D D R A S G
UniRef90_I2JL55 A L L D D G I T V I E D F T Q V L Y L P G P S C T Q L L G D Y G G A E V I K V I E R P P G P
UniRef90_UPI00037B8D2A P L L A G V R I L D L T R V L P G P L A T Q H L L S D Y G G A E V I K V I E D T P P G A
UniRef90_N6X1M8 S G P L L T G L K V I E F S R L I G P P G P H V A M L L A D D L L G A E V I R I V D D R P P P
UniRef90_UPI0002D35A74 A S P L L E G L K I L E L T I R V A P G A F C T M M L L A D D M G G A E V I K V I E P P T
UniRef90_W4M7H0 P L L T G I R V I E D M T R V L A G P P Y C T Q I L L G D L L G A E V I K I V E H P V R
UniRef90_G2Q219 R P L L T G I R V I E D L S Q F L A G P P Y G S M V L L G D L L G A D V I K I V E P P G G
UniRef90_W4L861 P L L A G L R V I E L L A G I G P P G P F A A M M L L A D D M G G A E V I S V I D D R P P G G A
UniRef90_MOQJR8 G A L L S N L V I E D L T R V L A G P P F C T M L L A D D M G G A D V I K I V E E Q P P G Y
UniRef90_D2Z849 R P L L S G F R V I E D L T R F L S G P P Y C T M V L L A E L L G A D V I K I V E T T R P G G
UniRef90_UPI0004669F31 S G P L L S G V R I E F A G I G P P Y A S M M L L A D D M G G A D V I T I V T T R P G G
UniRef90_W3RIM7 G P P L L S G V R I E F A G I G P P Y A S M M L L A D D M G G A D V I V R I V D D R P P G G
UniRef90_UPI0003650022 G A L L A G V K V I E D L T R V L A G P P F A T M M L L A D D M G G A E V I K I V E R P P G S
UniRef90_I9MJJ3 G P P L L A G V R V I E L A G I G P P M C G M L L A D D M G G A Q V L V I E R E L L E P
UniRef90_F4G6D1 G P L L A G V R V I E F G I G P P Y G G Q L L A E M G G A E V I V I E R E F E Y G
UniRef90_F6EUJ0 A G P P L L T G V K V I E L A G L G P P G Q W G G M L L S D L L G A E V I R V I S R P P G G
UniRef90_UPI00046EF181 G P P L L H G L K V I E L M G Q L T A G P P F C C Q L L G D M G G A E V I K I V E A P P G K
UniRef90_A0A059FV98 G A L L A G L R V I D L T Q M L A G P P F C C T Q I L L A D D H G G A D V I K V I E A M G G
UniRef90_Q0K4B9 P L L Q G V R V I E D L S Q V M A G P P Y A C M L L A G D L L G A D V I K I V E P P S L
UniRef90_UPI000478E8B4 T G P P L L S G V R V I E L L G G I G P P H A A M M L L A S D L L G A D V I R R I V R R P P G T A
UniRef90_A0R479 A G S L L E G L N V I E F A G L G P A P F C C C M L L A D D H G G A D V I R I V D D R P P T A
UniRef90_Q1LC32 G P P L L A D L K V I E L A G L G A A P F C A M L L A D D L L G A D V I R V D R S D A
UniRef90_M3ABT7 G P L L A G I R V I E L L G Q L T A G P P F A A R L M A E F F G A D V I K V I E K P P S L
UniRef90_B8IH69 G A L L S G L R V I E L L A Q I M A G P P T C G M M L A D D L L G A D V I K I V E K P P S L
UniRef90_Q1LBJ2 P L L S G V R V I E D L T R V M A G P P Y C T M L L G D L L G A D V I K I V E R P P T R
UniRef90_B9L2G3 T L P L L A D G I R I L D M T R V L A G P P Y C T Q I L L G D L L G A E V I K I V E H P P Q R
UniRef90_F2PW58 A R P P L L D G V R I L D F T R V L A G P P L S T A L L A D D L L G A E V I K I V E P P T G
UniRef90_A9BQT7 G A L L S H L R V I E D L S R V L A G P P W A G Q T L A D D L L G A D V I K V I E R P P G S
UniRef90_UPI00035CF0DD A G P P L L D G V R V I E L L G G I G P P F A C M M L A D D L L G A D V I R I V D D R P P G A
UniRef90_UPI0003698027 T G P P L L E G I R V I E F G G F I A G P P F A G Q L L G D Y G G A R V I K V I E P P G G
UniRef90_D1A7F0 T G A L L E H I R I L D L S R V L A G P P Y C S M I L L G D L L G A E V I K V I E A P P G G
UniRef90_A0A024QIP0 P L L E G I R V I E D F T Q V M M G P C A T Q M L A D D F G G A D V I K V I E R P P G A
UniRef90_UPI0003636407 S G P P L L S H I R V I E D L S R V L A G P P W A G Q L L A D D L L G A E V I K V I E R P P G A
UniRef90_U2YV96 A G P P L L D G V T V I E D A S R V L V G P F C T M Q L L G D L L G A D V I K V I E R P P G S T
UniRef90_UPI000363D9DF T G P P L L A G L R V I E M V G I G P C P F A A M M L A D D M G G A D V I P Y P M P L S L
UniRef90_UPI00047BFB66 T G P P L L A G L R V I E M G Q L L A G P P F C C G M L L A D D L L G A D V I K I V E D P P S L
UniRef90_UPI0003FAB59E A L L A G I K V I E D L S R V L A G P P W C T Q I L L A D D L L G A D V I K I V E R P P S
UniRef90_UPI0004014EF3 S G A L L A G V K I I E M D G I G P P F A G M M L A D D H G G A E V I R I A R P P G T
UniRef90_UPI00035DEECA T G A L L T G I R V I E D L S R V L A G P P W C Q L L A D D L L G A E V I K V I E K P P A
UniRef90_UPI0003D0E955 P L L D G V K I I E D L T R V L A G P P F A T M N L L A G D L L G A E V I K V I E K P P A
UniRef90_A3NPT9 G P P L L H G I R I V I E I A G I G P A P F C C G M L L A D D M G G A D V I L V I E R T A G
UniRef90_A0A011NG06 P L L C G V R V I E D L T R L L P G P V A T L H L L A D D L L G A D V I K I V E D H S L
UniRef90_U6F0M9 A L L S G L K V I E D L T H A Y N G P F C T T L L A D D N G A D V I K I V E G P K G
UniRef90_J0UNB8 P L L A G L R V I E D L T R V L A G P P Y C T Q N L L A D D L L G A E V I K V I E E P G T
UniRef90_D7WVK5 A L L Q G L K V I E D L S R V L A G P P W C T M V L L A D D M G G A E V I F V N E S H
UniRef90_M0M3M7 T G P P L L D G L T V I E D A S R V L A G P P F C T M Q L L G D L L G A E V I K W Q P P S A
UniRef90_UPI000378D445 P L L D G I R V I E F A G I G P P F A G M M L A D D H G G A E V I R I V D D R P P N T
UniRef90_K2I5J1 A G A L L D G I R V I E L A T R I L A G P P T C G M L L A D D L L G A D V I W K I E N P A T
UniRef90_D2BAL9 G P P L L A G V R V I E L L A G L A P P G P F A G M M L A D D H G G A E V I R V I E R D T P
UniRef90_N9WHQ2 G A L L D G L R V I E M G Q L T A G P P F C C G Q L L A D D M G G A E V I K V I E P P P E T
UniRef90_UPI00032B25F8 A L L R G I L V I E L S G L L A G P P F C C G M I L L A D D M G G A Q V V R V I V D R P P G
UniRef90_S9ZK27 T K P L L S G V K V I E L G T L T A G P P F A A R L L A E F G G A E V I K I V E S P D G
UniRef90_V8QSB5 S K P L L D G I K V I E L S G Q L I A G P P F A T K M L L G E F G G A E V I K I V E R P P
UniRef90_A0A023WX31 G A L L S H I R V I E D L S R V L A G P P W C Q I L L G D L L G A E V I K I V E P P G T
UniRef90_D7A4G8 P L L A G V R V I E D V S Q V M A G P P Y S C M L L G D L L G A D V V K I V E P P G T

QUERY S R D A M L R N R R I L V T A D L K S D Q 60 L E L A L K L I A K A D V L I E G Y R
UniRef90_A0A059G5P2 A A D V M S R G R R S I S L N L K K D P A Q D V E T A L K L M E R S A D G L I I E G F R R
UniRef90_A0A038H6U9 Y D G G A P V E H R R F I A L H N R K K P P E A T D A V L K L S L V A S A D A L I I E G F R R
UniRef90_Q13I84 R Y D T V Q A R N R R S I A V L N K R R E E G V A T A V L S L L V A H A D A L I I E G F R R
UniRef90_Q39MWV4 S D S G V H M D H R F N A I D L K K R S E Q A V E L V K R L T A S A D A A L I E G F R R
UniRef90_W9AMP2 A K D A M L R N R R S V T A D L K K S P E Q G R E F V L N L V S K A D V L I E G F R R
UniRef90_M2U2B6 R P E P V G R S R R K S V V C D N V K T P E E G V E V V R R L A R S D A D G F F E G L R
UniRef90_UPI000371D27B V T D A D P A D R R S I A V D L K S P S E S G V E L L R L R L V E Q A D V L I E G F R R
UniRef90_A1TDV3 G G D Y L R N R R S V A A N L K S E E D R R D M V L R L R L V I A K S A D V L I E G F R R
UniRef90_UPI00037DBB49 G T D F T N R G K R S V I A I D L K S D A G R D V V L R L L V I A K S A D V L I E G F R R
UniRef90_D9WSE3 P G G L K V D P A Y D L A N R N K S R E R G L D A A L G L L I E R A D V L I E G F R R
UniRef90_Q0VPC1 N P H S A L G H R Q N L A V D L K S N P E G I E T V L K L C E T A D G L F E G F R R
UniRef90_D5UX06 K P Q M V K R G R T L V E A D L K S P T D I L A Q I V L L E L I D R A D V I V I E G F R R
UniRef90_B4VF96 A Y D V T N R N K R S V L T D L K S A G G P G R V L L E L V E R A D V I V I E G F R R
UniRef90_UPI000464FDD0 A T D Q M L R G R R A V A A N L K D P A D E E K V L L G L I A K A D I L I E G F R R
UniRef90_W5WHT6 P N D P L T R G R R A I A V D L K V P E G A E L V L R L L A E R S D V L I E G F R R
UniRef90_D9WJ08 P D P V L H R G R R S A A I D L K H P E G V G A V L D L V A D A D V L I E G F R R
UniRef90_H5SN40 D P M R H M R N K K S V V L D L K S D Q G R Q V F L D L V A V S A D V V F E N F R R
UniRef90_UPI0003451A49 V P G H L D R G R K S I G A D L K S G A G V E T A K R L I A A A D V L I E G F R R
UniRef90_UPI00046D009F Y F M S L N R N K K S I T L N L K H D R G K R L L D L V R H F D V L V E N Y R R
UniRef90_Q2CH70 G D Q T R R A M G F K M K G D D K S P E E G R E A F L R L L A E T A D I V I E N Y R R
UniRef90_UPI0003C7FB6B N A L Q L V A P Q H D V A L D L K S S P K G V E V L L E L L E Q A D I L I E G F R R
UniRef90_UPI00037105AD A K D V L N R S R R S V A L D L K S P E A V E V L L D L V A S A D V L I E G F R R
UniRef90_A8LAG6 D P F L V T R G R R N V I T L D G R S P A G R D L V L A L I A S R D V L I E G Y R
UniRef90_M3BVR9 G D D T R A W G P P Y A T Y T F Q S P A G V E I L H K L A K S C D V L V E N Y L
UniRef90_L7VUW0 G G L Q V A A P E R D V A L D L K S E R G R R V L L D L V A H A D G L I I E G F R R
UniRef90_W7VUN8 Q V N A I D R G R T T V T L D L K S E A D R A L V H R L L A D A D V L I E D D P F R R
UniRef90_UPI0003F7D783 A H L I D D G R H R S V A I D L D L K D P R A G A A A R D L A T A D V L I E G F R R
UniRef90_M3WPD9 R R D V S F M A R G K R S V N L K R Q D G A L V L R R L C A Q A D V L I E G F R R
UniRef90_UPI0003451E97 S G P H M S E G R T V G A D L K S E E G L A L A R E L V A K A D V L I E G F R R
UniRef90_UPI00046A7525 D Y M M M N R K R G V I A L N L K D P E A V D I L R T L L A D A D V V I E N Y R R
UniRef90_C0QLM4 F F N I V N R N K R H M C L D L K S D R G L E I F F R L A K G A D V I L I E G F R R
UniRef90_UPI00037EAF05 G S D D T R Q W A P Q S S V T V D I T P A G Q E L V R Q L A A Q A D V L I E G Y K
UniRef90_A0A010Z262 A S D Q T L R N R R S L V A L N L K D A E D K A T L L R L I E Q A D V L I E G Y R
UniRef90_A0Z669 N A N A P T S Q Q M A A H T F K N P A G V E L V L E L V A D S D L I I E G F R R
UniRef90_G7GXT1 L P Q E G R N G R R V V E A N L N K D P A D R E T I L N L V A K A D A I I E G F R R
UniRef90_A0YAL5 G R A S D P R G K S V V L N L K D N P A G V E T L L R M V E K A D V I I E D P F R R
UniRef90_I2JL55 G G M G A N P G R Q S I A L D L K K P E A V D V V L Q L L D N A D V I I E C F R R
UniRef90_UPI00037B8D2A I F L S I R N R N K R S V S L D T R T A E E G R R I V G D L I A G A D V V V S N F R R
UniRef90_N6X1M8 G D Y A R T M G A M G G E T S Y K Q A E E G R A L F L R L V D E A D V V V S N F R R
UniRef90_UPI0002D35A74 V N P V V E R A R H R V G I D L K S E E G K A F C R E A A A K A D V L I E G F R R
UniRef90_W4M7H0 E F S F V N R N K R S I A L N L K K H P A G Q E I L H H I V Q D A D V L I E G F R R
UniRef90_G2Q219 G D D T R A W G P P Y A T Y K F Q D P A G V D V L H K L A K A C D I L V E N Y L
UniRef90_W4L861 Y F L S M N R S K K S M T L N L K S D D G L K I F Y D L V R Q S D V V Y D N F R R
UniRef90_MOQJR8 N P W L M F R S R R H L A V D L K A H G G A E V I R R L C A D A D G V I E T F R R
UniRef90_D2Z849 Y Y M L N R N K R S G V T L N L K S E K G K K I F L N M V K K A D L V V I E N Y R R
UniRef90_UPI0004669F31 P F A M P N R S K R S V A V D L K S D E R G R E L F L E L A A N A D L V I E N F R R
UniRef90_W3RIM7 W K S D P N A Y V N R V E F D L K N K E H V S Q A L D L I A S A D A L I E G F R R
UniRef90_UPI0003650022 S H D V T N R N K R S S V A D L K S E E G V R L V L D L A A R A D V L I E G N R R
UniRef90_I9MJJ3 G D D S R Q F G P F I N G E S S Y Y M R G K E I F L L E M V K K A D I V V I E N Y R R
UniRef90_F4G6D1 A N I G I A R P R R F E L P H R K Q A D G V A L V S D L A A A A D V L I E G F R R
UniRef90_F6EUJ0 N G W P N P I T D H G K A R D I R R R P E G K T R A L E L M A L A D V V I E G F R R
UniRef90_UPI00046EF181 P A F V H D R G R R S I A I D L K S P E G R D A L L D L V E E A D V L F E G N R R
UniRef90_A0A059FV98 G D P M R E W G Q G D R P A W W R T D E G Q Q L A R D L I G K A D V L V I E N F R R
UniRef90_Q0K4B9 Y F Q S V N R N K R S I A V D L K T V E E G L A L A R K L I D G A D I V I E N F R R
UniRef90_UPI000478E8B4 G F L N M N R N K R S I A L D L K T E A G K S V V L Q L A K D A D I L V I E N Y R R
UniRef90_A0R479 L T L P A E N H R K G R I V D L D V K A E P A K L L D L V I A K A D V L I E D C F R R
UniRef90_Q1LC32 P G V E A K V N P A D V L A R G R T S G R D A A L E L I A R A D V V V I E G F R R
UniRef90_M3ABT7 R F D I L N R G R R S V A L D L K K P A G I A A T M R L V G Q A D I L I E G F R R
UniRef90_B8IH69 W W Y L Q S R N K K S I A V D L K A P D G A A V V K A L A A S A D V V I E N F R R
UniRef90_Q1LBJ2 P F L M L N R N K R S I A L D L K T P E G R E V F L R M V R N A S A D V V I E N F R R
UniRef90_B9L2G3 G D D T R A W G P P F I T L D L K H P A G Q E V F W R L V D R A D V V V I E N F S
UniRef90_F2PW58 G D D T R A W G P P Y A K Y K N D T K E G T E I L H K L A K E S D V F V E N Y L
UniRef90_A9BQT7 D D Y R M N R N K Q S V L V D L K H P E A V A L V H E M A Q A D V V V I E N F R R
UniRef90_UPI00035CF0DD G D D T R G W G P P Y V T I D I T R P E G Q A L V R E L A A E S D I L I E N Y K
UniRef90_UPI0003698027 E H P V M H R N R R S I A L D L K S P E G R A I A M R L V A A G D V A I E G F R R
UniRef90_D1A7F0 D P M R R R W G V L H S E G R L D L W K T E K D R E L A R S L M V A G A D V V I E N F A
UniRef90_A0A024QIP0 S D E T R R W G P P F Q T L D L K S Q E G I T Q I K N L V K N S D V I I N N F R R
UniRef90_UPI00046686DB G D L S R N F F G E P P S E E A M K S E A G R R M I Y D L V A Q S D V V V I D N F R R
UniRef90_UPI0003636407 G D D T R G W G P P F V T I D M G S P D G G A L I R D L A A R C D V L V E N F K
UniRef90_U2YV96 G D Q T R A W H P P R Y T L D L S R E A G R G V F R D L A A D A D V L V I E N F R R
UniRef90_UPI000363D9DF R Y D V L A R G R R T V A L D L K P A G R E T V L R L I A E R A D V L I E G F R R
UniRef90_UPI00047BFB66 W W S I V G R N K R S V T L N L R E P E A Q D L A R K I I G T A D I V I E N F R R
UniRef90_UPI0003FAB59E G D D T R H W G P P F V T L D M A R P E G Q A L L Q R I A A E V D V V I E N F K
UniRef90_UPI0004014EF3 R I D P S D R S R R R V E L D L K S D A G R A A A R A L I R E A D G L I E G Y R R
UniRef90_UPI00035DEECA G D D T R G W G P P F I A D D L A D P Q G Q A L V R D L A A R S D V V I E N F K
UniRef90_UPI0003D0E955 G D D T R A W G P P F I A V N M K D S K G A K I I R E L A A V S D V F V I E N Y L
UniRef90_A3NPT9 R R A I F N R N K R S L A L D L K P E A V G A V L R L V R E H A D A L I I E G M R R
UniRef90_A0A011NG06 F Y R C V N R N K R G L R L R L D L K Q A Q G R E V F L R L V R D A D I V V I E N F R R
UniRef90_U6F0M9 D Q C R T W R N K K G I T L N L K T E R G K E I F Y E M V K E A D V V V I E N F R R
UniRef90_J0UNB8 G D D T R G W G P P Y L K D G H R A D Q G A D L V R Q L V R R C D I L V I E N F R R
UniRef90_D7WNK5 M Y M M V N R N K K G V C I N L K R A T D Q G L A L F K E L I Q S V D V L V I E N Y R R
UniRef90_M0M3M7 Y Y M S I N R N K R S I A L N L A S E D G R D V F R Q L A R E A D L V I E N F R R
UniRef90_UPI000378D445 G G F T V E R S R T S L S L D L K S P N A I A V R R I V R T A D A L I I E G F R R
UniRef90_K2I5J1 N G D D T R T W G P P M A V D L A S A E G Q E T I R A L A A K A D V V I E N F K
UniRef90_D2BAL9 R A D V M D R G K R T V G L D L K S P E G V A A F K E L V R S A D V V I E V F R R
UniRef90_N9WHQ2 G D Q M R H W G Q S G D R P S W W R V I E G Q Q L A R D L I A K A D I L I E N F R R
UniRef90_UPI00032B25F8 D G G V M S R G K R S L V L D L K Q P R G V S V L R R L C A K A D I L I E N F R R
UniRef90_S9ZK27 W W Y L Q S R N K K S V T V N L K Q A D G V D V V R K L V A S A D I V I E N F R R
UniRef90_V8QSB5 W W A S Q S R N K K S V T L N L H R E P G Q D V I R Q L V A D V D V L V I E N F R R
UniRef90_A0A023WX31 G D D T R H W G P P I L Q D Q H T R P E G Q L I I R E L V A Q C D V L V I E N F K
UniRef90_D7A4G8 G D Q T R G A M G F K M A T N L K S E A G R E V F Y E L V K S A D I L V I E N Y R

QUERY UniRef90_A0A059G5P2 UniRef90_A0A038H6U9 UniRef90_Q13I84 UniRef90_Q39MW4 UniRef90_W9AMP2 UniRef90_M2U2B6 UniRef90_UPI000371D27B UniRef90_A1TDV3 UniRef90_UPI00037DBB49 UniRef90_D9WSE3 UniRef90_Q0VPC1 UniRef90_D5UX06 UniRef90_B4VF96 UniRef90_UPI000464FDD0 UniRef90_W5WHT6 UniRef90_D9WJ08 UniRef90_H5SN40 UniRef90_UPI0003451A49 UniRef90_UPI00046D009F UniRef90_Q2CH70 UniRef90_UPI0003C7FB6B UniRef90_UPI00037105AD UniRef90_A8LAG6 UniRef90_M3BVR9 UniRef90_L7VUW0 UniRef90_W7VUN8 UniRef90_UPI0003F7D783 UniRef90_M3WPD9 UniRef90_UPI0003451E97 UniRef90_UPI00046A7525 UniRef90_CQQLM4 UniRef90_UPI00037EAF05 UniRef90_A0A010Z262 UniRef90_A0Z669 UniRef90_G7GXT1 UniRef90_A0YAL5 UniRef90_I2JL55 UniRef90_UPI00037B8D2A UniRef90_N6X1M8 UniRef90_UPI0002D35A74 UniRef90_W4M7H0 UniRef90_G2Q219 UniRef90_W4L861 UniRef90_MOQJR8 UniRef90_D2Z849 UniRef90_UPI0004669F31 UniRef90_W3RIM7 UniRef90_UPI0003650022 UniRef90_I9MJJ3 UniRef90_F4G6D1 UniRef90_F6EUJ0 UniRef90_UPI00046EF181 UniRef90_A0A059FV98 UniRef90_Q0K4B9 UniRef90_UPI000478E8B4 UniRef90_A0R479 UniRef90_Q1LC32 UniRef90_M3ABT7 UniRef90_B8IH69 UniRef90_Q1LBJ2 UniRef90_B9L2G3 UniRef90_F2PW58 UniRef90_A9BQT7 UniRef90_UPI00035CF0DD UniRef90_UPI0003698027 UniRef90_D1A7F0 UniRef90_A0A024QIP0 UniRef90_UPI00046686DB UniRef90_UPI0003636407 UniRef90_U2YV96 UniRef90_UPI000363D9DF UniRef90_UPI00047BFB66 UniRef90_UPI0003FAB59E UniRef90_UPI0004014EF3 UniRef90_UPI00035DEECA UniRef90_UPI0003D0E955 UniRef90_A3NPT9 UniRef90_A0A011NG06 UniRef90_U6F0M9 UniRef90_J0UNB8 UniRef90_D7WNK5 UniRef90_M0M3M7 UniRef90_UPI000378D445 UniRef90_K2I5J1 UniRef90_D2BAL9 UniRef90_N9WHQ2 UniRef90_UPI00032B25F8 UniRef90_S9ZK27 UniRef90_V8QSB5 UniRef90_UPI00023WX31 UniRef90_D7A4G8

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

QUERY UniRef90_A0A059G5P2 UniRef90_A0A038H6U9 UniRef90_Q13I84 UniRef90_Q39MW4 UniRef90_W9AMP2 UniRef90_M2U2B6 UniRef90_UPI000371D27B UniRef90_A1TDV3 UniRef90_UPI00037DBB49 UniRef90_D9WSE3 UniRef90_Q2VPC1 UniRef90_D5UX06 UniRef90_B4VF96 UniRef90_UPI000464FDD0 UniRef90_W5WHT6 UniRef90_D9WJ08 UniRef90_H5SN40 UniRef90_UPI0003451A49 UniRef90_UPI00046D009F UniRef90_Q2CH70 UniRef90_UPI0003C7FB6B UniRef90_UPI00037105AD UniRef90_A8LAG6 UniRef90_M3BVR9 UniRef90_L7VUW0 UniRef90_W7VUN8 UniRef90_UPI0003F7D783 UniRef90_M3WPD9 UniRef90_UPI0003451E97 UniRef90_UPI00046A7525 UniRef90_C0QLM4 UniRef90_UPI00037EAF05 UniRef90_A0A010Z262 UniRef90_A0Z669 UniRef90_G7GXT1 UniRef90_A0YAL5 UniRef90_I2JL55 UniRef90_UPI00037B8D2A UniRef90_N6X1M8 UniRef90_UPI0002D35A74 UniRef90_W4M7H0 UniRef90_G2Q219 UniRef90_W4L861 UniRef90_MOQJR8 UniRef90_D2Z849 UniRef90_UPI0004669F31 UniRef90_W3RIM7 UniRef90_UPI0003650022 UniRef90_I9MJJ3 UniRef90_F4G6D1 UniRef90_F6EUJ0 UniRef90_UPI00046EF181 UniRef90_A0A059FV98 UniRef90_Q0K4B9 UniRef90_UPI000478E8B4 UniRef90_A0R479 UniRef90_Q1LC32 UniRef90_M3ABT7 UniRef90_B8IH69 UniRef90_Q1LBJ2 UniRef90_B9L2G3 UniRef90_F2PW58 UniRef90_A9BQT7 UniRef90_UPI00035CF0DD UniRef90_UPI0003698027 UniRef90_D1A7F0 UniRef90_A0A024QIP0 UniRef90_UPI00046686DB UniRef90_UPI0003636407 UniRef90_U2YV96 UniRef90_UPI000363D9DF UniRef90_UPI00047BFB66 UniRef90_UPI0003FAB59E UniRef90_UPI0004014EF3 UniRef90_UPI00035DEECA UniRef90_UPI0003D0E955 UniRef90_A3NPT9 UniRef90_A0A011NG06 UniRef90_U6F0M9 UniRef90_J0UNB8 UniRef90_D7WVK5 UniRef90_M0M3M7 UniRef90_UPI000378D445 UniRef90_K2I5J1 UniRef90_D2BAL9 UniRef90_N9WHQ2 UniRef90_UPI00032B25F8 UniRef90_S9ZK27 UniRef90_V8QSB5 UniRef90_A0A023WX31 UniRef90_D7A4G8

130 140 150 160

H D I L N Y I I S L T N G I L H A I M G R A G D E R P V P P L N L V G D F G G G S M F L L A
UniRef90_A0A059G5P2 H D I L N Y I I S L T N G I L H A I M G R A G D E R P V P P L N L V G D F G G G S M F L L A
UniRef90_A0A038H6U9 H D I L N Y I I S L T N G I L H A I M G R A G D E R P V P P L N L V G D F G G G S M F L L A
UniRef90_Q13I84 H D I M N Y I I S L S G A L L H A A T I G R A D G G P P V P P L N L V G D F G G G S M F L L A
UniRef90_Q39MW4 H D I N Y I I S L S N G V L H A A T I G R A G E K P T P P L N L V G D F G G G S M F L L A
UniRef90_W9AMP2 H D I N Y I I S L S N G V L H A A T I G R A G E K P T P P L N L V G D F G G G S M F L L A
UniRef90_M2U2B6 H D I N Y I I S L S G A L L H A A T I G R A G E K P T P P L N L V G D F G G G S M F L L A
UniRef90_UPI000371D27B H D I N Y I I S L S G A L L H A A T I G R A G E K P T P P L N L V G D F G G G S M F L L A
UniRef90_A1TDV3 H D I N Y I I S L S G A L L H A A T I G R A G E K P T P P L N L V G D F G G G S M F L L A
UniRef90_UPI00037DBB49 H D I G Y I I S A V T G A L L G M T G E A D G G P P V A P A N L L V G D F A G G S M F L L V
UniRef90_D9WSE3 H D I M N Y I I S L S G L L H A A M G R Q G E K P A I P L N L V G D F A G G S M F L L A
UniRef90_Q2VPC1 H D M N Y I I S L T G L L H A A M G R Q G E K P V P P L N L V G D F A G G S M F L V
UniRef90_D5UX06 H D I A Y I I S A V T G A L L G M I G N A P G E R P A V P A N L V G D Y A G G S M F L V
UniRef90_B4VF96 H D M N Y I I S L T G L L H A A M G R Q G E K P V P P L N L V G D F G G G S M F L V
UniRef90_UPI000464FDD0 H D I N Y I I S L T G A L L H A A T I G R A G Q R P V P P L N L V G D F G G G S M F L L A
UniRef90_W5WHT6 H D I N Y I I S L S G A L L G T I G P A D G T P I L P L N L L G D F G G G S M F L L A
UniRef90_D9WJ08 H D I N Y I I S L S G A L L G T I G P A D G T P I L P L N L L G D F G G G S M F L L A
UniRef90_H5SN40 H D I N Y I I S L S G A L L G T I G P A D G T P I L P L N L L G D F G G G S M F L L A
UniRef90_UPI0003451A49 H D M N Y I I S L N G A L L H S I L G R Q E A P V P P L N L V G D F A G G S M F L V
UniRef90_UPI00046D009F Y D V V V Q G M G G I M S T I T G H P G G P P T R V G A S I G D I T A G L F G T
UniRef90_Q2CH70 H D I L A Q A A S G L M S L T G H S D G E K P A K S G V P V G D I L G C A L F T L
UniRef90_UPI0003C7FB6B H D V N Y I I S A G A L D P M G R R A E P A F P Q N L L G D F G G G S M F L V
UniRef90_UPI00037105AD H D L T Y L A T A G V V G H V E G P D G S P G I P L N L V G D F G G G S M F L L V
UniRef90_A8LAG6 H D I T Y L A R T G A L L W A T G R A D G E A P S P P L N L V G D Y G G G S M F L L
UniRef90_M3BVR9 Y D V M V E A E F G L M H I T G H R D G P P A K V G V A V T D L T T G L Y T S
UniRef90_L7VUW0 H D I N Y I I A T A G A L L D P I T G R A G G P P Q V P L N L L G D F A G G S M F L V
UniRef90_W7VUN8 H D I L N Y I A A V T G V L H D S I G R A P G S P S I P L N L L A D F G G G S M F L A
UniRef90_UPI0003F7D783 H D I N Y I I A L S G L L S K I G R A G G E N P Y A P L N L L A D F G G G S M F L T
UniRef90_M3WPD9 H D M N Y I I S L T G A L L H A I L G R A G E K P V P P L N L L G D F A G G T M F M V
UniRef90_UPI0003451E97 F D L I A Q A M S G L M S I T G E G P G R P V K V A A P I S D I N A G T M F L A
UniRef90_UPI00046A7525 H D V N Y I I A N S G V L D L M G Q R D A P S I P G V Q F A D I A G G A M N A A
UniRef90_C0QLM4 H D Y I V I Q G M S G L M S L T G P A D G E P H K V G V A V T D L F T G L Y A A
UniRef90_UPI00037EAF05 H D I N Y I I S V T G A L L H A A L G R P G E R P V P P L N L V G D F G G S M L L L
UniRef90_A0A010Z262 H D P N Y I I S L S G A L W P G G S T D R V P S A P L T L V G D I G G G T M L I I
UniRef90_A0Z669 H D M N Y I I S L T G M L H A A I G R A D E K P T P P L N L V G D F G G G S M F L V
UniRef90_G7GXT1 H D I N Y I I S I T G A L Y A I L G R A G E K P V P P L N L I G D M G G G S M F L V
UniRef90_A0YAL5 H D I L N Y I A L T G L L D S F G N A N E A P P V P L N V I G D L G G S M F L L
UniRef90_I2JL55 H D V I A Q A Y A S G V M W R R A S E D G V P L S V Y P T T L G D Y T T G M H L L
UniRef90_UPI00037B8D2A H D I N Y I I G Y A G V L D W Q I G V A G G P P A L S N L Q I C D L L G G T M A A A
UniRef90_N6X1M8 H D I N Y I I A I T G A L S A V G K A G E T A T P P Q N L V G D F G G S M Y C A
UniRef90_UPI0002D35A74 H D I N Y L S L G G V L N L I T G Q R E R P P A I P L N L V A D Y A G A S M H G V
UniRef90_W4M7H0 Y D V M V E A E F G L M H I T G S R D G P P V K V G V A V T D L T T G L Y T S
UniRef90_G2Q219 F D L V V Q A M G G L M S Y T G P L G G E P V R M G A P M G D L A G G I F A A
UniRef90_W4L861 H D I N Y I A L S G A L H A I L G R A G Q A P V P P L N L V G D F G G G S M L L A
UniRef90_MOQJR8 Y D I I A Q A M S G L M S T T G W P G G E P T R T G T A M G D V L A G L S C A
UniRef90_D2Z849 F D I M A Q G T G G F L R M T G Q P D G K P T K V G I A I N D I A A G A T A I
UniRef90_UPI0004669F31 H D I N Y I A I T G A L D S F R S R Q G D P V S P L N L I G D F G G G A L F L V
UniRef90_W3RIM7 H D I G Y I A I A G A L G M I T G P R D G P P A I P A N L L G D Y A G G S L Y L V
UniRef90_UPI0003650022 Y D I I G Q A M S G L M S T T G W P G G E P T R T G T A M S D I L A G L S V A
UniRef90_I9MJJ3 H D I L N Y I A L S G A L H A A L G P A D G E K P A A P L N L L A D Y A G G A L F L A
UniRef90_F4G6D1 H D I N Y I A I T G A L A A M G R E P A D G E P S I P L N L V G D F G G G S L F L A
UniRef90_F6EUJ0 H D L N Y L A V S G M L S A I G P R N G P S V P L N L L G D F G G G S M F L L
UniRef90_UPI00046EF181 F G L T G E G F G L R G I V G D P D R M P L R V G L S I G D T L A A T Y G C
UniRef90_A0A059FV98 Y D V V A Q A M G M T G I T G P H Q T P M K I G P G V G D T I P A L M L C
UniRef90_Q0K4B9 F D L M A Q A M S G V M S V T G Y P N S P P V K A G V P V A D I G C A L F A I
UniRef90_UPI000478E8B4 H D I N Y L S Q T G A L S A I G Y R D R E P V A P M N L V A D F G G G S M L V L
UniRef90_A0R479 H D I N Y I A I S G A L H A I L G R A G E A P V P P L N L V G D F G G G S M M L A
UniRef90_Q1LC32 H D I N Y I I S L T G V L E A I G T N S A K P V P P L N L V G D Y G G A M L M A F
UniRef90_M3ABT7 F G A I G E A M G I R Y T T G D P D S P P A R V G L S I A D T L A S L H G V I
UniRef90_B8IH69 F D L I A Q G Y T G L M S I T G E E G G P P L R T G N S I A D I N A G L L A A
UniRef90_Q1LBJ2 Y D L I V Q G M S G L M S V T G F P E G E P V R F G V P I A D I G A G M F A A L
UniRef90_B9L2G3 Y D V M V E A E M G L M H I T G S R D G P P V K V G V A V S D V L T G L Y T S
UniRef90_F2PW58 Y D L I V Q A M S G L M E A T G E P D G A P T V V G E A V S D V V A G L F A S
UniRef90_A9BQT7 Y D F I I Q A M G G M M S I T G E R P G G G P Q K L G I A F A D L M T G M Y A T
UniRef90_UPI00035CF0DD H D I N Y I A L T G A L L H A I G P A D G D P V V P L N L L G D F G G G S M L L A
UniRef90_UPI0003698027 G S V I A E A M G G L R A L M G Y P D R P P V R A G I S L G S D I L T G M Y A C
UniRef90_D1A7F0 Y D F I I Q A M S G L M S I T G D K E T G P Q K M G V A I C D Y T A G M H L V
UniRef90_A0A024QIP0 Q D V L A Q A M T G V M E K T Q D P A V P K S I Y P T T L G D Y T A G M H L V
UniRef90_UPI00046686DB Y D F M I Q G L G L M S I T G E P D G M P M K V G V A F A D I F T G M Y S T
UniRef90_UPI0003636407 Y D I M M Q A E G G L M S I T G V E D G A P V R V G V A L A D I G A M Y A T Q
UniRef90_U2YV96 H D I N Y I A L S G M L H A A M G R K D A P S P P L N L V G D F G G G S M L L A
UniRef90_UPI000363D9DF Y G A I G E A M G G L R Y V V G D P S T P P S R V G I S I G D T L A A L F A T
UniRef90_UPI00047BFB66 Y D L M V Q A L S G L M S V T G H A D G K P G G G P G V A V I D I F T G L Y A S
UniRef90_UPI0003FAB59E H D I N Y I A L T G A L N A I T G R A G E K P T P P L N L V G D F G G G S M M L A
UniRef90_UPI0004014EF3 Y D V L I Q A M G G L M S L T G Q P P G A E P M K T G V A V A D L F T G V Y A S
UniRef90_UPI00035DEECA Y D S V A A A V S G L M H I T G P E S G D P V R P G V A M T D L A T G L Y T
UniRef90_UPI0003D0E955 H D I N Y I I G L S G A L W Y A Q P G D G P A P A P T L V G D L G G G A L Y L A
UniRef90_A3NPT9 H D L N Y I I G F A G V L D Q I G V D G G Q P A I P N L Q V G D L G G G A L T A A
UniRef90_A0A011NG06 Y D I V A Q S M G G M V N L T G F P E G P P T K V G P S V A D N V T G I Y L C
UniRef90_U6F0M9 Y D F M I Q G L G L M S L T G E P R G E P Q K A G V A V A D V M T G M Y A T V
UniRef90_J0UNB8 Y D I M A Q G L S G L M H M T G E A D G R P V K V G F A V N D I A A A Q T A L
UniRef90_D7WVK5 Y D I M Q A E G G L M S I T G E E G R T P V R V G V A L A D I G A G M Y A T Q
UniRef90_M0M3M7 H D I N Y I A L S G V L H A L G R A G E K P T P P L N L V G D F G G G S M F L A
UniRef90_UPI000378D445 Y D L M A Q Q Y G G I M S L T G E P D G A P M K V G V A V A D I V G G M Y A C
UniRef90_K2I5J1 H D I D Y I A I S G V L S M L G R E G D R P T P P I N I L G D F A G G S M L M A
UniRef90_D2BAL9 F G G I G E A M G W R G L V G Y P D L P P A R M G V S I G D T L A A T Y G C
UniRef90_N9WHQ2 H D I N Y I A L S G I L S K L G S T G E S P R P P L N L L A D F S G G G L V C A
UniRef90_UPI00032B25F8 F G A I G E S M G G L R Y V T G F A D R P P V K T G I S I G D S I A A L W G A L
UniRef90_S9ZK27 F G V V G E A M G L R H L S G E P D R P P V R V G I S I G D S L S A L H G V I
UniRef90_V8QSB5 Y D F M I Q G L G L M S L T G R S D A E P G A G V K V G T D I L T G L Y A T
UniRef90_A0A023WX31 F D L M A Q A M S G V M S V T G H P G G P P V K A G V P V A D I G C G L F A T
UniRef90_D7A4G8

| QUERY | 170 | 180 | 190 | 200 |
|------------------------|------|------|------|------|
| UniRef90_A0A059G5P2 | VGLL | ASGL | WVNR | QKNS |
| UniRef90_A0A038H6U9 | MG | LVV | SA | LLER |
| UniRef90_Q13I84 | FL | GLV | CA | LLER |
| UniRef90_Q39MW4 | FG | MV | CA | MLLE |
| UniRef90_W9AMP2 | LG | GL | SA | MLLE |
| UniRef90_M2U2B6 | FG | GMV | SA | MLWE |
| UniRef90_UPI000371D27B | LG | GI | CA | ALAE |
| UniRef90_A1TDV3 | VGV | LV | SA | ALLY |
| UniRef90_UPI00037DBB49 | TG | V | LV | SA |
| UniRef90_D9WSE3 | IG | V | LV | SA |
| UniRef90_Q0VPC1 | FG | GMV | CA | AVLJ |
| UniRef90_D5UX06 | FG | V | LV | SA |
| UniRef90_B4VF96 | IG | V | LV | SA |
| UniRef90_UPI000464FDD0 | FG | GL | LV | SA |
| UniRef90_W5WHT6 | TG | IL | LA | AMHE |
| UniRef90_D9WJ08 | FG | V | LV | CA |
| UniRef90_H5SN40 | AV | AA | AL | HR |
| UniRef90_UPI0003451A49 | TG | IL | LS | AL |
| UniRef90_UPI00046D009F | VG | IL | LS | AL |
| UniRef90_Q2CH70 | YAI | LS | SA | IT |
| UniRef90_UPI0003C7FB6B | TG | V | LV | SA |
| UniRef90_UPI00037105AD | VG | V | LV | SA |
| UniRef90_A8LAG6 | VG | V | LV | SA |
| UniRef90_M3BVR9 | NS | V | MA | LA |
| UniRef90_L7VUW0 | AG | M | LA | AL |
| UniRef90_W7VUN8 | F | G | V | LV |
| UniRef90_UPI0003F7D783 | VG | V | LV | SA |
| UniRef90_M3WPD9 | LG | IL | LA | AL |
| UniRef90_UPI0003451E97 | TG | IL | LA | AL |
| UniRef90_UPI00046A7525 | MG | I | NA | YA |
| UniRef90_C0QLM4 | MG | I | L | MA |
| UniRef90_UPI00037EAF05 | NA | I | Q | AL |
| UniRef90_A0A010Z262 | VG | I | L | LS |
| UniRef90_A0Z669 | F | G | L | LS |
| UniRef90_G7GX1 | IG | I | L | LS |
| UniRef90_A0YAL5 | NG | V | LV | SA |
| UniRef90_I2JL55 | LG | I | L | LS |
| UniRef90_UPI00037B8D2A | QG | V | LV | SA |
| UniRef90_N6X1M8 | MG | I | M | V |
| UniRef90_UPI0002D35A74 | F | G | I | MA |
| UniRef90_W4M7H0 | A | G | I | LL |
| UniRef90_G2Q219 | NS | I | MA | LA |
| UniRef90_W4L861 | H | G | V | LV |
| UniRef90_MOQJR8 | F | G | M | V |
| UniRef90_D2Z849 | IG | I | L | SA |
| UniRef90_UPI0004669F31 | Y | S | I | LA |
| UniRef90_W3RIM7 | VG | I | L | LA |
| UniRef90_UPI0003650022 | TG | V | LV | SA |
| UniRef90_I9MJJ3 | IG | I | L | LA |
| UniRef90_F4G6D1 | F | G | I | A |
| UniRef90_F6EJU0 | F | G | I | V |
| UniRef90_UPI00046EF181 | IG | I | L | LA |
| UniRef90_A0A059FV98 | MG | V | LV | SA |
| UniRef90_Q0K4B9 | IG | I | L | LA |
| UniRef90_UPI000478E8B4 | Y | A | T | LA |
| UniRef90_A0R479 | VG | I | V | SA |
| UniRef90_Q1LC32 | F | GL | M | AL |
| UniRef90_M3ABT7 | G | L | V | S |
| UniRef90_B8IH69 | F | G | A | L |
| UniRef90_Q1LBJ2 | F | G | I | LA |
| UniRef90_B9L2G3 | A | I | V | LA |
| UniRef90_F2PW58 | N | A | I | MA |
| UniRef90_A9BQT7 | W | A | T | LA |
| UniRef90_UPI00035CF0DD | V | A | I | LA |
| UniRef90_UPI0003698027 | Y | G | V | LV |
| UniRef90_D1A7F0 | I | G | T | LA |
| UniRef90_A0A024QIP0 | I | G | I | Q |
| UniRef90_UPI00046686DB | Q | G | I | LA |
| UniRef90_UPI0003636407 | V | A | V | LA |
| UniRef90_U2YV96 | A | T | L | A |
| UniRef90_UPI000363D9DF | F | G | V | LV |
| UniRef90_UPI00047BF6B6 | IG | A | LA | AV |
| UniRef90_UPI0003FAB59E | N | A | I | LA |
| UniRef90_UPI0004014EF3 | F | G | M | L |
| UniRef90_UPI00035DEECA | T | A | L | LA |
| UniRef90_UPI0003D0E955 | C | G | A | I |
| UniRef90_A3NPT9 | MG | V | LV | SA |
| UniRef90_A0A011NG06 | MG | I | L | MA |
| UniRef90_U6F0M9 | VG | V | LV | SA |
| UniRef90_J0UNB8 | A | V | L | A |
| UniRef90_D7WNK5 | Q | S | I | L |
| UniRef90_M0M3M7 | G | I | L | A |
| UniRef90_UPI000378D445 | F | G | M | L |
| UniRef90_K2I5J1 | T | G | I | LA |
| UniRef90_D2BAL9 | Y | G | V | LV |
| UniRef90_N9WHQ2 | G | A | L | A |
| UniRef90_UPI00032B25F8 | LG | I | M | MA |
| UniRef90_S9ZK27 | G | T | L | MA |
| UniRef90_V8QSB5 | G | V | LV | SA |
| UniRef90_UPI00023WX31 | VG | V | LV | SA |
| UniRef90_D7A4G8 | H | A | A | LA |

QUERY UniRef90_A0A059G5P2 UniRef90_A0A038H6U9 UniRef90_Q13I84 UniRef90_Q39MW4 UniRef90_W9AMP2 UniRef90_M2U2B6 UniRef90_UPI000371D27B UniRef90_A1TDV3 UniRef90_UPI00037DBB49 UniRef90_D9WSE3 UniRef90_Q0VPC1 UniRef90_D5UX06 UniRef90_B4VF96 UniRef90_UPI000464FDD0 UniRef90_W5WHT6 UniRef90_D9WJ08 UniRef90_H5SN40 UniRef90_UPI0003451A49 UniRef90_UPI00046D009F UniRef90_Q2CH70 UniRef90_UPI0003C7FB6B UniRef90_UPI00037105AD UniRef90_A8LAG6 UniRef90_M3BVR9 UniRef90_L7VUW0 UniRef90_W7VUN8 UniRef90_UPI0003F7D783 UniRef90_M3WPD9 UniRef90_UPI0003451E97 UniRef90_UPI00046A7525 UniRef90_C0QLM4 UniRef90_UPI00037EAF05 UniRef90_A0A010Z262 UniRef90_A0Z669 UniRef90_G7GX1 UniRef90_A0YAL5 UniRef90_I2JL55 UniRef90_UPI00037B8D2A UniRef90_N6X1M8 UniRef90_UPI0002D35A74 UniRef90_W4M7H0 UniRef90_G2Q219 UniRef90_W4L861 UniRef90_MOQJR8 UniRef90_D2Z849 UniRef90_UPI0004669F31 UniRef90_W3RIM7 UniRef90_UPI0003650022 UniRef90_I9MJJ3 UniRef90_F4G6D1 UniRef90_F6EUJ0 UniRef90_UPI00046EF181 UniRef90_A0A059FV98 UniRef90_Q0K4B9 UniRef90_UPI000478E8B4 UniRef90_A0R479 UniRef90_Q1LC32 UniRef90_M3ABT7 UniRef90_B8IH69 UniRef90_Q1LBJ2 UniRef90_B9L2G3 UniRef90_F2PW58 UniRef90_A9BQT7 UniRef90_UPI00035CF0DD UniRef90_UPI0003698027 UniRef90_D1A7F0 UniRef90_A0A024QIP0 UniRef90_UPI00046686DB UniRef90_UPI0003636407 UniRef90_U2YV96 UniRef90_UPI000363D9DF UniRef90_UPI00047BFB66 UniRef90_UPI0003FAB59E UniRef90_UPI0004014EF3 UniRef90_UPI00035DEECA UniRef90_UPI0003D0E955 UniRef90_A3NPT9 UniRef90_A0A011NG06 UniRef90_U6F0M9 UniRef90_J0UNB8 UniRef90_D7WNK5 UniRef90_M0M3M7 UniRef90_UPI000378D445 UniRef90_K2I5J1 UniRef90_D2BAL9 UniRef90_N9WHQ2 UniRef90_UPI00032B25F8 UniRef90_S9ZK27 UniRef90_V8QSB5 UniRef90_UPI00032WX31 UniRef90_D7A4G8

210 220 230 240

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

QUERY UniRef90_A0A059G5P2 UniRef90_A0A038H6U9 UniRef90_Q13I84 UniRef90_Q39MWV4 UniRef90_W9AMP2 UniRef90_M2U2B6 UniRef90_UPI000371D27B UniRef90_A1TDDV3 UniRef90_UPI00037DBB49 UniRef90_D9WSE3 UniRef90_Q0VPC1 UniRef90_D5UX06 UniRef90_B4VF96 UniRef90_UPI000464FDD0 UniRef90_W5WHT6 UniRef90_D9WJ08 UniRef90_H5SN40 UniRef90_UPI0003451A49 UniRef90_UPI00046D009F UniRef90_Q2CH70 UniRef90_UPI0003C7FB6B UniRef90_UPI00037105AD UniRef90_A8LAG6 UniRef90_M3BVR9 UniRef90_L7VUW0 UniRef90_W7VUN8 UniRef90_UPI0003F7D783 UniRef90_M3WPD9 UniRef90_UPI0003451E97 UniRef90_UPI00046A7525 UniRef90_C0QLM4 UniRef90_UPI00037EAF05 UniRef90_A0A010Z262 UniRef90_A0Z669 UniRef90_G7GX1 UniRef90_A0YAL5 UniRef90_I2JL55 UniRef90_UPI00037B8D2A UniRef90_N6X1M8 UniRef90_UPI0002D35A74 UniRef90_W4M7H0 UniRef90_G2Q219 UniRef90_W4L861 UniRef90_MOQJR8 UniRef90_D2Z849 UniRef90_UPI0004669F31 UniRef90_W3RIM7 UniRef90_UPI0003650022 UniRef90_I9MJJ3 UniRef90_F4G6D1 UniRef90_F6EUJ0 UniRef90_UPI00046EF181 UniRef90_A0A059FV98 UniRef90_Q0K4B9 UniRef90_UPI000478E8B4 UniRef90_A0R479 UniRef90_Q1LC32 UniRef90_M3ABT7 UniRef90_B8IH69 UniRef90_Q1LBJ2 UniRef90_B9L2G3 UniRef90_F2PW58 UniRef90_A9BQT7 UniRef90_UPI00035CF0DD UniRef90_UPI0003698027 UniRef90_D1A7F0 UniRef90_A0A024QIP0 UniRef90_UPI00046686DB UniRef90_UPI0003636407 UniRef90_U2YV96 UniRef90_UPI000363D9DF UniRef90_UPI00047BFB66 UniRef90_UPI0003FAB59E UniRef90_UPI0004014EF3 UniRef90_UPI00035DEECA UniRef90_UPI0003D0E955 UniRef90_A3NPT9 UniRef90_A0A011NG06 UniRef90_U6F0M9 UniRef90_J0UNB8 UniRef90_D7WVK5 UniRef90_M0M3M7 UniRef90_UPI000378D445 UniRef90_K2I5J1 UniRef90_D2BAL9 UniRef90_N9WHQ2 UniRef90_UPI00032B25F8 UniRef90_S9ZK27 UniRef90_V8QSB5 UniRef90_A0A023WX31 UniRef90_D7A4G8

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

QUERY H W G A V F A N S 290 DA C V T P V L A F G E V H N E P H I I E 310 N T F Y E A N G G
UniRef90_A0A059G5P2 E W C A L I M E G T D I C C F A P V V L S M A E A P N D H P H H N A R E R Q T T F V F E E V E G G V
UniRef90_A0A038H6U9 E W C A L L A Q G R E D I C C F A P V V L S M A E E A P R D H P H H N R A R K E T T F F V E E N D G G V
UniRef90_Q13I84 D W C K L L L E J E G T D A C C F A P V V L S Q M A E E A P R H H P H H N V A R K E T T F F V E E D D G G V
UniRef90_Q39MW4 E W C A L A A G T D V C C L A P V V L S L A E E A P H H P H H N V A R K G T F F V E E V D D G G I
UniRef90_W9AMP2 E W C A R I F A G S D A C C F A P V V L S L A F G E V L T E P H H L A R E R S D T F F Y E E T G G G
UniRef90_M2U2B6 E W C R I M E G T D V C C F A P V V L S L Q S E A P Q H H P H H N R A R E S T F F V E E V G G M
UniRef90_UPI000371D27B E W C A L L E J G K E A C C F A P V V L S L P W E A P D E H P H H N R A R E R S T F F T E E H G R S
UniRef90_A1TDV3 H W A K V F A G T D A C C V T P V V L S L F A E V E S E H P H H N T E R D D T F F Y S E R E N G S
UniRef90_UPI00037DBB49 E W A Q V F F L P G G D A C C V A P V V L S L R E E A P R H H P Q L A A R E G T F F V D E A G G I
UniRef90_D9WSE3 E W T A V F A G S D A C C V A P V V L S L R E E A P R H H P Q L A A R E G T F F V D E A G G I
UniRef90_Q2VPC1 E W S A L L M E G T D V C C F A P V V L S L L E E E A P S H H P H H N V A R E S F V E T V N G A
UniRef90_D5UX06 E W A E I F F G S D A C C F A P V I L L T F E E E A P K H H P H H M A R E N N L P E V G G V
UniRef90_B4VF96 Q W T E V F F E G T D A C C V A P V V L S L R E E A P E H H P H H L A A R G T F T D F A G G I
UniRef90_UPI000464FDD0 E W A A L F F D G T D A C C L A P V I L L T F E E A S A D H P H H P H H V A R E S I L S E L L A G V
UniRef90_W5WHT6 E W S A L S F A G S D A C C L A P V V L L A P E E E A A D H P H H N K A R E S F V E T D D A G V
UniRef90_D9WJ08 D W A A V F A D A D A C C L A P V V L S L R E E A P R D H P H H N A A R G T F F V L T D D G V
UniRef90_H5SN40 W W M A R L Q E V G V P A A P V V Q R V D Q V L N D P Q Q V L A R G K M R I T V E H P
UniRef90_UPI0003451A49 E W A E V F G E T D A C C V Q P V V L S M A E A A D H P H H I A A R G D T V V R R S G G S
UniRef90_UPI00046D009F E W F E A L E G A G I P C G P I N T I D R V V A D P Q Q V N A R G M I V A M D H P
UniRef90_Q2CH70 H W V E R L L A A G V P A G P I S D Y G E A L D S P Q Q A Q A R G T V V M E V H P
UniRef90_UPI0003C7FB6B E W A E I F D G S D A C C V A P V L P L T E Y E H H P H H N V A R G T Y V D H E G L
UniRef90_UPI00037105AD E W A A D L I E P T E A C C V A P V V L M E E T A A H P H H I A A R G T I T E A F G V
UniRef90_A8LAG6 E W T A L L E D G S D A C C A P V V L S W H E A P E D E H H L W A R G T F V H V D G M
UniRef90_M3BVR9 E W L A I F E G S G M P Y A P I N D V L K K T L E H H T L E R N M I T E V E H P
UniRef90_L7VUW0 E W S S L F E G T E A C C V A P V V V L G E A P E H H A H L K A R G T Y L K H E G Q
UniRef90_W7VUN8 E W T G V F F E G V D A C C V H P V L D I L A E S A A H H P Q Q M R A R R G A V V E V E G V
UniRef90_UPI0003F7D783 A W A T V F A D S D A C C V A P V V L S L R E E A A A H H Q Q Q A R R T F V T V E D G V
UniRef90_M3WPD9 E W C Q I F D G T D A C C V T P V V L S L T F E E V T Q H H D H N K E R G S F I D E E Q S
UniRef90_UPI0003451E97 E W G A V F E G S D A C C V M P V V L S L D E A P D H P H H V A R R D M I V A V D H P
UniRef90_UPI00046A7525 N W L A R M E A A K L P A G P V V N D I L Q M H E D P Q A R A R G S D M I V A V D H P
UniRef90_C0QLM4 H W D N T L A D L D V C Y A R I K T L A E V M E D P M L K E R G M V V G D D G T
UniRef90_UPI00037EAF05 E W L K L L D A G T D V C G P I N T V D E A F A P Q Q I Q H R Q M A L Q L P D V
UniRef90_A0A010Z262 E W A A I F D G A D A C C V T P V L T F A E A P A H P H H V A A R G T V V E P N G V
UniRef90_A0Z669 D W C A L L E J G T D V C C F A P V V L N L T E A V E H P H H N V A R E T F I T R E N G V
UniRef90_G7GXT1 E W A A V F D G T D A C C F A P V I L N D F V D A A Q H P H H A N V A R D T Y V E V D G V
UniRef90_A0YAL5 E W C E L M E G T D V C C F A P V L N L F V V D A A A H P H H A N V A R D T Y V E V D G V
UniRef90_I2JL55 E W C V I F A G S D A C C F A P V V L D L D E A E T Y P H N Q H R Q N L V R R D G V
UniRef90_UPI00037B8D2A Y W V K R L E E Q D I L C A P V V R S L A E A L E N A D E Q Q A V N R M V L E M E H P
UniRef90_N6X1M8 A W V A L F D G V D C C C V T P V V L R L E E S L E N A Q Q L R A R R G M V M E V G G V
UniRef90_UPI0002D35A74 E W C E L L E J G S D A C C F A P V V L E L D E E A R E H P H M K A R A A Y V E H E G E
UniRef90_W4M7H0 D W F D Y F K D K N V C V G P V Y T V I Q E E M F E D H P Q V V Q A R N M V V D V E D P
UniRef90_G2Q219 E W L D I F E G K G M P Y A A V N D I V Q G T L T H P H H T K A R N M V V E V D H E
UniRef90_W4L861 E W L E R L I E A A G V P C G P I N T V D R A L S D P Q Q V L A R N M I V D A G T V
UniRef90_MOQJR8 E L D R M F A G R N T C Y A P V V L P L S D V V T S D P H H H V A R E R G T F V E V D G I
UniRef90_D2Z849 D A C R L I D Q A G I P C A P I M S I L D Q V T S D P H H I A D R E M F V P V E H P
UniRef90_UPI0004669F31 A W V D R M D T A G V P G G P V V L T Y D E T L A D P H H I Q A R G M V V D L E H P
UniRef90_W3RIM7 E W T K L L E J G T D A C C A P V I V G L F D A P E H P H H L A R K T F V E H D G R
UniRef90_UPI0003650022 E W T E V F E G S D A C T A P V V L S L A E E A A H P H H L A R G T F A G T G G I
UniRef90_I9MJJ3 E I V D A L L A V G I P A A P I N N I E Q V V N D P H H L A A R E M F V E V D H P
UniRef90_F4G6D1 E W C E L L E J G S D A C C V T P V V L T D R D E A P R H H N A A R G S F V L D D G V
UniRef90_F6EUJ0 E W C A L L E J G S D A C C F A P V V L T L G E A E A S T Y L R A R S I V D D D G M
UniRef90_UPI00046EF181 Q W E E D F S G R E A C C V T P V V L D I L D E A L Q Q P Y H M R A R H S F V R N D G V
UniRef90_A0A059FV98 E L E A L L L A H S V P S G R I Y T A A D M V A D P H H Y A A R E S I V T V D D P
UniRef90_Q0K4B9 E Q I A A V L G G K V P F G P I C T S A E I F A D P H H Y A V R Q M L V D V E Q P
UniRef90_UPI000478E8B4 Y W V S T L L D N G I P A G P I L S Y P E A F G S E H A A A R N M R M E I D H P
UniRef90_A0R479 E W T E I F A G T D A C C V T P V V L T W G E A A E N A H L R E R E S T L I D V D G V
UniRef90_Q1LC32 E W C A L L E J G S D A C C F A P V V L D W D E A P E H P H H N R E R E A F V T L D G V
UniRef90_M3ABT7 E W T D L L E J G T D A C C V S P I L D L V I E A P E H P H H N A A R Q T F R S L D G V
UniRef90_B8IH69 E A L A L L D A A E V P A G R V H S V A D L V A D P H H Y A A R D M I T A E L P
UniRef90_Q1LBJ2 D W L A A F D A A G V P A G P V Y S I G E A L N D P H H Q T L A R G M V V R Q H P
UniRef90_B9L2G3 E I V H R L D A A Q V P C G P I Y T V P E V F A D P Q Q V Q H L E L H Q R I P H P
UniRef90_F2PW58 E W L E V M E G S G M P Y A A V N D I Q G A L N S H S H V L A R G M V V Q E V D H P
UniRef90_A9BQT7 Q V V A A L D A A G V P A A P I N W I A Q A L E S P Q S Q A R G L L G A V Q D P
UniRef90_UPI00035CF0DD H W I D A L G A A G V P S G P I N D I A Q A L D H P Q V R H R G M R I E L P H P
UniRef90_UPI0003698027 T W A E V F A T S S A C C V T P V V L S L G E A P L H P H H Y A E R Q T Y T L L G D G
UniRef90_D1A7F0 E V A E L L D D H G V P R G R I Y T P A D I L A D E Q H Y A A R K M I T R L E A P
UniRef90_A0A024QIP0 E W M D E C K A R G I P C G P I Q N I A E V A N D A Q L N A R N M F I D L H P
UniRef90_UPI00046686DB H W I K R L I E D Q D L L C A P V V R S L G E A L D D A Q Q T A V N G M L L D L D H P
UniRef90_UPI0003636407 E W I A A L E N E A C C F A P I N T L D Q V F T D P Q V I Y R V G L K Q T L P H P
UniRef90_U2YV96 T W L E R F D T H D V P A N D V N D M E D I F S H P Q I R A R R M H R S V E H P
UniRef90_UPI000363D9DF E W C R L L E J G S D A C C F A P V V L D M A E A P L H P H H N A A R A T F V E V D G V
UniRef90_UPI00047BFB66 A L E A R L L E G S D A C C F A P V V L D M A E A P L H P H H N A A R A T F V E V D G V
UniRef90_UPI0003FAB59E E W I T L L H D K A V P C G P I N T I A Q A F E D P Q Q V R A R G L R V E I P Q I
UniRef90_UPI0004014EF3 E W R V L M E G S D A C C F A P V V L S F T E A P E H P H H N K V R E A F I T L N G V
UniRef90_UPI00035DEECA E W V S A L Q A A G V P C G P I N T M D A V F A D P Q Q V R H R G M Q V R V G H V
UniRef90_UPI0003D0E955 K W L Q V F E G S G V P Y G P I N T M Q Q V F S D P Q Q V L H N G L I M E M D H P
UniRef90_A3NPT9 H W V E L M E G T D A C C V T P V V L S P A E A Q S H P H H L A A R G V Y A Q R D G I
UniRef90_A0A011NG06 G W S D F F A G I C C C V T P V V L S V D E A L R H P H H F A A R G M V V A R D G V
UniRef90_U6F0M9 E L E E M F D K A G I P C G P V V L N M Q E A L I D H P H H I K A R E M M V T I E H P
UniRef90_J0UNB8 S W L Q A L I E A V G I P A G P I N T M E Q V Y Q D P Q Q V L A R G L R L D L P T G
UniRef90_UPI0003636407 Y W L E L L D K H G V P S S P I N T Y S Y D Q T L N D P H I L E R D M V H P I A G P
UniRef90_M0M3M7 E L L S V F D D H D V P A S D V H D M A D V F E T P Q Q V E A R G M H R E V A H P
UniRef90_UPI000378D445 E W V A L F D G H D I C F A P V V L V I F D E A R A D L H N V A R A A F V E A G G V
UniRef90_K2I5J1 E V I A G L E R R K V P V G P V V N D I G Q A L G S D Q A R A R E M T V R A M D V P
UniRef90_D2BAL9 E W E T V F E G S D A C C V S P V V L D M A E A A G H P H H N R A R G A F V E V G G V
UniRef90_N9WHQ2 E L E A K M I D A S V P A G R V Y S D A E D M L A D P H H F A A R E A L V T V P D V
UniRef90_UPI00032B25F8 E W C K I F I D G T D A C C V T P V V L S L E E A V R H P H H N R E R E S F I T D G Q D
UniRef90_S9ZK27 E V L A A L S A A E V P A S R I Y S A A D M F A D P Q F L A R E M L Q S V K L P
UniRef90_V8QSB5 E V L S Q L H E H R I P G G R I Y N D A A D A Q D P H Y Q A R Q M L I D G E P V
UniRef90_A0A023WX31 E W V G A L E Q A G V P C G P I N D A A Q V F A D P Q Q V Q H R G L N V E M S H P
UniRef90_D7A4G8 E W V E A L L A A G I P A G T M Y S Y P E A F E S E H G R H R Q M R L D I D H P

QUERY WQ P M P A P R F S S R T A S S Q P R P P A A T I D I E A V L T D W D G
UniRef90_A0A059G5P2 MQ P A P A P R F S S R T P A E I R R P P A G L G E H T E E I L R D W
UniRef90_A0A038H6U9 M Q P A P A P R F S S R T P S G A L R R P P A P G E H T D A I L R A D W
UniRef90_Q13I84 I Q P A P A P R F S S R T P S T M P R R P S V G E H T S R E I L R D W
UniRef90_Q39MW4 V Q P G P A P R F S S R T P T L R G G A P A P G A H T T D A L R D W
UniRef90_W9AMP2 L Q P M P A P R F S S R S P G Q D P P P V V G A D N D T I L D E W
UniRef90_M2U2B6 T N P A P A P R F S S E T R A D U A P P P K T G G A D T D S V L S
UniRef90_UPI000371D27B T Q P A A A P H F G R T P A A I G P A P H P G Q H T T E V L R E W
UniRef90_A1TDV3 L Y P A P A P R F S S R S A P S A P K P P G V G A D T E A V L R E W
UniRef90_UPI00037DBB49 R Q P A P A P R F S S R T P G D T G R P V L P G G Q T R A I L D D L
UniRef90_D9WSE3 T Q P A P A P R F S S A T P G R V R G G P R P G A H A A E V A R D W
UniRef90_Q0VPC1 A Q P A P T P R F S S R T A G K V K P A S T A G A D S R A V L S
UniRef90_D5UX06 T A P A P A P R F S S R T P A A A P E P P
UniRef90_B4VF96 T Q P A P A P R F S S A T P T A V T G G P R P G A D T D A V A A D W
UniRef90_UPI000464FDD0 T Q P M P A P R F S S R T P A D R P A A P P
UniRef90_W5WHT6 V Q P A P A P R F S R T P T A T P A P K P A Q H T D E V L A E L
UniRef90_D9WJ08 L Q P A P A P R F G S S T P R R R P A P L P G E H T A Q V L A E L
UniRef90_H5SN40 T I G G N P I K V D D D T P G T F S P P P L L G Q H T R Q V L S E L L G
UniRef90_UPI0003451A49 V F P G P A P R F S R T P G T A T R D P G E H T A E A L K E W
UniRef90_UPI00046D009F V M A G S P I K M S G V P P R P R P S P A L G E H T R E V L T R L L G
UniRef90_Q2CH70 V E G G F P V H M S G T P Q R V R P P P L L G E H T D A I L A E L
UniRef90_UPI0003C7FB6B V Q P A P A P R F S S A T P A V L T I P P A V G T H T R D A L T D W
UniRef90_UPI00037105AD R Q P A P A P R F D R T P A A P T T P P L P G Q H T V E A L T D W
UniRef90_A8LAG6 I Q P A P A P R F G R S G S P V I T A P P A P G E H T D Q V L V E L L G
UniRef90_M3BVR9 T L V S P P V K F S D T Q P S I R P P T L G Q H T T E V L T E L L G
UniRef90_L7VUW0 V Q A A P A P R F S V T P A K L G L A P R P G A D T R A V L T D W
UniRef90_W7VUN8 A Q P A P A P R F S R T P A G V P R A P R R G E H T D R V L
UniRef90_UPI0003F7D783 Q Q P A P A P R F A G T P A A M P G R P A L G E H T E E V L E W
UniRef90_M3WPD9 V S P R P A P L L S D T P A V P K R D P F V G E H T E E I L Q E F
UniRef90_UPI0003451E97 V V S G P A P R F S R T P G G V T R G R P L P D A D E T L K E W
UniRef90_UPI00046A7525 T A G G H P V K F S R T P A K V D A P L L G Q H T R E V L T D
UniRef90_COQLM4 K T F G I P I K L S R T P G S V R T P P K F G A K G R E I L G E L
UniRef90_UPI00037EAF05 P Q V A C P I K M S G T P P Q Y K A P P K L G E H T D A V L K
UniRef90_A0A010Z262 P Q A A P A P R F S S R T P G A T A P P G P G R D N A V L R D W L G
UniRef90_A0Z669 V Q P A P A P Q F S V T K P T V G A C V P G Q H T A E L
UniRef90_G7GXT1 M Q A Q V A P R F S S R T Q P Q T P T G P
UniRef90_A0YAL5 T Q P A P A P R F S S R T P S A V A H A T D A G E D T D D V L T
UniRef90_I2JL55 L Q S A P A P R F S S R T P G E L K H G P A E G Q D S R A L L Q Q L
UniRef90_UPI00037B8D2A T A G A P P V R L S E T P A Q V R R P P R L G E H N E E I L A E
UniRef90_N6X1M8 R Q F G P P V R L S G M P P G T P A P A R A G A D T D E I L A G L L G
UniRef90_UPI0002D35A74 W H T A P A P R F S S R T P G A V R S S A D D G A D V V A R W
UniRef90_W4M7H0 R Q A G M A I K L S D T P G Q L R R V P S V G E H T D E I L Q
UniRef90_G2Q219 E L L N T P I K Y S E S K P R L R P P T L G Q H T D E I L R E H L G
UniRef90_W4L861 K L T G S P I K F H G T D A Q Y H A P P A L G E H A E E V L T D W L G
UniRef90_MOQJR8 P Q P A P A P R F H G A P P T S P T A R R P G G A D S R A V L A
UniRef90_D2Z849 V L T G N H I K L S G T P A G I R T A P I L G E H N R E V F G E M L G
UniRef90_UPI0004669F31 I I G A P P T R F S S E L E F S V R P A P W L G Q H S A D V L A E L
UniRef90_W3RIM7 V Q P A P A P R F S S R T P S A I Q H G P D V
UniRef90_UPI0003650022 T Q P A P A P R F S S A T P G A L R R P P A L G A H T A E V A R D W D
UniRef90_I9MJJ3 K I T G S H I K L S D T P C I K T P A P L L G Q H N E E V Y K D F L G
UniRef90_F4G6D1 T Q P A P A P R F S S R T P G A V G A A P P
UniRef90_F6EUJ0 A R P A P C P R F S S R T P G R V P A I H Q S T D L V
UniRef90_UPI00046EF181 L Q P A P P P R F S S R T P G R I Q G P P A G A D T R A A L A D W
UniRef90_A0A059FV98 E M G G T F P K F S A T P G S L R R A P R V G E H T A A I L E R W L G
UniRef90_Q0K4B9 G I J A G V P I K L S D T P G A R R A P M L G E H T D E V L R
UniRef90_UPI000478E8B4 I E G G F A V K L S G T P Q Q V R R P P L L G E H T A E V L A E
UniRef90_A0R479 A Q A A P A P R F S S R T P A P T P G K P P Q G
UniRef90_Q1LC32 V Q P A P A P R F S S R T P A A A P
UniRef90_M3ABT7 I Q A A P A P R F S S R T H A E L D P P P Q A G Q H T D E Q A L S R W
UniRef90_B8IH69 D M P G I V P K L S E T P G E V R S G P A L G A H T R D A V L S E L
UniRef90_Q1LBJ2 I R T L G L P Q L S E T P A Q Y H R P P R L L G E H T R D A V L A E
UniRef90_B9L2G3 T Q T G F P W R F S Q T P A R I R R P P L L G E H T E E V L G E L
UniRef90_F2PW58 D L V N T P V K Y S A T P N G I R T P P P L L G E H T D E V L S N I M G
UniRef90_A9BQT7 R L P G Q P V H F S G A P G R A E R A P A L G E H T D A L L S Q W L G
UniRef90_UPI00035CF0DD P L V A S P F K L S T T P V R Y R P P P L L G E H T R E I L A N R L G
UniRef90_UPI0003698027 H M A R P V P R F A G T P A A E P R P V V G S D G F A L V R E L
UniRef90_D1A7F0 G Y P R P V P K F T R T P G T I R R P P E L L G E H T E A V L R E F G G
UniRef90_A0A024QIP0 T M I G S P L K L S R T P V S Y R H P P D P G E H N Q A I L N E
UniRef90_UPI00046686DB T L V G S P V H L S E A P L V T R A P P R L G E H T D E V I R E F
UniRef90_UPI0003636407 V L V A C P I K F S E T P G A T T P P S L G Q H T A E V L G T L L G
UniRef90_U2YV96 T M P G S P M H F S R T P T T I R R P P R L G E H T A E V L G E
UniRef90_UPI000363D9DF T Q P A P A P R F S S R T P A A T P R P A A A D D G A A I L A D W
UniRef90_UPI00047BFB66 V M Q N V F P K L S R T T G S V R W P P L G S H T D T V L A E V
UniRef90_UPI0003FAB59E G T V A S P L R L S K T P V R Y R A P A L G Q H T E E V L R E W
UniRef90_UPI0004014EF3 V Q P A P A P R F S L T P A P Q R A P
UniRef90_UPI00035DEECA D L V R C P I R M S A T P P R T A A P P Q L G E H T R A V L A D E L G
UniRef90_UPI0003D0E955 T V P G P A V R Y S E S V S D P K P P P L I G Q H T V E V L K G A L G
UniRef90_A3NPT9 L Q A A P A P R F S S G S P A Q P G A V P K R G A D S A A I L R E
UniRef90_A0A011NG06 R Q Y A P P L K L S G W F A V E R T A P S P G E H A V E I L H E
UniRef90_U6F0M9 T I G G V P I K L S Q T P G S V I T P A P L L G Q H N A E V L K E F
UniRef90_J0UNB8 Q G V A S P L R L S A T P V Q Y R A P P R L L G E H T R E V L A R V L
UniRef90_D7WNK5 M R T L G F P K F S Q T P G Q L T A A P T L G Q H N E I L Q A L
UniRef90_M0M3M7 T M P G S P M H F S N T P T T V R R P P R L G E H T R E I L L G E
UniRef90_UPI000378D445 P Q P A P A P R Y S L S D T V P P R
UniRef90_K2I5J1 T M L G N P L K L S A T P V S Y R L A P R F G A D T D E I L Q T V L G
UniRef90_D2BAL9 R Q P A P A P R L L I G T A G Q D L S P
UniRef90_N9WHQ2 T M Q G V F P K L S A T P G S V R R P A P L G Q H D S A E V L E R W L G
UniRef90_UPI00032B25F8 V S P R P A P V L S D T P A R P S R D A F M G E H S E E I L K E F
UniRef90_S9ZK27 R M P G I V P K L S Q T P G T D W G P T L G E H T D S V L A
UniRef90_V8QSB5 T L P G V L P K L S A T P G V R R R A P L L G Q H T Q D I L D R L G
UniRef90_A0A023WX31 L L Q V A S P L R L S A S P V D Y R P P L L G E H S E A L L Q R L L G
UniRef90_D7A4G8 N E G G F A V K L T G T P Q Q V R R P P L L G Q H S G E I L N E

UniRef90_UPI00035DC163 1 G P L Q G L R V L L 10 E F A R L G P A P L G A M L L A D L L G G A Q V L S I V E E R F F P 40
UniRef90_N4VTF0 P L D G Y R V V L L D M T A R V L L A P P Y C T S Q L L L G D E L L G G A E V V I K I V E D R P P P T E P R
UniRef90_UPI0003830EC8 G P L A G G V R V V L L E T A R G L L G P A P P M A S G Q L L L G S E D L L G G A D D V V I K I V E D R P P P T E P R
UniRef90_F6IE86 S G S L A G I K V V L L E L L S R Q L L V L A G P F C G Q L L L A D M L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_UPI00047646C7 T S A L A G I K V V L L E L L S R Q L L V L A G P F C G Q L L L A D M L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_DOLE49 G P L A D S G V R V V L L E L L S R Q L L V L A G P F C G Q L L L A D M L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_U7P7N5 S G S L A G I K V V L L E L L S R Q L L V L A G P F C G Q L L L A D M L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_M8E0J2 G A L L E G I R V V L L D L T R V V L A G P P Y A T T M L L G D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_A1HSG9 L A T G L R V V L L D L T R V V L A G P P Y A T T M L L G D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_UPI0003B7BBAA T G A L T A G L R V V L L D L T R V V L A G P P Y A T T M L L G D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_UPI0004676051 A G A L L A G I K V V L L D L T R S V L L A G P P W C Q T Q V L A D D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_UPI000255A916 P L L E G V R V V L L E L L S Q L L M A G P P Y A A S I L A D F F G G A E V V I K I V E E R P P P V Q R
UniRef90_W7QC21 P L H K L K V V L L D L T S Q L L M A G P P Y C C T M V L L A D M F G G A E V V I K I V E E R P P P V Q R
UniRef90_Q01YM2 P L D D I R V V L L D F S H A L L A G P P Y C C T M L L A E Y G A D V V I K I V E E R P P P V Q R
UniRef90_A8ZZV8 G S L T D I K V V L L E L L S R Q L L I A G P P F C C G Q L L L A D M L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_A0A031K0G5 T G A L T D I R V V L L E L L S R Q L L I A G P P F C C G Q L L L A D M L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_Q9VDL4 P L H G I R I L L D L L S R V I I A G P P Y C C T M V L L A D L L G G A E V V I K I V E E R P P P V Q R
UniRef90_A9AC17 G A L L A G H I R V V L L D L T S R V I I L G P P W C A Q T T L A D F F G G A D D V V I K I V E E R P P P V Q R
UniRef90_I3U7K5 S G P L A G V R V V L L D L T S V I I L G P P F A T Q T M M A D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_E5WMB6 G P L Q G M K V V L L D A S Q I M A G P P Y C T M V L L A D L L G G A E V V I K I V E E R P P P V Q R
UniRef90_R7XT03 T G P L K G V I K V V L L E T A G I L G S G P P H A C M L L A D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_Q1YGH1 G P L A G I R V V L L E L L S R Q L L I A G P P F C C G Q L L L A D L L G G A E V V I K I V E E R P P P V Q R
UniRef90_A8L1P3 G P L T G C R V V L L E L L S R Q L L I A G P P F C C G Q L L L A D F F G G A E V V I K I V E E R P P P V Q R
UniRef90_UPI0003829DC2 T G P L A Q G L K V V L L E L L G Q L L I A G P P F A A K T L L A D F F G G A D D V V I K I V E E R P P P V Q R
UniRef90_H0J5V1 P L L A G L K V V L L E F A S T L L P G P P F A S L L L A D M G G A E V V L R I V E E R P P P V Q R
UniRef90_A0A024HCV6 G P L A S L K I L L E F A S T L L P G P P F A S L L L A D M G G A E V V L R I V E E R P P P V Q R
UniRef90_F6F1J3 G P L A E G V R V V L L E F A S T L L P G P P F A S L L L A D M G G A E V V L R I V E E R P P P V Q R
UniRef90_K1KM08 P L L E G F K V V L L D L S R T L A G P P Y A T M M L L A D M G G A D D V V I K I V E E R P P P V Q R
UniRef90_G8S0N9 A L L R G V R V V L L E L A G R L A P G P P F G C M V L L A D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_F7BZS2 L L R D G L K V V L L E L L S R Q L L I A G P P H C G M L L A D F F G G A H I V E E R P P P V Q R
UniRef90_A0A059KGU8 A T A L L D G L K V V L L D L L S R V L A G P P W A T Q T L L A D L L G G A D D V V I K I V E E R P P P V Q R
UniRef90_UPI0003631444 S G P L S G L R V V L L D L L S R V L A G P P S C G T Q M L L G D M G G A D D V V I K I V E E R P P P V Q R
UniRef90_N8Z5R3 A L L K G I R V V L L D L L S R V L A G P P W C G Q L L L A D L L G G A E V V I K I V E E R P P P V Q R
UniRef90_Q1LLH2 L L D G I R V V L L E L L S R Q L L I A G P P F A A K T L L A D F F G G A H V V K I V E E R P P P V Q R
UniRef90_A3VK92 G I L A G M K V V L L D L L S R V V A G P P L A G Q T L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_D3F3M7 G P L A G L R V V L L E L L S R Q L L L A G P P Y A G R Q L L A E M G G A E V V I K I V E E R P P P V Q R
UniRef90_Q1LGR5 P L L A G H I R V V L L D L L T R V L L A G P P W C T Q N L L A D L L G G A E V V I K I V E E R P P P V Q R
UniRef90_Q0FLE7 G P L A G I R V V L L D F S R V L L A G P P Y A S M V L L A D L L G G A E V I K I V E E R P P P V Q R
UniRef90_UPI000345B363 G P L A G V K V V L L E L L G T L I A G P P F A A R L L A G E F F G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI000376B3D0 P L L Q G I R V V L L E F L G S R Q L L I A G P P F A A G S L L A Y F F G G A D V V I K I V E E R P P P V Q R
UniRef90_A3PFW8 S A P L A G I R V V L L E L A R I L L A G P P W A G Q V L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI0003B48C45 S L L D G V R V V L L D L L S R Q L L P G P P F A S L L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_E6V2F1 A G P L A G L K V V L L E L L S R Q L L V A G P P F A A R T L L A D F F G G A D V V I K I V E E R P P P V Q R
UniRef90_M1NRC2 A L L S H L R V V L L D L L S R Q L L V A G P P W A S Q L L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_W6MA67 G P L H G I K V V L L E F A G L L A G P P V P F C G M V L L E S D L L G G A E V V I K I V E E R P P P V Q R
UniRef90_A0A037Z2P9 T K A L E G I R V V L L D L T H A Y N G P P F C C T T L L A D N L L G G A D V V I K I V E E R P P P V Q R
UniRef90_A8TY17 G P L A G I R V V L L D L T V I M A G P P I A T M M L L A D Q G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI00035EE74E S M P L T G V R V V L L D L L S R L L A G P P Y A S L L L A G D F F G G A D V V I K I V E E R P P P V Q R
UniRef90_Q0KC97 P L L Q G V R V V L L E L L G S L L I A G P P Y A G G L L L A G D F F G G A E V V I K I V E E R P P P V Q R
UniRef90_A0A052J7K8 A G S L A G L R V V L L D A S R V L L A G P P F C G Q V L L A D H G A D D V V I K I V E E R P P P V Q R
UniRef90_UPI000471502F A L L A G I R V V L L D F S H F I A G P P F A T M L L A D M G G A E V V I K I V E E R P P P V Q R
UniRef90_U6S182 A G P L T G V T V I D A S T V L A G P P F A A S L L L A D F F G G A E V V I K I V E E R P P P V Q R
UniRef90_M2YF15 T G P L S H L R V V L L D L L S R V L A G P P W A S Q L L L A D M G G A E V V I K I V E E R P P P V Q R
UniRef90_S5SWA3 G P L Q D G V R I L L E D F T Q F L L A G P P Y G T Q I L L G D L L G G A E V I K I V E E R P P P V Q R
UniRef90_Q5WKM0 P L L D G I R V V L L E L L G S L L I A G P P F T G R L L A D F F G G A E V I K I V E E R P P P V Q R
UniRef90_K7RZ02 G P L N G I K V V L L E L A G S L L G P C P A A G M I L L A D F F G A E V I L I E R K T A
UniRef90_M0CZ97 G P L S E L V V L L E A G S M I S G P P T V G R F L A D F F G A T V I K I V E E R P P P V Q R
UniRef90_A0A059KSM1 P L L Q G V V V L L E L L G Q L L I A G P P F A A K M L L A G E F F G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI00044085E4 T G P L K G V R I L L D L T R V L L A G P P T C T M L L L A D L L G G A D V I H L P S E S T G
UniRef90_B1KCJ8 A L L A G V R V V L L D L T N V L G P P V A T Q L L L G D M G G A D V I K I V E E R P P P V Q R
UniRef90_Q13LS5 G P L A E G L R V V L L D L T G T F V A G P P F C T T I F A E F F G G A E V I K I V E E R P P P V Q R
UniRef90_A4WXD2 G P L H G I R V V L L D L L S R V L A G N M T S L Q L L A D F F G A E V I K I V E E R P P P V Q R
UniRef90_A8LGU6 T G P L S G L R V V L L E L A G I L G P P H G A M I L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_C5BFR6 P L L G D L V V L L D M T R V L A G P P F S G M L L A D M G G A H V I K I V E E R P P P V Q R
UniRef90_I0WIK6 T G A L T D I R V V L L D L S R V L A G P P L C G Q M L L A D H G A D D V T K V E E R P P P V Q R
UniRef90_B4UK48 A L L A G V R I L L D L T R L L P A P P Y A T L V L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI00046AD5A4 G P L A T G K V I L L E F S H L L Q G P P F A T Q M L L G D M G G A D I V I K I V E E R P P P V Q R
UniRef90_U4K1E5 A L L N G V K V V L L D F S H L L Q G P P F A T Q M L L G D M G G A D I V I K I V E E R P P P V Q R
UniRef90_B3TCG3 A G A L D Q G I R V V L L D L L C L L L A G P P T C G R T L L G E F F G G A D V I K I V E E R P P P V Q R
UniRef90_E9DIQ7 T G A L D G Y K I L L D L T R V L L A G P P F C C T Q I L L A D Y F G G A D V I K I V E E R P P P V Q R
UniRef90_UPI000370B6E5 G P F S N I L V I D L T H V L N G P P F G T T I L L S D L L G G A D V I K I V E E R P P P V Q R
UniRef90_A1WNV4 A L L E G L R I L L D F S H L L Q G P P F A T Q L L L G D M G G A D V I K I V E E R P P P V Q R
UniRef90_UPI0004775E40 S S P L S G Y K V L L D F M S R V L L A G P P W A G Q T L L A D L L G G A D V I K I V E E R P P P V Q R
UniRef90_A1UDB2 A G A L D G I R V V L L E V G T L I A G P P F A G R L L L A D M G G A E V V I K I V E E R P P P V Q R
UniRef90_Q11E32 L L A K G A R V I D L L S R V I A G P P F S T T I L L A D L L G G A D V I K I V E E R P P P V Q R
UniRef90_UPI0001FFEFB5 G P L A G F R V L L D L S R V I A G P P S C A Q I L L A D F F G G A E V V I K I V E E R P P P V Q R
UniRef90_UPI0003645FBB T A P L Q G I K V L L D L L S R V L A G P P W A G Q M L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI0003F9E17A G P L S G I R I L L D L L S V V M G P P F A T Q T L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI0003603313 P L L S G V R V L L D F T R V F A G P P Y C A Q L L L A D L L G G A D V V I K I V E E R P P P V Q R
UniRef90_UPI0002E50C1E L L S G I R V V L L E L L G Q L L I A G P P F A S K T L L A D F F G G A E I I K I V E E R P P P V Q R
UniRef90_D5VXT5 G P L T G L R I L L D F T T N I S G P P S A T A T L L A D F F G G A D V I K I V E E R P P P V Q R
UniRef90_J2XMY0 P L E I G I R V V L L E I G T L L A A G P P F A A R L L A G E F F G G A E V I K I V E E R P P P V Q R
UniRef90_UPI00046E5DC8 S G S L S G I K V V L L A G M G P V P F I S M L L A D H G A E V V L R V T R P R P
UniRef90_A7HAJ2 R P L E G L R V V L L D L L S R L L P G P P F A T L V L A D L L G G A D V V L V E L D P P S G
UniRef90_U2WS93 G A L L N G L K V L L D L L A T F L A G P P Y C A T F L A E F F G G A D V V I K I V E E R P P P V Q R
UniRef90_J0KJ76 T R P L D G V R I L L D F S T R V L A G P P L S T A L L A D L L G G A E V I K I V E E R P P P V Q R
UniRef90_J2W402 G A L A G I K V L L E L L G T R V L A G P P F C S R M L L G E F F G G A D V I K I V E E R P P P V Q R
UniRef90_Q0K3E5 R P L D G I R V V L L E S L E H A V I A G P P F A T R Q L L A D L L G G A R V I K I V E E R P P P V Q R
UniRef90_V8QRQ6 G P L A G Y R V I E L L G S T V A G P P F C A R L L A D F F G G A E V I K I V E E R P P P V Q R
UniRef90_Q6N8F8 T K A L D G V R V L L D F T H V Q S G P P T C Q L L A W F F G G A D V I K I V E E R P P P V Q R
UniRef90_Q022N1 G P L A G I R V V L L D L S A Y I A G P P Y A C S L L A D L L G G A E V I K I V E E R P P P V Q R
UniRef90_UPI0003A41459 A K P L A G L K V V E L L G T L I A G P P F A A R I C A E F F G A E V I K I V E E R P P P V Q R

UniRef90_UPI00035DC163 E R D V L R R N R 50 V L R L D L K Q A R E L Q A A R R L A E G A E V L I E G F R
UniRef90_N4VTF0 G D D T R A W G P Y A T Y N F Q H P D G G T K L L H E L L V S K C D I L V I E N F R
UniRef90_UPI0003830EC8 S P L I S D F L E R G R S L I L T R K H P G G G A D T V L R R L A E R A D I L V I E N F R
UniRef90_F6IE86 G D P M R E W N K R S V T C N L R L V P E G G Q A L I R R R L A R A D A D V L V I E N F R
UniRef90_UPI00047646C7 G D E T R Q W T P P T F T I D M S R V P E G G Q A I I R R R L A Q E A D I L V I E N F R
UniRef90_DOLE49 P D P I R T W G Q A E S L T G H R F S Y E E G R D L L F L R R L A D G A D I V I E N F R
UniRef90_U7P7N5 Y F A Q F N R N K R S L T L D L R S Y E E G K A L L H R R L L E G A D V L V I E N F R
UniRef90_M8E0J2 S D D T R F W G P P F Q N G M S A Y Y A A V N R N R Q L V K T A D V F L H N F K
UniRef90_A1HSG9 Y F Y M M L N R N K K S V T A L N L D L K S D P E K A K E I V F F E L A K K S D I T N F K
UniRef90_UPI0003B7BBAA Y F L T L N R N K R S V T I D L D L K S E P E G G A L I K Q M A L L Q A D I V V I E N F K
UniRef90_UPI0004676051 Y F T A C N R N K R S V T I D M A T P E G G Q A L I K Q M A L L Q A D I V V I E N F K
UniRef90_UPI000255A916 W W Y S Q S R N R N K K S L S L N L N L K D P D A Q D V I H K L V E D C D I V I E N F R
UniRef90_W7QC21 C F S Q I N R N K K S I S L N L N L K D E R A R Q I F Y R L L A E D A D V I V I E N Y R
UniRef90_Q01YM2 D M G R G W G P P F G I L S F D L N L K S H A E G G L E L C L R L L I D R M D V L V I E N F R
UniRef90_A8ZZV8 F L N T V N R N K R E H L L N L K S S E Q G K K I F F D L V K D A D V V I E N F R
UniRef90_A0A031K0G5 D G K G V G D P M K R N W G L H G D A K L W W Q E I V R K L L V A H A D I V L I E N F K
UniRef90_Q9VDL4 G D E A R K W N R N K R S T I C T D L K R G T Q L L H R L L A E I S D V L V I E N Y V
UniRef90_A9AC17 G D D T R H W G P P Y V T V D I A T E P E G G Q L V R E L A A Q S D V V L I E N Y K
UniRef90_I3U7K5 D T I T R Q V G P M R N P G M D L K T E P E G R E A C L H L V R E V D V L L Y N V R
UniRef90_E5WMB6 C F F Q I N R N K K S I A L N L K T N E E G K E I F Y Q L A K E A D V V V I E N Y R
UniRef90_R7XT03 G M F G S G E H R P S L A L D L K K S P E A G V A T V L D L L V E S A D V L I E G M R
UniRef90_Q1YGH1 Y F A S F N R N K R S M T L D L K S D A G K A V L R R L L A D A D V L V I E G M R
UniRef90_A8L1P3 G D P M R N W N K K S I T C D L L R D A R G Q E L V K Q L A A H A D V L V I E N F R
UniRef90_UPI0003829DC2 W W Q V Q S R N R N K R S L A L D L R S A E A Q A L V R Q L L A A E A D V V I E N F R
UniRef90_H0J5V1 W W H V Q T R N K R S V A L D L K S E E G Q R I V R Q L L A T E A D V V V I E N F R
UniRef90_A0A024HCV6 M H A Y L N R N K R S I A L D L K R P E A V E V V K Q L V R E Y D L V L I E Q F R
UniRef90_F6F1J3 R D A V T C R G H H L A L D L K N S Q S V I E Q V L A I V G Q A D M I I E G F R
UniRef90_K1KM08 G D E S R R F T P P K W T V N L D L K S S P E G I E I K E I V K D A D V L V I E G F R
UniRef90_G8S0N9 T D G P L Q R N R R T L T L D L K S S P D G L A G L L D L V A K A D V L V I E G Y R
UniRef90_F7BZS2 G G T K W L G G G G V K W L A R K R P E G V T V M R K L C R G V D V L V I E P Y R
UniRef90_A0A059KGU8 Y F C C A N R N K R S I A I D I A T P E G G Q A L V R R R L A G E A D V V L I E N F K
UniRef90_UPI0003631444 G D D T R K W G P P F V S L D I S Q P D G G Q K L A K Q L I S Q C D I L V I E N F K
UniRef90_N8Z5R3 G D D T R M W G P P W M T V D I A S E P E G Q A L I R D I A K T A D V L I E N Y K
UniRef90_Q1LLH2 W W E A Q S R N K Q S I A I D L R L P E G G A L V R K L A S E A D V L I E N F R
UniRef90_A3VK92 G D D L R T L G P P W V T S P F A H P D G G A E I L R G L V A E A D I F I E N F R
UniRef90_D3F3M7 W W P E T Q S R N K K F V T L N L L A S H R E A G Q E L M L E L V A Q S D V V L I E N F R
UniRef90_Q1LGR5 G D E T R G W G P P W L T V N L L A S A D G Q A I I R R L L A S A D V L V I E N Y K
UniRef90_Q0FLE7 G D D T R N F P P F Q G G L S H K S E D G L R I A R E L A A T C D I V L I E N F R
UniRef90_UPI000345B363 W W A V Q A R N K K S V T V N L D L K A E E G K E I V R R L A H E A D I V V I E N F R
UniRef90_UPI000376B3D0 W W R S I G R N K K S V T L D L D L K Q E E G A V L A K N L C R D A D V L I E N F R
UniRef90_A3PFW8 D D T R R W G P P F I E T A D F R T P E G G Q E T V R R L V A D A D V V I E N F K
UniRef90_UPI0003B48C45 G D Y V R M Q P P Y V D G A E E K Q A D G R E A L L A L A A D G A D V L I E S F R
UniRef90_E6V2F1 W W Q V Q S R N K R S L A L D L R E P E A Q A I V R Q L L A E E A D V V I E N F K
UniRef90_M1NRC2 G D D T R T W G P P W W T V D L T R P E G G Q E L I R R L A E E A D V V I E N F K
UniRef90_W6MA67 N K N L P N R N R G K Q L T A L D I R S P E G R E N A L R L V D Q A D V L I E G F R
UniRef90_UPI000471502F D Q C R S R N R N K K G I T L N L K S T E K G K K I F Y E M V K T A D V V V I E N F R
UniRef90_A8TY17 D L L R K L G H K H Q G C V D I K T A A G L E V V K K L A T T A D V L V Q N F R
UniRef90_UPI00035E74E M F H S L N R N K R S I T L D L D L K S A E D K T I F L D L V R T A D I L L I E S F R
UniRef90_Q0KC97 W W Y S Q S R N K K S L T L D L R K S A Q G Q E I V R K L L V T E A D I V I E N F R
UniRef90_A0A052J7K8 D E T R G W R N K R D I S I D M T Q P A G Q E L L A R L L A D A D V F I E N F K
UniRef90_UPI000471502F P F L W T N R N K Q S V A I D L K S P E G V E V A R D L I R T A D V V V I E N F S
UniRef90_U6S182 R W P G I S R N K K S I T L D L R T L E G K E L F K K A D I L K A D I V I E N F R
UniRef90_M2YF15 G D D T R G W G P P F V S I D F T C P E G G Q A L V R R L L A A R S D V V L I E N F K
UniRef90_S5SWA3 Y F H T I N R N K K S I V I D L K S D G A P Q L V R R L L S E S D V I I E N F R
UniRef90_Q5WKM0 W W P I Q S R N K R S I T L N L N L R E Q E G Q Q L F R K L S E S S D I I I E N F R
UniRef90_K7RZ02 N P N F F K R G K K S I A L D L K N P D D V E T V L K L V E Q S D V L I E G F R
UniRef90_M0CZ97 W H K Y L S R N K L S V T L N I S T D E G G A V E E D L V R E A D V L I E N F R
UniRef90_UPI0004085E4 W W A A Q S R N K R S L T L D L R Q A E A Q Q V V R Q L L A D A D V L I E N F R
UniRef90_B1KCJ8 Y F L A I N R N K R S L T V D F K T K E G L Q L L H K L V S R S D I L V I E N F I
UniRef90_Q13LS5 D Q N R K E S G P H N P D M N L N Q A E R Q M L L K L V E T A D V I V H S M R
UniRef90_A4WXD2 M W L T E S R N K K G V T L N L N L A D E R G R Q M L R D L A S C D I V V I E N F R
UniRef90_A8LGU6 P D L R D W R D G G Q S L H W K T Y G R N M E A L R R L L A G A D V F I E N Y R
UniRef90_C5BFR6 P D D L Q L R G R K I V R V D L R S A D G R E Q V L G L V R E A D V L I E G Y R
UniRef90_I0WIK6 Y Y M N L N R N K R Q G I T L N L K D P D G V L L F L R L V A K A D I L I E N F R
UniRef90_B4UK48 D E T R G W G P P F V R E D H S T Y F E G G Q L L R R M L A E A D V V I E N F K
UniRef90_UPI00046AD5A4 G D W L R W M P K R S L A I D L H R A E G V E A F L R L A A R A D A V I E S F R
UniRef90_U4K1E5 K T D I N R R G P K R S V L N L K S D A G L S A A R L L V A Q G D V V I E G F R
UniRef90_B3TCG3 N F L A W N R N K R S L A V N L K N P D V H Q C I M E M A K T A D V V V I Q N F R
UniRef90_E9DIQ7 P Y D D V N R N K R S L L D L K S E E R G Q Q V F W R L I E T A D V I V E N N R
UniRef90_UPI000370B6E5 G D E T R Y W R I H G E S E K W K S E G I S C Y F A C V N R K V D V I V D N F V
UniRef90_A1WNV4 G D D T R Y G P F Y T V L N L K D E A D K A I F L N M V R E A D V L T E N F R
UniRef90_UPI0004775E40 G D M F W N R N K R S I A L N L K S R K V H A I T M E M A Q T A D V V V I Q N F R
UniRef90_A1UDB2 G D D T R K W G P P F L A D N I T S P E G G Q A V I K K L V A E S D V L V I E N Y K
UniRef90_Q11E32 F W T V H A R N K K A I T L D L R T S P R G R E I F L E L V E Q T D V I V I E N F R
UniRef90_UPI0001FFEFB5 G D D S R S W G P P F L A I D L Q S P E G A Q I I R D L V K H A D V L V I E S F R
UniRef90_UPI0003645FBB Y T M L Y N R N K Y G A T L D T R H P D A L G V L E Q L V R W A D V V V I E N Y R
UniRef90_UPI0003F9E17A Y F A C T N R N K R S L C L D F T E P D D L A L L R L L V E R A D V V L I E N F R
UniRef90_UPI0003603313 D T M R A V G P M R N A A M D L R S T S A G Q E A C L Q L I R E S D V L Y N L R
UniRef90_UPI0002E50C1E T W Y A T N R N K R S I V L D L R S D S A G R Q T A R A L C L K A D V V L I E N F R
UniRef90_D5VXT5 W W Q A Q S R N K Q S V C I D L R Q Q E G G Q Q L V R R L A E T A D V I I E N F R
UniRef90_J2XMY0 G D D A R H M S P Q W M A L D F T K P E G R E I I K L V A R S D V V V I E N F R
UniRef90_UPI00046E5DC8 W W Y L Q S R N K K S L A L D L K A A E E G L A L V K Q L L Q D T D V L I E N L R
UniRef90_A7HAJ2 E R D V V E R G I E S V E I D L K A P E G R E T V L R L L A A S A D V F V I E G F R
UniRef90_U2WS93 A F H A L N R N K C S V A L D V R S P E G A A V F L R L A R R A D V V V I E S F R
UniRef90_J0KJ76 V W M S E G R N K R S L E L D L R S P E G A D T L K K L A A E A D V L C E N F Q
UniRef90_J2W402 D D Y R H I G P M R E G M S D L K H S D A A Q T I A A L A A T A D V V V I E N F R
UniRef90_Q0K3E5 W W S V Q A R N K K S I T L N L M K H P E A R E A R A R L A L E A D I I I E N Y R
UniRef90_V8QRQ6 Y F V W L N R N K K S I T L N L K D R E A R E I L R R L L A D A D V L I E Q N L A
UniRef90_Q6N8F8 D A V R S M G S H K N I S I D L R Q S K G R D L V R T L C E R A D I V I E N F K
UniRef90_Q022N1 Y F T M L N H N K R S L T L D L K N A P E G K E V L T A L I R T C D V L V I E N F G
UniRef90_UPI0003A41459 D T L R H Y P S T L P Q E S R C K Q A E G G E V I L R M A G T A D V L H N F R
W W F V I Q A R N K R S L T L N L K H P D G L H I L K E L L A D A D I L I E N F R

UniRef90_UPI00035DC163 P G V M E R L G L G L 90 G P E D C L R S N P 100 V Y A R M T G W G H G P L A A S A G
UniRef90_N4VTF0 P G T L K K Y K L G L D Y D T L R A A I N P R L I V Y A S M T G Y G Q Q T G G P Y S Q D R A G
UniRef90_UPI0003830EC8 P G V A E R L G L G I A P E A A A H A R N P R L I V Y G R M S T G Y G Q Q H G G P Y R S A D D R A G
UniRef90_F6IE86 P G T L E K W G L G L A G P E A D L K E K P R L I V Y A S L T G Y G Q Q D G G P Y R Y S D T R A G
UniRef90_UPI00047646C7 V G G L K K Y G L G L D Y E S L K A V N P R L I V Y A S L T G F G Q Q Y D G G P D A S H K R P G
UniRef90_DOLE49 P G T L E R L G L G I G D P E T L S A R N P R L I V V V R V I T S G Y G Q Q Y T G G P D S D R R A G
UniRef90_U7P7N5 P G V L G K M G L G L D D D T L L R E R Y P R L I V V G R I V I T S G Y G F G S T G G P Y Y R D R P A
UniRef90_M8E0J2 T G T M E R L G L G L G Y D Q L S L I N P K L I V Y C S S I I T S G F G E T G G P Y H H L A G
UniRef90_A1HSG9 P G V M D S L G L G F S Y E A F K K E I N P D I I I M C C S V I T S T F F G E K G G P Y S Q N R V A
UniRef90_UPI0003B7BBAA A G V P A K L K L G L D Y E A F H A R N P R I I I T C C S V I T S T F F G E D G G P Y G A N R P A
UniRef90_UPI0004676051 V G G L K Q Y G L G L D H E S L R A L I N P R L I V Y C S S V I T S T F F G Q Q D D G G P Y A E R R P A G
UniRef90_UPI000255A916 P G T L E K W N L G L G W E D Q L S A I L N P R L I V M L R V I T S G Y G Q Q D T G G P Y A S R R P G
UniRef90_W7QC21 T G V T K S L K I D Y D T L K A L I N P S G I V Y C C S V I T S G Y G Q Q T D G G P Y S H R G G
UniRef90_Q01YM2 P G A M D R L G L G L G Y E A L H A R N H P A L V V Y C S S I I T S G Y G Q Q D G G P S R D E A A G
UniRef90_A8ZZV8 P G V V E K L G V G D Y K T V A E K N P R K I V Y C C S V I T S G Y G Q Q T G G P E Y S D R R A G
UniRef90_A0A031K0G5 P G T M E K W G L G L D P D V L H E I N P R L I V I V R V I T S G Y G Q Q T G G P Y S S R A G
UniRef90_Q9VDL4 P G T L E R Y G L G L G Y E Q L R K V N P K L I V Y C S S M T G Y G S V G G P Y A K R R P G
UniRef90_A9AC17 V G Q L K K Y G L G L D Y E A S L R A V N P D L I V Y C C S V I T S G Y G Q Q T G G P Y A H K R A G
UniRef90_I3U7K5 P Q S M E R M G L S Y E A V L S A V N P R K I V Y V G A Y I T S G Y G Q Q D G G P Y A G R P A
UniRef90_E5WMB6 P G V T K S L G L G L D F E S L K K I N P R L V V Y C S S I S G Y G Q Q T G G P Y S H K G G
UniRef90_R7XT03 P G V T E R L G L G L G P D D C W A R N P R L V V Y G R M T S G Y G Q Q D G G P W S Q A A G
UniRef90_Q1YGH1 P G V L A A M G F D R A A L D A I N P R L V V V G S V N G Y G S T G G P Y R D R P A
UniRef90_A8L1P3 P G T L E R W N L G L G Y D T L S A I N P R L V V L V R V I T S G Y G Q Q D G G P Y S Q R R A G
UniRef90_UPI0003829DC2 P G A M E G W G L G L G P D E L S A L I N P R L I V M L R I S G Y G Q Q T G G P Y R D K P G
UniRef90_H0J5V1 P G T L E N W G L G L G Y E A L S K L I N P R L I V M A H I S G Y G Q Q T G G P Y R D K P G
UniRef90_A0A024HCV6 P G V M D K L G V G Y E A L K A I N P R L I V Y V S I T S G Y G Q Q T G G P Y R D R A G
UniRef90_F6F1J3 P G V M E R L G L G L G P D V L R G I N P R L I V Y G R M T S G W G Q T G G P Y S Q M A G
UniRef90_K1KM08 T G T M E K L G L G L G Y E T L K E I N P K L I V F C S I T S G F G R T G G P E K N R A G
UniRef90_G8S0N9 P G V A E R L G L G F G P D R C A G L I N P R L V Y A R M T G W G Q Q D G G P L S A A A G
UniRef90_F7BZS2 Q G V M E E F G L G L G P E I T L Q K A D N P R L I V Y A R L T G F G Q Q S G R L S K V A G
UniRef90_A0A059KGU8 V G G L R A Y G L G L D F D S L H A L I N P R L V Y C C S I I T S G F G Q Q T G G P Y A P Q A G
UniRef90_UPI0003631444 V G G L A K Y G L G L S Y E D L K E E F Q L I V Y C C S I I T S G F G Q Q T G G P Y A P Q A G
UniRef90_N8Z5R3 V G A L A R Y G L G L D Y E S L K A I N P K L I V Y C C S I I T S G F G Q Q N G G P Y R A E E P G
UniRef90_Q1LLH2 P G T M E K W G L G L G W D V L H A D N P K L I V M V R V I T S G Y G Q S G P K R D E P G
UniRef90_A3VK92 T G T L A R Y G L G L G Y D D L A K I N P R L I V Y C S S I I T S G F G Q Q T G G P Y S D R S G
UniRef90_D3F3M7 P G T L E R W N L G L G Y E Q L A A A N P G L V V L C C R V I T S G Y G Q Q T G G P Y A G R P G
UniRef90_Q1LGR5 V G T L A R Y G L G L G Y D D L R E A N P G L V V Y Y V R V I T S G F G Q Q T G G P Y R H L P G
UniRef90_Q0FLE7 P G V M D R L G L G L G Y E T L R D G H E A L I V Y C C S I I T S G F G A N S P H S D K P A
UniRef90_UPI000345B363 P G L L E K L G L G L G Y D V L S E G N P G L I V M V R I S G Y G Q S G P Y S R D R P G
UniRef90_UPI000376B3D0 P G V M E S W G L G L G P D V L I K A D N P N L I V Y A R I T S G Y G Q Q D G G P Y S N K P G
UniRef90_A3PFW8 V G G L A K Y G L G L D W P S L Q K V N P R L V Y C C S I I T S G F G Q Q D G G P Y A H R A G
UniRef90_UPI0003B48C45 P G V L D R L G L G V G F S V L H A R N P R L V H C C A I T S G F G Q Q T G G P L R D R P G
UniRef90_E6V2F1 P G A M E G W G L G L G P D A L L A A N P A L V M L R I S I T S G Y G Q Q T G G P Y R D R P G
UniRef90_M1NRC2 V G A L A R Y G L G L D Y A S L S A R N P R L V Y C C S I I T S G F G Q Q T G G P Y A P T A G
UniRef90_W6MA67 P G V M E R L G L G L G P E V T H A R N P R I I V Y G R M T G W F G Q Q N G P L A Q N T A G
UniRef90_A0A037Z2P9 M G V T K K L G L G I E Y E T L K E I N P R I I F A S G S I T S G F G Q Q Y G P L I S A N T A C
UniRef90_A8TY17 P G A I E R M G L G L G E D V R A I R P D I I Y V S M S G F G E S G G P Y A H Q R V
UniRef90_UPI00035E74E P G V M A R L G L G L S Y E D L K V I N P K L I V Y C A I T S S F G Q Q S G P Y K D V P A
UniRef90_Q0KC97 P G T L E K W G L G L G W E D L R K V N P A L V M V R I T S G Y G Q Q T G G P Y K D R P G
UniRef90_A0A052J7K8 I G T L E R W G L G L G Q D S L R E R F P R L V H C C R I S I T S G F G A D G G P Y G A Q P G
UniRef90_UPI000471502F T G V M E R F G L G L G Y E S C R Q I R E S I I Y C S V S A Y G R E T G P F S D R L G
UniRef90_U6SI82 P G T L E K W G L G L G Y D V L K S V N E G L I M S R Q S I T S G Y G Q Q T G G P F A E K A G
UniRef90_M2YF15 V G G L A K Y G L G L D Y P A L K A V K P D L V Y C S I T S G F G Q Q D G G P Y A G R A G
UniRef90_S5SWA3 P G V L G R L G L G I D R D E L A A N P S V I W A S L S G F G Q Q D G G P D R D K P A
UniRef90_Q5WKM0 P G T M E K W G L G L S Y E T L S K E N E G L I M V R T S I T S G F G Q Q T G G P Y K N R A G
UniRef90_K7RZ02 P G I T E K L G L G L G P E V C H Q R N P K L V Y G R M T G W G Q Q T G G P L A K N A G
UniRef90_MOCZ97 P G T L E R W G V G W E H L S D V N D G L V M L R M S G F G Q Q D G G P Y A K R P G
UniRef90_A0A059KSM1 P G T L E S W G L G L G W D T L H A L I N P K L I V M L R V I T S G Y G Q Q T G G P Y R D R P G
UniRef90_UPI00044085E4 P G R L S A L G L G L G W E D C S S I N P K L V Y A S L S G Y G Q Q D G G P Y K T Y P G
UniRef90_B1KCJ8 P S A A E R L G L G I G Y E A V L A R N P R L I V Y A S G A Y G R I D D G P Y K D R P A
UniRef90_Q13LS5 P G V I E K W G L G L D F E S H R K L N P R T I L V R I T S A Y G Q Q D G G P Y N R G K P G
UniRef90_A4WXD2 P G T L E E M G L G L G P E A L A E L N P R L V T L R I S I T S G F G Q Q T G G P Y A K L P G
UniRef90_A8LGU6 P G V T E R L G L G L G Y P A D C Q A R N P R L V Y A R M T G W G Q Q T G G P L A N R A G
UniRef90_C5BFR6 P N T M E K L G L G I G Y E K L A E I N P R L V Y G C V I T S G F G H Y G G P Y S A N R A G
UniRef90_I0WIK6 A G T L E R W G L G L G D E V L A A E F P R L V H C C R I I T S G Y G T D G G P L G G A P G
UniRef90_B4UK48 P G V L D R L G L G V G P E A L R A R A P R L V L C S I T S G Y G Q Q D G G P Y A G R A G
UniRef90_UPI00046AD5A4 P G V M E R L G L G L G P D A C P A D T V I Y A R M T G W G Q Q D G G P W S H T A G
UniRef90_U4K1E5 P G V L D K L G Y G Y E D F K A I N D R I I Y C S S G S G Y G E S G P Y L S R P G
UniRef90_B3TCG3 K G S L E R L G L G L S Y E D V K R R R P D I I Y A S L N A F G H D G P W S E R A G
UniRef90_E9DIQ7 P G K M D Q L G I G Y D T L S K V N P S I I H A S L S G Y G A G G P Y S K R A G
UniRef90_UPI000370B6E5 P G T M K H L G L G L S Y D D L I K I N P R L I V Y A S S S G F G Q T G G P F A A Y P A
UniRef90_A1WNV4 P G V L A R L G Y G Y E D F K A V N P G I I Y C S S G S G Y G E E G P Y V I R P G
UniRef90_UPI0004775E40 V G G L K K Y G L G L D Y A S L S A I N P R L V Y C C S I I T S G F G H T G P Y Y Q K R A G
UniRef90_A1UDB2 P G T L E R W D L G L G Y D V L R E R N K G I I L V R V I T S G Y G Q Q T G G P D A H R A G
UniRef90_Q11E32 P G V M E R L G L G L G Y E T L R Q I N P R L V L Y C A I S A Y G Q Q T G G P Y K S R P G
UniRef90_UPI0001FFEFB5 P G T I E K M G I G Y E R M T E L K P D I V L T S I S G F G Q Q T G G P L S R R A L
UniRef90_UPI0003645FBB C G D L A R H G L D Y A S L C A R N P R L V Y C S I T S G F G Q Q T G G P Y A Q R A G
UniRef90_UPI0003F9E17A P A A M A R L G L G L D Y E R V A A A N P A I V Y V G A Y G F G E D G G P Y A G R P A
UniRef90_UPI0003603313 P D V M G R M G L D Y E T L A A A S P R L V Y A S I T S G F G A D G G P D A A L P A
UniRef90_UPI0002E50C1E P G T L E K W G L G L G W E Q L H A A N P R L I M L R V I T S G Y G Q Q D G G P R R D E P G
UniRef90_D5VXT5 K G V L E K Y G L G L D S V D L V R Q Y P S L V Y C S I T S A Y G Q S G P K D Q W K P G
UniRef90_J2XMY0 P G A L E K L G L G L G W T V L H A L I N P R L T L V R I T S G Y G Q S G P Y R D R P G
UniRef90_UPI00046E5DC8 P G V V E R L G L G L G P G E V R A R N E R I V Y A R L T G Y G Q Q T G P R A K Q A G
UniRef90_A7HAJ2 P G V L E G L G L G L G W T A L R A A N P R L V L C S I T T A Y G Q Q D G G P Y A A R A G
UniRef90_U2WS93 V G T L E K W G L G A D V L Q E I N P R L I I A R T A Y G Q Q T G P Y R N R P G
UniRef90_J0KJ76 P G V A E R L G L G V G P E A L R G V N P G L V Y V S V S G F G Q Q T G P L A H L P A
UniRef90_J2W402 P G V L E K W N L G Y E D L K Q V N P A V I M V R I T S G Y G Q S G P L R D L P A
UniRef90_Q0K3E5 P G A A V R M G L D F D S L H K V N D K L I V C D I S G Y G D S G P Y R D K K P A
UniRef90_V8QRQ6 P G K L E Q W G L D Y D S L A A V N P G L I L V R I S G Y G Q D G P Y S R R P G
UniRef90_Q6N8F8 P G V L D R M G F T W E K I Q E I N P R M I V A S I T G Y G P G P Y E D C K V
UniRef90_Q022N1 S G V P A R L G L D Y E R K I R R V N P R L I Y C A L T G Y G D S G P L K N K A G
UniRef90_UPI0003A41459 P G T L E K L G L G L G W D C L H E L N P K L I M V R L S G F G Q T G P L K N R P G

UniRef90_UPI00035DC163 H D I N Y L A L S 130 G M L H A I T G E P G G K P V V P L N L V 150 A D G G A T G G M M L A
UniRef90_N4VTF0 Y D V M V E A E F G L M H I T G S R D G G P P V K V G V A V T D L T T G L Y T S
UniRef90_UPI0003830EC8 H D I N Y L S L T G A L A A I T G R A E G G P P Q V P L N L L G D F T G G G A L Y L V
UniRef90_F6IE86 F G G V G E A M G G W R Y V V G E A P D R P P S R M G I S I G D T L C A T Y G C
UniRef90_UPI00047646C7 Y D Y I I Q A L S G L M S I T G P A D G M P H K V G V A V V D L F T G L Q L S
UniRef90_DOLE49 Y A S V A E A A S G L R H L N G Y P G Q Q L P R L A L S L G D M T L A G M F A A
UniRef90_U7P7N5 Y D F I A Q A M S G F M G V N G T A D G E P M R A A P P I S D M V A S Q N L A A
UniRef90_M8E0J2 Y D Y I I Q A M S G W M S I N G T E Q D S G P L K V G V A V T D I F T G L Y A A
UniRef90_A1HSG9 Y D I V A Q A M S G L M W M T G D P D R S Q T R S G T S I G D V N A S A H A L G
UniRef90_UPI0003B7BBAA F D Q V A Q A Y G G M S I T G T D A S Q P M R A G I P I G D L G G G M F A V
UniRef90_UPI0004676051 Y D L M V Q A M T G M M S I T G R E P G G G P L R V G V A V I D L F T G M Y A S
UniRef90_UPI000255A916 F A A I A E S L G G L R Y L A G Y P P V R A G V S I G D T L A S L Y G V I
UniRef90_W7QC21 F D L V A Q G M S G L M S M T G E P G R R P L K T G I A V Y D I G A S L T A V
UniRef90_Q01YM2 M D L V V Q G S S G L L S I T G T A D G E S V R C G Y G V T D V T A G Q F A I
UniRef90_A8ZZV8 H D I N Y L A L C G V L D L I T G D K D R P A P P G V Q F A D T L A G G G M S A A
UniRef90_A0A031K0G5 F G G I G E A M G G W R Y I V G D P D R A P S R M G V S I G D S L A A T Y G C
UniRef90_Q9VDL4 Y D V I A S S V G G L M H I T G E R D G P P S K V G V A V T D M S T G L Y A H
UniRef90_A9AC17 Y D F I V Q G L G G F M S I T G E R N S G G G P P Q K A G V A I A D L A T G L Y S T
UniRef90_I3U7K5 Y D D L I Q G M T G V A R L Y E R S G H P R Y A P L T L A D R T L G L Q A A
UniRef90_E5WMB6 F D L V A Q G M T G L M S M T G E K G M R P M K S G I A V Y D I G A G I T A A
UniRef90_R7XT03 H D M N Y L A T G A L H G L N G Q D R S R P H F P G N L V G D F G G G S T Y L V
UniRef90_Q1YGH1 F D F I T Q A M S G F M S V N G S Q R E S G P M R A A P P L T D L I A G L Y A A
UniRef90_A8L1P3 F G S I G E A M G G I R Y T T G N P D R P P S R T G I S L G D S L A G T F A A
UniRef90_UPI0003829DC2 F G V V A E A M S G L R H L T A E P G R V P V R V G V S I G D T L A S L Y H G V
UniRef90_H0J5V1 F G V I G E A M G G L R Y L T G Q P G E P S V R V G V S I G D S L A S L Y A V
UniRef90_A0A024HCV6 H D I N Y L A L A G V A S Y T G R R D T G P L P L G V Q L A D L G G G S L Y H G V
UniRef90_F6F1J3 H D L N Y L A T S G A L H A I T G R A E D R P I P P L N L V G D F G G G A L Y L A
UniRef90_K1KM08 Y D V L L Q A F A G L M S I T G R E A K A G M S I A D L T T G M F A A
UniRef90_G8S0N9 H D I D Y L A I A G A L E P L G R S S G Q P P H A P V N L L A D F A G G G M L L A
UniRef90_F7BZS2 H D I N Y L A L S G V L S K L G R S N E T P Y A P L N L L A D F G G M S L T C A
UniRef90_A0A059KGU8 Y D F L I Q G M G G L M S V I T G R E A G P Q K V G V A L T D V M T G L H A A
UniRef90_UPI0003631444 Y D F L I Q G M G G L M S L T G E P D G G Q P M K V G V A I V D L M C G M Y A S
UniRef90_N8Z5R3 Y D F I Q G M S G L M S I T D D V L G G G A Q K V G V A V V D I Q T G L Y A T
UniRef90_Q1LLH2 F A A V A E A M S G L R Y L T G E P G R P V R A G L S L G D T I A G L H G A L
UniRef90_A3VK92 Y D Y L V Q A M G G Q M A V T D G M T G A G P M R V G V P I A D I T A G N N A V
UniRef90_D3F3M7 Y A S V A E A M G G L R Y I S G F P G E A P P R S A I S L G D S L A G I F A A Y
UniRef90_Q1LGR5 Y D F V F Q G M G G L M S I T D D P G G G P Q K V G I A V A D I L T T G M Y A S
UniRef90_Q0FLE7 F D I V A Q A L S G V M S V N R E P G Q A P N K L G I P L G D M A G S I F S L
UniRef90_UPI000345B363 F G A I A E S M G G L R H I T G Y P D L P P R I L G I S I G D S I A A L H H G V I
UniRef90_UPI000376B3D0 F A S V C E G F S G F R Y V N G H P D G E A P V R P N L S I G D S I A A G L H A F
UniRef90_A3PFW8 Y D F I I Q G M A G L M S V T G A A E G G Q P Q K V G V A V T D I F T G L Y A A
UniRef90_UPI0003B48C45 H D M N Y L G L N G V L A L N G G E P V N G G V V A H D L G G G A Q M A V
UniRef90_E6V2F1 F G V V A E A M G G L R H L T G E P G R V P V R V G V S I G D G V I G V L M A M
UniRef90_M1NRC2 Y D F L I Q G M G G L M S I T G R P D H E P G G P M K V G V A L T D I L T G L
UniRef90_W6MA67 H D I N Y L A L S G A L H A I T G R A E G G P T P P L N L I A D Y G G G A M L L A
UniRef90_UPI000372P9 Y D L V A Q S M G M V N L T G F P A K V G P S I A D N V T G I Y L C
UniRef90_A8TY17 Y D P V I Q A L S G L A D I Q R D R E T G Q P R M V R T V I P D K T T A L T A S
UniRef90_UPI00035EE74E H D I N F L S Y S G L D L D L G G E R E R K P I T S P V Q I G D T L G G S L M A T
UniRef90_Q0KC97 F A A I A E S M G G L R Y V S G Y P D R P P V R S G V S I G D T L A S L Y G V I
UniRef90_A0A052J7K8 Y D A A V Q A M S G L M S V N G E A D G Q P L R M G V P V T D L V T G L N A V I
UniRef90_UPI000471502F F D P L A Q V E S G F V S M N G Y P D R E G V R A L S P V M D I S T A M M A S
UniRef90_U6S182 F G T P A T A F S G Y T Y L Q G F T D R H P V S P S F S L L D Y I S G I F L A L
UniRef90_M2YF15 Y D F L I Q G M G G L M S L T G E A E G Q P M K V G V A L T D I F T G M Y A G
UniRef90_S5SWA3 Y D M I V Q A L S G S M S L T G E R G G S P V R T G L P V G D L A A G L N M A
UniRef90_Q5WKM0 F G S V G E A M G G L R H V T G Y E D R P P S R I G L S I G D T L A A L F S A
UniRef90_K7RZ02 H D I N Y V I S I T G A L H Y G G L P D D A P Y P T P T L V G D I G G G T L P L V
UniRef90_MOCZ97 F G T L A E A M S G F A H L N G E P D R P P L L P P T G L A D S V A A L F S T F
UniRef90_UPI0004085E4 H D I N Y L A L T G A L H A M G D G G A P P V P P M N L V A D Y G G G M F L I
UniRef90_B1KCJ8 Y D V I I E A E A G L M H I T G E A G R Q P C K V G V A A T D I A T G L Y A H
UniRef90_Q13LS5 F R D V I Q G E S G I A A M N R D I D G S P R Y F P T V I V D K F C G Y V L A S
UniRef90_A4WXD2 F A R V A H A F A Y L A G E P G R V P V T P G S T S L A D Y G S G M Y A T
UniRef90_A8LGU6 H D I N Y L S L T G A L H A M G E A G Q R P V P L N L V G D Y G G G S M F L L
UniRef90_C5BFR6 Y D L I G Q A M G G L M S T T G W P D G E P T R C G T A I S D V L A G M F M T
UniRef90_I0WIK6 Y D A V L Q A L S G L M S I N G E A D G E A M R I G I P L V I D I V T G L N A M
UniRef90_B4UK48 H D I L D Y C A V S G V L A A N G P D A P R P L G V Q V A D V A G G A W P A V
UniRef90_UPI00046AD5A4 H D I N Y L A L T G A L H A M G D G G A P P V P P M N L V A D Y G G G M F L I
UniRef90_U4K1E5 Q D M L V Q G L T G L A S N T G Q A S Q P P V P T G A G I A D Q I G A M N M V
UniRef90_B3TCG3 W E Q L A Q A V S G I Q V R R G G R D G A P I T L P Y P M N D Y G T G L L G A Y
UniRef90_E9DIQ7 Y D L I A A A E S G L I H V T G E A G G P P T K P G V G L T D L C T G L F M H
UniRef90_UPI000370B6E5 Y D T I I Q A M S G L M S M T G F P D G P A T R V G T S I S D L C A G V F M F
UniRef90_A1WNV4 Q D M L I Q G L C G L T A N T G R G D Q A P V P V G A G L A D Q I G A M N M V
UniRef90_UPI0004775E40 Y D F M I Q G M G G L M S I T G E P E G G P L K V G V A V T D I F T G L Y A T
UniRef90_A1UDB2 Y A S V A E A A S G L R H L N G F P G G P P R L A L S L G D S L A G M F A A
UniRef90_Q11E32 Y D L M I A S M G G L M S V T G T P G G E P V K T G V A L I D V C T G L H A A
UniRef90_UPI0001FFEFB5 F D A I A Q A S S G L M D T T G E A D G G P T L T G T Y I A D Y V T G F Q A A
UniRef90_UPI0003645FBB Y D F L I Q G M G G L M S I T G R A D G E P G A G P G V A L T D V M T G L Y A T
UniRef90_UPI0003F9E17A Y D D L I Q G M T G L G H I Y Q Q S G A D V P R Y T P L T L C D R T V G L H V A
UniRef90_UPI0003603313 F D L T I Q G V G G Y M S I T G S R E G A P V K L G T S A F D M L A G M N C Q
UniRef90_UPI0002E50C1E F A A I G E A M A G L R Y I T G E P G R V P V R A G V S L G D T I A G L H G A L
UniRef90_D5VXT5 Y D A V L Q A R T G I M S L T G S R E E P S R A G V S I L D A G S A M W A A
UniRef90_J2XMY0 F G A I G E A M G I R Y T T G E P G A A P A R A G V S L G D S L A S L H A V M
UniRef90_UPI00046E5DC8 H D I N Y V A Q S G V L S A L G R A D A A P P P I N L L G D Y A A G G A V G A
UniRef90_A7HAJ2 H D V D Y L A V A G V L G L T G E P E R A P A V P G V Q V A D L A G G S W P A V
UniRef90_U2WS93 F G R I A N A F S G I S Y L C G E P D A P A S P G T A T L S D Y A M S G V Y A A
UniRef90_J0KJ76 Y D I I V A M S G L M E S T G D P D G A P T M V G E A V S D V I A G L F A S
UniRef90_J2W402 F G A I G E S M G G L R Y V S G H A D R P P V R V G I S I G D S V A A L H G V I
UniRef90_Q0K3E5 Y D L L I Q A A A G L V G L T G G P A N E P S R A G V S I A D I S A G M Y A Y
UniRef90_V8QRQ6 Y G V V C E A F S G L R E I T G D P D R A P A R V A V S V T D Y I T G L Y A F
UniRef90_Q6N8F8 Y E N V A Q S T G G A A S T G P R E G P L V T G A Q I G D S G T G L H L A
UniRef90_Q022N1 Y D Q V L Q S I T G I C A S L Q G P P E G P Q I V Y G S V V D Y A A S Q I L A
UniRef90_UPI0003A41459 F G A V G E S V G G L R Y I T G F E D R P V R T G I S I G D S I A A L W G V I

UniRef90_UPI00035DC163 F G V L A A L T H A R A T G Q G Q V V 170 D A A M A E G C A L L G S M I H T L R A M
UniRef90_N4VTF0 N S I M A A L L A R G K T G K G Q H I D V A L S D C Q T A T L A N I A S S C L I
UniRef90_UPI0003830EC8 V G V L A A L H H A R A R T G E G Q V I D D A A I V D G V T H V L A A M I W A E R R H
UniRef90_F6IE86 M G I L A A L H H H A R A R T G E G Q V I D D A A I V D G V T H V L A A M I W A E R R H
UniRef90_UPI00047646C7 I G L L A A L R A R R E Q S G C G Q Q V V D V S L L D S A L A M T A N I G Q N Y L A
UniRef90_DOLE49 Q G A L A A L V R R R T V T G K G Q V V D T S L L E S C V A V Q E S A I A D Y D M
UniRef90_U7P7N5 F G I C A A L V R R A S T G K G Q G D L V E T A L T N G L I A M G Y L A A E F F A
UniRef90_M8E0J2 I A V Q A A V I A R E K T G R G Q K I D L S L F D C A L S T L V N V A S N Y L M
UniRef90_A1HSG9 A I G A A L Y Y R E K T G K G Q Y I D I S M R D C L T A I T E T A L P R Y T M S
UniRef90_UPI0003B7BBAA M G I L S A V I E R Q R S G V G Q H V D I S M L D A Q V S L L N Y M A T M Y S M
UniRef90_UPI0004676051 N A I L L A A L H V R D N T G V G Q H I D M A L L D V G M A V L A N Q A S G F L A
UniRef90_UPI000255A916 G A M M A M H H L K V N T G K G Q Y V D V A L Y E A V F G V M E S L I P E Y G M
UniRef90_W7QC21 Y S I L A A H H H K M N T G E G Q H I D I A I L T E C G L P W F A W E A A Y F A
UniRef90_Q01YM2 I G I L L A L R A R R E R T G R G Q F I D V S M L D G M I S T M S S N Y M T Y L G
UniRef90_A8ZZV8 I G I L L A L V A R R Q T T G K G Q V I D I S M T D S M L A F L P T A L F M H H A
UniRef90_A0A031K0G5 M G A L L A A L H A R R E R T G K G Q V V D S A L Y E A V L Q V M E S L V P E Y M V
UniRef90_Q9VDL4 G A I L A A L Y Q R T R T Q R G Q K I E V D L L S T C C S L L N V G S N Y L N
UniRef90_A9AC17 I A V L A A L A H H R D R T G T G Q S Y I D M A L L D V Q V A L L A N M N T N F L A
UniRef90_I3U7K5 I A C L A A G V I E H S R A T G T G Q S Y I E V P M F E G M A Q M I G D H L G Q R T F
UniRef90_E5WMB6 Y S I L A A F I H K M K T G E G Q H V D I A L A E I G L P W F T W E A G A Y F A
UniRef90_R7XT03 I G V L A A L L E A K T S G G Q G V V D A A I V D G T A H L N A M A T T L T T L
UniRef90_Q1YGH1 F A I L V A A L R V R D R D G E G Q A V E A S M M G M M S M L A Y L A A Q L A
UniRef90_A8L1P3 L G T V M A L L S R E R S G R G Q I V D S A I Y E A V L A L M E A L V P E W E L
UniRef90_UPI0003829DC2 I G I L M A L Q E R R S G L G Q V I D V A L Y E A V F N C M M E S L L P E Y S A
UniRef90_H0J5V1 I G T L L A L Q E R N R S G L G Q V I D V A L Y E S V F A M M E S L L P E F D A
UniRef90_A0A024HCV6 M G L L A A V T H R Q H T G E G Q V V D V S M T D C A F S L N G M A G A G Y L
UniRef90_F6F1J3 V G L L A A L H H A K Q T G E G Q V V D A A I C D G A L S L M S M M Y G Y L N D
UniRef90_K1KM08 F G I V S A L H A S K R T G I G Q Y L D I S L L D S Q V A L L N H M A V G Y M A
UniRef90_G8S0N9 V G V L A A L L E R E R S G R G Q V V D A A M V D G S A L L T T F L R G L I D A
UniRef90_F7BZS2 L G I V L A L Y E R T Q S G K G Q V I D A N M V E G T A Y L S S F L W K S Q N A
UniRef90_A0A059KGU8 I G I L A A L R H R D R T G E G Q H L D L A L L D V Q V A A L A N Q T A N H L I
UniRef90_UPI0003631444 N A I L A A L H H R N M T G G S Q F I D V S L F D T Q V A W L A N Q G L Y Y L T
UniRef90_N8Z5R3 I A I Q A A L L A R H H T G K G Q Y I D M S L Y D V Q V A A L A N Q G M N Y L T
UniRef90_Q1LLH2 G V L L A A L Y E R D A R G G K G Q V I D V A L Y E S L F N S E S L P E Y S A
UniRef90_A3VK92 I G I L A A I T D R E K T G K G Q Q I D I S L F D S Q V A L L L N S L S A W L N
UniRef90_D3F3M7 G I L A A L Y E R Q A R S G D G I G Q V V D V S L V E A C F A L M E G A L P E Y D
UniRef90_Q1LGR5 L A I A A A L T W R E R S G Q G Q H I D M A L L D C M L A F N S N Q A V S Y L V
UniRef90_Q0FLE7 F G L L A A L H E R N A T G Q G R H V E V A M L D S M I A L Q G Y L S Q I Y F V
UniRef90_UPI000345B363 G A L M A L H H R Q V N G S E G Q V V D V A L Y E A V F N M M E S V V P E Y G L
UniRef90_UPI000376B3D0 G V V M A L L G R E R G Q S E G Q T V D V A L Y E S M F N M E A V V P E Y S G
UniRef90_A3PFW8 T A I L A A L H Q R A G T G R G Q Q V D M A L M D V A A G I M A N Q A M N Y L A
UniRef90_UPI0003B48C45 I G I L A A L R H A E R T G R G Q V I D V S M T D G A L S W T A M D A A A A
UniRef90_E6V2F1 C H R N A T V S A Q E Y P K G R G Q V I D V A L Y E A V F N C M E S L L P E Y E G
UniRef90_M1NRC2 Y A A N A T L A A L A W R E R S Q H I D M A L L D V Q V A C L A N Q A L N Y L T
UniRef90_W6MA67 V G I V L A L V E A K N S G Q G Q V V D A A M T D G S A L L M A A N I Y S L K A M
UniRef90_A0A037Z2P9 V G V L M A L Y N R E K T G L G Q A V D V A M L D T I F S L L E N S I V V T T M
UniRef90_A8TY17 Q T I S A A L F A R E R S G K G Q H I K L S M F D T M V A Y L W P E A S S S S F
UniRef90_UPI00035EE74E I G I L L A L L G A R K T R E G Q F V D I S M L D G V I S W M Q A T L P Q Y L T
UniRef90_Q0KC97 G A L L A M H H L R A N Q G E G Q F V D V A L Y E S V F A V M E S L V P E Y A K
UniRef90_A0A052J7K8 G I L M A L Q E R G R S G Q G Q F V E S T L Y D S G V S L L H P Q L P N F Y L
UniRef90_UPI000471502F N A V L G A L V A R E R T G V G Q A L E V S L F D N A V L M T G Y A S M Q Q L F
UniRef90_U6S182 G T V S A L Y N R D L E K G K N E G Q Q V E M G L Y E G M F R M M E F L V A E F
UniRef90_M2YF15 F A V L A A L A R R D R T G E G G H I D L A L L D V Q V A V L A N Q A A N Y L V
UniRef90_S5SWA3 I G V L A A L H N R T T G R G D F I D I S M L D C L Y N M L S Y Q G T Y Y L L
UniRef90_U5VWKM0 I G C L A A L Q E R N R S G K G Q V I D T A I Y E S V F A V M E S T V P D Y L L
UniRef90_K7RZ02 I G I T S A L L Y A Q N T G Q G Q V I D A A I C D G T I Y S M G L L T S I R A Q
UniRef90_MOCZ97 A I M F A L Y H R D V S G G G Q Y I D T S L I E P I F S L L G P Q P L R Y D Q
UniRef90_A0A059KSM1 G I L L A L R H R E Q N G D G Q Q I D V A L Y E S V F N M M E S L L P E Y S V
UniRef90_UPI00044085E4 G A I M A A L L S K E K T G K G V W I D C N L F E S Q I A G L A N I A S N Y L I
UniRef90_B1KCJ8 S I S M A L F H R E R T G V G Q L V H V P M F E T M L Q F N L F E H L W E G A
UniRef90_Q13LS5 I G A L I A L Q A R E R T G H G Q V I D L A L Y E P M F R V L D E M V P A Y H M
UniRef90_A4WXD2 A V M M A L F A R E R G A A G Q V I D L S L L E P I F A V L G P E A S I Y K T
UniRef90_A8LGU6 V G I L S A L L E R E R S G E G Q V I D A A I V D Q M M W A W R G M G D W H G F
UniRef90_C5BFR6 I G V L A A H H R A K T G Q G Q V V D V A L V D S V V A G L E I I N Q D Y L S
UniRef90_I0WIK6 N G I L M A L H V R R E T G R G Q L V D L A L L D S A V S T L H P H A G K W F A
UniRef90_B4UK48 A G I L A A L V R R A S T G E G A H V D V S M T E G A L A L L A M P L G M A W A
UniRef90_UPI00046AD5A4 F G V L A A V I E R G V S G K G Q V V D A A M V D G V P A M M G L I Y G M L A Q
UniRef90_U4K1E5 Y A I L S A L Y Y R E K T G K G Q K L E I N L L A G M M A H L G Q E Y L T V L N
UniRef90_B3TCG3 A V S L A L H E R N N T G R G Q A V D G G L A L T A G L L Q S P Y F L D F K
UniRef90_E9DIQ7 G A I V S A L H A R N R T G K G Q K V D G S L F E T Q L A L M V N I A S V W L N
UniRef90_UPI000370B6E5 C G I A S A L Y A R E K T G K G A S V D V A M F D S T L A F L E H G L M E F V A
UniRef90_A1WNV4 Y G I L A A L Y R E K T G K G Q K I E V N L L A G L L A H L N Q E Y V A V L N
UniRef90_UPI0004775E40 I A I L Q G A L Y E R Q S G L G Q H I D M A L L D S Q V A M L A N Q A S N Y L V
UniRef90_A1UDB2 Q G A L L A A L Y R R T V T G E G Q V V D T A L T E S C L A V Q E S T I P D Y D V
UniRef90_Q11E32 I G I L L G A L Y H R Q A T G E G Q R V D A S L L G S Q L A M L T N V A S E Y L I
UniRef90_UPI0001FFEFB5 G T F A A L M H R E R T G E G Q R V D V A S L L D S M F A T L G T R L I W L M L G
UniRef90_UPI0003645FBB I A I Q A A L A E R M R S G L G Q H I D L A L L D V Q V A A L A N Q A S N Y L A
UniRef90_UPI0003F9E17A V A V L A G V I E A R Q S G Q G Q A I E I P M F E A M A H F V L G D H L G G H
UniRef90_UPI0003603313 T A I V A A L L Q R E R T G R G Q H V M T S L L E S E V A F L V A N A A L E Y L M
UniRef90_UPI0002E50C1E G V L L A L Y Q R D A R G G T G Q M I D V A L Y E S V F N L T E S L L P E Y S A
UniRef90_D5VXT5 V G I L S A L F H R E R T G R G Q V V G T S L F E T G I Y W M N Y H L T S Y Q A
UniRef90_J2XMY0 G A L L S L F N V R A N G V G Q V V D V S L L V E S V F N M M E S L I P E Y D L
UniRef90_UPI00046E5DC8 F G V A A A L V S A Q R T G Q G Q V L D I A M L D G A A L L T A K L H G L R A S
UniRef90_A7HAJ2 A G I L A A L R R A T T G E G A H V D V S M A E G A V S L M T L P L A M A W A
UniRef90_U2WS93 L G V L V A L Q S R E K T G S G Q I V D V G L Y E S V F R I L D E L A P A Y A Y
UniRef90_J0KJ76 W A T L A A L L Q Q R R T G E G Q H V D V A M F D A T L S F L V I T G V G R Y L F
UniRef90_J2W402 G A M M A L R H R D V T G R G W M V D V A L Y E S V F N L M M S L V P E F D H
UniRef90_Q0K3E5 S G I L S A L L Q R G R T G K G L R V Q V T M L E A M A E W M S Q V L Y F G H Y
UniRef90_V8QRQ6 G A V M A A I D R N R T G K G Q V V D A A L Y E A A F S F M E P H I P A Y Q Q
UniRef90_Q6N8F8 L G I V T A L Y Q R H H T G R G Q R V T A A M Q D G V L N L C R V K L R D Q Q R
UniRef90_Q022N1 F G V T A A L Y R R E H T G E G Q Y V G V S L L D S A L A M Q S G R F V W S G N
UniRef90_UPI0003A41459 G A L M A L R H R E V G N G Q G Q V V D V A L Y E A V F A M M E S M V P E F D V

UniRef90_UPI00035DC163 G S W N G R R G D N L L D G G A Y F Y A T Y A C A D G R H V A V G A L E P E F H
UniRef90_N4VTF0 S G K K D S R G R W N T A H P S T V P Y R S F K T L E G D I L L F G G A N D R L Y G
UniRef90_UPI0003830EC8 N G G W A D E R S G R S L L D T G T P Y S D V Y A T S D G G W M S V G A L E P R F Y
UniRef90_F6IE86 N G I V R E R S G S L L P G I A P S N V Y T C K D G G P F M I G A N K D A D A F V
UniRef90_UPI00047646C7 N G K T P Q R L G N A H Q S I V P Y Q V F E V A N D Q Q H M V L A C G N D K Q F C
UniRef90_DOLE49 G G V V R P S R T G N D H P M L Y P Y G L F R A S D D G E V A I N D T M V R R R D T V L G
UniRef90_U7P7N5 T D R V P G S R T G N D H P M L Y P Y G L F R A S D D G E V A I N D T M V R R R D T V L G
UniRef90_M8E0J2 S G E V P K P L G N D H P N L V P Y S T Y E A S D G G L F V V A V G N D R Q F Q
UniRef90_A1HSG9 G G Q D K P M R S G R H H A T M A P Y S G V F D A G D G N Y I V L G A L N Q A L W
UniRef90_UPI0003B7BBAA S G E D P E P I G N S H F H A T V P Y N S Y P V S D G H I V L C D G F W Q N L K
UniRef90_UPI0004676051 T G Q A P G R M G N S H P S L A P Y Q D F P T Q D G N M L L A L G N D G Q F Q
UniRef90_UPI000255A916 F G F V R P E T G A S M P G I A P S S T Y R S A D D D R Y I V I A A N S D S I F K
UniRef90_W7QC21 E G R V P E P T G W R H R V I S A P Y Q A I K T R D D G Y L M L G C A N Q R T W E
UniRef90_Q01YM2 S G R V P E P M G T A F P T V V P Y R V F H T L D R P L A I A V G S E K L W S
UniRef90_A8ZZV8 I G V F P E R A N A L L S H R Y A P Y N T Y E T K D G R H I S L G A L E H R F W
UniRef90_A0A031K0G5 S D H V R K R T A G S L L E G I A P S N V Y P E T S D G E Y L I G A N Q D A I F K R
UniRef90_Q9VDL4 S G V E A G R M G T A H S S I V P Y Q S F K T K D G Y L T S D V Q F V D L C R
UniRef90_A9AC17 S G T P P V R S W G N A H P N I V P Y Q T F Q T L D G W I T V A V G N D G Q F R
UniRef90_I3U7K5 D E N A P A G S M G Y S R L L A E H R K P Y Q T L D G Y V I Y N D R H W Q F L
UniRef90_E5WMB6 E G T I P E A T G W R H R V I S A P Y Q A V K T K S G Y M M L G C A N Q R T W E
UniRef90_R7XT03 G V A S D R R A S G L L D G G T P Y Y D I Y E T A D D G Q H M S V G A L E P Q F Y
UniRef90_Q1YGH1 T G K T P A P T G N D H P I A S P Y G L F R A A D G G H V A V A P S T A P T L R
UniRef90_A8L1P3 A D F R R E R T G S L L P G V A P S N V Y T A A D G A E I L I A A N R D T I F
UniRef90_UPI0003829DC2 F G A V R R P A G S A L P G I A P S N A Y R C A D G G Y A L I A G N D S I F K
UniRef90_H0J5V1 G G Q V R E P P S G S A L P G I T P S N A Y R C Q G G D Y V L I A G N G D S I F K
UniRef90_A0A024HCV6 A C G V E P D M E N Q A L N G G S F Y D Y R T R D G R W F S V G S L E P Q F M
UniRef90_F6F1J3 G R W T D S R E S N R L D G A A H Y Y A D V Y E C A D G K W I S L A S I E P Q F Y
UniRef90_K1KM08 E G T Y P K R M G T A H G S L V P Y R A F K T G D H D V M I N D G L W N K M C T
UniRef90_G8S0N9 G Q W P G G R G E N L L D G G A P F Y D T Y R T A D G G Y L A V G A I E P Q F Y
UniRef90_F7BZS2 G L W S Q P R G K N L L D S G A P F Y E T Y R T S D G K F M A V G A L E P Q F Y
UniRef90_A0A059KGU8 G G V I P K R M G N A H P N I V P Y Q D F P T A D G D M I L A I G N D G Q F A
UniRef90_UPI0003631444 S G E L P P R L G N G H P N I V P Y N V V P S S D G Y F I N D G Q Y R K F C D
UniRef90_N8Z5R3 S G T A P K R M G N H H P N I V P Y Q T F K A K D K E F I A C G N D K Q F R
UniRef90_Q1LLH2 F G A V R Q P A G G A L P G I A P S N A Y L C G C G E Y V L I A A N G D A I F
UniRef90_A3VK92 A K A P L P R T G N D H P T A V I P N G V F Q V A D G H I L I A T F N D R E F A R
UniRef90_D3F3M7 R L G I V R E P N G T S L K G V A P S N I F R T R D D G K W M I T A A N Q D T L F
UniRef90_Q1LGR5 S G K L P K R Q G N A H A N A V P Y Q V F D S L D G K L I V A V G N D S Q F A
UniRef90_Q0FLE7 S G E S P Q P V I G T Q H P S I V P Y G S Y P T A D G H V I V A C L T E R F W H
UniRef90_UPI000345B363 Y G M V R E R T G S T L P G I V P S N T Y P C C R D G S L V I G G N S D P S I F
UniRef90_UPI000376B3D0 A G I V R E P S G T I V T G I V P S N T Y R C C E D G K Y V V I G N G D S I F
UniRef90_A3PFW8 T G V A P R K M G N E H P N L A P Y A V F D C A D G W I I I A T G N D A Q Y R
UniRef90_UPI0003B48C45 L R G Q P R R R G E T L L T G A H L C Y R P Y A C A D G Y I T I G A L E P K F W
UniRef90_E6V2F1 F G A V R E A A G S A L P G I A P T N A Y R C A D G G Y A I I A G N G D G I F R
UniRef90_M1NRC2 T G Q D P P R L G N A H P N I V P Y Q D F P T A D G W M I L A I G N D G Q F A
UniRef90_W6MA67 G Q W V D Q R A S N F L D G G A H F Y D T Y E Q C A D G K W L A V G P I E P H F Y
UniRef90_A0A037Z2P9 T G E I P Q R K G N I D P S I A P F D I Y E V K D G Y I A I G V G N D K L W A
UniRef90_A8TY17 V G N E R D P T V G Q L G L D L V F A T R D G H I T A G A V S D A E W Q G M C R
UniRef90_UPI00035EE74E F N Y L P K R G E S P L S G G K A C Y Q I Y E T K D G R Y L A V G A L E H K F W
UniRef90_Q0KC97 F G H V R E R S G S L P G I S P S N T Y P C C D G G Y V I I A G N G D A I F
UniRef90_A0A052J7K8 S G K V P Q R V G N R H P N I S C P Y D S F E T R T T P L F L A V G N N R Q F C K
UniRef90_UPI000471502F T G T D P Q R H G N T S P D T C S P S G V F Q A T D C T F Y L N C G N D K I F Q R
UniRef90_U6Si82 D Q L G K V R E R S M L H G H S P A G I Y K T N D N Y W M V M V C S T Q K T W
UniRef90_M2YF15 G G T V P R R L G N A H P N I V P Y Q A F A T A D G H I T L A V G N D G Q F R
UniRef90_S5SWA3 S G E V P G R Q G S G H D A L P T Y R Q F T A Q D G R D I V T T A N T E R M W
UniRef90_Q5WKM0 A G A I R E R M G N T L P G I A P S N I Y L T K D R T F I V I G A N A D G V F
UniRef90_K7RZ02 G L L R E E K G Q D F F G A G S H W C N T Y Q C A D G K Y V S V Q A L E P N F Y
UniRef90_MOCZ97 L G E V I E R G G N R S S S A P R N V Y R T G D D R W V A I S A S A G P L A
UniRef90_UPI00044085E4 F N V V R E P A G S S L P G I A P T N A Y R C R D G G F A L I A G N G D S I Y
UniRef90_B1KCJ8 F G S N D G T G L G Y P R M F S P Y R R P Y A T K D G H I C L L A V N D K Q W R
UniRef90_Q13LS5 L G K V R E R M G A N A V N V A P H A H Y R T R D E R W I A I A C N T N D K I F
UniRef90_A4WXD2 T G K I K E R S G S A S N T V S P R N V Y R C N D G K F V A I S G S T Q T V A
UniRef90_A8LGU6 G D W S D E R G V N L L D G S R P F Y D T Y T C A D G R F V A V G P L E P Q F Y
UniRef90_C5BFR6 S G Q L P G R N G N R Y E S I Y P Y D T S F K C Q D G S M V I G A G N D K L Y H
UniRef90_I0WIK6 T G V A P E R T G V A H P T I C P Y E T F I C S D G P F F I G A G N D R Q F R
UniRef90_B4UK48 R G A P L A R G R E L L D G G A A C Y G V Y R T R D D R F V A L A A L E P R F F
UniRef90_UPI00046AD5A4 G T W S E Q R A Q N W L D G A A P F Y R C Y T C A D G K F V S V G A L E P Q F Y
UniRef90_U4K1E5 L D Q D F E R P D S G I G H P G M D A P F G V Y Q C S D G F V S I A M S P F S T
UniRef90_B3TCG3 G Y Q R D D P E G L D L R G F S A L S R L Y Q A S D G W L Y M H C E S E D D W R
UniRef90_E9DIQ7 M G R E A K R W G T A H P S I V P Y E A F P T K D S Y L V M G A T N N R Q F E
UniRef90_UPI000370B6E5 T G K P L Q R I G N R H P F M T P F D V F Q S A D K D F V I C C G N D H E L C K
UniRef90_A1WNV4 L G E D F V R P N S G H P G M Q A P Y G I Y E T R D G G Y I S I A M S P F K A
UniRef90_UPI0004775E40 G D I V P G R L G N A H P N I V P Y Q A F A T S D G F I L A V A G N N K Q F A
UniRef90_A1UDB2 G G V V R G P S G T R L E G I A P S N I Y R T A D G S W V I A A N Q D T V F
UniRef90_Q11E32 G G S J A K P Q G S A H A N V A P Y Q A F P S K D G W L M G S P N D K L F G
UniRef90_UPI0001FFEFB5 S E M P R N G I S R D L L T A P V N V Y A C A D A Q M Y I Q A G T N S L W P L E C
UniRef90_UPI0003645FBB G G G V P K R M G N A H P S I V P Y Q D F P T A D G D M I V A V G N D A Q F A
UniRef90_UPI0003F9E17A S F E P A L G P T G Y A R L L A K E R K P Y Q T S D G F L V N D K H W T N F F S
UniRef90_UPI0003603313 T G E E P R K W G S E H A Q Q V P Y K A F E T R D G W A V I G A G F Q N F F K
UniRef90_UPI0002E50C1E F G T I R K P A G G A L P G I A P S N A Y R C G D G E Y I L I A G N G D S I F
UniRef90_D5VXT5 T N R D P V P Q G A R H M A F A P Y G T F Q T A D D L L I G I S N D V L F E K
UniRef90_J2XMY0 L G H V R E R S G G A L P G I A P S N T Y R T A D G A F V I A G N S D P I F
UniRef90_UPI00046E5DC8 G L H S D E R G T N F L D G G A P F Y D T Y E C A D R R Y L A V G A L E P D F Y
UniRef90_A7HAJ2 R G T P L E R G R E L L S G G A A C Y G V Y R T S D G R F V A L G A L E P K F F
UniRef90_U2W5S3 K D F V R E R M G A G T V N A V P H S H Y P S K D R L W V A I A C L T N D K I F
UniRef90_J0KJ76 T G Q S P R R S G N R H A F S A P F G V Y R A Q D G H F A L A V L N H K L F A
UniRef90_J2W402 A G V V R E R T G G A L P G I V P S N T Y T T G D G Q N I V I A G N G D A I F
UniRef90_Q0K3E5 G G K P P G R F G A S H P T I A P Y G V H R T G N G S V I F S V Q N E R E F A
UniRef90_V8QRQ6 L G L I A T R C G S R L P G H T P N S L Y S T S D G R Y I H I T A G S Q S I Y
UniRef90_Q6N8F8 L D H G P L K E Y S Q F G K C K G W E Q D P N A Y I V I T Q A P V W E K I C D
UniRef90_Q022N1 E G R D V G R E D M R S G G I T G I H P T R K G F I Y L Y S A N T P H F W Q A L C E
UniRef90_UPI0003A41459 M G F V R E R S G N I M P G I T P S S I H T C A D G K A V Q I G A N G D A I F

UniRef90_UPI00035DC163
UniRef90_N4VTF0
UniRef90_UPI0003830EC8
UniRef90_F6IE86
UniRef90_UPI00047646C7
UniRef90_DOLE49
UniRef90_U7P7N5
UniRef90_M8E0J2
UniRef90_A1HSG9
UniRef90_UPI0003B7BBAA
UniRef90_UPI0004676051
UniRef90_UPI000255A916
UniRef90_W7QC21
UniRef90_Q01YM2
UniRef90_A8ZZV8
UniRef90_A0A031K0G5
UniRef90_Q9VDL4
UniRef90_A9AC17
UniRef90_I3U7K5
UniRef90_E5WMB6
UniRef90_R7XT03
UniRef90_Q1YGH1
UniRef90_A8L1P3
UniRef90_UPI0003829DC2
UniRef90_H0J5V1
UniRef90_A0A024HCV6
UniRef90_F6F1J3
UniRef90_K1KM08
UniRef90_G8S0N9
UniRef90_F7BZS2
UniRef90_A0A059KGU8
UniRef90_UPI0003631444
UniRef90_N8Z5R3
UniRef90_Q1LLH2
UniRef90_A3VK92
UniRef90_D3F3M7
UniRef90_Q1LGR5
UniRef90_Q0FLE7
UniRef90_UPI000345B363
UniRef90_UPI000376B3D0
UniRef90_A3PFW8
UniRef90_UPI0003B48C45
UniRef90_E6V2F1
UniRef90_M1NRC2
UniRef90_W6MA67
UniRef90_UPI000372P9
UniRef90_A8TY17
UniRef90_UPI00035EE74E
UniRef90_Q0KC97
UniRef90_A0A052J7K8
UniRef90_UPI000471502F
UniRef90_U6S182
UniRef90_M2YF15
UniRef90_S5SWA3
UniRef90_Q5WKM0
UniRef90_K7RZ02
UniRef90_MOCZ97
UniRef90_UPI00039KSM1
UniRef90_UPI00044085E4
UniRef90_B1KCJ8
UniRef90_Q13LS5
UniRef90_A4WXD2
UniRef90_A8LGU6
UniRef90_C5BFR6
UniRef90_I0WIK6
UniRef90_B4UK48
UniRef90_UPI00046AD5A4
UniRef90_U4K1E5
UniRef90_B3TCG3
UniRef90_E9DIQ7
UniRef90_UPI000370B6E5
UniRef90_A1WNV4
UniRef90_UPI0004775E40
UniRef90_A1UDB2
UniRef90_Q11E32
UniRef90_UPI0001FFEFB5
UniRef90_UPI0003645FBB
UniRef90_UPI0003F9E17A
UniRef90_UPI0003603313
UniRef90_UPI0002E50C1E
UniRef90_D5VXT5
UniRef90_J2XMY0
UniRef90_UPI00046E5DC8
UniRef90_A7HAJ2
UniRef90_U2WS93
UniRef90_J0KJ76
UniRef90_J2W402
UniRef90_Q0K3E5
UniRef90_V8QRQ6
UniRef90_Q6N8F8
UniRef90_Q022N1
UniRef90_UPI0003A41459

250 260 270 280
E R L L R G L G L D P A E F E G Q H E C A L W P Q R R Q R L A A V F A T R S T R E
I L C D G L N K P E W K D D P K Y K T N A Q R V A N R A L I E E I T V T T K T T R E
A R F V E L L G V P E W Y A G S Q H A R T A W Q P R M R D N E A F A T A R F F A S R H T P R A
R L A K A M G R P D E R Y A T H L A R G R N Q T E L I N A W T S R S H T P R A
Q V M S E A W D Q D A R F A T N P L R V Q H R K E L I P L M Q H V F L S K S R S R D
A R L C A A M G T P E R F A D H A A R G I N Q R D E A L D R A L L T G N W S S Q T H R S A V E
A L D M L H L L E D E R F A D N P A R R M A N R E A L D R K L L D Q N V I S Q T R S R V E
A L C D Q T I G A D E R F R T N A S R V A H R H E L N G R L N K E L K K K T R A
T R L C T A M N R P E M I D D P R Y N T P T S D V V T A I E T W L F K S F A N D V N A
A M L N C P A L D K P E Y D T Q P G R L A D K A F I D A T L A N I F K S T R A
R F C Q P D W A V D A R F T T N T L R V Q H R S E L I P M M E A V T R T S R S T A
R L M N A I D R P D L A E D D P E L A H R N R R S D E A L D E A I E A W T S S R S L K
R L C G D V L G R E D L M A D N H D R G Q H V E A L D E T L E E E I M A S E Q D T D
A F C R A I E R P H A D Y D T N A G R I R N R A E A L E P L L D E V F K M R A T V G
K N L C A H L G L D A F Y P L Q A R D E P R R Q E I I D D T L D D I F R A K T L V D
R L C Q A M I G T D E R Y A T H V Y A R G E R Q T E I D D D I L A E W T R K T V D
R L K V E H L A Q N P K F K T N K D R V T N R V E L L G I L E A Q M L S E D T S R T
K F V R P E L A D D E R F A T N P A R V R H R D T L V P I L A E M V K T R S K T A
A A I D R A D Q I T D S I F S T H S R R E N I D E V R F V D G I L R T R S T A
R F C E D V A E K P E W L T D P R Y K T N L L R N K H E D I E A V L M H Q D T R
D E L I V R R L E I D L P D N R A D L S N L G A L R E A L A A R F K E K E T Q A
R F L D A I G L D E P R F A T N A N D R V A N R A A L N A L D D M A C H E T Q E
I R L C D V M G N P E H F Q T H Q A R G E H L E E L D K L I G E W T A T Q P S A
R L M H E M G R D D L G Q D D N A G R V A R V A E I D A A I G A W T E K L T V D
R L M R D D L G C D P A L A H N A D G R S Q H A E M I D A A I Q A W T E R K T P R E
Q Q F C A V I G H P E L A A R G L S K A E D Q Q A L K R E I A V A F E K E R D F A
G R L M A L L E A D P E F R D N A D P A L W P K L K A N L A A R F K A E P Q S E
A L G W T D M E N E A D P E F K L N Q A D R V K Y R D E L L E T M I Q E R F K A E M S
G A L L G G L G L D D A E L P G Q F D R D G W P E L R R I L A D R I G S R T T R D
A L L N G L G L N C A E L P H Q W S I S D W E M K K K F A D T F A K K T Q A
R F C H A E W A S D A R F A T N A A R V A H R A V L I P L R Q A T V M R T T R A
F A G C P E L I N D D R F S T N Q N R I R N R E E L Y P L I N E V T R T R S S A
D L C M A T E L Q N D E K F Q R N Q D R V K H R D E I D A P L S E Y F L A K N A K
R R L M A A M G R D L G E D P A L A R N R V D E I D A A T A W T K T Q T V A
L A E V L G H P E W A T D E K Y A R S R D R L A N R K Q L M T E A L S H H G K H
R R L A D A M G R P E R F D T H L A R G A N Q E E L D G I T A D W A E D Y D S A A
A Y C R A V G K P E L A I D T R F A K V T N R E V L L P M L V D V M R T Y D S T A
N F A R C I G R D D P R F A A Y E A R L A N R G A L E P L I H E A M A G E G T A
R L M L A I G R D D D L A N D P A L A H N P R T V E I D G A I A A W L A S R I D
R R L M S A V G R D D L A N D P R M R V E C E N E I D Q V L A D W C A S R Q R C E
R L C T L L G L P G L A T A P A F L T N A D R V A N R A E L T R A L T A V T S G
R A F C E G V G R E D L I P R Q F D P P G S D A H R E V E A L A R A G R T R K
R L M E C I G R P D L A A D P N A G R V A Q V D M L D A A I G D W A A G R T R D
R F C V P E L A A D P R Y A T N P A R V A H R A E L I P R L Q E L T R T R R T D
Q L L L Q G C G V D P D P R Q W R A K S W P A M K E Q L R A A F R T K M R D
K F C N V I G R D V D I E D P R F R C Q N Y V P D L Q N L I R E W A K D K T K K
A F G R E D L I E D P R F A S A A A R S E N V I A R R Q V M S D E I A K W D R D
E R F C T V I E K E V L I P Y H E A G D E V Q L R M L E E I Q V V I K M K T L S
R R F M A A I G R D D R L A H N D G R V Q H N A M L D D A I T A W T S A H D L D
V L G R P E L A S D E R Y A S N A L R N K H R D D L R D T L V A L L K E H D C I
L M S Q V I D R P D E L Y A S P P D R L R R R D E L F A I L G E A F A Q P W S
E R L A M A M G H K E R Y L T N K E R M Q N D E D L Q L I L K D F I G N K N K D
R F C R P D L G S N P R Y A T N V E R V R N R A E L V P T L E A L L A A R S S A
R A M A E V L G H P E R F L K N G D R L R N K E E L W A L I E P A F L T R P A Q
R R L C E A I G N H P D Y Y S H E A R G E N M K A L D E R I E K W T T S L S A E
K E L V I T L C G F D D D F A Q Q N N K K L W P Q A R A K M A A F F A S K T Q A
M R T F D A I D R P D R F E T N E A R L E H V D E L D A I T Q D W M N N H T R E
Q R L M E V I G R D L G A D P E L A Q N H V E R I R D A A I S E W T A R L S L E
I L A D K I L G N P D R F A T N A S R V A N R A E L K E L I T N V L V T Q D R D
R V L C A I D A A H L L D D P D F C H M T E R M R N Y R I V G D A I R N K T T A
R R F A H V M Q R P E L A D D Q W G R A S I D A V N A L V Q D W I G A R D H D
F R I F E V I G R P E M F A S N A G R V K N R D I V D A A V A Q W F L T R S R D
A R L L E V L G L A D A G L P D Q F D P T G W P V L R D A F T K A F A A R T R D
A L C E L M E M P D A R F L T N P L R V Q H H R E L K R I E Q W L S D K T I D
S L A N A L D A P D P R F T N T D R M A N A V I Q L R K V L G G L I G G W Q R E
A A F C A E V G R P E L A S R Q W D E G G A G A R A E L A A I F A A R T R D
A I L L E K L H M P A E Y A V T Q N D R S T W A E R T R E F A E I F V R Q S R D
L I D V L G A D H L S A Y D N P Q V L F D K R D E I T W E A I N K E T Q K F T Q A
N L A S I P E F E D A R F N D A V A R A T N D E E L Q V M L S Q I L S S N S R T G
R L G Q P D L A R D E R F R T N D A R I E N R V E L N K L I H E L F Q T R S T D
V I G Q P N L I T D K R F L S N Q D R T E N N A A L K D E L E A I F K K E P A A
L Y Q V L Q A P Q L A V I Y D D L K A T L F D Q R D E V F G K V N A E T R K F A T S
S F C R P E L A E Q A E Y A T N Q A R V H N R E A L C A Q V T A L V A Q H S E S
R R L C A A M G Q P D R F A D H R A R G R N Q D E L D K I I G D W A A E R Q P G
V M C Q P Q W K H D P R F V T N G D R V A H R E E L V A L I S D V T R Q H P T A D
H A I G R D E J A T D Q Y R T V P G R M E H V P E L E A V V A D W A R D R T A D
R F C C P Q W S T D A R Y A T N E Q R V A H R G E L I V Q I R A I T V T R S T R
I T G Q P E L Q Q D P R F S S H S A R A I H I G E V Y D F V A S E Q I K Q K D T A
L L G R P E L I R D E R Y G T M P A R V V H R D E L Y A T L A D E Q I R K W A T D
K R L M Q L I G R A D L A E D N D G R A R R A E E L D A A I G A W S G A L D S G
L T E A M G C A E D P R F A H N P D R V A A N Q E E L Q I L S A R F R Q Y P S A
R R L M H T I G R P D E F A H N D G R A A Q A G L D E A I E R W T R Q H S I D
R E F I D R I G V D T D D W P A Q S D R A Q W P R L R E L I E A S A V A A R P L S
A A F C A A A G R P E L A P R Q F E A G G A G P R A E L E A L F A S R T R D
N R L A N L M D R N D Y G T J A M F E A K R A E F V T A N W T G L T R D
S L A Q P G F A M D A R F A S D E L R H A N E P V L A A A I E A W A Q R P V A
K R L M Q A I G R A D M A D D P G L A R P R T A E I D A A I Q Q W C H G Q D I D
N F C E I V L G Q D E R F S N T A R V H N R P E L T A I I E E R F A P M T V A
K R L V A V M E R E D R F A D P Q G R A Q N E D L M D E I V E W T A A H D L E
V I G E T G W K T H P D Y A T P P A R L S R L N E I E A R L E Q W T M T K T F
L L G L P D L A E D P R Y N T V R K A R A Q R A E I V P R M A V T S G R T A L
Q R L M R A M G H E Q M A A D N A G R D A R A D E I Y A L T D A W T G S L A Q E

UniRef90_UPI00035DC163 A W C E L F A G S E A C V S P V L D F D E A P R H P H H A A R G A F V D L G G V
UniRef90_N4VTF0 E W L Q V F F G K G M P Y A V V N D V Q G A L E H H E H T K A R N M V V E M E H G D
UniRef90_UPI0003830EC8 E W E K V F D G G A D A C V T P V L N D V N W S E A L R D E D P H H M T A R N K V H V T T V E G E
UniRef90_F6E86 E V D A L F M L E H S I P A G R V Y T T A A D M L E D P H H F A A R K A I V E V E T I
UniRef90_UPI00047646C7 E W I R L F E A A G V P C G A V I N T I D E A L Q L P Q A V A R E M A I T V S F E N T V
UniRef90_DOLE49 E L T D T L Q A A G V V V G P V L N D V N W S E A L R D E D P H H M T A R N K V H V T T V E G E
UniRef90_U7P7N5 E W I A H L N Q A G V P C G R V H D L R E T F A D D P Q Q V L R A Q E M R L E A L Q A
UniRef90_M8E0J2 E W Q Q L F E Q K G V P C G P V V Y T I H E A F Q H P Q Q T L A R D M I V N M A E H P
UniRef90_A1HSG9 E A L H I L L E V K Y R I P S A P V V N L N I F S D A L Q D L Q D R Q L L M R Q M I V E V N D P
UniRef90_UPI0003B7BBAA H W L A E L L E K Y R I P S A P V V N R F S D A L Q D R Q L L M R Q M I V E V N D P
UniRef90_UPI0004676051 A W I A L L E D K A V P C G P I N T I A Q A F D D A Q V K A R G L R V E L P T I
UniRef90_UPI000255A916 D A L Q V L E D A A V P S S G P I N T A A E L F A D D A Q V K A R G L R V E L P T I
UniRef90_W7QC21 H W L A L C D Q A G V P A G P I N D F G Q A M Q D E H H Y L A R G M V E E M E H P
UniRef90_Q01YM2 D W M E R L Q A A G I P S S P V V R T F E D V V E H E Q A A V R E M F P T L Q D H P
UniRef90_A8ZZV8 Q W K T D L A G V D C C W A P V V Q S V A E V L D D D P F F A H R E M V V D S G D P
UniRef90_UPI00031K0G5 E L E E K M L E F S I P A G K I Y R S A P E M L S D D P F F A H R E M V V D S G D P
UniRef90_Q9VDL4 N W M K L F E G A S F P V G P V V N S I P E V F E D E H H I K A I G L V K S L R H P
UniRef90_A9AC17 A W I D A L F E A A G V P C G P I N D L A E V F A N D P Q Q V L A R G M E V A L P H P
UniRef90_I3U7K5 D W L A L L E F D A N G I P C C A P L Y A I L E D L P A D P H H L K A T G H L V R T E H P
UniRef90_E5WMB6 H W I D L C E K A G V P A G P I N N F A E A V Q D P H H Y E A R G M I Q E V E H P
UniRef90_R7XT03 E W S E V F N D G T D A C V A A I P L S A A P A D P H H L A A R G T F V E S A G P
UniRef90_Q1YGH1 V W I A R L N A A G V P A G R V I Q T L G E V F A D P Q Q V L A R G M V L R D V P H P
UniRef90_A8L1P3 Q L L D R L H E A G V P A G R I Y T A A D M V T D A H F K A R K A V L R L H H D
UniRef90_UPI0003829DC2 E V L A A L D R A S V P A G R L Y T V A D I A A D P H H Y Q A R G M I E Q T F T G R S
UniRef90_H0J5V1 A L L E A L D G A R V P V G Y P Y T A E D I A V D P H H Y L A R E M I Q T F T G R S
UniRef90_A0A024HCV6 D W C E R F A A V D A C V E P M L P L S E A V E H P Q Q I Q A R G L V V E V P R G
UniRef90_F6F1J3 H W C A L F E G R D V C V A P V I Q T L S M E E A P H G V H Q N K A R E M A F V E H A G M
UniRef90_K1KM08 E I T G K L D R A G V P C G P V I Q T L D Q V L K H P Q Q V I A R E M F I D I E H P
UniRef90_G8S0N9 E W A A V F A R L D A C V S P V L T P A E A P D H H N R A R S A F V E V G G Q
UniRef90_F7BZS2 E W C K I F G G T D A C V T P I N S L L E E A T L N D P H H N Q A R E R G T F I D E D H K
UniRef90_A0A059KGU8 E W I A N L E S R A V P C G P V V N R L D E V F A D P Q Q V L A R G M L R I A L P H P
UniRef90_UPI0003631444 D W I E N L P L G V P C G P V V N D M K G T F A H P Q Q T A A R E M R I S L P H P
UniRef90_N8Z5R3 D W V D A I H A V K V P V G G R I Y T V K D I A E D P H H Y R A R G V I E T V T Q V
UniRef90_Q1LLH2 S A L E V L R T A D V P S G V I Y T V K D I A E D P H H Y R A R G V I E T V T Q V
UniRef90_A3VK92 H W M K V I N G A K V S C G P I N D M A D I E R D E Q Q L A E R D M F V T L H H V
UniRef90_D3F3M7 A L D A L D D D G G V P C G P V V Y S I S Q T L A A D P Q Q F A A R D M L L R H D D P
UniRef90_Q1LGR5 S W L A R L K A A G V P C G P V V N D F S Q T F E D P Q Q V R H R G I R V L D D G G
UniRef90_Q0FLE7 Y W L E R L T E F D V P N A P I L S I G E A L E Q E H H V A A H G L I E E V D D H P
UniRef90_UPI000345B363 E A L A L L N A A D V P A G R I Y S V A D M F T D S H H Y I A R G M I Q R Q D G V
UniRef90_UPI000376B3D0 H V L Q V L E K A R V P S G P I N D S V A D M F T D S H H Y R A R G M F V E L D G R
UniRef90_A3PFW8 W R L A A C E A E G V P A G P I N D M A E V F A D P Q Q I R H R G M Q I A P D G G V
UniRef90_UPI0003B48C45 E W E A F G A E R D A C L E P V W E L E E A L A S D D L V R A R E M V V E L Q R M P
UniRef90_E6Y2F1 E V L A A L D A A H V P A G R I Y T I A A D I A T D P H H Y A R E R G M L Q Q V R M P
UniRef90_M1NRC2 A W I A A L E R A G V P C G P I N P L S K V F A D P Q Q V R A R G M A L H L P H G
UniRef90_W6MA67 E W C A Q L E V S D A C V T P V L S L E E A P G H H H N Q A R E R G T F V E V D G L
UniRef90_UPI000372P9 Y L E E L L D K C G I P C G P V V L D M K E A I E H H P Q Q I Q A R E M M V H I D H P
UniRef90_A8TY17 Q L L A R L D A E G V P N A P V L A R T E V I E N A Q A A H N A T I E T F D D P
UniRef90_UPI00035E74E E W E K Q F A N V D A C V T P I L T L E E M V N D P Q Q V K H R Q M I E E V Y H S
UniRef90_Q0KC97 T V L A T L E A A A V P C G K I Y T A A E I S D A H H Y R A R D M I E P H Q L P
UniRef90_A0A052J7K8 E I S Q A L I N A A G V P C G P V V R T I D Q V V A D P H T H H R G M I V D I D G Y
UniRef90_UPI000471502F R W Q S R M R A A G V P C G K V R T V G E A I R S P E A R E R E N I V T R I P H G
UniRef90_U6S182 D L I K K L D E F G V P I S P I N D L A G V F A D P Q Q V I H R G L R T R L D H P
UniRef90_M2YF15 E W I A A L L E T A G V P C G P I N D L A G V F A D P Q Q V I H R G L R T R L D H P
UniRef90_S5SWA3 E W V E L F E N E A G I P V G M V N D L D L A L S N P Q Q V L H R E M V V R L E D A
UniRef90_Q5WKM0 A A L A I L E Q K G V P S G L I Y S A K E M V E D P H H Y Q A R E M I V H V D P
UniRef90_K7RZ02 Q C N D I L L E G T D A C Y A P V V L S I P E A A E H E H I K A R G C Y T G E G Q Y
UniRef90_M0CZ97 E V L S A F E E A D A T I G P V V Y N V A D I L E D E H H Y A A R D A Y I N V P D P
UniRef90_UPI0004085E4 E V L S I L T E A R I P A G K I Y N A A D I A Q D P H H Y R A R D M L L D S D G T
UniRef90_B1KCJ8 Y W L A K F T G T G I P F G P I N N I Q Q T F E H P Q A K A R G V V V D V E H P
UniRef90_Q13LS5 E W N A I F A S A D V P H G P V V R D L K D L M H D A Y L K E T G F Q R T M D H P
UniRef90_A4WXD2 E V L R L C D E S G V P A S L Y S V A D I F D D P Q Q Y E A R G N I R V T M G D V
UniRef90_A8LGU6 E A L T E M R A A G A T V G P V V Y D I A D I A A D R H F A E R E I I V E V E D A
UniRef90_C5BFR6 E W T E I F A D T D A C V T P V L S F A E V Q D D P H H M A D R G A V V H T D G M
UniRef90_I0WIK6 R A T T M I L E A G I P A G P I N T I D R V V N D P H H I A A R Q M F V P M H H P
UniRef90_B4UK48 A L A A A L R L A G V P S G A V N N V G E A L N L P Q Q V R H R K M V I E C D G Y
UniRef90_UPI00046AD5A4 E W A F A A A H D A C I A P V L E G D E P R A D P Q Q L A A R G A F L E V D T P
UniRef90_U4K1E5 A W A D L E F E G T D A C I A P V L T F S E A A N H L M A A R K N L V R P D D V
UniRef90_B3TCG3 E L M Q R L L E A D V W C G E L K D F R Q A S E D P Q Q V T H L G M I T E Y Q H P
UniRef90_E9DIQ7 H W S S T L F D A S G V S I Y K N E V I E D F R N D P S V R K A G L I A T R D H P
UniRef90_UPI000370B6E5 E W L T V F E N S G M P Y G P I N S I E K A F S H A Q A Q A R D M V H T L G E F
UniRef90_A1WNV4 H W L D V T H A A G V P V G P L L N V A E A A V H P Q Q T V A R N M L I E A G G V
UniRef90_UPI0004775E40 D L L A R L L A V D I W C A E V K D I R R A A E D P Q Q V M H M G M L T S Y E H P
UniRef90_UPI0004775E40 Y W L E E L T A R G V P C G P V V N S I D K V M A D P Q Q V L A R D M R T R V K H P
UniRef90_A1UDB2 D I I E T L S A G V I A G P I N T V A E V V D D P Q Q L R A R G M L A E H W D E
UniRef90_Q11E32 Y W V D L L S S T G A P V A P I N T M D K V F Q N E Q V I A A R M V E V S E H P
UniRef90_UPI0001FFEFB5 E I G D V L E E A G I P F A R V I A T V P E V A E S E Q Q V A A R E M V E S E H P
UniRef90_UPI0003645FBB D W I G V F E A V G V P C G P I N A I D E V F A D P Q Q V E A R G M R M V M N H A
UniRef90_UPI0003F9E17A Y W L H A L R Q V D I P A A P L Y S I E Q L T D D E H H L Q A R G H L Q H M E H P
UniRef90_UPI0003603313 D L L A R L E A G V P C A P V V N S M S Q V F A N R Q Q V R H R G M Q L T L R H P
UniRef90_UPI0002E50C1E T A L E Q L R K A A G V P S G R I Y S A K D I A E D E H H Y R A R G V T E K V R E V
UniRef90_D5VXT5 V W I E R L E A A G I P C S P V V Y Q K V S R V Y R D P Q Q T E A L D M L Q K V G H P
UniRef90_J2XMY0 A V L A A L E Q A E V P A G R I Y S V A D I V N D P H H Y Q A R D M L L D P D G V
UniRef90_UPI00046E5DC8 E W N E V Y S G T D A C V T P V L S F A E A A D E H H N R A R G I Y S E V A G A
UniRef90_A7HAJ2 E W A L A A A H D A C I A P V L E G D E P R S D P H H L V A R G A F V Q V N D P
UniRef90_U2WS93 E I L K A C E G A E V P C G P V V Y S I E E F N D P Q Q Y K A R E N L V E I N D P
UniRef90_J0KJ76 Q V V A A L E A A G V P G G P L W T T A Q A L E S E Q G R A R G L L R E V H D P
UniRef90_J2W402 A A L A T L Q A A D V P V G K L Y S V I R D M M S D P Q Q F L A R G M F E Q A D G T
UniRef90_Q0K3E5 Q A E A L D E A Q I A N A P M N D I E G V W N H P Q Q L Q A R Q R W R E V A T P
UniRef90_V8QRQ6 T L E K K L G Q A E V P A S R I F N I K D I F D D P H H Y R A R D M I T S P E D P
UniRef90_Q6N8F8 E A M E I L N A D D I P C G P I R S M K E L A E D Q S Q L R A T G T I V E V D P
UniRef90_Q022N1 E W E Q V F G E R V P C G A I R P I E D M F A D H P Q Q V L A E G L V T E F E H P
UniRef90_UPI0003A41459 Q V L A T L S Q A E V P A S R I Y S V A D M F S D P Q Q F L A R D M L I T G Q L P

UniRef90_UPI00035DC163 R Q A A P A P R F G A T P A P L P R R P V Q A D A E A L R A W
UniRef90_N4VTF0 R M V N T P V K Y S E S E P T L R A P P T L G Q H T H E V L G E H L G
UniRef90_UPI0003830EC8 A V P A P A P R F S A T A T S R A A G P R A P G G T H D S L E E V L G E D W D
UniRef90_F6E86 R M Q N A P A P R F S K T P T S S I R R P A P G P Q Q D N E E I Y G A L L G
UniRef90_UPI00047646C7 R V L G N P I K L S D T P V I Q Y S P P P R L G G Q H T E E V L K T F
UniRef90_D0LE49 L G P G V V P Q F S E P A G S I R G P A P G G E D N A A E V Y G E L L G
UniRef90_U7P7N5 S G R V P V K L S R E A P A S L Y H P P R L G G E H T D A E L L A E L
UniRef90_M8E0J2 Y V V G S P L K F S E T T A V S Y R L P P L A G E H H N D H I
UniRef90_A1HS99 I L P A T P M R F S E T T V N T T P A P L L G G Q D S D E V L K T E V L G
UniRef90_UPI0003B7BBAA E G P G C P I K L S R S P E H Y H P A P V L L G G Q D S D A V L L A E L
UniRef90_UPI0004676051 A G V A S P L R L S A N P P V L R A P P A L G G Q H T D E V L A E L
UniRef90_UPI000255A916 D G P G I V P K L S A T P S G T T R W G P Q L G G E H T N D E I L S G L
UniRef90_W7QC21 V I G G F P S K F S R T P S Q I R P A P L F G G Q H T D E V L A E L
UniRef90_Q01YM2 T V T G T P V K L S E T P G R P G P A P L L G G Q H T R E T L A E L L G
UniRef90_A8ZZV8 D A R G V P V K L S D T P S S V R T V P D F G Q Q D N A E I Y G E L L G
UniRef90_A0A031K0G5 K M Q N A P P K L S A T P S S V R R P L E I G G Q D N A E I Y G D L L G
UniRef90_Q9VDL4 K V V G P V T F S E A R D A R T A P P I L G G Q H T D E V L G E L L G
UniRef90_A9AC17 K L V R N P V R M S A T P L D A R A P P L L G G A H T D D D V L R D M L G
UniRef90_I3U7K5 S E G V P L G R Y S A T P L V Y R H A P T L G G E H T E E L L
UniRef90_E5WMB6 L I G G I P A K F S K T P G E V K I P P L F G G Q D T I E V L
UniRef90_R7XT03 T Q P A P A P R F S R T V S T I T M P P G A G A H T R E A L T A W
UniRef90_Q1YGH1 R M T G F P M K F A K T P S Q V R H P P D L L G G Q D T D A V L A E
UniRef90_A8L1P3 R M Q N V A P R L S A T P G G I R S G P E L G G E H N E S I Y G D L L G
UniRef90_UPI0003829DC2 T L A V P I P K L S R T P G G H R R A P L I G G Q D T D A V L R D
UniRef90_H0J5V1 K V P G V L P K L S A T P G R I G G G P T L G G Q H T D D V L D E L
UniRef90_A0A024HCV6 R Q M A C P I R F S A G L P E P K H G A A V G E H S A E V L H E L
UniRef90_F6F1J3 M Q P A P A P R F E R T P S A I Q A
UniRef90_K1KM08 K V P A F P V K F S E T K P Q V R A P P L L G G E H S E E V L R
UniRef90_G8S0N9 V Q P S P A P R F G R T P N Q A P R P P A V G G E V L A G W
UniRef90_UPI00037BZS2 V S P R P A P L L S R T P P S T K R D P L E G G E H T I E I L Q E F
UniRef90_A0A059KGU8 V G V A S P I R L S A T P P V Y R A P P V L L G G Q D G A A V L A D W L G
UniRef90_UPI0003631444 E L I G S P M K F S Q T P V D Y R A P P R M G E H T V E V L S E L
UniRef90_N8Z5R3 L M I G S P I K L S D T P V I Q Y R A P P K L G G Q H T Q Q I L S Q F
UniRef90_Q1LLH2 E V P G I M P K L S G N P G G I H R A P T L G G E H T D S V L A D
UniRef90_A3VK92 R V V G S P L K F S A T P V V Y N S P P P L G G E H T E S L R E R L
UniRef90_D3F3M7 V G P G V V P K L S R T P G G V R W S A E H G G E H T N D E V Y G G L L G
UniRef90_Q1LGR5 I C P A S P M R F S A T P L E H A P P A L G G E H T D T V L T E C L G
UniRef90_Q0FLE7 R L V R G P I L F D G E G A S P A T P P L L G G A D T A E V L R E G L G
UniRef90_UPI000345B363 E V A L P A P R F S E T P G E T R W G P Q L G G A H T D E V L G A L
UniRef90_UPI000376B3D0 A L E I P A P K L Q T P G G T W P G G A V G A H T E D V L Q K H L G
UniRef90_A3PFW8 P G V R S P F R F S E A K L A L A R P P R L G G E H Q A E V L G E
UniRef90_UPI0003B48C45 G A T E P P I K L S A T P G D R R R P A P G L G G A H T E E V L R E
UniRef90_E6V2F1 A V P G F V P K L S L T P A S H R H A P A L G G A D T D A V L K E
UniRef90_M1NRC2 P Q V A N P M R L S A T P P A Y R R P P L L G G E H T A E V L R E V L G
UniRef90_W6MA67 V Q P A P A P R F S R T P A A I Q A S A P A
UniRef90_A0A037Z2P9 Y F Q G V P I K L S R T P G S V E A P P L L G G Q H N E E V Y S
UniRef90_A8TY17 R Q P R P A A R F S G T P S G I R A A P D L G G A H N T D I L T D L
UniRef90_UPI00035EE74E H H I A N P I K L S R S K A S L R P A P A L G G E H N K E I F E E L
UniRef90_Q0KC97 D G S G I V P K L S G T P G R T R W G P E L L G G Q H T E E I L A
UniRef90_A0A052J7K8 R G T G S P V K L S R T P A T Y R R P A F A Q H T D E V L R E
UniRef90_UPI000471502F A V G W V P I R Y S Q T P V D P V A A P S V G G E H T G Q V L S D L L G
UniRef90_U6S182 R V P G I V P K F S K T P G K I R R A P D L G G E H T H I Y K Q T L L G
UniRef90_M2YF15 L L V A N P I R L D G A A V S G R A P P L L G G A D T A E V L A D L L G
UniRef90_S5SWA3 D G T G N P I K L S R S R K A D T A E P P A L G G S H T A G I L A D V L G
UniRef90_Q5WKM0 I M P S V V P K L S R T P G A I K H T G S L G G S D N E A V Y G Q L L
UniRef90_K7RZ02 L Q P T P A P K F S V S Q P C I G E I P N V G G Q H T A E I L
UniRef90_MOCZ97 T V I Q N V F P K E S A T P G K V R H G P R L L G G E H T N D E V Y R E R L
UniRef90_UPI0004085E4 P V T L P V P K L S E T P G S V T R A P T L G G Q H T A E I L G E L
UniRef90_B1KCJ8 R L V A P A V R Y N G R M P V T R P P P W L S Q H T S E I L E E L
UniRef90_Q13LS5 V M T S I P V H F S E S P G N V R L P P N L G G S H S I E V L I E
UniRef90_A4WXD2 A V P N V I P R L S E T P G A V W L G P T L L G G S H N D E V F G D L L G
UniRef90_A8LGU6 R Q H N V F P R F A A T P G G F R P A P D L G G E H T A E I L A E
UniRef90_C5BFR6 A Q A A P A P R F S R S T T A L P R G R A V V G D P A A I M D E W
UniRef90_I0WIK6 R V T G N P I K L S D D R L P R S S P R L L G G E H T A E I L Q R Y L G
UniRef90_B4UK48 R G V G V P V K L S E S P G S V R F G P R H G A D T D A V L A E L
UniRef90_UPI00046AD5A4 W A V A S P V R L R N G E A A P R R P A P R L L G G E H G E A V L A E
UniRef90_U4K1E5 L Q S A T A P R F S R N P S A S Q P V T G K G A E T Q S I L E G L G
UniRef90_B3TCG3 T V V A P A V T M S E T P P K I D R P P L V G G Q H S I E I L R E
UniRef90_E9DIQ7 G L G G V A A R L S A T P A R L L G R P P V L L G G A D T R E I L E E
UniRef90_UPI000370B6E5 K V T G F P V K F S E S K P S V R N P P L L G G Q H T E V L A E L
UniRef90_A1WNV4 R M P G N P V K I S G D P S V R V G A P T L N Q H G D A L R R E F
UniRef90_UPI0004775E40 R V V G P A V K M S E T P A T L R P A P L V G G E H H G R E I L A E L
UniRef90_A1UDB2 Y L V G S P M K L S R T P V T T Q P P P L L G G E H H S E I L A E L
UniRef90_Q11E32 R V P G I V P V L S E S P G S I R G P A H P G G Q H N I E V Y T G L L G
UniRef90_UPI0001FFEFB5 L V V T S A L R M S A T P P V K A A P P R L L G G E H S R E V L S E V L G
UniRef90_UPI0003645FBB R M P G N P I K M E K S P P T V R A P P T V L L G G E D N D H V Y R T L L G
UniRef90_UPI0003F9E17A L L V A N P I R F S E T P I A Y R R P P L L G G E H R D E V M R E W L
UniRef90_UPI0003603313 T T P S P L G K Y S R T P L S I R R A P S L L G G E H T A Q V L M R E W L G
UniRef90_UPI0002E50C1E R Y G G P A V R Y S G F D I T E G A P P E V L L G G E H T A Q D V L A R Q W L G
UniRef90_D5VXT5 D V P G I M P K L S E N G A I R R A P V L L G G E H T E Q V L K D
UniRef90_J2XMY0 R L P R L P V R L T E T P A E I R P A P L L G G E H T R V I L E E
UniRef90_UPI00046E5DC8 R M P G I V P K L S A T P G R V W G P A L L G G E H T D A V L G Q L
UniRef90_A7HAJ2 L H P A P A P K F S G T P A P T P A A N S A H L D E L L R E W
UniRef90_U2WS93 W G I A T P V R L R G E Q A P L A P A P R L L G G E H G S V L R E
UniRef90_J0KJ76 T L P N V C P R L T E T P G Q I W A G R A L L G A D T Q D V L K D W L G
UniRef90_J2W402 R L P G Q P V K F G G A P N R A E P A P A L G G Q H T D E L M A A L L
UniRef90_Q0K3E5 P V K L P A P K M S H T P G Q T R W G P A L L G A H S S D E I L R
UniRef90_V8QRQ6 G P I P A N L S G V E P V M G D V P A L G A H S R Q I L A E L
UniRef90_Q6N8F8 A M A N V I P R M S R T P G S V Q W P G R I G Q D T E T V L S Q V A G
UniRef90_Q022N1 T R V G N P I K L S D S P T E V K R S P L L G G E H T D E V L R D V L G
UniRef90_UPI0003A41459 R G M A K Q V Z N I P V D P Y A A P A L G G Q H T A E V L A R Y
D M P G I V P K L S A S P G S E W T G P A L L G G E H T D E L L T Q L

UniRef90_A0A024PL64
UniRef90_U5VY27
UniRef90_Q143N7
UniRef90_X0R9E4
UniRef90_UPI00046A2106
UniRef90_B8KY78
UniRef90_D6ZD89
UniRef90_H6BTB3
UniRef90_X4ZAB9
UniRef90_D7A6Q8
UniRef90_UPI0003B75140
UniRef90_UPI00047E9BA4
UniRef90_Q5P032
UniRef90_E2ZCY7
UniRef90_T5KBE9
UniRef90_X5LPJ8
UniRef90_A5V8R1
UniRef90_A0A038GV27
UniRef90_X0N0A4
UniRef90_V8QPI7
UniRef90_A0YBL8
UniRef90_E8TTZ0
UniRef90_A0A011QFH5
UniRef90_UPI0003809A86
UniRef90_UPI00026281C6
UniRef90_E3HQZ7
UniRef90_Q0K0E4
UniRef90_A0A017HE91
UniRef90_W4LBT3
UniRef90_B4REL6
UniRef90_UPI0003F9A242
UniRef90_G6E7Z0
UniRef90_UPI000468354A
UniRef90_I1ER94
UniRef90_I3X184
UniRef90_U2WS90
UniRef90_UPI0003654AD4
UniRef90_L1KV51
UniRef90_I7DQ76
UniRef90_R4T197
UniRef90_F4CUM3
UniRef90_Q0VRD8
UniRef90_S2YQL3
UniRef90_A3U250
UniRef90_Q8YB81
UniRef90_UPI00031E65B8
UniRef90_E3JAV4
UniRef90_D0J5E4
UniRef90_E310H1
UniRef90_H6R674
UniRef90_K4KY65
UniRef90_UPI00037D07C2
UniRef90_UPI00046AC9C5
UniRef90_UPI00026270D9
UniRef90_G9ZW60
UniRef90_L2EJ93
UniRef90_UPI000313F4EF
UniRef90_Q21R36
UniRef90_UPI000455F9E4
UniRef90_Q46S66
UniRef90_N0CNT6
UniRef90_E4PGW6
UniRef90_V4REI4
UniRef90_E4PJ4
UniRef90_UPI00046FCAF0
UniRef90_Q2IYE5
UniRef90_U3HQM7
UniRef90_UPI000300C155
UniRef90_A1WEM8
UniRef90_G7DN66
UniRef90_UPI000372980F
UniRef90_F4GNQ9
UniRef90_UPI00035927A0
UniRef90_W0IRN5
UniRef90_G8MC30
UniRef90_B4JAJ8
UniRef90_U2A9M8
UniRef90_M4Z3W5
UniRef90_UPI00037E36AB
UniRef90_Q39GK7
UniRef90_F4GSQ3
UniRef90_E6PWF2
UniRef90_C3AJA0
UniRef90_A0A023NXD2
UniRef90_I7CTU0
UniRef90_HOTJL6
UniRef90_UPI0003B60D1B
UniRef90_D4X7X2
UniRef90_UPI00047BDC29
UniRef90_D9X214
UniRef90_UPI0003713FCC
UniRef90_G7DJV5

UniRef90_A0A024PL64
UniRef90_U5VY27
UniRef90_Q143N7
UniRef90_X0R9E4
UniRef90_UPI00046A2106
UniRef90_B8KY78
UniRef90_D6ZD89
UniRef90_H6BTB3
UniRef90_X4ZAB9
UniRef90_D7A6Q8
UniRef90_UPI0003B75140
UniRef90_UPI00047E9BA4
UniRef90_Q5P032
UniRef90_E2ZCY7
UniRef90_T5KBE9
UniRef90_X5LPJ8
UniRef90_A5V8R1
UniRef90_A0A038GV27
UniRef90_X0N0A4
UniRef90_V8QPI7
UniRef90_A0YBL8
UniRef90_E8TTZ0
UniRef90_A0A011QFH5
UniRef90_UPI0003809A86
UniRef90_UPI00026281C6
UniRef90_E3HQZ7
UniRef90_Q0K0E4
UniRef90_A0A017HE91
UniRef90_W4LBT3
UniRef90_B4REL6
UniRef90_UPI0003F9A242
UniRef90_G6E7Z0
UniRef90_UPI000468354A
UniRef90_I1ER94
UniRef90_I3X184
UniRef90_U2WS90
UniRef90_UPI0003654AD4
UniRef90_L1KV51
UniRef90_I7DQ76
UniRef90_R4T197
UniRef90_F4CUM3
UniRef90_Q0VRD8
UniRef90_S2YU13
UniRef90_A3U250
UniRef90_Q8YB81
UniRef90_UPI00031E65B8
UniRef90_E3JAV4
UniRef90_D0J5E4
UniRef90_E3I0H1
UniRef90_H6R674
UniRef90_K4KY65
UniRef90_UPI00037D07C2
UniRef90_UPI00046AC9C5
UniRef90_UPI00026270D9
UniRef90_G9ZW60
UniRef90_L2EJ93
UniRef90_UPI000313F4EF
UniRef90_Q21R36
UniRef90_UPI000455F9E4
UniRef90_Q46S66
UniRef90_N0CNT6
UniRef90_E4PGW6
UniRef90_V4REI4
UniRef90_E4PJ4
UniRef90_UPI00046FCAF0
UniRef90_Q2IYE5
UniRef90_U3HQM7
UniRef90_UPI000300C155
UniRef90_A1WEM8
UniRef90_G7DN66
UniRef90_UPI000372980F
UniRef90_F4GNQ9
UniRef90_UPI00035927A0
UniRef90_W0IRN5
UniRef90_G8MC30
UniRef90_B4JAJ8
UniRef90_U2A9M8
UniRef90_M4Z3W5
UniRef90_UPI00037E36AB
UniRef90_Q39GK7
UniRef90_F4GSQ3
UniRef90_E6PWf2
UniRef90_C3AJA0
UniRef90_A0A023NXD2
UniRef90_I7CTU0
UniRef90_HOTJL6
UniRef90_UPI0003B60D1B
UniRef90_D4X7X2
UniRef90_UPI00047BDC29
UniRef90_D9X214
UniRef90_UPI0003713FCC
UniRef90_G7DJV5

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

UniRef90_A0A024PL64 T G T M E R L G L G L G Y D H L K E L N P 100 I Y C S I T G F G E S G P Y R H L P G 120
UniRef90_U5VY27 P G T L E R W G M A Y P E T L W K T N P D L I I T R V I V G Y G Q G T G G P Y A S R A G
UniRef90_Q143N7 T G V M E R L G L G L G Y E A S C V R E S E R N P E L L I Y C C S V I T S T A Y G G R E D G G P A F A D R R L G
UniRef90_X0R9E4 P A A A R R L G L G L N Y E E S V C R E S E R F P R L L V Y Y C C S V I T S T A Y G G R E D G G P A F A D R R L G
UniRef90_UPI00046A2106 T G G L A K Y G M D Y D S L K D K F P K L I I Y C C S I T I T G F G Q Q D D G G P Y T H R A G
UniRef90_B8KY78 P G A M E S W G L G P D D L K A P E N P P G L I I Y T R I T S T G Y G Q Q D D G G P F A A K R A G
UniRef90_D6ZD89 P G V M E R N G L G P P E E C R A L N P P K L V Y G T R I R I T S T G W G Q Q D D G G P L A A K R A G
UniRef90_H6BTB3 P G A L K K Y Q L D Y E S L K A K L N P R L I I Y A S V I T T G Y G Q Q T T G G P Y S K R A G
UniRef90_X4ZAB9 V G T L D R L G L G Y E D L R R E L N P R I I I Y C S V I T T G F G Q Q T T G P P R A R Q Q P A
UniRef90_D7A6Q8 P G A L D R M G F S W E R I L Q E L N P R I I I L A S V I V K G F G P P P F E D C
UniRef90_UPI0003B75140 H G T A E R L G V G Y E R Q L R E I L N P R L V Y C S I I S G Y G S F S G G P Y R D R P G
UniRef90_UPI00047E9BA4 P G V L Q K M G F G D E R L K A L N P R L I V R C S I I T R G F G P S G G P Y T D R P A
UniRef90_Q5P032 A G V M D R L G L S Y E T L A D H N P R I V Y T S I T R G F G G D P R G P Y R D R W P A
UniRef90_E2ZCY7 P G V M D K L G L G Y D T L K E V N D Q I I Y A A V S T G F G G C Y G G P K S D R P G
UniRef90_T5KBE9 P G V A E R L G F G P D A L H E R N P R I V I T C S I I T R G F G G P R T G G P A A K R P A
UniRef90_X5LPJ8 A K A I T K L G F G Y D D L A A I V N P A I V Y T N C Y G Y G F G P R T G G P D A D R P A
UniRef90_A5V8R1 P G Q L R K M G L G S E V L R A G V R P D L I I V A H V I S G Y G Q Q D D G G P G A N R A A
UniRef90_A0A038GV27 P G V M D Q M G L G W D A L Q A L N P P R I I H T S I I N G F G T T G G P Y A K R P A
UniRef90_X0N0A4 P G A V D R M G F T W E R I L Q E L N P R I V Y A S I I K G F G T E G P Y T G F K A
UniRef90_V8QPI7 A S A M R R L G L D Y A S L R E R L P T L I I Y C S C Y G Y S E K G S Y A G R P A
UniRef90_A0YBL8 P G V L E R L G I G E H E V S R E L N P D L I I Y V S I I S G F G E G D G P L S H K P V
UniRef90_E8TTZ0 P G A A A R M G L G D Y D S L R E K Y P R L I V C A V I S G Y G E G D G P Y S D K K A
UniRef90_A0A011QFH5 P G V L E K L G L G W E T L S A I N P G L V M L R L I T S G F G Q Q S G P M A Q Q P G
UniRef90_UPI0003809A86 L G V M E R L G L G Y E V L R E V N P A L I I Y C S I I T G Y G R E G P L A A K K G G
UniRef90_UPI00026281C6 P G T L E R W G L G Y D E L R E I L N P G L V L A R V I T T G F G Q Q G P Y A K R P G
UniRef90_E3HQZ7 P G A A R R M G L D Y E T L R A D F P R L I V C D I I N T G Y G Q D D G G P Y R D K K A
UniRef90_Q0K0E4 P G V M D G F R G L H E C Q A N A R L I Y A S I I N G F G V D D G P Y A A N R A P A
UniRef90_UPI00017HE91 V G G L A K Y G L D Y D S L K E Q A N P A L V Y C S I I T G F G Q Q D D G P Y A A N R A G
UniRef90_W4LBT3 P A G L E R L G F G Y E T C R A L N P R L V Y A S A T G F G Q Q D D G P W A A R P A
UniRef90_B4REL6 V G V L E R L E I D H A V L V R H N P R I I T C A I T S G F G E T D G P A R N P A
UniRef90_UPI0003F9A242 P G T L E R W G L S P D E L R A E N P R L I V T R V I T S T G Y G Q Q D G P Y A P R A G
UniRef90_G6E7Z0 D S V L P K M G L D Y K S L S A I K P D I I L C N L S F G P Q Q G P W A D R P G
UniRef90_UPI000468354A P G A M E R L G L G P D V C L S S R N S R L V Y G R M T S A Y G Q Q D G M L A Q S A G
UniRef90_I1ER94 P G T L E R W G L G F A E L S S I L N P R L V M L R I T S A Y G Q Q T G P K S S L P G
UniRef90_I3X184 V G G L A K Y G L D Y E S L R S Q T N P R L I I Y C S V I T G F G Q Q D G P Y A H R A G
UniRef90_U2WS90 A G V T A K L K L D Y E T I L S K V I N P R L I I T C T V T G F G E T G P A C K R P A
UniRef90_UPI0003654AD4 P G V A E R L G F G P E T I L E K I N P R L V Y A R M T G W G E T G P L A D R A G
UniRef90_L1KV51 P G T M E K L G L G P A E L L A A D P R L V Y C S I I T G F G T T G P G A A L P G
UniRef90_I7DQ76 P G V M E R L G Y G W E A L H A A R F P K L V Y G A V Q G H T S G D R R L R P A
UniRef90_R4T197 P G A L S R L G M N Y A D L A A R N P G L V Y A H A S Q G F R G D T S D R A G H A A
UniRef90_F4CUM3 P G T L E R W G L G P D V L H E I N P G L V I L R T S T G F G Q Q T G P Y A N R P G
UniRef90_Q0VRD8 P G T M E N W G L G P D E F A T D N P P R L I Y T R I T S T G Y G Q Q D G P Y A N K R P G
UniRef90_S2YQL3 P G T L E R W G L G P P E E I R R A N P R A V L V R I S I T S G Y G Q S G P Y R D R P G
UniRef90_A3U250 V G G L K K Y G L D Y D S L S E L N P R L I I Y C S V I T G F G Q Q D D G P Y A H R A G
UniRef90_Q8YB81 A G S L A K Y G L D Y E T L S A I N P G L V Y C C S V I T G F G Q Q T G P R A R P E P G
UniRef90_UPI00031E65B8 P G S M E W G L D P D D L K I L N P R L I V L R I I S G Y G Q Q T G P Y R N K P G
UniRef90_E3JAV4 P G V T E R L G L G P D D C L A R R P G L V Y G R M T G W G Q Q D G P Y A Q A P G
UniRef90_D0J5E4 P G T L E G W G M S P E E L H V I N P G L V L L R I T S G Y G Q Q T G P Y A R D L P G
UniRef90_E310H1 V G G L A K Y G L D Y A A I R A V K P E I V Y C S I I T G F G Q Q T G P Y A A R P G
UniRef90_H6R674 P G V T E R M G L G P D E V L A R N P R L V Y G R M T G W G Q Q F G P M A D R A G
UniRef90_K4KY65 P G V A E R L G C G P D D C W Q V N P G L V Y G R V I T S G F G Q Q S G P L A H T A G
UniRef90_UPI00037D07C2 P G D L A R R G I G Y E D M A R I K P D L V W C S I S G Y G Q Q T G P Y R D R T G
UniRef90_UPI00046AC9C5 P D G L V K Y G L D H K T L C A A H P G L V Y C C S I I S G Y G Q Q T G P N R E K P G
UniRef90_UPI00026270D9 V G A L A R R Q G L S Y E D L K D A D F P D L V Y C S I I S G F G Q Q Y G P M R S A K K G
UniRef90_G9ZW60 V G T L A R R G L D W P S L Q A A V N P R L I Y L C S I I T G F G Q Q S G P Y A K R K G
UniRef90_L2EJ93 P Q K L A K L D L D P A S V M A R H P Q L I F V S L L G F A E D G P Y G G R P A
UniRef90_UPI000313F4EF V G G L K K Y G L D Y E T L S Q V N P R L I I Y C S V I T G F G Q Q D G P Y A T R P G
UniRef90_Q21R36 V G G L K Q Y G L D F E S L H A I N P R L I Y C S V I T G F G Q Q D G P Y A E R A G
UniRef90_UPI000455F9E4 P G K L A T M G L G W E D C H K I N P R L V Y A S I T G Y G Q Q T G P Y S Q A A G
UniRef90_Q46S66 P G V L A R A G F D W D R M Q H L A V N P R L I Y A S I K G F G P G P Y A Q D C K A
UniRef90_N0CNT6 P G T L E R W G L G P E E L H A V N P R L V L A R V I T G F G Q Q T G P Y A H R P G
UniRef90_E4PGW6 P G V M D R L G I G Y E A L K A V N P R L I Y C S I I T G Y G Q Q T G P Y K D R A G
UniRef90_V4REI4 P R V T G K L R I D A D T I R T I R P D L V Y V S I I T G F G M D T G P Y A R D W G C
UniRef90_E4PJ4 P G V I E R M G L G E E Q L R K V A P N L V M V S I S G F G M D T G P Y S Q R P V
UniRef90_UPI00046FCAF0 I E T L E A M G L D Y A S L C C K I K E D I I L T H Q S A F G D T G P Y K N R V G
UniRef90_Q2IYE5 P A A M A R L G F G Y E D C C A L N P R L I I Y A A A T G F G Q Q D G P W A A R P A
UniRef90_U3HQM7 P G A A A R M G L S F E A L H E R F P R L I V C D I I S G Y G E G G P Y E Q K K A
UniRef90_UPI000300C155 P G T L E K W G L G L E D L Q E V N P S I I M T R I S I S G Y G Q Q T G P Y R E K P G
UniRef90_A1WEM8 P G T L E G W G M G Y D T L A R E I N P R I V M L R I S I S G Y G Q Q T G P Y R D R P G
UniRef90_G7DN66 P D V K K K L G I D Y E S L R E I N P R I V Y G S L S G F G Q Q D G P Y H K R P G
UniRef90_UPI000372980F P G V T E R L G F G P E D V A K V N P R I V Y G R M T G W G Q Q D G P L S L V A G
UniRef90_F4GNQ9 V Q S M H R L G L S Y E A L Q A V N P R L I I Y C G V T Y G F S E N G P Y A G R P A
UniRef90_UPI00035927A0 P G V M E K L G L G P P E E L M K A N T K L I Y A R L T G Y G Q Q T G A M A L K A G
UniRef90_W0IRN5 P G D L D R R G L G Y E D I R K I K P N L V W C A I S T G F G Q Q T G P Y A E R T G
UniRef90_G8MC30 P G A L D R M G F T W E R I Q E L N P R M I V A S V I K G F G P P Y E D C K V
UniRef90_B4JAJ8 P G V M E K L N G P E V L C T S N P R L I Y A R L T G F G Q Q G P L A A R A G
UniRef90_U2A9M8 P G T L E R W G L G Y D E L S A R N P R L V L A R V I T S G F G Q Q V G P Y R T R P G
UniRef90_M4Z3W5 P G T L D R W G L P K E V L W S I Q P R L V I L R A T A F G Q Q D G P Y R D R P G
UniRef90_UPI00037E36AB P G A A E R M G L S F Q A L H S D D F P R L I V C D I I S G Y G D G G P Y R D R K K A
UniRef90_Q39GK7 I G T M E R W G L G F D A L H A R F P R L V H C C R V S I S G F G S D G G P L G G L P G
UniRef90_F4GSQ3 P G V M D R A G L G Y E D L K K I H P R G L I M C S I S L A G Q Q E G E L S Q Q K P G
UniRef90_E6PWF2 P G A L E R L G L G W D A L R A V N P S L V M V R I S I S G F G Q Q T G P M R Q Q P G
UniRef90_C3AJA0 P G T L E R M G L G Y D V L Q E V K G D I I L A S I S G F G Q Q K G P A S H L P G
UniRef90_A0A023NXD2 P G V A E R L G L I D D R L N L I N D P R L I I Y C A I S T G Y G E S G P M S D K A G
UniRef90_I7CTU0 P G K A E A F G A D Y E T L S A L N D E L I Y C D V I S G Y G S N S P Y K G K K S
UniRef90_HOTJL6 P Q A M A R L N L G Y D V V A K I N P R L I I Y A G V I S G F G Q Q D G P Y A A K P A
UniRef90_UPI0003B60D1B P G T L E K W G M G Y E T L S A Q R N P G L I M L R I S I S G Y G Q Q D G P Y R D L P G
UniRef90_D4X7X2 P G T L E K W G L G F E S L S A Q N F P R L V H C C R V S I S G F G A D D G P L G G L P G
UniRef90_UPI00047BDC29 P G A A A R M G F S Y E Q L K D R H P R L V V C D I I S G Y G N D G P Y R D K K A
UniRef90_D9X214 P G T L E K W D L A G W P E L S A R A N P R L V L A R V I T G F G Q Q F G P Y A H R P G
UniRef90_UPI0003713FCC P G T L E R W G L A P E T L S W A R N P G L V A R V I S G F G Q Q T G P Y N R H R P G
UniRef90_G7DJV5 P Q A M A R L Q L G Y D V V S A I N P R L V Y A G V I S G F G Q Q D G P Y A A K P A

UniRef90_A0A024PL64 Y D F I T Q A M S 130 G L M S I T G D E Q S G P Q K L G V A I T D I L T G L Y A C
UniRef90_U5VY27 F G S I G E A M G G L R Y V M G E P G S P P V R A G I S L G D S I L A A V Y A S C
UniRef90_Q143N7 F D P V L A Q A E S G F V S M N G Y P G R D R L G V R A L S P V M D I L S T A M M A S
UniRef90_X0R9E4 M D L L A Q A R G T G M G T T G E P G R T P V K V A P A I A D F L I G S Y L A C N
UniRef90_UPI00046A2106 Y D F I T Q G G S G L M S I T G E P D R Q P Q K H G M A I T D I F T G I Y S T
UniRef90_B8KY78 Y A S V T E G Y G L R Y L N G E P G K T P V R P N I S I G D T L S A I H A A
UniRef90_D6ZD89 H D L N Y L G T G V L H A I G P A E A P P P P L N M V A D F G G S M F L V
UniRef90_H6BTB3 Y D V M V E A E F G L M H I T G E R N G S P V K V G V A V T D L T T G L Y A A
UniRef90_X4ZAB9 Y D F M I Q A M S G L M S I T D D R A G G G P M K L G V P M V D L S T G L Y A A
UniRef90_D7A6Q8 V Y E N V A Q C T G G S A S T T G F R D G G F P L V T A A Q I G D S G T G L H L A
UniRef90_UPI0003B75140 Q D L V V Q G Y S G S M F S V G S A D D D P E P G A L W A A D V M T G Y Q A A
UniRef90_UPI00047E9BA4 F D F I A Q A M G G F M S L N G G E D D P P M R V G G P I L S D L V A G V N A A
UniRef90_Q5P032 V D I I A Q A M G G L M S I T G P D A D C P T K V G G G P G D T I P G L F G A
UniRef90_E2ZCY7 Y D I I A Q A T G G L M S I T G D P G G H G I R V G N A M G D V L G G M N L T
UniRef90_T5KBE9 Y D T V I S A T G G M Y S Q V V Q P A S T I R P L G P A F S D L V S G M S A V
UniRef90_X5LPJ8 Y D D T I Q A E C G L P A V V Q Q L T G E A S Y V G T I M A D K V A G M L T A L
UniRef90_A5V8R1 F G V I G E A I G G L R Y L T N Q A L T G T A D L P V R V G V S I G Y A A F G V
UniRef90_A0A038GV27 F D F I T Q A M S G F M T M N G T A S S T G P M R T A V P I S D L I A G N Y A A
UniRef90_X0N0A4 Y E V L A Q A M G A M A T T G F E D G P P L V A T G A Q I G D S G T G V H C V
UniRef90_V8QPI7 I D D T I Q A A S G L A W I Q G A A G Q G E P N Y M N S V I A D K V V A L Y V S
UniRef90_A0YBL8 Y D P I I Q A I S L A T I Q G G S D E A R P R L V R T L P D K L T G M T T A
UniRef90_E8TTZ0 Y D L L V Q A A S G L I S V I T G P D A P A R T G I S I A D I S A G M Y A Y
UniRef90_A0A011QFH5 F G A I G E S M G G L R Y V T G F A D R R P P V K T G I S I G D S I A A L W G V I
UniRef90_UPI0003809A86 F D L I L Q A F S G L T S V T G E D G G E P V K P G V S I A D V N A G V L A A
UniRef90_UPI00026281C6 F G T L A E A M S G F A A I T G E P D G P P T L P P F G L A D G I A A L T T A
UniRef90_E3HQZ7 Y D L L I Q A A S G L I S L T G T P N S P P A R T G I S I A D I A A G M Y A Y
UniRef90_Q0K0E4 Y D H V I Q A L S G T M P G I G S Q D D P P E Q V R N S V V D K I T A A T A A Q
UniRef90_A0A017HE91 Y D F L I Q G M S G L M D L T G D P E Q Q P Q K I G V A F T D I L F T G L Y S V
UniRef90_W4LBT3 F D E I I Q A A S G F A S A M G S D E E P A F V P S L V G D K I C G M A L T
UniRef90_B4REL6 F D L V A Q G M G G M S L T G H P H D E P L R A G I P I G D L G G G L F G V
UniRef90_UPI0003F9A242 F G S I G E A M G G L R Y V T G D P D K P P S R A G I S L G D E L A G T F A A
UniRef90_G6E7Z0 F D S V G Q A L C G S S Y L T G T G E I P F R S P I T W V D N G T A V F A A
UniRef90_UPI000468354A H D L N Y A I A L T G A L W A S G S R D Q A P A F P M N L L G D F G G G G M L L A
UniRef90_I1ER94 F A R I A Q A Y A G L S Y L T G M P H T P L I A G S T T L A D Y L S G L Y G A
UniRef90_I3X184 Y D Y I I Q G M S G L M D L T G E P D R E P Q K I G V A F A D I F T G L Y G V
UniRef90_U2WS90 F D Q L A Q A L G G M S L T G N R P E D V I R A G I P I G D L G G G M F A V M
UniRef90_UPI0003654AD4 H D I D Y I A V A G A L E P I G R A N G E R P H A P L N L I G D F A G G G M L L A
UniRef90_L1KV51 Y D L L V Q A V G G L M S V T G A P D G D P A K V G V A L V D V I T G L H A S
UniRef90_I7DQ76 Y D M V V Q A R S G G V M S I T G E R D R E P V R V G A S I G D I A A G M F L C
UniRef90_R4T197 Y D E T V Q A S S G L V D V A N R L G K P V Y L P T I I G A Y S L T I A Y
UniRef90_F4CUM3 F G T L A E A M S G F A H I N G W P D K P P A L P P F A L G D C I A G F T G C F
UniRef90_Q0VRD8 Y A S V C E E G I G G L R Y V N G Y F P G E R P V R P N L S L G D T I A G L H A A
UniRef90_S2YQL3 F G G V A E A V G G L R N L T G Y P D R A P T R V G I S I A D Q I A G L Y A V
UniRef90_A3U250 Y D Y I I Q G M S G L M S L T G E P D G Q P L R A G V A V T D L F T G V Y S A
UniRef90_Q8YB81 Y D F I I Q G G L M S I T D D K P G G G P Q K V G V A V A D L M T G L Y S A
UniRef90_UPI00031E65B8 F G V V A E A M G G L R H L T A E P G R V P V R V G V S I G D T L M A L H G V
UniRef90_E3JAV4 R D I N Y V I A L A G T L A M V G R P G V P V P P V N I V G D F G G G L L L A
UniRef90_D0J5E4 F G V I G E A M G G L R H L T A E P G R V P V R V G V S I G D T L A A L H G V I
UniRef90_E310H1 Y D F M I Q G M G L M S L T G E P D G E P M K V G V A L A D V F T G M Y A S
UniRef90_H6R674 H D I N Y I S L T G V L H A I G R K K G E R P V P P L N M V G D F G G G S M F L V
UniRef90_K4KY65 H D I N Y I G L T G A L A A M G D K K E P A L P L N L V G D Y A G G S L F L V
UniRef90_UPI00037D07C2 Y D F L I Q A M G G M S I T G H P D E E G Q P V G V G I A D V M C G M Y A T
UniRef90_UPI00046AC9C5 Y D L M A Q F G G I M S I T G D P E G V P T K V G V G I A D V M C G M Y A T
UniRef90_UPI00026270D9 I D L V A Q A Y G G L L S V T G S T S G E L A K A G Y P I G D L G T G M W G A
UniRef90_G9ZW60 Y D T V F A Q A M G G L M G L T G E R G G P V K P G L P V A D L S S G L W V A
UniRef90_L2EJ93 Y D D I I Q G L C G N A A L M A A Q T G T V R Y F P T I S A D K T S G L V A A L
UniRef90_UPI000313F4EF Y D A L I Q A M G G L M S I T D E V P G G G P Q K V G V A V V D I L T G L Y A T
UniRef90_Q21R36 Y D L M I Q A M S G L M S I T G E A D A T P G G G P M R V G V A V I D I F T G V
UniRef90_UPI000455F9E4 Y D V T I E A E A G L M H I T G E P D R P V K V G V A V T D I M T G L Y A H
UniRef90_Q46S66 Y E N V A Q A M S G S A S T T G D A A G V P T V T G A Q I G D S G T G V H C V
UniRef90_N0CNT6 F G T L A E A M S G F A A T T G E P D G P P T L P P F G L A D S I A A L A T A
UniRef90_E4PGW6 H D I N Y L S L A G V S S H C G R A D S G P P P M G I Q I A D V A G S H H A V
UniRef90_V4REI4 Y D L T A E G Y S G V M D V T G S P E G G P Q K V G A P A A D M L A G Q D A A
UniRef90_E4PJ4 Y D P L I Q G G L S G L M T V T Q A G A D E L R P Q L V R T L L P D K L T G V T A A
UniRef90_UPI00046FCAF0 F D G I G Q A M S G A M Y M S G D P Q T G P R K L S S P W V D F T T A M V G C
UniRef90_Q2IYE5 F D E I I Q A A S G F L A S S I T G S D D E P H F V P S L I G D K I C G Q A L A
UniRef90_U3HQM7 Y D L L I Q S E G G L S V T G G P G E D E M A K A G C S I A D I A A G M Y A Y
UniRef90_UPI000300C155 F G S V A E A I G G I R Y L T G Y P D L P P V R V G L A L G D L V A G L Y A V I
UniRef90_A1WEM8 F G A I G E A M G G L R H L T G E P G R M P V R C G I S I G D T L A A L H G T I
UniRef90_G7DN66 F D Q I A Q M G G L M S I T G A P G E G P M R V G I V A D L T A G L F C A
UniRef90_UPI000372980F H D I N Y I S L T G L L H A V G R E N E V P T P P L N L F G D F G G S M F L V
UniRef90_F4GNQ9 F D D I I Q A M S G V A G M Q G H G E G R E P A Y V N T V A D K T T G L T A V
UniRef90_UPI00035927A0 H D I N Y I A M S G A L S R F G R F G G E R P Y P V N I V G D F A G G G L S C A
UniRef90_W0IRN5 Y D F L V Q A M G G L M S I T G E S D T A G G R P V G L G I A D V M C G M Y A T
UniRef90_G8MC30 Y E N V A Q A C A G G A A S T T G F D D G P P T V S G A Q I G D S G T G L H L A
UniRef90_B4JAJ8 H D L N Y A A V S G V L S I T G R E H E K P T A P I N I L A D F A G G S V M C A
UniRef90_U2A9M8 F G T L A E A M S G F A A M T G E P D G P P T L P P F G L A D G V A S L A T A
UniRef90_M4Z3W5 F A R I E A A M G G L T Y I T G E A D G E P T H P G Y P I G D A I I G G A F G A L
UniRef90_UPI00037E36AB Y D L L I Q G E S G F L S V T G D G D Q P A K A G C S I A D I S A G M Y A Y
UniRef90_Q39GK7 Y D A A V Q A L A G L M S V N G E A G G A P L R V G V P I V D L V I T G L N A A
UniRef90_F4GSQ3 Y D Y I A Q A Y A G L T D L I G D P E G E P A L I T M A M G D G A T G I A A M
UniRef90_E6PWf2 F G A I A E A M G G M R Y L T G D P D R P M R A N L S L G D S I A A L H A T M
UniRef90_C3AJA0 Y D Y M I Q A M S G L M S I T G G K D E E P A K V G V A I S D V L I T G L F T C
UniRef90_A0A023NXD2 Y D Q V L Q T M T G M C A L I Q G K R G G P P E V I Y G S V D Y V S A A L L A
UniRef90_I7CTU0 F D L I L Q G E A G M S I T G T E E P A R V G I S I C D V S G A M T A T
UniRef90_HOTJL6 Y D D L I Q G G A G L A H L M A I G G D G T P R Y V P N A L V D R I V G L T A
UniRef90_UPI0003B60D1B F A V A Q A M G G L R H L M G E P G R P V R A G V S L G H G V I G V L L A L
UniRef90_D4X7X2 Y D A C A A M C G L M S V N G E A S G E A T R V G L P V V D M V I T G L N A A
UniRef90_UPI00047BDC29 Y D L L I Q S E A G F L S V T G T P D E P C K S G N S I A D I A A G M Y A Y
UniRef90_D9X214 F G T L A E A M S G F A A I T G E P D A P P T L P P F G L A D S I A G L T T A
UniRef90_UPI0003713FCC Y A S V A E A V G G L R H L I T G F P D R P P R A G I S L G D S L A A M I A V Q
UniRef90_G7DJV5 Y D D L I Q G A T A L P A L M A Q T G D G V P R Y V P N A L V D R I V G L T A

UniRef90_A0A024PL64
UniRef90_U5VY27
UniRef90_Q143N7
UniRef90_X0R9E4
UniRef90_UPI00046A2106
UniRef90_B8KY78
UniRef90_D6ZD89
UniRef90_H6BTB3
UniRef90_X4ZAB9
UniRef90_D7A6Q8
UniRef90_UPI0003B75140
UniRef90_UPI00047E9BA4
UniRef90_Q5P032
UniRef90_E2ZCY7
UniRef90_T5KBE9
UniRef90_X5LPJ8
UniRef90_A5V8R1
UniRef90_A0A038GV27
UniRef90_X0N0A4
UniRef90_V8QPI7
UniRef90_A0YBL8
UniRef90_E8TTZ0
UniRef90_A0A011QFH5
UniRef90_UPI0003809A86
UniRef90_UPI00026281C6
UniRef90_E3HQZ7
UniRef90_Q0K0E4
UniRef90_A0A017HE91
UniRef90_W4LBT3
UniRef90_B4REL6
UniRef90_UPI0003F9A242
UniRef90_G6E7Z0
UniRef90_UPI000468354A
UniRef90_I1ER94
UniRef90_I3X184
UniRef90_U2WS90
UniRef90_UPI0003654AD4
UniRef90_L1KV51
UniRef90_I7DQ76
UniRef90_R4T197
UniRef90_F4CUM3
UniRef90_Q0VRD8
UniRef90_S2YU13
UniRef90_A3U250
UniRef90_QY8YB81
UniRef90_UPI00031E65B8
UniRef90_E3JAV4
UniRef90_D0J5E4
UniRef90_E310H1
UniRef90_H6R674
UniRef90_K4KY65
UniRef90_UPI00037D07C2
UniRef90_UPI00046AC9C5
UniRef90_UPI00026270D9
UniRef90_G9ZW60
UniRef90_L2EJ93
UniRef90_UPI000313F4EF
UniRef90_Q21R36
UniRef90_UPI000455F9E4
UniRef90_Q46S66
UniRef90_N0CNT6
UniRef90_E4PGW6
UniRef90_V4REI4
UniRef90_E4PJ4
UniRef90_UPI00046FCAF0
UniRef90_Q2IYE5
UniRef90_U3HQM7
UniRef90_UPI000300C155
UniRef90_A1WEM8
UniRef90_G7DN66
UniRef90_UPI000372980F
UniRef90_F4GNQ9
UniRef90_UPI00035927A0
UniRef90_W0IRN5
UniRef90_G8MC30
UniRef90_B4JAJ8
UniRef90_U2A9M8
UniRef90_M4Z3W5
UniRef90_UPI00037E36AB
UniRef90_Q39GK7
UniRef90_F4GSQ3
UniRef90_E6PWF2
UniRef90_C3AJA0
UniRef90_A0A023NXD2
UniRef90_I7CTU0
UniRef90_HOTJL6
UniRef90_UPI0003B60D1B
UniRef90_D4X7X2
UniRef90_UPI00047BDC29
UniRef90_D9X214
UniRef90_UPI0003713FCC
UniRef90_G7DJV5

170 180 190 200

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

UniRef90_A0A024PL64
UniRef90_U5VY27
UniRef90_Q143N7
UniRef90_X0R9E4
UniRef90_UPI00046A2106
UniRef90_B8KY78
UniRef90_D6ZD89
UniRef90_H6BTB3
UniRef90_X4ZAB9
UniRef90_D7A6Q8
UniRef90_UPI0003B75140
UniRef90_UPI00047E9BA4
UniRef90_Q5P032
UniRef90_E2ZCY7
UniRef90_T5KBE9
UniRef90_X5LPJ8
UniRef90_A5V8R1
UniRef90_A0A038GV27
UniRef90_X0N0A4
UniRef90_V8QPI7
UniRef90_A0YBL8
UniRef90_E8TTZ0
UniRef90_A0A011QFH5
UniRef90_UPI0003809A86
UniRef90_UPI00026281C6
UniRef90_E3HQZ7
UniRef90_Q0K0E4
UniRef90_A0A017HE91
UniRef90_W4LBT3
UniRef90_B4REL6
UniRef90_UPI0003F9A242
UniRef90_G6E7Z0
UniRef90_UPI000468354A
UniRef90_I1ER94
UniRef90_I3X184
UniRef90_U2WS90
UniRef90_UPI0003654AD4
UniRef90_L1KV51
UniRef90_I7DQ76
UniRef90_R4T197
UniRef90_F4CUM3
UniRef90_Q0VRD8
UniRef90_S2YQL3
UniRef90_A3U250
UniRef90_Q8YB81
UniRef90_UPI00031E65B8
UniRef90_E3JAV4
UniRef90_D0J5E4
UniRef90_E310H1
UniRef90_H6R674
UniRef90_K4KY65
UniRef90_UPI00037D07C2
UniRef90_UPI00046AC9C5
UniRef90_UPI00026270D9
UniRef90_G9ZW60
UniRef90_L2EJ93
UniRef90_UPI000313F4EF
UniRef90_Q21R36
UniRef90_UPI000455F9E4
UniRef90_Q46S66
UniRef90_N0CNT6
UniRef90_E4PGW6
UniRef90_V4REI4
UniRef90_E4PJ4
UniRef90_UPI00046FCFA0
UniRef90_Q2IYE5
UniRef90_U3HQM7
UniRef90_UPI000300C155
UniRef90_A1WEM8
UniRef90_G7DN66
UniRef90_UPI000372980F
UniRef90_F4GNQ9
UniRef90_UPI00035927A0
UniRef90_W0IRN5
UniRef90_G8MC30
UniRef90_B4JA8
UniRef90_U2A9M8
UniRef90_M4Z3W5
UniRef90_UPI00037E36AB
UniRef90_Q39GK7
UniRef90_F4GSQ3
UniRef90_E6PWF2
UniRef90_C3AJA0
UniRef90_A0A023NXD2
UniRef90_I7CTU0
UniRef90_HOTJL6
UniRef90_UPI0003B60D1B
UniRef90_D4X7X2
UniRef90_UPI00047BDC29
UniRef90_D9X214
UniRef90_UPI0003713FCC
UniRef90_G7DJV5

T G N T P A R L G N S H A N I V P Y Q T F Q S K D G E M V I A V G N D R Q F T
A G Y Q R E R T G A T L P N V S P S N V Y F P T G D G D L L L I A A N Q D T V F
T G D E P Q R R H G N T S P D T C P S G V F K A S D D G A F Y I N C G N N K L F H
R T G V P F R P Q G G A Q S N I V P Y Q V F F A S D D G W V V V A C L I Q K F W V
T G I A P T R L G N A H P I T N L T P Y E V F E T S D G H L I I A T G N D G Q F Q
A N V W R E P S G T T I T G L V P Y T N T Y T L C K D G K Y V I T G A N G D S I F
G F V N D R Q R N N F L D G A A V Y R T Y T T S D G K Y F A V I G A I E P Q F Y
S G E R D Q G R W G T A H P S I V P Y K G F Q T A D G D I M I G G G N D R L F G
S D Q V P Q R R G N R Q P N I Q P Q R V Y Q C D D G R L I L A I T G S D T Q F A
L E R G P L R E Y S H F G E G I P F C K G W E T R D P N A Y I Y F I T Q G P V W
T G R Q P E R E P S A H A F I P A P Y G V Y R T R D G W L T L A M T P L D A L G
U N I R E F 9 0 _ U P I 0 0 0 4 7 E 9 B A 4 T G S V P S R T G N D H G L V A P Y G L F A T A D G G V A I N D A M Y Q K F L D
T G E V P R P T G S R L P Q L A P F G R I S T K D G G W A V I A V P P G R N W P
S G K Q P E L M G N R Y A A A Y P Y D S F Q A S D D G L F V I G C G N D K L F S
T G Q V L S S P D S R P R R A Q A Y A C R G S D D K A F V I H M S V P E K F W
F D P P L G S P A V Y P R A V T P N R R P Y E T K D D H I A A L I Y N D K H W N
L G K I K Q P A G G G I A T A A P T N A Y P T A D G Q W V L I A N S E P L F
S G E Q M P T G N D H P L V A P Y G L F T A S D G D I A V A P S N D R R L F V G
F G T E V P R S G N A S G G G Q P G W A V R C A P G G P N D Y V I V I Q P V G
T F V P P E G P A G Y A R L L N E Y R R P F R C S D G Y I S V V P Y T D G Q W
V G K E V S T Q R A A T F L D L I Y A T K T G Y L S V S A M A N K Q W V A L C T
G S A P V R S G L T H P Q L A P Y G Q Y R A G D G K S V I F G L Q N D R E W
F G F V R E R T G N I M P G I T P S N T H A T Q D G K H V A I G A N G D A I F
R G I V P K P S G T A H P L N A P Y Q V Y R C D D G R V A I G G A N Q A N W D
L G Q L Q E R T G N R S V L N N A P R N T Y R T R D G S W V A I S T S A Q T I A
G G T P P A R N G V A H P A I A P Y G Q Y L A G D G K P V I F G L Q N D R E W
F Q T P S L G A R A L P N T Y F P I R T S D G A H V M G H I F T D E Q F R N L C R
T G I A P R R L G N A H P N I A P Y Q V F S A A D M G D L I L A V G N D G Q F A
F V P P I G P S G Y K R M K E R R P A R T K D G W L T M L P Y W C A F F E
S G K S T A R A N G H F V H V P Y N T F R T K T R H L I I T D G F W R S L V
A G Y Q R E R T G S G L P N V A P S N V Y P T K D G P V L I A A N R D T I W R
T G V G R G P I G N R G H L N G P T D T F R T S D G W I V T Q I V G P G I F K
D L G W E D R R A A N F E D G G A P W Y N V Y E C Q D G N W T I G A L E P Q F W
T G A I R E R N G T E T Y A A V P H S H Y P C A D G K W V A I A C T N D R I F
S G K A P R R L G N A H P N I A P Y Q V F A T A D G H L I V A V G N D R Q F V
S G D I P G P L G N S H F V H V P Y N T F K T A T D M L V I A C D Q F W P L L
G R W P F G R G E N M L D G G A P F Y D T Y A T A D G G F M A V G A L E P A F Y
A G V V P G R L G N A H P S I A P Y E T F R T A D R P T A L A V G N D R Q F
V T G E A P R P S G A R H P S I T P F E T F H A S D G L F V I A A G N D L F A
V F E P A E G P T G F G P S M N P G H Q A V H T K D G M A C V I P Y N P Q N F R
K T G E V V I G R S G N H T P Y S A P R N A Y Q T K D G R W L A L S A T A Q S I A
A G V I R E R P A G S T V T G I V P T N T Y R C A D R K F V V I S G N G D S I F
Y G V E R E R T G S A L P G V V P S N T Y R C A D G K Y A V I S G N G D A I Y
T G T P P A R T G N Y H P N L T P Y Q V F E V S D G F I I I A T G N D A Q Y G
S G R P P G R Y G N A H A N I V P Y Q V F R A S D R D G L I A C G N D A Q F L C
F S A V R E A A G S A L P G I A P S N A Y R C K D D G G Y A L I A G N G D S I F
G D W G E R G T N L L D G G A W F Y D A Y E T A D G R Y L S L G A I D P K A R
F G A V R E A A G S A L P G I A P S N A Y R C Q D D G W V L V A G N G D S I F K
G G V V P R L G N A H P N I V P Y Q A F E T R D G H V I V A V G N D A Q F T
G A W S E R G V N L L D T G M S F Y D T Y E T A D G K Y M A V G A I E P Q F Y
G L W K P E R A A N L L D G A A H F Y D T Y E T A D G K F M A V G P I E P Q F Y
S G K R P E R I G N A H P N I A P Y Q T F P T A D R D L A V A V G N D E Q F K R
S G E L P Q R R G N A H P N I V P Y D A F E V A D G H F L L A V G N D A Q F V
T G E P P P R L G T A H R L T A P Y E A F T C G D D A D V L V I T E R S W R D F C
L G E V P P R L G T E H P G R V P S A S F R C A D D R Y L H I T A S D Q H W A
H F E P P R G P S G Y P R V L A P L R R P Y Q T A D G Y V C M M P H W R D F F Q
A G K V P G R L G N S H P S I V P Y Q P F P C A D G H V M L L A V G N D T Q F
T G A V P Q R Q G N T H P S L A P Y Q T F P T L D G A M L L A V G N D G Q F A
A G K E A S R H G T A H P S I V P Y Q V F P C A M I G A G N D R Q F R L L C E R
L D A G V P L R E Y P N E Q F D D H V P R A G N A S G G Y V I I Q P Q G W E P L M
L G Y V Q P R T G N R S R N N A P R N T Y R T A D G H V V I A V S T S A Q S V A
G G Q E Q K P E R A L L N G G S F Y D Y Y Q T R D G R W L S V G S L E P Q F A
S G E V P I R S G Q E T D S V I A I T Y Q A F D T A D L P I T L N D G I W R R F W A
F V H S E V P R Q Q E A S L Q D L I Y E T T G Y I T I A V Q S D R E W Q A L I
L G L N R T G I G N R G Y N G G P S D T Y K T K D G W V L V Q S I G R P L F K
F D P P I G P A G Y K R M K E R R P V R T K D G W M T M L P Y S G N D N W C
G A P P P P R A G A H A T I Y P Y G P P T G D G G T V M L P S Q N E R E W
T G T V R E R T G S T L P G I A P S N T Y E C A D G K H L V I G G N G D K I F
F G A V R E A A G S A L P G I A P S N A Y R C T D G Y A L V A G N G D S I F K
E K E V A K Q A G N N L P T S I P T G V F K T S D G Y I N I A T T G G R I W E
G F W Q D K R A A N L L D T A A P F Y D V Y E T S D G K Y F A V I G A I E P Q F Y
F A G Q D M P M G Y G R V L S P F R K P Y R T K D G Y P Y T T E Q W R F F E
M L F P K P R G K N W L D G G S A Y Y D T Y Q T K D G K Y M A V G A L E P Q F Y
S G K V P N R I G N R H P N I A P Y Q T F A T A A G E T A I A V G N D Q Q F
L E R T G V M K E Y P Q Y P W L L K Y K G W E T R D P N A Y I Y F I T Q A P V W G
G I W E Q K R G R N L I D G G A Y F Y D T Y R T K D G L Y M S V A A L E P Q F F
L R T V I Q P R T G N R S A N N A P R N T Y R T R D G Q W V A V S T S A Q S I A
Q L G F S R S R I G N A N G Y S A P A A V Y R T R D G R W V T L A G S T N A L Y
G A S P P G R S G A H A T I C P Y G P F Q T R D G D L T V L A G V Q N E R E W
S R N A P V R T G N A H P N I T P Y D S F P T A S V D I F L A V G N N G Q F C D
P N Y A P H R T G S Q H P D G G P T G L F R C S D D Q Y L I L P H Q G W F V A
D G T V R E R T G T S I P G I T P S N V Y R S Q G G E W V Q I S G N G D A I F
T G E L P E R L G N Q H S N I V P Y Q V F E A E D G D L V V A V G N D E Q F H
E S L D I G R D M R S G G V N T G I H P T R D G Y I L Y I S A N T P H F W R A L C E
S G E V P Q R M G T K H P N L S P Y Q A L E T A D S H G V I S E G I W P D L C R
T F E P P L D K G G Y A R H L S R D R R P Y Q T A D G H I C N D K Q W E A F F A
A G L V R Q P A G S A L P G I A P S N A Y R C A D G Q V V I G G N G D S I Y K
S G N V P K R S G N A H P N I A P Y E T L P T A S G P L F V I A V G N N R Q F A L
G Q T P P P R S G A S H A T I Y P Y G P F E A G D G K P V M L G L Q N E R E W
L G H V I Q P R T G N R S P N N A P R G V Y R T A D G T W V A V S T S A Q S V A
T G A V R G R T G T A L P G L A P S N L Y R T A D E R W I V A A N Q D T V F A
T Y E P P L D K G G Y A R H L S R D R R P Y K T S D G Y V V N D K Q W E N F F K

UniRef90_A0A024PL64 H L C H P S L A R D G R F S T N A Q R V E N R D E L T K L L Q K F L T K E T A
UniRef90_U5VY27 G R L A V A M G E P E R Y A D H S A R G A R R D E L D D H I A R W T S G R A A E
UniRef90_Q143N7 R L A S Q V L E M P D L V A D P N F S T N A R R D E L F R I V L D A E A F L H P T W A S
UniRef90_X0R9E4 T L C R A V E R E M D L L V E A D P R N S T N A D R V R N R P V L L A E A F A E H H P T W A S
UniRef90_UPI00046A2106 R L C I D D M A H P D L D Y A S D N A D R V A N R Q P A M N D Q A L A E A A T R K F T S D
UniRef90_B8KY78 K R L M I E V G R A P D M A E D P E Q G L E H N H Q G W P Q R L H T T F E E V F R T K T T Q
UniRef90_D6ZD89 A E L L A K L G L A G K D I P E Q G Q D G L H T T F E E V F R T K T T Q
UniRef90_H6BTB3 I L C R P E W K T D P R F V T N D V R V E N R D V L E P L T I E E M T R T K T T Q
UniRef90_X4ZAB9 K L C H P D M A Q D D E R F R N N A G R V T H L A E L D P W L D E Q Q L L Q H D K A
UniRef90_D7A6Q8 K I C D V I H E P D W K T D P A Y A T V A H L N E I F T R I E A W T M A H H T K F
UniRef90_UPI0003B75140 E V L N D D W L R S L S D Y N D G H T H R D E V Y R H I R H A F E H E T T A
UniRef90_UPI00047E9BA4 A L G L P M L R E H P D F E T N A K R M R N R P A L K A L I E E R T R Q H D S A
UniRef90_Q5P032 V F C E V I G R P E L I D D P H F C N E Q R P L A N F D A V Y E E V V E S F T R E
UniRef90_E2ZCY7 L F C N K V I N M P E R F E T N L K R C E N H Q E L K P I I E E W S R H L T I D
UniRef90_T5KBE9 T L E R P D L A D D S P P E Y A S T R E A R V R N Y D T V L D V V V K E I A A T R P R Q
UniRef90_X5LPJ8 A F I D R V Q W N P P E Y A S L E A R A R Q I D T V L D V V V K E I A A T R P R Q
UniRef90_A5V8R1 A K L M T L V G H G E G Y A S N P E R V A N V D T L D Q L I G A W T R T L S A G
UniRef90_A0A038GV27 A L G L I H L I D D S R F S S N A S R V R R A E I F N S L I N E V V C T Q P R S
UniRef90_X0N0A4 W R P R P E L A E D P D W A T P E A R L P K L T K V I E E W S T L P K W
UniRef90_V8QPI7 Q R F F E L T R R P D L A D D M R F R T A H F P E L Y R Y V E Q V L V E R T T E
UniRef90_A0YBL8 A V G H P E W L N D D E R F T S P A L R D R S H A D A R L N M T Q Q A L L D K S A E
UniRef90_E8TTZ0 A D F C P G M V D D P R F A S N L L R V S N R A E L D A I L E E C F D S L T R E
UniRef90_A0A011QFH5 K R L M R L I G R D D Q L A D N A G R D A R R D E I Y A L I D A W V E A H D E A
UniRef90_UPI0003809A86 I L G L P E W K D D A R F D T P D L R L A N R K T L A T L I E A V L A T G T L A
UniRef90_UPI00026281C6 E R V M R L V G R P E W F A S G A E R A K H A D L L D E A V I G S W I A Q R D R D
UniRef90_E3HQZ7 R S F C T H V L D D E R Y A T N V Q R V R H R E A L D A R I A Q C F A S L S R E
UniRef90_Q0K0E4 M F D R L D L I D D D A R F A G V G A R R D H C E A M W S D E L R H S A R R L D T A
UniRef90_A0A017HE91 R A C G V L G L D D A R F A T V K A R V A N R A A L S D A M A T A F A G W R R D
UniRef90_W4LBT3 A V G H P E C I E E F S V Q D P V L R A R N I D K I Y D R M R E I A L T R T T A
UniRef90_B4REL6 D L L D D E E L R P E F F H P G R L A E K A Y I E A R V I G A A F E R E T S C
UniRef90_UPI0003F9A242 R L A A L M G R P D E R F A T H G A R G A N A D E L D G L I G D W T S A R D S A
UniRef90_G6E7Z0 R W T Q L M W L E D P R F A T D Q L R G E N G A I L S E R M A R W C A G R T T Q
UniRef90_UPI000468354A T R L L E L L E M Q D P A K F G D H H D P K S W P D I R R C F T A L F L S K P R D
UniRef90_I1ER94 A R L A R V M E Q P E L A D P K E S R L A K R D E V N A A V R A W T E G L D R K
UniRef90_I3X184 K F C R P D L A A D E R Y R T N A G R V R H R D I L T P E L A A E T A K F E R D
UniRef90_U2WS90 D L L D D E E L R D S R F E F A P S R L K E K A Y I E E R L N N A V L I N E R A G
UniRef90_UPI0003654AD4 G A L L D G L G L A E E D L P A Q L D R A G W P V L R A R F A A F A T R T R A
UniRef90_L1KV51 A A L V T A L G R P G L A D D N P D R V A H R A E L R T E L E E P L R T R T A D
UniRef90_I7DQ76 T L C T A L D L P D A R F A S N Q R A R C E N A R L L K R L I E A V T L D Q P A S
UniRef90_R4T197 D F F H A A G R P E L A E D P R V N D G A D H E A L A M I A E C A P A L T T A
UniRef90_F4CUM3 D R V V R L V G R P D W F A G N P G R I A H T A E L D E A I G G W I A E R T A E
UniRef90_Q0VRD8 K R L M A A A G R P D M A E D N A M A N E H E E A L D E A I D D S W C R S L P S D
UniRef90_S2YQL3 Q R L M R L V G R P D L A A D N A G R V A R A E E L D E A I G A W T A S L P C A
UniRef90_A3U250 R L C D V L G L P G M K D D P D Y L H N A N R P R M I R R L Q E A C L R F T K A D
UniRef90_Q8YB81 D A I G L P D L P K D P R F T R N S D R V H R D E I I G L I A A H F L T G T A D
UniRef90_UPI00031E65B8 R R L M A L L G R D D L S A D P T G R V Q R V S E L D D A I G A W T A Q M T V G
UniRef90_E3JAV4 R Q L A E L T D V D P G A D D R S S W P A T K E R L A G A V I R T R T R D
UniRef90_D0J5E4 R L M T A L D R Q D L A D A P D L A D N A R V A E L D A A I G A W T Q A R S V Q
UniRef90_E3I0H1 R F C C E A L A S D A K F A T N V A R V R H R E E L V A L L K P L L A R G S A
UniRef90_H6R674 A Q L L A G L G I D P E G L P Y Q Q I D P A G Q D T L K E L F A E R F R T K T R D
UniRef90_K4KY65 Q Q F L A V L A I D D P S L Q S Q Q P A D W A N D K H Q L K Q I F L R D T Q A D
UniRef90_UPI00037D07C2 F C R A P E L G C D A R F R A N C D R V E N R N D L A K L I T E A L R A D G A D
UniRef90_UPI00046AC9C5 R F C D Q D V A T D P A F L T N L G R I E N R E A L M A H I K P A L K K W A K V
UniRef90_UPI00026270D9 A V L D L D L S G D E A R F G E Y S R F V H R E R Q L A G L L Q A R F R T A P R D
UniRef90_G9ZW60 Q L C A A L G L S Q L A E D P N S G R V E H R E R V A M A M S D A L R A L P R G
UniRef90_L2EJ93 A S G R E D L A A D A R F T D I A A R T R H I E T L Y E I T G E L V R A R S T A
UniRef90_UPI000313F4EF A N F C Q A A G C A D R F A T N A E R V R N R A Q L I P L L Q Q A L K T T I D
UniRef90_Q21R36 R F C H P E W A S D P R F A S N T L R V K H R D A L I P A L Q A L T Q T T A
UniRef90_UPI000455F9E4 V L I E K P G L A D D E R F S T N A A R V A H R E E L V D V I S E T L K E K S R E
UniRef90_Q46S66 R L C G R E D L I T D P E F A S P E V R A K K L G E C F G L I E Q W T M G L T K F
UniRef90_NOCNT6 E R V M R L V G R P D L I D E P W F R A E H T E E L D G A V G H W I S R H S R E
UniRef90_E4PGW6 S L R F H T L G I S E T S L A M S Q N P E H Q Q H L K A V L K E K I A E K P L A
UniRef90_V4REI4 A V G D P E F G A R P D Y A D N A R R R G R P E L V E R I Q H H L S G A P R E
UniRef90_E4PJ4 R A V D R P E W A E D P F L T A R L R Q E N I D A R L E I Q S V I K T D T A E
UniRef90_UPI00046FCAF0 R W C Q D H W L S D S R F D T D Q D R G D N G H L I S E R M A K W C L E R T T Q
UniRef90_Q2IYE5 A F F T A V I G R A E L D E D P V A R A E N I D R I Y A A M N E I A P S R T T A
UniRef90_U3HQM7 L L F C E K V L S D E R F S S N S L R S D N R Q A L R A I V E A F G K L S A D
UniRef90_UPI000300C155 Q R L M T V M G R E D V F S N N Q G R A D H V K Y I D A T I E E W T K K H P I K
UniRef90_A1WEM8 R L M Q C I G G N D P A L A S N A G R I E R V A E I D M A I A A W S A S R S V D
UniRef90_G7DN66 R C A Q A I G A P H P D Y A T A P A R S K N R D A L N A E I E K R T V T K S T E
UniRef90_UPI000372980F A L L I D G M G L A D D A L P H Q L D S S Q W P A M K V K F A E V F K S K T R D
UniRef90_F4GNQ9 L S G H P Q Y A Q E D R F M D P A Q R G D N I G A M Y E V L A S I V A K R S T A
UniRef90_UPI00035927A0 K D L L K G L G L E G S G T S Q S D D Q D G M Q R L F S K I F A T K T S E
UniRef90_W0IRN5 A R F C T A I G C P D L A G D E R F R N R D D A L D R L V S E A L I Q A D T A E
UniRef90_G8MC30 E I C K V I W L D H P D Y K T P N A R L P H L K M Q F D E I E R W T M S K T K Q
UniRef90_B4JA8 E I L K E R L D P D L S Q F G D E H Q M H G K G L L T D I F L T K N Q D
UniRef90_U2A9M8 E R V M R L V G R P E W F A S G V E R A Q H A D L L D E A V G G W I A Q R T R D
UniRef90_M4Z3W5 A A N C R A I D R P D R E A D N A S R V T H A T E L N A I F A W C A S H D L E
UniRef90_UPI00037E36AB A S F C E V V L E P P A L A D D P R Y A S N V L R H E A R A E D V F A T L T S G
UniRef90_Q39GK7 V L I G T R D W L D D P R F A D N R A R S A N R A A L R T L L E T A L A G H D G A
UniRef90_F4GSQ3 A L Q K P E L L E D D R F A T A S L R R D H N L G A L K A I F E D W L A A P S R D
UniRef90_E6PWF2 K R L M R A I G R I D D M A E D N Q G R M Q R V G E I D A A I Q T W A G Q H A A A
UniRef90_C3AJA0 K F C L L L G R Q E E R Y K T N A S R L Q H K D E L V N M I A I E M K K K K E
UniRef90_A0A023NXD2 K T G L L E R L R D D P R Y D T V R K R A E H Y N D V P Q L H E A L S A R S A L
UniRef90_I7CTU0 A L N R E E W I D D E R F A T V R D R T E N R G E L D S R L D E I F A E K T E
UniRef90_HOTJL6 A S G R T D L R D D P R F R T F A G R A A N I D L V Y A E L A D E I F L T R T T A
UniRef90_UPI0003B60D1B R L M A A L G R D D L G E A P D L A H N A R V D E L D A A L T A W T V Q R P V A
UniRef90_D4X7X2 M A Q V L E A P G D L A A D A R Y A T N A D R L Q N R Q A L R D E L S V D Q N A A
UniRef90_UPI00047BDC29 K A F C E K V L L Q P R F D S N A K R N E H R A A L R E I I V Q A F G A L T S E
UniRef90_D9X214 E R V M R L V G R P E W F A T G A E R A R H A D V L D E A V G S W T A R T R T
UniRef90_UPI0003713FCC R L A A C M D R P P R F A T H A A R G E H Q D E I D A I V G E W T A R D A D
UniRef90_G7DJV5 A T S R D D L R A D P K F A T F A G R A A N I D V V Y A E L A R I F E T R T A

UniRef90_A0A024PL64 Y W K E Q C R Q K Q I P F G P I Q S L E E V R K D P Q L H A R R M F I S C P H P
UniRef90_U5VY27 D L L G L L H A N G V P A G R I F R A K D M F G D P H F A R E A I V T V P H P
UniRef90_Q143N7 Y W Q Q R M R A A S D P C C S E V V R N A L G E A L R S D A E A R E R K L V S R L E T H P
UniRef90_X09E4 H W M K L L E A G S D V P C C S G P V N S A L E D V F V D P Q Q V V V H N G M T L V L T H P
UniRef90_UPI00046A2106 D L L Q A C E D H N V P A G S P I N S M E D M F N D D P Q Q V K A R G M Q I E L D G G V
UniRef90_B8KY78 E V I Q R L R D V R V P A T G P I Y S L T A D M M D D P H H Y K A R G M F V E I A D G K
UniRef90_D6ZD89 E W A A V F E G S D A C A T P V L V F E E A S R H H H M A A R G N L V E L A E G
UniRef90_H6BTB3 Q W L D V F E G S G M P Y A A I N D V K D T L D H D H T K A R G M V T E I A E H P
UniRef90_X4ZAB9 P L L A A L L E A E G L P S A G P I N T L A D V L Q D D P Q S V L R H T E M R F D V S H P
UniRef90_D7A6Q8 E A M E L L N E L D I P C G G P V L S M K E I A E D D P Q S L Y A T G T L V E V D H P
UniRef90_UPI0003B75140 H W L A R C D E V N V W A G P V H D Y A G V A N D P H V V E T G M L V E Q D T V
UniRef90_UPI00047E9BA4 Y W L T R L N Q Y G V P C A G P V L S L K E V F E D P H Y Q S Q Q L A M D V P H G
UniRef90_Q5P032 H T R A Q I F G G K V P F A P V V Y D S A D I F Q D P Y F Q I R E M L P Q V E Q P
UniRef90_E2ZCY7 E A V T L L N D A G V P A A P I N G L K R V T E D E H I A A R E M F V S L P H P
UniRef90_T5KBE9 Y W L D R L L A A H D I P H G P L N T M G D L F D D E H I A A S M G L V E I E G P
UniRef90_X5LPJ8 E W L D L F A E L E I P A A P M L T P D A L F E N E H H I N A V G L F E T V D T P
UniRef90_A5V8R1 E L V A R L D A S D I P N S K A Y T A A D C A A D P Q Y R A R G M V R E V P D V
UniRef90_A0A038GV27 H W I A V L L N E A R G V P C G G T V M N L D E V I Y R D P S V L H Q E M V L E V E H P
UniRef90_X0N0A4 E V L A R L T A R D V P C G P I L S T K E I I E D P S S L A A D G M V V E V E H P
UniRef90_V8QPI7 E W T Q L L T H A D I P F S K V N S T A D L I A D P H L A S C G F W Q E T D H P
UniRef90_A0YBL8 D W L A I L D D A G V P C A P V L T R K Q M M T H P Q Q V Q S N K L I E T E H P
UniRef90_E8TTZ0 Q L L Q R L D D G G I A N A P V L A E P D E V W T H P Q Q V Q A R R R R W E V A T H P
UniRef90_A0A011QFH5 A V L H A L J A A A E V P A A R V Y S A A D L V A D P Q Y L A R Q M T E T A T L P
UniRef90_UPI0003809A86 T W L E R F D A A A A P A G P Y Q D V G Q A L E H P Q S R A A V R M V V D V D G T
UniRef90_UPI00026281C6 E V V K A F E A A A A V A P I Y T A A D V M S D P Q Q F A A L G T I A T V D D V
UniRef90_E3HQZ7 Q V L A R L D R G G I A N S A L N T M H E V W D H P Q Q F A A R G R W R D V A T P
UniRef90_Q0K0E4 T V E Q L A E K H S V P L G R V N D L A G F F A D P Q Q V R H N G T Y S D D D P
UniRef90_A0A017HE91 A V L A A L L E A A T V P A G P L N R V D Q V F A D D P Q Q V V A R G L R I A P D G V
UniRef90_W4LBT3 E W E L L L S I D V P H T A F A P L R Q I A E Q P H L K A S V G L F Q E I D H P
UniRef90_B4REL6 Y W L E R L A Q V R I P A A P V N D L A H A F A D E Q A I A R N M R V R P L P
UniRef90_UPI0003F9A242 E L L D L L H E N G I P A G L T Y R A K D M L A D P H Y I R A R E A I I R M A H P
UniRef90_G6E7Z0 D A L A T L A E L S I P A G P V L S P R Q A L D H P Q V A A S N M L V P I Q M H
UniRef90_UPI000468354A H W S A L L E N T D A C A P V L S P A E A A F E E H H K S R R L F S D D G L
UniRef90_I1ER94 T V I L R C A E G D V P C G P I C S I E D I F E E E Q F W A R D T L V R V P D V
UniRef90_I3X184 T L L A K L E A A G V P G G P I N T V A D V F A D P Q I A H R Q L R M E T P H R
UniRef90_U2WS90 Y W L E K L E D S R I P C A R V N N V S Q A M S P Q Q L I A R N M V V D L K H P
UniRef90_UPI0003654AD4 E W S V V F A G S D A C V A P V L S P A E A P G H P H N R A R N A F V T V G G V
UniRef90_L1KV51 H W A Q V L P A A G V P A G P V N S L D E A F A H A E R L G L Q A V V D I A G V
UniRef90_I7DQ76 H W L D R L Q R A G V P T G P I Q S V A E V M R D D E Y I L A R N M L V D V C H P
UniRef90_R4T197 E W T E V C A K H S I P M A P V L E L D H A Q D D E Y I V R D G H L L D L V E H P
UniRef90_F4CUM3 E V L A E F E T A E G A I A P A Y T A A D I V K D P Q Y L A R E T I V R V P H V
UniRef90_Q0VRD8 D I L A I L E A A R V P S G P I Y S V A D M M E D P H F Q A R G M L F V E I N G K
UniRef90_S2YQL3 D V L K A L E A A G V P G G P I Y T A A D I L D D P H F R A R G M H E R H P E V
UniRef90_A3U250 E L L A Q C E A K G I P A G P I N D M A E V F E D P Q Q V I A R G M R I D P E V
UniRef90_Q8YB81 E W I G R I H P R G V P V G A I N D I A R T L D E P Q Q V K A R N M L V Q E I P H P
UniRef90_UPI00031E65B8 E V L Q A L D G A G V P A G R I Y T V A D I A A D P H Y S A R G M L Q E I D G S
UniRef90_E3JAV4 E W C A T F D G T S V C F A P V L D P G E A P D H P H I R H R G T F T E V A G V
UniRef90_D0J5E4 T V M D E L G A A R V P A G K V Y T A K D I A E D P H Y R A R E M L T Q R T R
UniRef90_E3I0H1 D W I A A L E A A G V P C G P I N D V A Q V F A Q E Q I R H R G M S V R M K H P
UniRef90_H6R674 E W T E I F I G T D A C V T P V L T F S E A A E N D H I K A R E A L V D L E N I
UniRef90_K4KY65 E W T Q A F E G T D A C V T P V L D M A E A A V H P H N H A R C A Y V E A G G I
UniRef90_UPI00037D07C2 V W V E R L L K A G V P A G Q V A G V D E V L A D P H T L A R D M V I T A G Q V
UniRef90_UPI00046AC9C5 D I L E A L R K V K V P A G P I N T I E E A L T S D Q A Q A R G T V R Q M G G T
UniRef90_UPI00026270D9 H W I E R L R E A G V P C G P V H T V P E M L D D A Q Q Y A A R E M F V E R F G H
UniRef90_G9ZW60 D A F A K L D S V G V P A G P V L A L D E V L S D E H Y Q A R G M V Q R F D H P
UniRef90_L2EJ93 D W L A I C E R L Q I P V A R V N D L H E L V D D P H L R A T G F F D Q I E D P
UniRef90_UPI000313F4EF Q W C E L A T R H G F P C G P I N T I D R V F E D A H I R A R G L R V E I V D S P
UniRef90_Q21R36 Q W V A L L E D K A V P C G P I N D L G O A F A D A Q V Q A R G L V V H I A N I
UniRef90_UPI000455F9E4 Y W I E R F T G L G V P F G P I N N V E Q T F A H P Q A V A R G G C A V E V N H P
UniRef90_Q46S66 E V M N A L N E V D V P C G P L S M K D L I E D P Q S Y R A R A L G T L A E V D D P
UniRef90_N0CNT6 E V L N G F E K A E A V A P H D V R E V M E D P Q M Y R A L G T L A E V D D P
UniRef90_E4PGW6 E W Q E I F A D E D A C V E P V L T I S E A A E H P Q L K A R D M V I G V D R G
UniRef90_V4REI4 H W L E V L R E A R V P V G P I N R V T D E V A Q D D E E L R R R G V L Y N L A D G
UniRef90_E4PJ4 H W L A R L E A E Q V P C A P V L T R T Q V L D H P Q V L A N D L S H Y D H P
UniRef90_UPI00046FCAF0 E A I K E M E A V R L P C G P V L S P Q E V L D D P H L K A M E L L Q E V E Y P
UniRef90_Q2IYE5 E W E L L L R L D V P H T S F A R L S E V A E Q E H L K A V D Y F A A I D H P
UniRef90_U3HQM7 E V I T R L D A A P I A N A H V N D M A G V A H P Q L K A R Q R W S E V G S P
UniRef90_UPI000300C155 E A Q R I L D E A S V P V G P I Y S I K E I V E D E Q Y K A R E M L Q E I E L P
UniRef90_A1WEM8 E V L D R L A R A G V P A G R V Y T A K D I A E D P H Y R A R E M I L Q Q T T R
UniRef90_G7DN66 T W V R E F N D A G V P C G P I Y A A I D Q M F E D A Q V K H L G L A Q D V P H I
UniRef90_UPI000372980F E W T A I F D G T D A C A S P V L D W N E A T E N K H L V A R Q T L I E L D G V
UniRef90_F4GNQ9 E W V E L L R S A D I P A A P V A T L E D L L E D E H L K A T G F F E V H E P
UniRef90_UPI00035927A0 E W E V F K D L D A C V T P V L T P E E A A D H P H N K E R G L F I R G T V P
UniRef90_W0IRN5 S W E Q R L V H A E I P A G R V A T I D Q V V T N P H T L A R E M I M P M E T V
UniRef90_G8MC30 Q A M E I L N K H D I P C G P I L S M K E I A E E P S L R K E T G T V V E V D H P
UniRef90_B4JAJ8 E W S A L F N E D V D A C V Y P V L S M S K A Q Q H R H N A R E S F V S V A D A
UniRef90_U2A9M8 E V V A F E E A Q A A V A P I Y D A Q D I V D D P Q F R A L G T I H E I E D P
UniRef90_M4Z3W5 Y V L A R F T A A K G T I A P I Y A A I D Q I A A D P Q Q A K A R E M L T R V P D V
UniRef90_UPI00037E36AB A V M A R L D R A A K I A N A R L N E M K D V A H P Q L H A R G R F R S V M T V
UniRef90_Q39GK7 A L A E Q L M R R G V P C A P V L G L D A A L D H P H V A H R Q M K V E L G R H
UniRef90_F4GSQ3 A A L D V L E Q R R I P C A P V L T I V N E A M A H P H L R K R G T V R Q V D D K
UniRef90_E6PWF2 D I V Q T M R A A A V P A S R I Y S I K D I V Q D P Q F Q A R G M I Q R A D G T
UniRef90_C3AJA0 E W K Q L L D E A G I P N G P L L N V K E A L E T E Q A V A R D M T V H M K H P
UniRef90_A0A023NXD2 E W E A L F G D E V P S A A A R R I E D M F E D P Q V L A E G M I D T F R H P
UniRef90_I7CTU0 E W V K H L T Q K Y D V P C T P V N D V E E V V N D P H I D U A H D M I V E M D H P
UniRef90_HOTJL6 E W T E L L A K A D I P V M P M H T L E S V L Q D P H L V A T D F F P V V E H P
UniRef90_UPI0003B60D1B E V A T A T L Q A V S V P V A G R I Y T V Q D L A E D P H Y R A R G M I E R I V T Y
UniRef90_D4X7X2 Q L A D R L R A G V P A A A V Q T V D E A L A H P H T R A R G M V M E H G D Y
UniRef90_UPI00047BDC29 Q V V Q R L D E A Q I A N A R V N G M A E V W A H P Q L A A R E R E T E V G S P
UniRef90_D9X214 D V I A A F E K A E A V A P V Q T V R D V M A D P Q Y R A L N T I T V D D P
UniRef90_UPI0003713FCC D L L A L L D E A A V P A G L V H T V A D I F A D P M F T E R E M L L P V E D P
UniRef90_G7DJV5 E W I D L L T K A D V P V M P M H D L A S I L H D E H L E A T G F F P V V N H P

UniRef90_A0A024PL64 E M I G S P L N L S R T P V A L H H P P E A G E H T E G I L R D L L
UniRef90_U5VY27 P M Q N A T P R L S E T P G A V R T A P A L G E H N T E I Y G G L I G
UniRef90_Q143N7 D L G S L P F R F S E T P M E Q P S P A P R L G E H S R D I L T H V L G
UniRef90_X0R9E4 R H V N N P I H L G S T P A Q P R G P P D A G E H T D E V L A E Y
UniRef90_UPI00046A2106 P G I N S P F K F S N A E L A H H R P P K L G E D
UniRef90_B8KY78 P L K L Q A P P K L S Q T P G A T W P G G R L G S H N D E V L G D L L
UniRef90_D6ZD89 V L P Q A A P R F S R T P G A L A G P P P
UniRef90_H6BTB3 A L V S H P V K Y S G S V T G V R P P P T L G E H T D Q V L T E V L G
UniRef90_X4ZAB9 P Q V R S P I R F R N S S L R L D Q P P T L G G Q H T D E E I L A E V L G
UniRef90_D7A6Q8 T R V G N P I K L S D N D V P V E R S P L L G A D T D E E I L A E V L G
UniRef90_UPI0003B75140 R T V R P P L R M S A T P P T I R R A P L L G A D T D E S I L A D L L
UniRef90_UPI00047E9BA4 A H G P V R M L D L P G S P R A A P A L G A D T D E E I L K Q L L
UniRef90_Q5P032 T V P G V P A K L T R T P G G V Q R A P L L G E H T D D I L D G F
UniRef90_E2ZCY7 V I G G N P V K L M D T K V Q I S R P P A L G Q D T E D V L S A L L G
UniRef90_T5KBE9 R V P V P S I R F Q R S R P E L R Y A P A L G A D T E E I L L
UniRef90_X5LPJ8 R M P G V P T W F S R T P G H V A G A P E L G A D T D E E I L A E L L
UniRef90_A5V8R1 L Q A G M V P H V P E S P G T V R W A P D L G E H T D E E V L G E L L G
UniRef90_A0A038GV27 R M T G F P I K F R N E P C E I R H A P D L G D N T E E I L G E L L
UniRef90_X0N0A4 T T V G S P L K L S D S P V E I H R S P L L G E H N A E I Y G A E L G
UniRef90_V8QPI7 I Q A G I P V R F S G T P G E I R R A P M L G E H T K E I V L Q E
UniRef90_A0YBL8 V Q T R P A A R F S V T V P E L R G A P L H G Q H N A E I F A E
UniRef90_E8TTZ0 Q G A I P P A T L S G T E A A M G S V P A L G E H T D A L L K E L L
UniRef90_A0A011QFH5 D G P G I V P K L S E T P G S T W L G P A L G E H T E E T L Q R L L
UniRef90_UPI0003809A86 T R A L G L P L L G T T N I A A G A P P R V L G Q D T A A V L R D F
UniRef90_UPI00026281C6 K M Q N V L F R L S E T P G R I T S A G A L G A H T E E V L G R Y
UniRef90_E3HQZ7 G G P I P P A T L S D A S A A M G A V P A L G Q H T A A I L A E L L G
UniRef90_Q0K0E4 R Q L R S P I R L A L T P A S R R R P P K L G E D T S A L L A G L
UniRef90_A0A017HE91 P G L R S P M R F S D S P L V L R R A P K L G E H T G A
UniRef90_W4LBT3 L Q A R P P A R F S A S P A S V H R A P Q L G Q H T R E V L R E V L A G
UniRef90_B4REL6 G Q P G N P V K L S E T A A E Y T P P R L G E H T A S V L E T L A G
UniRef90_UPI0003F9A242 P M Q N V P I K L S D T P G V R A G P S L G E H N P E V Y G A L L G
UniRef90_G6E7Z0 D M A A P A V G L S E T P G S I R P P R A G E H S R E I L R E
UniRef90_UPI000468354A S Q P M P V P R F A E A R T L P S P P P K P G A D T R Q V L
UniRef90_I1ER94 A V Q G T I P K L S A T P G E I R H G P L A A H N R E I Y Q S E L G
UniRef90_I3X184 G G V R T P V R F S G A S L A L R G V P R L G E H T A E V L A E
UniRef90_U2WS90 L V P G N P I K L S E T E D S Y S P P L L G A H N D E V L K E W L
UniRef90_UPI0003654AD4 P Q P A P A P R F G R T P A A T P A E A T P A G V E I L A N W
UniRef90_L1KV51 R Q V A H P I H L S G S P A Q Y R P P P R L G E H T D D L L
UniRef90_I7DQ76 E G T G N P V K F S A L P D E T T R P A L D E H T R A Q I L N W L G
UniRef90_R4T197 R T I G I P V K F S A T P G S V R R A P L P G Q D T D E V L R E L L
UniRef90_F4CUM3 L M Q N V V P V L S D T P G K V R H A G A P G S S N D E V Y R E L Q L G
UniRef90_Q0VRD8 P L K V P A P R L A D T P G K T R W P G E V G E H N H S V L R D E L G
UniRef90_S2YQL3 V F P G V V P R F E D R P G S T R W G P D L G E H T D D V L
UniRef90_A3U250 P G V R G P F R F S E A E L K L E R A P K L G
UniRef90_Q8YB81 V T V G S P F K L S G T P V E Y R A A P M L G E H T D T L L Q Q L
UniRef90_UPI00031E65B8 T L T I P V P K L S A T P G A H R R A P S L G E H T D K V L R E
UniRef90_E3JAV4 V Q P A P A P R F S R T P A V A G P P P A P G Q H T D E A L S D W
UniRef90_D0J5E4 D V P G V V P K L S L T P G T V R S A P H V G D D T D A V L A E
UniRef90_E310H1 A G P V N P L Q L S E T P V A Y D A P P L L G A D T E R T L L D
UniRef90_H6R674 T Q H A P A P R F S R
UniRef90_K4KY65 N Q P G V A P K F S G H Q I Y V S G S P S E G A D T R A I L M A
UniRef90_UPI00037D07C2 R L L G N P L K L S A T P V A Y H P P P H L D H R A E I
UniRef90_UPI00046AC9C5 V Q L L G N P K F S L T P V K Y R P P P R F G Q D T D D V F A T W L G
UniRef90_UPI00026270D9 R R V V N T P L I D G A P R A R R K A P G I G Q D T V D L L T E L
UniRef90_G9ZW60 V L G R N P L R F E G W E P L G R P P L L G E H T E A V L S Q R L G
UniRef90_L2EJ93 R F P G A P V R F D G E R A R A A V P P R L G E H T R E I L A
UniRef90_UPI000313F4EF R L V A S P M R F S D T P I R Y D P P P E L G Q D T E A V L A E L L
UniRef90_Q21R36 V T V A S P L R L T A T P P V L R R P P S L G Q H T E E V L A E L L
UniRef90_UPI000455F9E4 R M V A P P V R Y N G R R M P V R P P P W H S E H T A E V L G E L L
UniRef90_Q46S66 V Q L G S P I A L S D S P V G K V E R A P L R P G A D T E E I L E W L G
UniRef90_N0CNT6 R M Q N V L F R L S G T P G G V R W A G R P G A D T E E I L A G L
UniRef90_E4PGW6 P Q I G F P I K F E K T P S E T S R G K M L G A D N D R F L
UniRef90_V4REI4 D R S L P Q V R F D G A A V P R A A P P G L G Q H T D E I L A D L L G
UniRef90_E4PJJ4 R Q A R A P S R F S A A P E Q H W Q A P R L G E H T G E I L A E
UniRef90_UPI00046FCAF0 G L S K P P V K M S K T E V S I K R A P L L G E H T E E I L L D L
UniRef90_Q2IYE5 R Q A R P A T K F S E E P S L H R P P R L G E H S R E V L L E
UniRef90_U3HQM7 A G E L P A P L R N S A F S P R M D P I P A L G Q H T D A L L G E L
UniRef90_UPI000300C155 L V P G I V P K L S E T P G E T W S G P R L G E H N E E I Y T E F
UniRef90_A1WEM8 A V P G I V P K L L G T P G S V R A A P G L G D D T D A V L G E
UniRef90_G7DN66 R L V G Q P V T L S R T P S K V A R P P E F G E Q T D E I L K E F
UniRef90_UPI000372980F T Q P A V A P R F S R T V P D T P A P A
UniRef90_F4GNQ9 T M P G V P T R F S R T P G G T E R P A P N M N Q D A A I R A E
UniRef90_UPI00035927A0 L Q G A P A P R L S R T D G T E R A L P D C G A N T V D V L L E
UniRef90_W01RN5 R L L G N P L K M S A T P V R F R A P P H V D Q D K D A I L R E L
UniRef90_G8MC30 V R V G N P I K L S D S P T D V R S P L L G E H T D E V M A E L
UniRef90_B4JAJ8 W A P C P A P R L S R T P G Q I R
UniRef90_U2A9M8 L M Q G P L F R M S E N D G V I R T G R A H G A D T D A V L G E L
UniRef90_M4Z3W5 A M S N V V P R F S N D P A T L R A A G D V G Q D N R E I Y Q G W L G
UniRef90_UPI00037E36AB A G E V P A L L P P A L P P R M D P V P A V G Q H T E A I L A E L
UniRef90_Q39GK7 R G I A S P I K L G R T P A T Y R R P P A L N E H A A R V F A D
UniRef90_F4GSQ3 I T P G F P V R F S R T P S T E L H A D V L G A H N H E I L R E F L
UniRef90_E6PWF2 P V P T P A P R F S L T P G G T R W G P A L G A H N D G V L H E L L
UniRef90_C3AJA0 T I V G S P L K L S R T P V Q M Q K P P L H G E H T E K I L R K L
UniRef90_A0A023NXD2 R G V A H P I K F G R T P G P Q A A A P A L N G Q D G A E I L T
UniRef90_I7CTU0 E H P A N P V N F S L E T H R A P H L G E H S A E I L S D L
UniRef90_HOTJL6 T G P I R S M R V S A T A E P R P A P R M N E H G E A I L R E L
UniRef90_UPI0003B60D1B T V P G I V P K L S A T P G A T R T A P G L G E H D E T L L G R R P G
UniRef90_D4X7X2 K G V G S P I K L S R T P G A T I R K P P A L
UniRef90_UPI00047BDC29 V G P I P P G V H S S F E Y R M D A I P S V G E H T M A I L R E L
UniRef90_D9X214 R M Q N V L F R L S A T P G A T R W A G R P G A D T D E V L T E L
UniRef90_UPI0003713FCC V M P G V V P R L L A T P G A T R W G P Q R P G A H N D E V L G A L D
UniRef90_G7DJV5 T G P I R S M K W S E T E A P V R L A P R L N E H G A E I L R E V

UniRef90_V9WU01
UniRef90_D6KDH3
UniRef90_U2VWV09
UniRef90_UPI00036F9220
UniRef90_Q82NF2
UniRef90_UPI0002DAA0BC
UniRef90_D9VIF1
UniRef90_L8EDH6
UniRef90_UPI0002EB3BFF
UniRef90_Q3INV6
UniRef90_QOCTJ2
UniRef90_G8ASK5
UniRef90_B8G8H6
UniRef90_E8TRY2
UniRef90_E0XS60
UniRef90_UPI0004787E3F
UniRef90_I2N7Q7
UniRef90_G7D983
UniRef90_A0R5S4
UniRef90_D6V8R9
UniRef90_UPI00037362D8
UniRef90_E0DPN6
UniRef90_UPI00035E1FD7
UniRef90_G2NU26
UniRef90_UPI0002D39CE7
UniRef90_F5YRV4
UniRef90_S3BWU5
UniRef90_I0H9W3
UniRef90_A0QTZ7
UniRef90_A4FC53
UniRef90_N1PGG9
UniRef90_UPI0003F88D73
UniRef90_A1VMJ0
UniRef90_UPI0003614F7D
UniRef90_E8TWF7
UniRef90_A0A059E5A7
UniRef90_E9J8N5
UniRef90_D7B5J2
UniRef90_UPI000372FCE9
UniRef90_M0ASI9
UniRef90_Q11Z73
UniRef90_B7RZD3
UniRef90_B3RBQ2
UniRef90_K8PT74
UniRef90_R9P3G9
UniRef90_D5RN74
UniRef90_UPI000465D40B
UniRef90_I0RS16
UniRef90_B1HY54
UniRef90_D0D621
UniRef90_H6SSJ8
UniRef90_K9GT67
UniRef90_UPI0003ACDB6B
UniRef90_M0MPH4
UniRef90_B1M7T9
UniRef90_B7RMT6
UniRef90_B8IFZ2
UniRef90_H0JC48
UniRef90_C5CK44
UniRef90_L0IUQ9
UniRef90_Q0K9T7
UniRef90_V8QZ54
UniRef90_H0QU97
UniRef90_D9XA97
UniRef90_F7QR04
UniRef90_A9I5Y3
UniRef90_I9W593
UniRef90_M1T5B5
UniRef90_K6E1C4
UniRef90_G8MGT3
UniRef90_Q1LGP7
UniRef90_K3WG76
UniRef90_E8TW12
UniRef90_UPI0003670BE8
UniRef90_UPI0004793939
UniRef90_M7CXN4
UniRef90_W3RJK3
UniRef90_Q0FJQ9
UniRef90_W5TGH3
UniRef90_A0A031HT06
UniRef90_A1WC68
UniRef90_UPI00036D7F1F
UniRef90_H1V168
UniRef90_D8I6D1
UniRef90_M0CMD3
UniRef90_V8QWN2
UniRef90_UPI0002D63291
UniRef90_UPI0003B7B596
UniRef90_W8HAX5
UniRef90_F8GQI7
UniRef90_W0Z8X2
UniRef90_E0XT92

UniRef90_V9WU01
UniRef90_D6KDH3
UniRef90_U2WV09
UniRef90_UPI00036F9220
UniRef90_Q82NF2
UniRef90_UPI0002DAA0BC
UniRef90_D9VIF1
UniRef90_L8EDH6
UniRef90_UPI0002EB3BFF
UniRef90_Q3INV6
UniRef90_QOCTJ2
UniRef90_G8ASK5
UniRef90_B8G8H6
UniRef90_E8TRY2
UniRef90_E0XS60
UniRef90_UPI0004787E3F
UniRef90_I2N7Q7
UniRef90_G7D983
UniRef90_A0R5S4
UniRef90_D6V8R9
UniRef90_UPI00037362D8
UniRef90_E0DPN6
UniRef90_UPI00035E1FD7
UniRef90_G2NU26
UniRef90_UPI0002D39CE7
UniRef90_F5YRV4
UniRef90_S3BWU5
UniRef90_I0H9W3
UniRef90_A0QTZ7
UniRef90_A4FC53
UniRef90_N1PGG9
UniRef90_UPI0003F88D73
UniRef90_A1VMJ0
UniRef90_UPI0003614F7D
UniRef90_E8TWF7
UniRef90_A0A059E5A7
UniRef90_E9J8N5
UniRef90_D7B5J2
UniRef90_UPI000372FCE9
UniRef90_M0ASI9
UniRef90_Q11Z73
UniRef90_B7RZD3
UniRef90_B3RBQ2
UniRef90_K8PT74
UniRef90_R9P3G9
UniRef90_D5RN74
UniRef90_UPI000465D40B
UniRef90_I0RS16
UniRef90_B1HY54
UniRef90_D0D621
UniRef90_H6SSJ8
UniRef90_K9GT67
UniRef90_UPI0003ACDB6B
UniRef90_M0MPT4
UniRef90_B1M7T9
UniRef90_B7RMT6
UniRef90_B8IFZ2
UniRef90_H0JC48
UniRef90_C5CK44
UniRef90_L0IUQ9
UniRef90_Q0K9T7
UniRef90_V8QZ54
UniRef90_H0QU97
UniRef90_D9XA97
UniRef90_F7QR04
UniRef90_A9I5Y3
UniRef90_I9W593
UniRef90_M1T5B5
UniRef90_K6E1C4
UniRef90_G8MGT3
UniRef90_Q1LGP7
UniRef90_K3WG76
UniRef90_E8TW12
UniRef90_UPI0003670BE8
UniRef90_UPI0004793939
UniRef90_M7CXN4
UniRef90_W3RJK3
UniRef90_Q0FJQ9
UniRef90_W5TGH3
UniRef90_A0A031HT06
UniRef90_A1WC68
UniRef90_UPI00036D7F1F
UniRef90_H1V168
UniRef90_D8I6D1
UniRef90_M0CMD3
UniRef90_V8QWN2
UniRef90_UPI0002D63291
UniRef90_UPI0003B7B596
UniRef90_W8HAX5
UniRef90_F8GQI7
UniRef90_W0Z8X2
UniRef90_E0XT92

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

UniRef90_V9WU01 P N A M A R L R L G L S Y E Q V Q A I I N P 100 I Y C G A F G G F Q R G G P Y A E R P A
UniRef90_D6KDH3 P K A M A R L R L G L S Y A D A V R T K I N P N R G I I Y C C C A T H G F G Q N G G Y Y A D R K P A
UniRef90_U2WV09 P K A M E K L G L D Y A Q A L K K A L N P P R D I I V Y C C C A S T Y T G F G S K E G P Y S A G H K G A
UniRef90_UPI00036F9220 V G D L K R Y G L D Y A A L V A L N P P R L V Y A F A G T G F R S Q D S G D R A A G N A G A
UniRef90_Q82NF2 P G A L A R L G L A H A D V L A A R N P P R L V Y A H A Q G F R S D S G D R A A G N A G A
UniRef90_UPI0002DAA0BC A G V M E R M G F G Y E R L L A E I L N P I I V Y C A F A G T G F G M T G G P L A Y E K P G
UniRef90_D9VIF1 P G V A R R L R I R Y D D L K L L N P P A I V Y C C C A S T Y T G F G M T G G P R A A G E K P G
UniRef90_L8EDH6 P G V A E R L R L G I G P D A C L E R N P P R L V Y G R M T G T G W G Q Q G G P L A A T A G A
UniRef90_UPI0002EB3BFF P G A V E R L R L G M G P A D A L S E R N P P R L V Y H V S L T S T G Y G R Q S G G P Y A E N D R A G
UniRef90_Q3INV6 P G V A E R L R L G V D Y G T L A S E R N Q P P R L V Y C C C A S T Y T G Y G Q S G P Y A E N D R A G
UniRef90_QOCTJ2 P G S L K K Y N M D Y E T L L R E I N P P K L I Y A S I T S T G Y G Q T G G P Y S N R A G G
UniRef90_G8ASK5 P G V A K R L G V D Y E S L L S Q S V N P P R L I Y L S I S I S T G Y G E T G P Y V Q R R S G
UniRef90_B8G8H6 P G T M E R E W G L S W P T L L A S V N P P R L I M L R V I S I S T G Y G Q T G P Y Y R R S G
UniRef90_E8TRY2 P G V P E R L R L G I S F G Q L T E L H P R L I Y C S V V T G Y G Q Q G P L K A K A G
UniRef90_E0XS60 P G A M E R M G F G W E V L Q K L N P P R M I M A S V K S G F G P Y Y S E D C K V
UniRef90_UPI0004787E3F P G V M D K L G L G Y D V L K E L N P R L I Y Y A A C C C A S T Y T G F G S Y G G R P Y S E D C K V
UniRef90_I2N7Q7 P G V T E R L R L G L G P G P C L E R N P P R L V Y G R M T G T G W G Q Q D G G P L A Q A P G
UniRef90_G7D983 P G T L E Q M G L S P E E L L R L E P P K L V I V R V I S G F G W G Q T G P Y H R R P P G
UniRef90_A0R5S4 P G T L E K W G L D P E E L L A A N P P K L V V V R V I S G F G W G Q T G P Y R R S P G
UniRef90_D6V8R9 P G V P K R L R L G L G Y D D L R K H N P R L V Y C S V L N T S G Y G Q Q T G P Y S E K G A G
UniRef90_UPI00037362D8 P G T L D K L G L G Y E A L S A V N P P R L V Y V S N T S G F G Q Q D G G P Y R D R K P A
UniRef90_E0DPN6 P G V A T R L G L G Y E A L R K A S P P R L I Y V S I S I S T G F G Q E G P F K N P A
UniRef90_UPI00035E1FD7 P G A C E R M G L D H A S L A A L K P S I I V C C C D I I S G Y G A D G G P Y R D R K A
UniRef90_G2NU26 P G A V D R L G L A A R T L R P A H P P L I T C C C A S T Y T G F G N S G G P Y A T R K P A
UniRef90_UPI0002D39CE7 P G T F E R W G L S Y A E L L A E R N P P A L I M L R V I S I S T G F G Q Q G G P Y A T R P A
UniRef90_F5YRV4 P G A T A R L R L G L S A T D M A T R H P N V I A V E I D G Y G S G G G P L S H K R A
UniRef90_S3BWU5 A G T L A R W G W P D Y E T L R A S F A L V H C S R I T S G F G T D G G M G S R P P G
UniRef90_I0H9W3 P G G L A R F G L D D E T V L A S N P A G I I Y A S I S I S T G F G G A G M A S M P P G
UniRef90_A0QTZ7 P G T L E K W G L G P E R L D E S V N P D L V I T R I S I S A F G Q Q T G P M S E R P G
UniRef90_A4FC53 P G A A Q R L G I G G E E T L R S T R P D L I I C C C D I I S G Y G S I G G P H A S D Q K A
UniRef90_N1PGG9 P G A T Q R M G L G Y E E L S S K N H P P D L I V C C C D I I S G Y G S I G G P H A S D Q K A
UniRef90_UPI0003F88D73 P G V M D R L R L G L G F E A L S S I N P R L V Y C C C I S I S A Y G Q T G P R A K E G G
UniRef90_A1VMJ0 P G A L N K L R L G L G Y E E L S T R N P P K L I V C C C S I V I S A Y G H T G P D D S H R P G
UniRef90_UPI0003614F7D T G T M E R L G L G Y E E L K G I N P S I I F C C C S I S I S T G F G G T G P Y K N P
UniRef90_E8TWF7 A G V M E G L R L G L S Y E T L A A H N P R L V Y A A A L R G F G D P R P Y T H W P A
UniRef90_A0A059E5A7 T G T L K K Y G L D A A S L R L L N P P R L I Y C C C S I S I S T G F G G Q T G P Y A D R P P G
UniRef90_E9J8N5 P G K L N S F G L G Y E D V L A R V A P P R L I Y C C C S I S I S T G Y G S H G P Y A S R P G
UniRef90_D7B5J2 P G V L E R L R L G F G W K D L S A V N P P R L V Y C C C A V I S G F G S D G G P L S G R P A
UniRef90_UPI000372FCE9 P G V M E R V G L D Y E T L K A A N P P L I V Y S S I S I S T G F A R N R P N R Q G P A
UniRef90_M0ASI9 A G T M E K Y D L G Y E T L T E F N P E L I Y S S I S R G F G D P R E R Q G P S
UniRef90_Q11Z73 P A S I A R L R L G L D Y E S V S A I N P R I I W C C G V Y T G Y G E D G P Y A G R P A
UniRef90_B7RZD3 V G G A A K Y G L D Y T T L S E E N P P L V Y A A I R G F G Q Q D G P L A N R P P G
UniRef90_B3RBQ2 A G V M E R F G L G Y E R L L A E E N P P K L V Y A A A L R G F G D P R A Y A G W P A
UniRef90_K8PT74 P G T L K R F G L A Y E D V R A F N P K L V Y A S L L S G Y G Q T T S W R N R P A
UniRef90_R9P3G9 P G K L A S M G L G Y E D L K K V N P D I I Y A S L L S G Y G Q T G P S Y R D K A G
UniRef90_D5RN74 P G V L E A M G L S P E A L L A I N P A L V I V R I L L S G W G Q D G P Y R H K P
UniRef90_UPI000465D40B P T V M E R L R L G L G P D V C H A T N P R L T Y A R M T G W G Q Q E G P L A Q E A G
UniRef90_I0RS16 P G T L M R W N L G Y D L C Q R N P P G V I T V R V I S G Y G Q T G P D D A H K P P
UniRef90_B1HY54 P G V M Q R L G I G Y E A L L K E I N P R V I Y C C A I T G F G Q Q T G P Y S N R P P G
UniRef90_D0D621 V G G L A K Y G L D F A S L A Q V N P P L I Y C C S I T G F G Q Q D G P Y A H R A G
UniRef90_H6SSJ8 P G T L E K W G V G W E D L Q A L N P P R L V M L R V I S G Y G Q Q D G P Y A R D R P P
UniRef90_K9GT67 P G T M E K W G L G Y E D L R A V N P P R L V M L R V I S T G Y G Q D G P Y A Q R P P G
UniRef90_UPI0003ACDB6B P G A M D R L R L G L G P A Q V R A L N P G I V H A S L T S G Y G G S G P Y R D R P P G
UniRef90_M0MPH4 P G T M E S W N L N Y E T L R S E N N D G L V M I R L Y G Y G Q T G P K A S Q P G A
UniRef90_B1M7T9 P D A I L R L G Y G Y E R V L R A L K P D I V F C C G A L Y G F G A D G P Y A H K A
UniRef90_B7RMT6 P G V A E R L R L G L G F E A V R E I C Q V V Y C C S T S A Y G Q D G P L R Q R P A
UniRef90_B8IFZ2 P G A L D R M G F S W A R I S E N N P P G M I V A S V I K A G F S E G H H Y E D L K V
UniRef90_H0JC48 P G A L D R L G L G Y Q E L S A R N P P R L V Y C C S I S I S A Y G H T G P D A H R A G
UniRef90_C5CK44 P G A L D R M G I T W A H I Q E L N P R M I V A S I V K G F G P G K Y E H C K V Y
UniRef90_L0IUQ9 P G A I E R M G F G W E E L Q R I N P R L I F A S I K G F G D G P Y T H Y K A
UniRef90_Q0K9T7 V G T L E R W G M G Y D D V L S R F P R L I H C R V I T G F G A T G P L G G P A
UniRef90_V8QZ54 P K G M E R L K L A Y E D L A E V N P Q I V V V S L V G F S Q R G P R Y A R S P A
UniRef90_H0QU97 P G V L D R L G F S A A E M T H A L N P S L V V L S I T G F G H D G P E S R R S G A
UniRef90_D9XA97 P G A A G R L G L D A A T V T G R R P P G L I P C T I S G W G T T G P W A D R K A
UniRef90_F7QR04 P D V K S K L G I D Y E S M R A I N P R L V Y A S I S I S G F G Q Q D G P Y A K R P G
UniRef90_A9I5Y3 P G A A E R L R L G L S F E T L H A R H P R L I V C C D I S S G Y G Q Q D G P Y E R K K A
UniRef90_I9W593 P G A A A R L G L S Y E A L H A R Y P R L I V C C D I S S G Y G Q Q D G P Y R D K K A
UniRef90_M1T5B5 P G T M E R L G Y S W E V L H Q R Y P K L I F T S V S I S G F G Q T G P Y S K R P A
UniRef90_K6E1C4 P G I M K K L G I D Y E A L V R K R N P E I I F C C S V I S G F G Q T G P Y R D A A G
UniRef90_G8MGT3 P G A L D K L G L G Y E A L S A R N P P R L V Y C C S I S I S A Y G H T G P D A H R A G
UniRef90_Q1LGP7 P G A A D R L R L G L G F D A L H T R F P K L I V C C D I S I S G Y G D H G P Y R D K K A
UniRef90_K3WG76 P G R M E K W G L G P D F E A T N P A L V Y A R V F S G F G Q Q N G P Y A T R P P A
UniRef90_E8TW12 P Q A M A R L R L G L S Y E A F R E I N P R I V Y C C G A V I S G F G Q Q N G P Y S D R P A
UniRef90_UPI0003670BE8 V G A L K K F G L D Y E S L K A I N S K L I Y C C S I T G F G Q Q T G P Y A E R A G
UniRef90_UPI0004793939 P G V M T R L G V G Y E T L K K A I N E R L V Y C C S A I T G F G Q Q D G P M R D A P A
UniRef90_M7CXN4 P G V M D R L G I G Y E T L K A I N P A L I Y C C S I S I S T G Y G Q T G P Y R D R A G
UniRef90_W3RJK3 T G V A E R L R L G I D A G T L Q A A N E R L I Y C C S I S I S G F G R T G P L K N S P G
UniRef90_Q0FJQ9 P G V M A R H L G D W T L H G R F P Q M H Y A S V I S G Y G Q T G P D A K R P A
UniRef90_W5TGH3 P G A V E A L R L G L G T D E L T R R H P D I V M N I S D G Y G P G P L S H K R A
UniRef90_A0A031HT06 V G G L A K Y G L D Y A S L S T L N P R L V Y C C S I T G F G Q Q D G P Y A A R A G
UniRef90_A1WC68 T G G A E K L G L G Y E Q L K A I K P D L I Y C C A V A G F D T S Y A A K R P G
UniRef90_UPI00036D7F1F P G A M D R M G F S W E R I Q E L N P R I I F C C S V I K A G F S D N S P E A D V K V
UniRef90_H1V168 P G A T E R L R L G L G Y N T L R E T H P S L I V C C D I S I S G Y G S D G P Y R D K K A
UniRef90_D8I6D1 P S T L H K W G L D Y E T L A E A N P P G L V M V H I T S G Y G A T G P K S D R P P G
UniRef90_M0CDM3 P G T A E R L R L G V G Y D D L A A R S D G L V Y C C S I S I S A F G A T G P W S E R P G
UniRef90_V8QWN2 P G V M D R L R L G L G Y A D I K T L N P Q I V Y C C S I S I S A Y G Q S G P R S Q E G G
UniRef90_UPI0002D63291 P G T M E K L G L G Y E D V A T N P P R L V Y C C S I N T G F G T A E G A R L P A
UniRef90_UPI0003B7B596 A R Q R E N L R L G L S Y F D E L V A I N P R I V S C C S I N T G F G S D G P Y S E R P A
UniRef90_W8HAX5 P G T L E R W N I G P E Q L Q A A N P D I V L V R I S I S G Y G Q N G P Y A Q R A G
UniRef90_F8GQI7 S V V K E R L R L G L T Y E R L S A I N P R V I L A S I S I S G F G Q D G P Y C E R P A
UniRef90_W0Z8X2 P G T L A K L G I D F E R L R A V N P R M V L C S I T G F G P D G P Y A L P A
UniRef90_E0XT92 Q P T L E A M G I D Y D S L R A I K P D I I L T T V T A Y G N G P Y S E R V G

UniRef90_V9WU01 Y D N L I Q A A V G V P M V Q S R K T D G P P S Y V G T A I I A D R I V G M A T S
UniRef90_D6KDH3 Y D D L I Q A A S V G M P V L Q S R K A G P P D Y V A T A I I A D R V V G M A A T
UniRef90_U2WV09 L D D S I Q A A S V G V A M L M K M V L E G G P P R Y V A T A I I G D K T T G L N V I A N
UniRef90_UPI00036F9220 Y D F V F Q G M G G L V M S I T K D D L V E G G P P Q K A G I A I A D V M T G M V A T
UniRef90_Q82NF2 Y D E T V Q A A S G L V D V A N R A L G T P A Y L P T I I G D K V C A L T I V Y
UniRef90_UPI0002DAA0BC Q D I L A Q A L S G V M L R K C G D D E P L T Y A T S L C D F S A G M H L V
UniRef90_D9VIF1 Y D Y V L Q G Y A G W M T L T G E P G S P P A K S G L S L V D F S G G Y A A A
UniRef90_L8EDH6 H D I G Y T A V I T G A L G M T G P D G P P A A P A N L L G D Y A G G S L Y L V
UniRef90_UPI0002EB3BFF Y D M L V Q C E S G L M S V T G T E Q A P A K V G L S I A D I C A G M Y A Y
UniRef90_Q3INV6 H D L N Y V G I A G L L D M T R R G T D E A P R V P G Y Q V A D M A G G L Y A A
UniRef90_QOCTJ2 Y D V M V E A E M G L M H I T G S R D G P V K V G V A V T D L T T G L Y T S
UniRef90_G8ASK5 Q D L L L Q G M S G A M L S A G R E G E A P T P A G Q Y L V D A I T G Y T A F
UniRef90_B8G8H6 F A H I A H A F S G L S Y L A G F P E T P V L P G T A P L G D Y I A S L F G A
UniRef90_E8TRY2 Y D Q V L Q T M T G M C A M Q G K A G G P P E I L Y G S V V D Y Y A A L V A
UniRef90_EOX560 Y E N V A Q C A G G A A S T T G F L D G P P T V T S G A Q I G D S G T G L H L A V
UniRef90_UPI0004787E3F Y D I I S Q G M G G L M S I T G I P G G E P T R S G N A M G D I L G G M N M V
UniRef90_I2N7Q7 H D I N Y T A V A G A L A Q I G P A D G D P V V P L N L F G D M G G G L L L A
UniRef90_G7D983 F G T L V E E F S G F A E M N G A D D R E P V L P P M Y L A D A L S G L T G A F
UniRef90_A0R5S4 F G T L V A E A M S G F A D T N G A A D G P P V L P Q W R S L A D G V A A L A G A F
UniRef90_D6V8R9 F D V T V Q A A S G V M S V T G E E S G P P V K C G V P V G D F G A G L Y G A F
UniRef90_UPI00037362D8 Y D T I E Q A M S G I M H L T G H P D D A P P A K A G V P V S D L A S G L W T T
UniRef90_E0DPN6 Y D L V V Q A M S G L M A T G E E G G A P L K T G E S I A D L I A G L F A S W
UniRef90_UPI00035E1FD7 Y D L L I Q S E S G F L S V T G T P E E A C K A G P S I A D I S A G M Y A Y
UniRef90_G2NU26 Y D L L I Q C E A G L L S I T G S P E A P A R P G L S I A D I A G G M Y A Y
UniRef90_UPI0002D39CE7 F G T L V E S M S G F A H L T G H P D G P P T L P A F G L A D S I A G I A G S S
UniRef90_F5YRV4 Y D L L V Q A E S G V C S V T G R P G E P A K P G P P V A D V T S G L Y S A L S
UniRef90_S3BWU5 Y D A V L Q A Y G G L M S V N G E A D G D P L R V G V P V V D M V T G L A F S
UniRef90_I0H9W3 Y D L M V Q A I S G L M S L T G D P D G S P Y R A G I S V F D V M A G L H A N
UniRef90_A0QTZ7 F A A V A E A Y G G L R E L V G D P D R P P V R T G V S I G D S I A G I H A A F
UniRef90_A4FC53 Y D L L I Q C E T G L V S I T G T E E V P S K V G L S I A D I A T G M Y A Y
UniRef90_N1PGG9 Y D L L I Q A E S G F L S I T G T S P S Q P A K A G C S I A D I A G T T A F
UniRef90_UPI0003F88D73 F D L T M Q A M S G I M S V T G E P S G A P V K C G V P L A D F A G L Y A G
UniRef90_A1VMJ0 F G L T A E A K S G A M S I T G V P G E P P L F R M P I A D M Y A G M H G V S
UniRef90_UPI0003614F7D Y D F I I Q A M S G F M S I T G D K D S G P Q K V G I A I L T D V L T G L Y A C
UniRef90_E8TWF7 Y D P V A Q A M G G I M G V T G P E V G G A P T K I G P G V G D L L P A M Y L A
UniRef90_A0A059E5A7 Y D L L I Q A M G G L M S V T G V P D G E P G G G P G V A L V D I V T G L Y A A
UniRef90_E9J8N5 Y D V I A A S L G G L H I T G P K D G P C K V G V A M T D M A T G L Y A H
UniRef90_D7B5J2 Y D Q I I Q G L S G M M S I T G T P G T G P L R A G F P I A D V L G G L A A A
UniRef90_UPI000372FCE9 F D T I G A Q L S G L L D I T L D P D K P M V R G P T T S D Q L A G F A C
UniRef90_M0ASI9 F D L I A Q A L G G V M E I T L D Q E D G P P T K V G P G I G D L F T A T L N C
UniRef90_Q11Z73 Y D D L I Q G A V G I A A L Q Q R S G A S E P R Y V P L T I A D R M V G L H A A
UniRef90_B7RZD3 Y D F L V Q A M G G L M S V T G A A D G E P G A G P G V A L T D I M T G L Y A V
UniRef90_B3RQB2 Y D P V A Q A M G G I M G I T G P A Q R G G A P T K I G P G V G D I V P A M F L A
UniRef90_K8PT74 F A P T V Q A E T G L T A I V E E H F G N A L S E P R G D A C S H Y T G L Q G V
UniRef90_R9P3G9 Y D V T I A A D A G M M H I T G E A D R E P V K I G V A M T D L T T G L Y V H
UniRef90_D5RN74 F G T L V E G Y S G F A A V N G F A D R E P V L P P M F M G D C Y A G L Y G A A
UniRef90_UPI000465D40B H D I N Y L J A L T G A L H C L G D A D R P P P P L N L V A D L G G G A L Y L V
UniRef90_I0RS16 Y A S V A E A S G L R H L N G F P G G P P P R L A L S L G D S L A G M F A A
UniRef90_B1HY54 H D N N Y L S J A G V L D Y S R H K D K K P V S M G I Q L A D I A G G T M H A A
UniRef90_D0D621 Y D Y I I Q G M S G F M S I T G N P D G Q P Q R T G V A I T D L F T G L Y S V
UniRef90_H6SSJ8 F A R I A H A V G G L T H L A G M P D G P P V T P G S T S L A D Y M S G L F G A
UniRef90_K9GT67 F A R I A H A V G G L T H L A G M P D G P P V T P G S T S L G D M Y T G A H A V A
UniRef90_UPI0003ACDB6B Q D V L L Q A L S G L A S L N G P A E A P P I P V G A S I V D Q H A A A I A A V
UniRef90_M0MPH4 F G T I A E S M S T F T H I N G F Q N S R P L S P P I P L A D L T A A M F A V Q
UniRef90_B1M7T9 Y D D L I Q A S G G L A A L Q K T A T G R P G Y L P T V L C D K I A G Q A I
UniRef90_B7RMT6 Y D H V I Q G M C G I M M T T G Q K G D G P T K V G A P F V D Y A T G M N A A
UniRef90_B8IFZ2 Y E N V A Q C A G G A A S T T G F W D G P P T V S G A A L G D S N T G M H L A
UniRef90_H0JC48 F G L I A E A K S G I M Q M V G T P G E A P P L L R I S L G D M Y T G A H A V A
UniRef90_C5CK44 E N V A Q C A G G A A S T T G F E E D G P P V T G A Q I G D S G T G L H L A
UniRef90_L0IUQ9 Y E V I A Q A M G G S M S T T N G F E E G P P M A T G A Q I G D S G T G I H T V
UniRef90_Q0K9T7 Y D A A V Q A L G G I M S I T G F G D P D G T A T R V G V P I V D V I T G L S A V I
UniRef90_V8QZ54 F D D L I Q A A T S L P W V V A E N T D G N P R Y I P V N I A D R T V G Y Y A F
UniRef90_H0QU97 Y D Q I L Q G E A G L M S L T G S G P D D P Q R V G V P I A D L L S G M Y G A
UniRef90_D9XA97 Y D L L V Q C Q T G L V S L T G T P E G T A R T G I S V A D I A A G M Y A Y
UniRef90_F7QR04 F D Q I A Q G M G G L M S I T G L P G Q G P V R A G I P V A D L T A G L F C A
UniRef90_A9I5Y3 Y D L L I Q S E S G F V S V T G S A Q E P A K A G C S I S D I A A G M Y A Y
UniRef90_I9W593 Y D L L I Q S E S G F V S V T G T P E T P V L K S G C S I A D I A A G M Y A Y
UniRef90_M1T5B5 Y D M V V Q A M G G I M S L T G Q P G G P P T R V G V S I G D L G A G L Y A M
UniRef90_K6E1C4 Y D L I I Q E E G G A M S V T G E R G G R P L K P G V P Q A D V F G A M V A S
UniRef90_G8MGT3 F G L I A E A K S G I M Q M I G E P G S P P L M R V S L G D M Y T G I H A V
UniRef90_Q1LGP7 Y D L L I Q A A A G L I S V T G G E D A P S R A G I S I A D I A A G M Y A Y
UniRef90_K3WG76 F A S V C E A M G G F R Y V N G F P D R P P V R Q N L S L G D T I A G I H T A L
UniRef90_E8TW12 Y D N L I Q A A V G L P M T Q A R K T G G P T Y V G T A I V D R M V G M A T S
UniRef90_UPI0003670BE8 Y D F I V Q G M A G I M D L T G E P D R E P Q K I G V A F G D I F T G L Y S V
UniRef90_UPI0004793939 Y D Q I I Q G L S G M M S V T G D E K C A P L R A G Y P V A D T V S G I V G A F
UniRef90_M7CXN4 H D I N Y L S J A G V S H C G R A D S G P P M G I E I A D V A G S H H A V
UniRef90_W3RJK3 Y D V T L Q A F S G V M A L T G D E G G Y I R S P I S P I D Q M T G S H A F
UniRef90_Q0FJQ9 Y D T V V Q A R G G L M G L T G T P D E P R R A G S S V G D L A G G M F L V
UniRef90_W5TGH3 Y D L L I Q A E A G V C A L T G T A G T P A K P G P I A D V C S G L Y A A L T
UniRef90_A0A031HT06 Y D F I V Q G M S G M M D L T G D P D G A P Q K I G V A M A D I T T G L Y A V
UniRef90_A1WC68 Y D L V I Q G E T G L M A L N G E A G T P L K F G V A V V D L M T G M Y A G
UniRef90_UPI00036D7F1F Y E N V A Q C A G G A A S T T G F W D G P P T I S A A L G D S N T G M H L A
UniRef90_H1V168 Y D L L V Q S E A G F L S V T G N G P E P A K A G I S I A D I S A G M Y A Y
UniRef90_D8I6D1 F G T L G E A M S G F A H L T G S P D G P P T L P S F M L A D G V A A L T A T Y
UniRef90_M0CMD3 Y D L L V Q G M S G I M S V T G E E G R D P V K V G L P Q T D L I T A M W A V
UniRef90_V8QWN2 F D L T V Q A M S G L M S V T G E A D G A P V K C G V P V C D F S A G L Y A A
UniRef90_UPI0002D63291 Y D L L V Q A M G G L M S V T G E P D G A G T K T G V A L I V D V T G L H A G
UniRef90_UPI0003B7B596 Y D L I V E A L S G V M S L T G A E G P S V R A G V P I G D I T A G H Y A A
UniRef90_W8HAX5 F G G V A E A F G G L R Y V T G Y P D R E P V R P A A P L G D T L A G L Y G A V
UniRef90_F8GQI7 L D Q I V Q G M S G L S S V T G E P G K G L R V G I A I S D T A G M F L G
UniRef90_W0Z8X2 F D I L V Q A L A G M S L T G E S G K S V R S G L P I G D I C A G M Y G A V
UniRef90_E0XT92 F D G V A Q A L A G A T Y M G R P G D P M K S F V P F A D F G T A T M A A

UniRef90_V9WU01 N A V L L A A L H H R R R Q G T G Q G Q S V S V P M F E T F A H F V M G D H M Y G H
UniRef90_D6KDH3 S A V S M A L F R R R R S G G E G Q E V Q V P M F E T F A H F V M G D H L Y G H
UniRef90_U2VWV09 A V T S A L F H R R S K G K G R Q E L E V P M F E T M V S Y V M V E H L W G Q
UniRef90_UPI00036F9220 I A L L S A L Q H R R S V S G R G Q Q Y I E I D M A L L D C I V A L I G V N Q V T G Y F A
UniRef90_Q82NF2 T V L A A L V H R G P T G A G Q Y I E I P M T D T L I A F N L V E H L A G H
UniRef90_UPI0002DAA0BC Q A L L L A L L H R R R T G R V G M D C D V S L F E D T A I S M L N Y L A T W H L N
UniRef90_D9VIF1 L S L L A G V H A R R S G V G M D C D V S L F E D T A I S M L N Y L A T W H L N
UniRef90_L8EDH6 V G V L A A L R H A Q T E D G R Q V V D A A I V D G T A H L T S M I H G M L A A
UniRef90_UPI0002EB3BFF S G I L T A L L H R R A S T D R G Q V L E I S M L E A M G E W M S Q P Y F F A E Y
UniRef90_Q3INV6 F G I V S A L L S R A S T G N T D G E Y L D V A L T D A V V S F S Q A L A P E A L
UniRef90_QOCTJ2 N A I M A A L L A R A R T G K G Q H I D A C L S D V Q V A T L A N I A S S A L I
UniRef90_G8ASK5 E G V L A A L L H R R R T G E G Q Q L V Q V N M L D A I T T I Q M Q E L S V F T V L
UniRef90_B8G8H6 I G I L L A L L R H R E K T G R G Q L I D V G I Y E A V F R I L D E I A P A Y G L
UniRef90_E8TRY2 S G V A S A L Y E R E K S G L G Q H V G V S L L R A A L T M Q S A R L V W A E G
UniRef90_EOX560 G V T A L Y Q R C R V K L R Q R L A A G P L T E Y S Q Y G E G I D F G D T
UniRef90_UPI0004787E3F M G V L M A L H A R E R T G L G Q R V D V S L V D S V V S S L E N A Y I R Y F D
UniRef90_I2N7Q7 L G I S A A L Y S A R T T G R G Q V V D A A M T D G T A I Q L A L L Q G L L R T
UniRef90_G7D983 A A M A A L R E V E I N G K G Q V I D L P L L D P I V N S L G P Q A A N Y R L
UniRef90_A0R5S4 A T M I A L R H A E A T G H G Q V V D L S I Y E P L F W I L G A Q T S A Y D Q
UniRef90_D6V8R9 T S L A A I M N A R K T G Q G A Y I D C S M L G S L L G M A A L Q T S E F F G
UniRef90_UPI00037362D8 I A V L T G L L G R A N S G K G A T Q L D V A M M D V Q L S L L A A A R L F A
UniRef90_E0DPN6 S I M A A L V Q R N A T G Q G A T L D I S M Y D A L F S M L T T S H A Q H F Y
UniRef90_UPI00035E1FD7 S S I L A A L L E R A R S G V G K R L D I S M L E S L T E W N S Y P L Y Y A F D
UniRef90_G2NU26 T G I L T A L L Y E R R T G A G T D L S V S L L D A L G E W M G P P Y F A Q A Y
UniRef90_UPI0002D39CE7 A V S M A L F E R E R N G T G Q E I D L D L L T P L M T A V G P G V I Y A D Q
UniRef90_F5YRV4 I M A L L I G R K G A G S D E P A P S V T V S L F D T M A E M M G Y H L T Y A R
UniRef90_S3BWU5 G V L L A L L H R R A A S G R G Q H V E V N L S S A L S G L V N H S S A G Y V A
UniRef90_I0H9W3 M G I L A A L L H R R A A T S R G Q Q L V E V N L S S A L S G L V N H S S A G Y V A
UniRef90_A0QTZ7 G T V M R A K A P T E I P L P Q R I I D V A L N E S I L S V M E S L I P D Y L A
UniRef90_A4FC53 S G I L T A L L E R S K T G R G Q R I E V S M L E A L G E W M G Y P L L Y T Y
UniRef90_N1PGG9 N N I L A A L L N R S K T G R G C R I D V S M L E S L T E W N S Y P L Y Y A Y D
UniRef90_UPI0003F88D73 F S I V S A L H E T R K T G R G M H L D V P M L G A T L G I A A L Q T S E Y F G
UniRef90_A1VMJ0 A I C A A L F G R V T S G L G Q H I D I A L Y D C M I S M H D F A A Q S Y L M S
UniRef90_UPI0003614F7D I G I Q A A L F E R E R S G L G Q Q F V D I A L Y D S A V S A L I N V A S N F L M
UniRef90_E8TWF7 Y A V A A A C W S V I Q R T S G Q G Q F V D V A M A D A V L A L C E R I V Y Q Y S
UniRef90_A0A059E5A7 N A I Q A A L L H R R T S G Q G Q W I D I S L L D C L V A A M A N Q S Q G F L S
UniRef90_E9J8N5 G A I M A A L L Q R R S K T N K G Q Q W I Q C N L L S T Q I A C L I N I A S N Y L N
UniRef90_D7B5J2 F A I S T A L V R R E R T G R G S S V D V S M L E T A L T A M G W G V S N Y L S
UniRef90_UPI000372FCE9 Y G I L G A L F A R Q A S G E G R R V D T G M Y D S M I S M T E R A V Y Q Q S Y
UniRef90_M0ASI9 I G I L A A V N H R E R T G E G Q Y V D T G M Y D S M I S M T E R A V Y Q Q S Y
UniRef90_Q11Z73 H S V A M A L Y G R E R T G R G C R I D V P M F E T M A S V V L S D H I Y G H
UniRef90_B7RZD3 I G I Q A A L W A D R A Q S G L G Q H V D L A L L D V T A A T L A N Q A T N Y L V
UniRef90_B3RBQ2 Y G I A A A C W A D A Q R T G R G Q Q F V D V A M V D A V L A C E R I V Y Q Y S
UniRef90_K8PT74 I A I L A A L N H R S R T G E G Q H V D V S M A A T M L S V N E R Q L S G I D T
UniRef90_R9P3G9 G A L M A A L L G R A Q T G K G V H I D A S L F E S Q I A S L A N I A S N Y L I
UniRef90_D5RN74 T A M I A L R H A E R T G Q G Q V I D L S L I D P M L A V M D P Q A A N Y R L
UniRef90_UPI000465D40B V G V L S A A M E A R R S G R G Q T V D V A M I D G V T H L M S A F Q A F R Q Q
UniRef90_I0RS16 Q G A L A A L Y R R S V T G R G Q V V D V A L T E S C L A V Q E S T P D Y D V
UniRef90_B1HY54 I G V L A A A L H R R E K T G V G Q F I D I S M T D A V F S L N A M Y G S A F I G
UniRef90_D0D621 S G I L A A L H Q K Q R T G K G Q H V D M A L L D C A V A A T A N Q A M N Y L A
UniRef90_H6SSJ8 V G V L L A L R H R D Q T G Q G Q V I D L G L Y E S V L R V L D E M I P V Y D Q
UniRef90_K9GT67 V G V L V A L R H A Q A T G K G Q M I D I G L Y E S V F R V L D E L A P R Y A W
UniRef90_UPI0003ACDB6B G I L G A L F D R A R T G D G H R V E S D L L S A A L D L Q I E P L S Y H L N G
UniRef90_M0MPT4 G A M F A L Y A R D V Q G R S G Q V I D V S L F E P L F R L M I G D V E A Y D T
UniRef90_B1M7T9 A C A I L A A L Y E R R A G G G Q Q A V E V P M F E T M V E F N F V E H M V G Y
UniRef90_B7RMT6 M A I L A G L A E V R R T G Q A V Q M D V A M L D T A L M M M A S L V T Q H L T
UniRef90_B8IFZ2 I G I L T A L H Q R N K T G K G Q K V A V S M Q Y P Q Y P H G T F T D V V P R G
UniRef90_H0JC48 A I N A A L L G R V T S G R G Q H I D M A L Y D T L V S M H E Y A V G C Y T L S
UniRef90_C5CK44 L G I V A A L Y Q R N S T G R G Q V L A P M Q D A V L N L C R V K M R D Q Q R
UniRef90_L0IUQ9 A G I L A A L Y Q R E H T G R G Q R V T V A M Q H H Q R L Q H G P L G E Y P N E
UniRef90_Q0K9T7 G V L L A L H E R E R S G K G Q S I E S A L Y D N A L F S L Y P H S I N T N F T
UniRef90_V8QZ54 G V L L A A L Y S R D R T G K G Q R V D V P M F E T M V P Y V L L G D H L Y G Q K
UniRef90_H0QU97 F G T L A A L L Q R E T G Q G Q V I R T S L L A A L L G V H A F Q Q G T R A T V
UniRef90_D9XA97 T G V L T A L Y T R A V T G E A H P V E V S L F E A L A E W M S Q P A Y T R H
UniRef90_F7QR04 L G I M T A L L E R D V S G E G Q W V Q T S L L Q A Q I F M L D F Q A A R W L V
UniRef90_A9I5Y3 S S I L N A L L R Q R T G L G S R I D V S M L E S M V E W M G F P L Y Y A F E
UniRef90_I9W593 T N L L G A L I Q R K T G H G C R I D I S M L E C M T E W M S F P L Y Y A F E
UniRef90_M1T5B5 I G T Q A A L L Q R E R T G K G E R V D V A M L D C Q V A L L E N S I A R Y E V
UniRef90_K6E1C4 F S I M S A L I M T K Q Q T G K G A Y L D I A M M D A Q I T L M G Y L A N Y A L
UniRef90_G8MGT3 A A I N S A A L L G R V T S G R G Q H I D M A L Y D T L V S M H E Y A V G C Y T
UniRef90_Q1LGP7 S G I L S A L L R A R T G V G E R V E V T M L E A L G E W M S Y P L N F A H Y
UniRef90_K3WG76 G V I A A L L G R E R G G A A G Q Q V V D A I Y E T M F N L M E A V I P E Y
UniRef90_E8TW12 N A I L A A L H C R E R S Q T G Y G K A V E V P M F E T F A H F A M G D H L Y G H
UniRef90_UPI0003670BE8 I A I Q A A L T L R N S T G E G Q H I D M A L L D S T V G V L A N Q A M N F L A
UniRef90_UPI0004793939 S I C A A L L R R H S T G E G S F I D V A M L D S A L V T M G W V S N Y L
UniRef90_M7CXN4 M G I L A A V I Q R Q Q T G E G Q F V D I S M T D A A F A L N A M S G A A C L A
UniRef90_W3RJK3 S G I L A S L I E R Q K T G K G S T V R V S L L E T A I G L L G Y N L Q T F W
UniRef90_Q0FJQ9 Q G I L A A L Y A R Q A D G T G R R I D V G Q L D A Q V A L M D Q A I A Q A A L
UniRef90_W5TGH3 V L A L L C E R A R T E S V A P H S L R H S T A T V S L F D T A V E I I M T Y T R
UniRef90_A0A031HT06 I A I Q A A L A M R E R T G R G Q W I D M A L L D S M T G V L A N Q A A N Y F A
UniRef90_A1WC68 Q A V L A A L F Q R S R T G R G R L I E M A L Y D C G L T I T G Y Y G L D A L K
UniRef90_UPI00036D7F1F I G I L T A L I G R A T G K G Q K V A V S M Q D A V L N L C R V K L R D Q Q R
UniRef90_H1V168 S N I L A A I I K R G K T G R G A R I D I S M L E S M V E W M S F P M Y Y T H N
UniRef90_D8I6D1 A V M M A L Y H R D V H G A A G Q L I D V N L I E P L A R L L E Q P V L T Y D Q
UniRef90_M0CDM3 F G I V C A L Y R R E R T E E G Q L I E L G M L D A T L P W L T K Q A G K V F A
UniRef90_V8QWN2 F S I V S A L R V A E K T G E G T H I D I S M L G A T L G I A A L Q T S E Y F
UniRef90_UPI0002D63291 L G V L A A L R H R D L T G R G Q R V E V S L L T S L T S A L T N Q A A H L G
UniRef90_UPI0003B7B596 I A A L G A L E Y R R D T G R G Q H I D V S M L D S Q I S L S L Y L G Q Y L T
UniRef90_W8HAX5 S A L M M L L A K A R G G D H P R P K V A D V A L Y E S V F M A M E S L T A D F
UniRef90_F8GQI7 Q G I L L A L L H R A R T G R G Q W I H T S L I E G M L N K L D F Q A T R Y T V
UniRef90_W0Z8X2 G T L A G L L E V G R T G I G M R I D V S M L D A Q V S M L S Y V I A S Y L A
UniRef90_E0XT92 F G T L S A L I E R N K T G N G Q L V E A A L T R T V M A F N I A L L A E E A

UniRef90_V9WU01 T F V P A L G D W G Y A R M T S P E R R P F P T L D G Y I Y T D R H W Q R L F E
UniRef90_D6KDH3 T F V P A M G D W G Y A R M M N S P D R R R P Y R T L D G Y I Y I D K H W Q R F F E
UniRef90_U2WV09 V F E P P L A P A G N Y T R L S M S K H R R P Y K T K D G E I A V L V P Y W D N Q H W A
UniRef90_UPI00036F9220 N E K V P G R Y A G N A H A R L S L V P Y Q V F A V A D G E I V V A V G N E G W Q W Q
UniRef90_Q82NF2 V F E P P E G P T G F P L S M K R G H R A V P T R D G L A C V I P Y N P Q N F R
UniRef90_UPI0002DAA0BC L Q R R K R D F S W G A Y P L T G V F R T R D D G A I V L V G A F K T N P L
UniRef90_D9VIF1 E G F E P P R T R K R S A H G S L V P Q V F P A A D D G R H M A V G C A K E K F W Q
UniRef90_L8EDH6 G G W Q D R R R G A N L L D G G A P F Y G T Y E T A D D G R H M A V G A L E P R F Y
UniRef90_UPI0002EB3BFF G G A P P S R S G E T H H A S I A P Y G P F E T A D D G T V F F G I Q N E R E W E
UniRef90_Q3INV6 A G E D P P R P G E T P L A G A Y P W Y D V Y E T A D D G R Y V T L G A L E P Q F W
UniRef90_QOCTJ2 S G E K D S G R W G T E H P S I V P Y R S Y K T R D G N I L L F G G G N D R L F G
UniRef90_G8ASK5 G G K P Q T R S A E G A H A F I V I P R A P Y G A F A T S D G F I I V A F P P L K L
UniRef90_B8G8H6 F G K I R E R E G A G S F I L A V P R A G H F R T K D G K W V A I A C T T D K M F
UniRef90_E8TRY2 E P R E V G R D M R S G G I T G I H P T Q Q G H L Y L S A N T Q H F W A A L C H
UniRef90_E0XS60 T P R A G N D S G G G P S G R L L K C K G W E T D P N A Y T Y F I T Q A A A W P
UniRef90_UPI0004787E3F S Q E I P P K R S N G N A Y A S I A P L T D Y H A K D G F V I I A C G N Q K L Y E
UniRef90_I2N7Q7 G Q W T E G R G S N L F D G S A P F Y R T Y R C A D G L H M A V G C V E P Q F Y
UniRef90_G7D983 T G V V I K P R S G S R T S G S V P R N V Y R T L D G G W V C L S A S T Q G M A
UniRef90_A0R5S4 L G T L P R R Q G S R T G F N V P R E C Y R T R D D G R W I A L S G A T T A T A
UniRef90_D6V8R9 T N K P P K R L G S E H P R N A P Y Q G F D A K D R P F T V N D K L W R D F C A
UniRef90_UPI00037362D8 Y E E D P V R Q G T Q H P G R V P S A A F G C R D D G R W L H L S A S D Q H W V
UniRef90_E0DPN6 D G V L P G R V G N R H P L S T P F G C F R T S D G Q V V I A V L N G G Q F Q
UniRef90_UPI00035E1FD7 G A A P P P R T G A A H A T I Y P Y G P F T G G D G A S V M L G L Q N E R E W
UniRef90_G2NU26 G G A G V V R S G A R H P S I A P Y G A Y R C G D D G A Q V F L S V Q S D R E W
UniRef90_UPI0002D39CE7 L G I D Q Q R T G N R S Q N N S P R N L Y R T K D H W V A V S T S A Q T I A
UniRef90_F5YRV4 H S G I E Q Q P L G M S S P A V I A P Y G A Y A T A D G H T V V L G T T N D R E W
UniRef90_S3BWU5 A D G R V R P R T G S A H P S I A P Y Y D S F E A A D G P L F V G V G N D R Q F A
UniRef90_I0H9W3 G G T V P F R M G N A H P S L I F P Y E P L P T A D G E L I V I A G N D Q Q F R
UniRef90_A0QTZ7 Y G V Q R Q R V G R M E G I A P S N A Y P C A D G T S I I V A G N G D A I Y
UniRef90_A4FC53 G G T A P A R A G A S H A T I A P Y G P F T A G D G V T I N L G M Q N E R E W
UniRef90_N1PGG9 G A S P P A M A G A S H A S I Y P Y G P F E C R D D G T V M L G M Q N E R E W
UniRef90_UPI0003F88D73 S G R N P Q A L G S A H P R N A P Y R V F R S Q D G Y F G M A A G N N A L W R
UniRef90_A1VMJ0 G G T E L P V Q T G H D L P Q S T V Y Q V F S A K D G Y L V I A A Q M T D T W K
UniRef90_UPI0003614F7D S G Q T P P L I G S H P N I V P Y Q T F Q T K D S D I V V A V G N D R Q F A
UniRef90_E8TWF7 A A G V D S R P D G N G H P L L C P F G I F P A S D G Y V S L G V P N D R F W E
UniRef90_A0A059E5A7 T G E N P E R M G N A H P S I V P Y D V F S T R D G H I I N D L Q F I D L C
UniRef90_E9J8N5 G N K E A T R W G S H E S I V P Y E A F P T K D G Y M T I G V G S D L Q F K
UniRef90_D7B5J2 A G V E P V P I G N E N A T A A P S G T F A T A D G A L N I A A N K Q E Q F E
UniRef90_UPI000372FCE9 Q G V V M N S R T R A A Y S Q A Y A L V C A D G R I V G E K F W V I A L T E
UniRef90_M0ASI9 T G T P P P T R Q G N S H P T L F P Y N A F E T A D G Y A V I A A F G T N H W T
UniRef90_Q11Z73 T F E P P S G G A G Y V R L L S P G R R P Y E T S D G Y I C A L V Y N D G H W Q
UniRef90_B7RZD3 G G L A N P T R L G N A H P N I V P Y Q S F V A K D G Y L I V A V G N D G Q F R
UniRef90_B3RBQ2 S A Q A P G P E G N G H P L L C P F G L F P A S D G Y I S L G V P N D R F W R
UniRef90_K8PT74 D G E P I A L S A N E S H I F E L S D G R R L T I A G S P I Y S P M F S R Y C A
UniRef90_R9P3G9 A G Q E A G R H G D K R S I V P Y Q T F Q A K D G R I M L G A G N D G Q F R
UniRef90_D5RN74 T G Q V K Q R T G S R S T N T A P R N A Y R C R D D G G W V C L S S T Q G M T
UniRef90_UPI000465D40B G S W T G R R T D N I V D G G A P F Y R T Y Q T K D E R F V A V G A I E P H F Y
UniRef90_I0RS16 G G V V R P P S Q T R L E G I A P S N I Y R A A D G T W V I A A N Q D S V F
UniRef90_B1HY54 G G R V P P P E Q E I L N G G S Y N D F Y K T K D G R F F S V G S L E P Q F R
UniRef90_D0D621 T G E A P G R T G N Y H P N L T P Y Q V F D C S D G Y I I I A T G N D P Q Y Q
UniRef90_H6SSJ8 T G R V R G P E G A G T V N A C P H G H F V C C A D G R W V A I A C T N D K M F
UniRef90_K9GT67 E G T V R G A E G V A T L N A C P H G H F E C A D G A W V A I A C T N D K M F
UniRef90_UPI0003ACDB6B F G Q D R E P T G V S S P F Y K A P Y G V F A T A D G H V C L S L T S T G
UniRef90_M0MPT4 E G I V P P T R T G N R D V R S A P R N L Y E T E D G Y V A L S A S S Q N F F E
UniRef90_B1M7T9 A F E P P L G P P G F N R V L S P K R K P Y R T R D D G Y A C I D R N W R D F F I
UniRef90_B7RMT6 A G W M P A Q N G N E A W S Q S P S S G A F Q T S S G V L M L A A N N D R Q F V
UniRef90_B8IFZ2 G N A G G G G Q P G W V L K C K G W E T D P N A Y I Y F T I Q G H A W A P L C R
UniRef90_H0JC48 G G E V L P Q Q T G H D M P T S T L Y G V F R A Q D G D L V I A A Q V D D S W Q
UniRef90_C5CK44 L E R T G T M H E Y P Q Y P D G K F C K G W E T D P N A Y I Y F I T Q G A V W P
UniRef90_L0IUQ9 D F G D C V P R S G N A S G G G Q P G W A V K C A P G G P N D Y I Y W E P L A H
UniRef90_Q0K9T7 A K A P M R S G N G H P N I A Y D T Y A T A T E P I Y A V G N G Q F O R L C
UniRef90_V8QZ54 F I P S Q G G F G Y P R I L A R S R T P F R T K D A W V C C T I Y H D H H W
UniRef90_H0QU97 A G E V P K A Q G N H H P S I A P Y G L F H C R Q G R V Q I S V G S E K L W R T
UniRef90_D9XA97 G G T Q P P R I G T Q H A T I A P Y G T Y P A A D G K E V L F S L Q N E R E W A
UniRef90_F7QR04 D G D V P Q Q A G N N H P T S I P T G V F K T S D S F I N I A T T I W A R F A Q
UniRef90_A9I5Y3 G A A P P M R A G A A H A S I Y P Y G P F V G D G A T I M L G L Q N E R E W
UniRef90_I9W593 G A A P P P R A G A A H A T I F Y G P F V A G D G K A V L L G V Q N E R E W
UniRef90_M1T5B5 D K K I P Q P I G S R H P S I T P F D V F K A K D G W M V V A A G N D M L F Q
UniRef90_K6E1C4 S G N V G K P M G T A H S L M V P Y Q S F P A K D I E I N V A V L N D R A W K H
UniRef90_G8MGT3 M Q G I L P E Q T G H D M P A S T L Y G V F R A A D G D L V I A A Q V D D A W K
UniRef90_Q1LGP7 G G T P P A R H G L A H P S I A P Y G H Y R T A D D G G S V I F G L Q N D R E W
UniRef90_K3WG76 D Y S G S I R E C S G S T L T G I V P S N T Y T S D G K N I V T A A N T D T L F
UniRef90_E8TW12 T F V P P I G D W G Y E R M T A P E R Q P Y R T A D G H V Y T D R H W Q R L F A
UniRef90_UPI0003670BE8 S G K A P T R L G N A H P N I A P Y Q V F P V S D G N I I I A C G N D S Q F E
UniRef90_UPI0004793939 I A G T E P K P H G N D N F T A A P S G T F R T G S P L N I A A N K Q D Q F E
UniRef90_M7CXN4 G I E Q K P E T G L N G G S F Y D Y Q T R D D R W L S V G S L E P Q F S
UniRef90_W3RJK3 E R G V Q P P K C G S S H E S L C P Y Q A F E A A D G P I M I G V A N D N L W R
UniRef90_Q0FJQ9 N D T A P S N A T R H P S I A P Y C E A V A A S D G P F V L A A G T D A Q F E
UniRef90_W5TGH3 H T G V D Q Q P L G M S P A S V Y G A Y P T A D G A T V L A G T N D R E W
UniRef90_A0A031HT06 S G V T P A R V G N A H L N V C P Y A V F E T S D G W F I L A V G N D G Q F F
UniRef90_A1WC68 L G H D P E R Y G N A H P S I V P Y G M Y E S A D G P L I A A V G N N A Q F D
UniRef90_UPI00036D7F1F L D R V G Y G Q P G W V L K C K G W E T D P N A Y I Y F T I Q E Q N W G P T C K
UniRef90_H1V168 D A P G L A R S G A A H A S I Y P Y G P F E T G G G S V M F G V Q N E R E W T
UniRef90_D8I6D1 F G T I P V R T G N R W D I S A P R N V Y R T K D G H W L A M S G S A P I A
UniRef90_M0CDM3 G E E P T C M G T K D P V L A P Y Q T F E T A D G H L N V A C L N A K L W R
UniRef90_V8QWN2 G S G N N P R K M G S A H P R N A P Y Q V F R C K D G Y F G M A A G N N S L W K
UniRef90_UPI0002D63291 A G V V P R A M G N R H P S I A P Y E V F D A Q D R P L V L A V G N D R Q F R
UniRef90_UPI0003B7B596 G I L V A T H Q G R A H V S I P T Y N T F A T K D G S E I V I A A N T D K M W
UniRef90_W8HAX5 D A Y A M V I R E R T A G N L P G V V P S G S Y P C A D G S V L I A G N A S G V F
UniRef90_F8GQI7 D G E V P T Q Q G N A H P T L V P M G T Y R C R D G V V N I A A S T D R M W T
UniRef90_W0Z8X2 S G D V A G Q G R G H M S I P T Y R A F T C R D G K D I V V I A A N T Q P F W
UniRef90_E0XT92 I K S I D R P S Y G N R G Y S A G P S D I F K T T D G A V M V Q V V G Q P L F E

UniRef90_V9WU01 A V G R P E M A Q D A R Y R D V H S R A L H M S E L Y E F L S H T F E T R T S A
UniRef90_D6KDH3 V S G H P E M A E D D R F A D N M K S R L T Q H I G L L Y E F L G R V F E T K R T T T A
UniRef90_U2WV09 T Y F C R E D M L Q S D D E R F A D N M K S R L T Q H I G L L Y E F L G R V F E T K R T T T A
UniRef90_MLI00036F9220 Q Y C V A I E R Q S D D E R F A D N M K S R L T Q H I G L L Y E F L G R V F E T K R T T T A
UniRef90_Q82NF2 D F F L A A D R A D L A A D P R V N G E A V A D D D M E L V G E R F S P S M T T T E
UniRef90_UPI0002DAA0BC R D I S T A L G L G D R F A T F Q G Q V A H K A E L Q A L F R E R F A T G R N T T T E
UniRef90_D9VIF1 R L E R P D L L C D A R F A T F A D R L A H R K A E L E A I L F D K E F A T R T T V E
UniRef90_L8EDH6 A E F V R L L G I E D D V P A R D D I G A W E E L R A A I A A R F K T R T R T Q
UniRef90_UPI0002EB3BFF A F C R D D L G K A P Q F A G N A A R V E N R A A L H D E L D L I L J A S K T K T K
UniRef90_Q3INV6 E A F C D A V D R P D V E A H M T A D D D A E R A A L R E T L A D L F G S K T R E
UniRef90_QOCTJ2 V L C H P E W K E D P R F I T N Q D R V K H R E D I D G M I E E T A M Q K T T T Q
UniRef90_G8ASK5 L G E L I G E P S F L D M E D E T D S W S R R D E I F A K T R D R L T A K T T S A
UniRef90_B8G8H6 E R L A E A M E R P E L A S D E Q R K R A J A R D V V N Q I T I E W V L G S A K T R D
UniRef90_E8TRY2 K V G L P E L A S N E R Y D T V R K R A Q H H A E L V P L L R Q A L A A R T A F L
UniRef90_E0XS60 K L C K A L N K P A W V D P T N Y A T P N A R N E V F D A E I E S W T M T K F
UniRef90_UPI0004787E3F K F C R E D M I T D E R F L T V P L R V K N N L L Q K A E I E K W T S E R T V K
UniRef90_I2N7Q7 A E T L R V L G T G D P L F A R Q H D R G A W P A M A A K L A E V F A G R T R D
UniRef90_G7D983 M R V L R S I G R P E L C E D P K F K T N H V A E L D E K L I G D F I A T A T V D
UniRef90_A0R5S4 Q R I M R A V G R P D W F S D T S G R I A R D A E H R E T I D E A I I S W V G Q R D N A
UniRef90_D6V8R9 V V N L P D L P N D P R F T T Q F D A R N Q K E L A A I V K P I F L T K N A A
UniRef90_UPI00037362D8 P L C E V L G L T E L G A D P G L A D N R G R L G Q R R A L I V E A F A Q R P T P
UniRef90_E0DPN6 R L G K P E I A D P P C F A D T D S S R T E H E P A L R A L I V E A W S G R L T T E
UniRef90_UPI00035E1FD7 Q S F C D K V L R Q P E L A S D P P R F S A S R E A L R R I I V E A F R E L S A P
UniRef90_G2NU26 A A L C E R V L R R P R F L D N P L R A T H D E E L T A E L E S C F A E D H T A E
UniRef90_UPI0002D39CE7 E R V L R L P V G H R P E W F A T G R T R A E H A D L L D E Y V L G G W I J A D R T R D
UniRef90_F5YRV4 Q R L A R E L L G R D D L A D D P R F A A N R A I L L D E A I V G Q W C A R H D L A
UniRef90_S3BWU5 A L D A P E L A A D P R F A T N P D D R T A N V T A L L R A E L A P R F A R H R R A
UniRef90_I0H9W3 K L C H V L G L P D L P G D P N Q D R T A N R E Q L R A E L V E R L V T R K E
UniRef90_A0QTZ7 Q R Y M R T I G R P D L A T D P D G R W A R R D E L D E A I S A W T I R H T R D
UniRef90_A4FC53 A R F C E L V L G E M P Q F A D N T S S R V R N R R E L E L D S T I A G V F A S L T S E
UniRef90_N1PGG9 T F A G D V L G K N E K F A D T S D R S R A N R R E L K G I I E E V F R R F S T E
UniRef90_UPI0003F88D73 S V C M P E L L A D E R F A T P T T R A A H Q D E L L Q I L E Q K F A Q A S T S E
UniRef90_A1VMJ0 S L A R L T G G E A Y A L D T N L H S Q A G R N A N R E V R E W T L A Q A S S E D
UniRef90_UPI0003614F7D V L C R L M G L D P R F A T N P K R V E N R E V L V P I L Q K R M M E A G S D
UniRef90_E8TWF7 P L A R I M G R A D L A A D P R C A S N E A R V R H R A F V E A E V G A W T S R R K
UniRef90_A0A059E5A7 R I G C P E L P R D D R F A T N G A R V A N R T S L T S L T E K L G T K T K
UniRef90_E9J8N5 R L Q M P E L A T D D K F K T N I A R V T N R T E L L K L L R D T F K E K T N Q
UniRef90_D7B5J2 A L C A V V G A P E L A R D P R F A Q R E D R K T H R E A L E E H L G T R T A L
UniRef90_UPI000372FCE9 A M E R P D L V K D P R F A T R M D R I R N V E D L N L A D T F R Q R P R A
UniRef90_M0ASI9 E V C A A M D R A D D D Y P T T A D R I E H R E F L R A E L A D W A D R T T D
UniRef90_Q11Z73 R F L R A I E R D D L W V D P R F A N T R H I D E V Y G F L G Q T L R G Q S T A
UniRef90_B7RZD3 R Y C Q V I G A P D E R F Q T N R D R V G N R D A L V P L L Q V Q M L E D K A
UniRef90_B3RBQ2 L L V E R M G H P P W A D D P R F A T N E L R V R H R A E V E Q A V A D W T V R
UniRef90_K8PT74 M M R R N D L L A D P R Y A T A K L R R Q N L P S L L A E I R S W L T T F S D L
UniRef90_R9P3G9 F L C N L L E R P D E K Y S T N A A R V A N R D T L I T L D E L I G A R D V Q
UniRef90_D5RN74 E K L R S I G R P D E F R T N P D R V L R W Q E L D A I I G D F I G A R D K R
UniRef90_UPI000465D40B A N L L T V M G L G I E G L P A Q N D R S A W P Q M R Q R F A A I F A E R T R D
UniRef90_I0RS16 A R L C Q A M G C D D R F A T H G A R G R N Q D E L D K I T G D W A M Q R H P Q
UniRef90_B1HY54 K L L C E A L D I P E I D N T F N D S Y Y T Q I R F K E A V H D A F L S K T Y E
UniRef90_D0D621 R L C R L L G L D D L A E H P D Y L T N A D R I A N R T A L E A Q L M A E T R N
UniRef90_H6SSJ8 A R L A R V M A H P D A F G P L S H R L A A R D A V D G L V A A W T A E R P R E
UniRef90_K9GT67 A R A M T R P D L G E R F A A V A D R L A H R E E V E G A V I A A W T R T H T R A
UniRef90_UPI0003ACDB6B K L A E I F E D P W F A A I P Q S E E F S R R T E I N A R V A F H I S S R T T G
UniRef90_M0MPH4 N V M A A L G R D D L L N D S R F R N N A V R V I E N A E L I E E W T R Q T T E
UniRef90_B1M7T9 H T G R L E F V D P R F A P L A V R V E N I E I L Y A L V E E E A P R R T T A
UniRef90_B7RMT6 K L C E A V I G R A G I L A D Q R W A T P A A R A E T R E E L V A L F L T R P A A
UniRef90_B8IFZ2 A L G K E E W L D P A Y N T P R A R Q D K I F D T E A V I E G W L A D K T K Y
UniRef90_H0JC48 D A G Q P G F G S D L R F H T S T G R N A H R E V I L P I V K A W V A A N P V A
UniRef90_C5CK44 A V C K V I W I T D E A Y A T P A A R L L H L K P I F A R I E Q W T M T K D K F
UniRef90_L0IUQ9 L I G R P E L V T D P E W S T P Q A R L N K L D K M F Q L I E E W T M G L G K W
UniRef90_Q0K9T7 E A V D R T E L A V D A R Y A T N A Q R A V H R F E L K R D E A A F S R F E A Q
UniRef90_V8QZ54 K A F L I Q V I G R S D M W A T M T T R T A H S E E L S A F V S E Q M L Q R T E A E
UniRef90_H0QU97 F A S T F G I D A D R P E F A S N A E R R N R E K V I E E V E R A F A G S Y E A E
UniRef90_D9XA97 A L C T E F L G R P E R F A T G S D R V A H R E E L N T V V A R A F A R S G S D
UniRef90_F7QR04 A I D A P D L L T H P D Y A T I A L R S K N R D A L N A A I G I Y M A K R P T Q
UniRef90_A9I5Y3 R V F C D R V L G D D E R F A S N S R R A A N R D A L R A L I V Q A F A G L T D
UniRef90_I9W593 A A F C T T V L G Q A R F S N S T R Q V A H Q A E L R E L T A A F A G K T S A
UniRef90_M1T5B5 R L C D I L N L P N E R F S T N P L R C V N H Q Q L K E E L E K R L C D E T C K
UniRef90_K6E1C4 F C K K T E W L D P R F L T G G D R V N R D V L V P L I E E I T M T Q D A N
UniRef90_G8MGT3 R F A A V I F A T D E R F H T L N G R N A N R V E I L A T V K S W V A A R A V A
UniRef90_Q1LGP7 Q R F C L N V L N D P R F T T N L E R V N H R E A L D V E I G K H L N R M T R D
UniRef90_K3WG76 I K L M N A L G R E D M Y R T N A D R V Q F Q G E I D D A V A N W T V T Q L E
UniRef90_E8TW12 A V G R A D M A A D P R Y A D V H A R A R H M G E L Y D L L H R T F A T R P S A
UniRef90_UPI0003670BE8 R L C E I L R L S A V A D D V R F K T N A D R V R H R E E L T S M M E A R T R T
UniRef90_UPI0004793939 A L A R V I G R P E L T D P R F A E R E N R P A L N D A I E S A L V H R A T A
UniRef90_M7CXN4 A R L C D T L G L S E M K L A L S Q E P A D Q N A L K E A I A G K V R E K D L A
UniRef90_W3RJK3 K F C S V A G L E A I V D D P K F R T N A D R V A H R A E T L G H V Q T R P V A
UniRef90_Q0FJQ9 K L C L T L Q L P D P R F A D N A A R L T H A R E L K R L T E A R V T L E F P R S
UniRef90_W5TGH3 Q R L A R D I L R R D R F A T N A A R V R H R A E L D E A I A R V C A G H D L A
UniRef90_A0A031HT06 C A I A G T D A D D P R Y A S N A L R L A N R E A L F A Q I T A A T R T F A R D
UniRef90_A1WC68 K F C R Q V I E R P D R F A T N V A R A K H R L E L G P M L K E L T A T F P R D
UniRef90_UPI00036D7F1F A I G K P E W I S D P A Y A T N L A R Q S H I F D I F K E I E T L A D K T K F
UniRef90_H1V168 N L C R D V L G D E A L A R D P R F V S R H R D E L K A V I C G V F A R S S A E
UniRef90_D8I6D1 R R A L E A V G R P D R F A E A Q D R V R N A A E L D G I M A A W I A E R T L D
UniRef90_M0CMD3 G F C E A I E R P D P R F E T A Q D R V E H M D E L A E L A S T L G E R T T E
UniRef90_V8QWN2 S V C E V V Q R P E L F D D E R F A T T S L R A Q H Q E I M E S I F A G A D A H
UniRef90_UPI0002D63291 S L C D R L G R P D P R F A T N T A R V A H R D D L V A A L A G P L A G R T A D
UniRef90_UPI0003B7B596 R S L C T A L G R D D R F A T N T D R L A N K D D L V A L M Q A E F L K W T A S
UniRef90_W8HAX5 A R L M N A V G R P D L A S D P D K R Y L R D D D L D E A I V A W T T R S T R
UniRef90_F8GQI7 N F C R T V E A G W L D D P A F Q T A T G R A A E R H R L D E A I N R C L T A A
UniRef90_W0Z8X2 Q G L A R A F E R E D R F L D N D L R E G R A D E L A A L E A A V G E L D A A
UniRef90_E0XT92 R W A K L M W L Q D P R F A T D M D R G E N G E L L S A R M Q M W C K D M S T K

UniRef90_V9WU01 E W V K L L T E A D I C V M Q M N T P E S L L D D E H M K A V N F F E E Q D H P
UniRef90_D6KDH3 Q W A K L M T E A D I P F I E M S N T E P E S L L T D D E H M K E S V G F F V E E E H P
UniRef90_U2WV09 E W L E R L S D T N V P H M H I E M S N T E P E S L L T D D E H M K E S V G F F V E E E H P
UniRef90_UPI00036F9220 E W L E R L S S R G V P C G M P I N N Y R Q V F E D Q Q L I Q E S K L R V D L Q R P
UniRef90_Q82NF2 E W A R V C A K H S I P M A P V V L E L E R A A E D P Y V R G G R L L D V L D D H P
UniRef90_UPI0002DAA0BC H W L A R L D E A Q S D L L C A G P I N L N L S E A L A S D E D D T K A N G D T V V S L T D D A
UniRef90_D9VIF1 Q W L A D L R A A S V P C G P I N T V E Q A L A S H E H T T L A R G N D L I I S T S H P
UniRef90_L8EDH6 E W T A V F E A S D A C V A E V L S L R E A P G H P H L A A R G T F T G H G G I
UniRef90_UPI0002EB3BFF V V V E R L D A A S I A N A E V L R Y T P D E A F S D E H P Q Q I L A A R K Y R W R D V D S G P
UniRef90_Q3INV6 E W I A A L D D V D A A V E A V L R Y T P D E A F S D E H P Q Q I L A A R K Y R W R D V D S G P
UniRef90_QOCTJ2 E W L E I M E G S G M P Y A A V V N D I Q G T L N H A H V I R A R G M V T E V D H P
UniRef90_G8ASK5 E W L E L F N A A G V W A G P V V Y T P D E A F S D E H P Q Q I L A A R K Y R W R D V D S G P
UniRef90_B8G8H6 E V M R R C L E K E V P V G P L N S I A D M F N D E H F R A R A R G N L A R V D H P
UniRef90_E8TRY2 E W E A L F G E E V P C A A A R A V E D M F D E H P Q V L A E G L I E R F E H P
UniRef90_EOX560 E V M Q I C N P L D I P V G P I L S M K E I T E E E S H L S R E G T L V E I D H P
UniRef90_UPI0004787E3F E L V D I L L G A G I P A G P I Y D S M R Q I T S E E D E H S L S R E G T L V E I D H P
UniRef90_I2N7Q7 D W T A R F D G T E T C V T P V L D W T E A A R H P H H N A G R G T Y I T P D G Y
UniRef90_G7D983 D N V A F F E A A E V T I G P V V Y T P D E A F S D E H P Q Q I L A A R K Y R W R D V D S G P
UniRef90_A0R5S4 D V L A M F E S V G A T A G P V V Y T P D E A F S D E H P Q Q I L A A R K Y R W R D V D S G P
UniRef90_D6V8R9 E W I A A L D A K G I P C A I V L D Y S E L L S N E Q V A H M G L V R D M G A T P
UniRef90_UPI00037362D8 E L T A A L R A R E V P V G E V V N S I A Q A A N N E H A T A R R L V S Q L A H P
UniRef90_E0DPN6 E A V A A L A A Q G L P T A P I W N S I A Q A A N N E H A T A R R L V S Q L A H P
UniRef90_UPI00035E1FD7 Q V V E R L Q E A Q I A N A R V L N T M Q E V W E H P Q Q L R A R A R W R D L G S P
UniRef90_G2NU26 G L I A L L D G A G I A N A R L R D I A E F G A P Q Q F D A R D M V W G E F G S P
UniRef90_UPI0002D39CE7 E V V E A F E D A G A A V A P V R P S D L L T D P Q V V A T D M V T T V D D V
UniRef90_F5YRV4 K I Q H A A D A A G I G N A R Y N T A G D V L A S H P Q Q L S E R D R W R S I D T P
UniRef90_S3BWU5 E L A G R L L D E A G I P A S A P I H D V A E A L S S P Q Q V A H R A M V V V H D G Y
UniRef90_I0H9W3 E W F R D L L A A G V P C A P I N T I D G G V A L A E E L G L A P V V T H E G V
UniRef90_A0QTZ7 E A L K L L D E A G V P S G P I Y T A A D I C D D Q Q Y E A R N M L Q E P Q P V
UniRef90_A4FC53 E A M R R L D A A A I A Y A R Q R T V A E F A E H P Q Q L R A R D R W R P V P T P
UniRef90_N1PGG9 E V L E K L Q N A G I A N A E V R D M E K V W E H P Q Q L R A R D R W R P V E T P
UniRef90_UPI0003F88D73 Q W L D R F R A A G V P C A P I N N Y S Q V L A D P Q Q V D F M G W V Q A V E L P
UniRef90_A1VMJ0 A C C A A L D A A G V P A A P I Q T I D K V L S D P Q Q T L Q A R D M V V E Q D H P
UniRef90_UPI0003614F7D E W L R S F R A N N I P C G P I N T V N E L E T D P Q Q L Q A R D I V H S I D H P
UniRef90_E8TWF7 H T Q A R L L G G R I P F G P V V L Y A Q D I F H D P H F Q A R G M L V P T E Q P
UniRef90_A0A059E5A7 Y W M N L L Q N S K V P A G P I N R M S D V F E D D P H V K D I K L V Q E V D H P
UniRef90_E9J8N5 E W S A L L E G A S F P Y G A I N N I R E V F E D D P H V K D I K L V Q E V D H P
UniRef90_D7B5J2 E W E R E L A R V G V P A A R V L T V A Q A L E L D Q V A H R G L V H T L P F P
UniRef90_UPI000372FCE9 E W L E R L A Q G A D V P H A S V N S I D E V M T D P E I L A S G S F Y D I E H P
UniRef90_M0ASI9 E L V A E L E Q S V P V A P V N S I Q N T E D I F M D D S H V H A R D M L V P V D Q P
UniRef90_Q11Z73 H W L A L F E Q I D V P A V P L N T I E S L L D D P H L A A V G F F Q Q V E H P
UniRef90_B7RZD3 E W I A L L E A A N V P A G P I N S V G E V F A E P Q Q I Q A R G M Q V N L D H P
UniRef90_B3RBQ2 H T L A G M L G G E V P F G P V V I F D A A D I F D D P H F R I R G M L V E A E Q P
UniRef90_K8PT74 E L L A Q V S E A G L A V G R V R T V R E F A E S E W V K E W G A V V E V E D T P
UniRef90_R9P3G9 E W C D L I N G K I P A A P I R N I A R G T F E H D E Y Y S K A R K A V A E V E H P
UniRef90_D5RN74 E V L A H F D A A G V T I G P I M D A A D L I Q E D P Q V A R A R E A L I E V P D E
UniRef90_UPI000465D40B E W V A A A M G C D A C L A P V L S I D E A P S H P Q Q M T A R S A Y A V F D G L
UniRef90_I0RS16 E I I E T L S A A G V T A G P I N T V A E V V E D P Q Q L K A R G M I A E H R T V
UniRef90_B1HY54 E W L E V F N E F G C V E P V L T F A E A C E H P Q Q L K A R G M I V S I P K G
UniRef90_D0D621 W S K A D C E R E G I P A G P I N D L S E V M A D P Q Q V Q A R G M Q I S I P E G V
UniRef90_H6SSJ8 A V V S L C C E Q G D V P C A G P I N T V A D L V A D D P H V Q A R G N L A R R A G S V
UniRef90_K9GT67 A V M E A C L A E E V P A G S I N T I A D I F E D P H F A R A R G N L H R A R E V
UniRef90_UPI0003ACDB6B N W L A R F T E L S V W H A P V Q T H A D V E K D P Q Q I A H N E S I M T I D H P
UniRef90_M0MPH4 Q A I S K M E Q A G A I V G P V Y D I A D V F E D E H Q F A A R E D L V T V G E V
UniRef90_B1M7T9 E W V A F C D S V S I P C M P V L G L E D L P E D E H L R A A V S F F G T A E H P
UniRef90_B7RMT6 E W E I L L A A A E V P A A R V R S L D E V V Q E E Q F A A R D L I S E I Q G R
UniRef90_B8IFZ2 E A V D I L R K Y D I P C A P V L S M K E I A E D K S L R A S G S I V E V P H P
UniRef90_H0JC48 R L L A L L D E I D V P C C A K V Q R I D E V I E D P Q I K A R A G M I Q E Q H P
UniRef90_C5CK44 E A M D I L N Q Y D I P C C G P I L S M K E I A A D P S L R E T G T I V E V D H P
UniRef90_L0IUQ9 Q A L A Q L T A H N I P C C G P I L S T K V E I A E D P S L A A N D M V V R V A H P
UniRef90_Q0K9T7 S L F E R L V A V G V P C G V H N N V E A L N H A P H T A H R G M V A E I G K F
UniRef90_V8QZ54 E W Q K A L E S A D I P V F P M N T P E S L L D D E H L R D I D F F S E A E H P
UniRef90_H0QU97 P L L A M L N E A G I P A G K V R T L D E V Y E W E Q V H S Q G G L V I D V D H V
UniRef90_D9XA97 E L L K D L E A I G I A C A G V N D V A A F L D H P V L A A R G R W T E V A H P
UniRef90_F7QR04 E W I E I L N R A G V P C G P I Y S I N E V F D D A Q V K H L G I A Q P L D G G
UniRef90_A9I5Y3 Q V T E R L E A A Q I A N A R V S E M Q D V W A H P Q L Q A R Q R W R E I S S P
UniRef90_I9W593 E V I G L L E A A N I A N A R M S E M Q D V W Q H A Q L A R Q R W T E V A T P
UniRef90_M1T5B5 H W I N L L V E N N I P T G E Y N N L A Q V L E S P Q Q I Q E R E M L L D V R K L
UniRef90_K6E1C4 Y W I K K F S E K G I P V G A I N R P T D R L Y T P Q Q A I H R N M L R K V E H P
UniRef90_G8MGT3 Q V L E L D G V D V P C A K V Q R I D E V L S D P Q Q I V A R G M V V E Q H P
UniRef90_Q1LGP7 E L I E R L D Q G G I A N A P L N D M H D V W N H P Q Q I A A R Q R W R D V A T P
UniRef90_K3WG76 K V V Q I M E F Q V P V G L V Y S V E D M I K D E H F Q H R K M F E E Q E H P
UniRef90_E8TW12 E W V A L L T E A D I P A I A M N T P E T L L D D A H M R A V G F F G E Q E H P
UniRef90_UPI0003670BE8 D L L A D L A C V G V P A G P I N T V K D V F A D P Q Q V A H R K M A V E N E G I
UniRef90_UPI0004793939 E W E P I L T K A G I P T E G C V L N I V G E A L A S D Q Q L E G R G V L Q E F D D A
UniRef90_M7CXN4 E W Q S I F A E Q D A C V T E P V L T I S E A A E H P Q Q L K A R G M V I E F D R G
UniRef90_W3RJK3 D W D E T L A K I G V P C S P I N S L A Q L L D H P H T K S T G M I V E Y E H P
UniRef90_Q0FJQ9 H W L A K L T A A G I P C A P Y L T S M E Q V M K D P Q Q L L A R N M L V D V L D R
UniRef90_W5TGH3 T V I Q A T A D A A G I G N S R Y N T P S E V N A H P H L L A R E R W R W G T P
UniRef90_A0A031HT06 D L L A R L A A A G V P A G P I N S V E Q A L T D P Q Q I A A R G L V I G S D P I
UniRef90_A1WC68 L L L Q R L T A A G I P C A K V A G L H E A L T S E R T R R G R L V Q D M P H P
UniRef90_UPI00036D7F1F E A V N I L K K F E V P C A P V L S M K E I E H D A A L R E A G T V V E V P H K
UniRef90_H1V168 E V L A K L D G A A I A N A N V N D M Q G V W N H P Q Q L K A R A R W T D V E T P
UniRef90_D8I6D1 D A M T V E E A N V A A A P V Y D A E Q L L A D P Q Q L Q A R E G V Y P S I P D A
UniRef90_M0CDM3 E W M D V L V D A G I P A G P I N T V E E A L S N E Q T L Q A R G M V T R I D D G
UniRef90_V8QWN2 F W L E Q F R A A G V P C A P I N T P Y S D L A D E Q V K H M N W V Q N I P L P
UniRef90_UPI0002D63291 G W F E E L T A A G V P C G P I N S A V E F G L A D R L G L A P Q V P E S A A G P
UniRef90_UPI0003B7B596 D L I E A L V D G E V P A A P I N S V E A L T N P Q V L A H R D M V V R S A Q H R
UniRef90_W8HAX5 D V V T E L S D A G V P A S D V Y D A A R V S D E H Y V L A R G M I V D V E D G
UniRef90_F8GQI7 F S A A R L N A A G V P C G P V N T V D I G Q A F E D A Q V V R H L R M T R P A E H P
UniRef90_W0Z8X2 E A L A R L A A N G V P S A P V N T V D A A L A D P Q V V Q S D M T R Q L E G R
UniRef90_E0XT92 E V L D A L D E A R I P C G P V L S A K Q V L Q D P H L K T M D F L Q D M P G L

UniRef90_V9WU01 R T I G L A H E W S S A T P G A L R P A P R L G E H T T E L L H E Y
UniRef90_D6KDH3 R S L G I A Q Q W S E T P E L R Y P A P R L G E H S V E L L A E Y
UniRef90_U2WV09 T M P K L P I Y F S E T P A S I R L P P K L G A H N D E V L L S E
UniRef90_UPI00036F9220 D G S M V P L I R L Q S E T P P V Y R A P P T L G G D A T E D V L L G S L L G
UniRef90_Q82NF2 R T V G I P V R F S A T P G S V R R A P L P G Q H T E E V F G E L L G
UniRef90_UPI0002DAA0BC L G L V G T P L T M H P S A F Q H P P D L G A H G D E V L A E
UniRef90_D9VIF1 T Q V N T P V R V G A A R K D H E R A P G R G E H T A A V L R E L L G
UniRef90_L8EDH6 T Q P A
UniRef90_UPI0002EB3BFF E G P I P V T F K E M D Y S M G P V P A L G E H T T E S I L L A E L
UniRef90_Q3INV6 P R V G F P L R G S A V P A A E G D V P G H G E H T D T L L A
UniRef90_QOCTJ2 A L V N T P I K Y S A T P G V R T P P T L G G Q H T N E I L L G E I L L
UniRef90_G8ASK5 T T P G F P I K F S K T P S E V R G A P L T G G E H T T R E V L L
UniRef90_B8G8H6 V V P N V I P T L S E T P G R I T L G P S L L G N A T Y E V L R E L L G
UniRef90_E8TRY2 T L G A G P L D F S R T P G P A P A A P T L G G Q H T A A L K E
UniRef90_E0XS60 E R V G C P V K L S A S P A E V K R S P T L G G E H T K E I L R T E L G
UniRef90_UPI0004787E3F V I G G N P I K L S D M K P R I R P A T L L G G Q D N V S I Y R D V L
UniRef90_I2N7Q7 P E P G T A P R F L I G T P S P E P R P A A V G S D T D E V L R E
UniRef90_G7D983 D M G A V P V R L S E T P G S I R P A P R L G G Q H S R T I L R E
UniRef90_A0R5S4 T L G A V I A Q L S R T P G Q I R H P P A V L G G E H T N D E I L R T E L
UniRef90_D6V8R9 T K T V G F P V S G F T F D I E R A P P Q L G A H N D E V F A E W
UniRef90_UPI00037362D8 P A L R T P L R L S G A D P E P G T P P G L G G A D T E S V L A E Y L G
UniRef90_E0DPN6 V L G V A P V R F S G V P V A A T A P R L G G D M E A V L K
UniRef90_UPI00035E1FD7 V G P L P A L G W E D G D P C M G P I P A L G E H T D A I L R E L
UniRef90_G2NU26 V G P L P V E V T G R R A P M R P V P G L G G A D T Q A V R A E F S G
UniRef90_UPI0002D39CE7 R M Q N V M W R M G R S P G A I R H A G R P G A D T D R V L S
UniRef90_F5YRV4 A G P I P P V I A G F E P P M G P V P A L G E H T E A V L G E L
UniRef90_S3BWU5 R G I A T P I G L T R T P G R V R G A P R P G G A D T R A V L R E
UniRef90_I0H9W3 P G V R N P I T F S E T P A R Y E P P P R L D E H G E I R A W L
UniRef90_A0QTZ7 G F P G I V P V I G G A S L P I R N V P D L G G E H T H E V L S G I L L G
UniRef90_A4FC53 V G L V P P V T V A G N K P V M R P V P A L G G E H T E P V L A W L
UniRef90_N1PGG9 N G R L P A L K P A G A V R M D P V P S V G G E H S E A I L K E F
UniRef90_UPI0003F88D73 N G M G A P V R I D N T Q P I R T R P P A L G G E H N T E I L
UniRef90_A1VMJ0 L L P N L P F R F S G C D T S P G P A P M L G G E H N R E I A
UniRef90_UPI0003614F7D T A G G S P L K L S R T P A K V R Y P P D A G G E H T N E I M E L
UniRef90_E8TWF7 T I A G T P I H M G R T P G G V R R A P L V D E H A G E I L R E F
UniRef90_A0A059E5A7 T G P V P I R T Y S H T P V I T Y R A A P G L G H D T L N V L T T V L G
UniRef90_E9J8N5 V L V G P P V T Y S A T N V Y R S P P T L G G Q H T S E
UniRef90_D7B5J2 R V L G S G V R V D G A P G P R T A P P L L G E H T E Q V L R E
UniRef90_UPI000372FCE9 E M G T V P V L Y D G E R Q E G R C P T L G G E H T E E V L A
UniRef90_M0ASI9 G I A G S P L K M T E T P P E P R R A P L L D E H R T E I L G
UniRef90_Q11Z73 T F G A P A R W E G Y D V G K L A P A P R L G E H T E S V L R E
UniRef90_B7RZD3 L L V G N P I K L S R T P V J E Y R A P T L G G Q H N E D F L
UniRef90_B3RQB2 T I A G S P V R M S A T P G G V R R A P M T L G G E H T D C T L A D L
UniRef90_K8PT74 R M P G N P W R F S E S E L P L P G V P A F G E H N E I L R E
UniRef90_R9P3G9 R L V A P A V R Y G D G K M K I R P P V L G G Q H T D E V L R Q E L G
UniRef90_D5RN74 D M P D G H V R L S A T P G I L A R P P K L G G E H N E A I L R P A L G
UniRef90_UPI000465D40B R H P Q P A P R F S R T H S E L S R P P M P G R D S R A A L V D W
UniRef90_I0RS16 L G P G I V P V L S E S P G T L R A G P A P G G H N D D I Y V G L L G
UniRef90_B1HY54 D G T A S P L K F D G S E P E Y K H V G A L G E H N E E I L S
UniRef90_D0D621 P G V R S P F K F S D A E L C L D R A P K L G
UniRef90_H6SSJ8 L V P A V L P R L S A T P G R L E A A P V L G G A D T V R I L Q
UniRef90_K9GT67 V V P N V V P R L S D T P G R V E S G P E L G G N A E I Y G K L C G
UniRef90_UPI0003ACDB6B T L P A H P V R Y D G E R V P V R P P A L G G E H T R Q V L A E V L G
UniRef90_M0MPH4 T T H A P V P K F S E T P G E V K R G G E R G G H N N E I Y C D R L G
UniRef90_B1M7T9 R T M R R P V S F S G S R F A I R R A P R H G G E H T A E V L A E
UniRef90_B7RMT6 D L P V H V P N L P F K A H P A S A P P V L G S D T E A V L R
UniRef90_B8IFZ2 L T V G S P I K F S D L T D D V M P S P L L G G E H T D E V L R G L
UniRef90_H0JC48 R M P N L P F R F S D C D T I Q Q A P D L G G E H N A A V A R
UniRef90_C5CK44 T R V G N P I K M S D S P T E V T R S P L L G G E H T D E V L M Q L
UniRef90_L0IUQ9 E R V G C P I K L S D S P V D V V R S P L L G G E H N A H I Y G D E L G
UniRef90_Q0K9T7 K S V A S P V K L S R T P A T Y R E A P E I G A N T V E V L R E
UniRef90_V8QZ54 V V G V P S E W H G T P P T N Y R L P P M L G G E H S C Q I L K E V
UniRef90_H0QU97 T L P G P P L R F E T L K R H T A P P L L D G D G E Q I L R Q W L G
UniRef90_D9XA97 G A T V P P A D L A G L P A R M D P V P A V G G E H T E S I L G E L
UniRef90_F7QR04 K Q L V G Q P T L S R T P S R M A R P P L V G G E N T R D V L T E F
UniRef90_A9I5Y3 A G T L P A P P A S S N A P R M D P V P A V G G E N T D A V L A
UniRef90_I9W593 A G T V P A L V A P G E P V R M D P V P A L G G E H T D S I L A
UniRef90_M1T5B5 T V A G N P I H I G S F V A K V K R P P T L D Q D R Q E I I K G L
UniRef90_K6E1C4 L L P G I P W K L P G L D D D E I M S P P L H G Q H T
UniRef90_G8MGT3 R L P N L P F R F S D C D T T I R D V P D L G G Q H N V E V
UniRef90_Q1LGP7 A G L L P P A T L T N A P A R M G D V P D L G G E H T A A I L G K L L
UniRef90_K3WG76 T L P A I V P K L K G T P G R T Q W A G R L G G Q D T R Q V L R D V L
UniRef90_E8TW12 R T I G L P Q W S E S P A T L R P P R L G G E H T Q E L L G E Y
UniRef90_UPI0003670BE8 P G I R T P I T F S G A M L Q H R K S P K L G G E H N G K V Q S D W
UniRef90_UPI0004793939 P G V G R P I R V A R T P E A G S A P V L G A D T D A V L A
UniRef90_M7CXN4 R Q L G C P I R F
UniRef90_W3RJK3 V A G A Q P I L F N E Q P R K V G P P P T H G Q H T D E V L A E
UniRef90_Q0FJQ9 Y G A G N P I K I S G M E P A R P A P P E L D G G N R A D S I L L R W L
UniRef90_W5TGH3 A G Q V P P V V S G Y E P P M G A V P A L G G E H T D S A L
UniRef90_A0A031HT06 R G L R T P I R F S D A A L A D R P A P R L G G S G D D E
UniRef90_A1WC68 V E G A P P Y R L D G Q R L P I T R A P P T L G G E G T R E V L H R L L
UniRef90_UPI00036D7F1F E R V G S P M K F S E F T P K I T A S P L L G G E H T D S V L A G L L
UniRef90_H1V168 A G K I P P P G F S V E E S R M G K V P G L G G E H N E A I F R E L L
UniRef90_D8I6D1 R V I Q A P V P R F S A T P G R I D H G P A L G G E H N N E V Y G G L L G
UniRef90_M0CDM3 D R E I P V I E H P A D S G F D S P P A L G G E H T D E V F A E
UniRef90_V8QWN2 R T F A S P I R F D G H T S Q I T G P P A L G G E H N D
UniRef90_UPI0002D63291 G Q V A N P I R L D A T P S Y R A P P R L G G E H T E A E L L A
UniRef90_UPI0003B7B596 T G G S P V K P D D A L G G E F V S P P R L G G A D S E A V L R
UniRef90_W8HAX5 R F P G V V P Q F D G Q A R K V W L G P D L G G A D T E P V L G R M L G
UniRef90_F8GQI7 A L G R S P I N L S A A P P A R A A P D P G G E H T D E S V L R G L
UniRef90_W0Z8X2 R A V G N P I K T H G R T R H I A P P R L G G E H T D E S V L R D V A G
UniRef90_E0XT92 N K P I P V K L S Q T P G T I R R T A E L G G E H T D E I L

UniRef90_L8HA58
UniRef90_BOT6G5
UniRef90_G8PQF0
UniRef90_X51TH1
UniRef90_UPI000468E542
UniRef90_D8PZM8
UniRef90_H3NU18
UniRef90_UPI0004703938
UniRef90_F2J6M2
UniRef90_A1W297
UniRef90_B9L150
UniRef90_K0MB38
UniRef90_Q0RXB4
UniRef90_A0A038H2J3
UniRef90_U7DTS1
UniRef90_W5TJE0
UniRef90_W2ET56
UniRef90_B8KU02
UniRef90_W7F4Z0
UniRef90_J2KGW8
UniRef90_A9BP93
UniRef90_UPI0004766E19
UniRef90_G9ZZK9
UniRef90_UPI0003696F22
UniRef90_D2PNL6
UniRef90_C5D0R8
UniRef90_G8NSD0
UniRef90_A3K7Z0
UniRef90_UPI00036131F0
UniRef90_D5ZRQ4
UniRef90_L8F7N2
UniRef90_L9WDV4
UniRef90_X1Y605
UniRef90_G6ECK1
UniRef90_A0A059E4H3
UniRef90_H1S0W2
UniRef90_I0DW69
UniRef90_H1SAY3
UniRef90_F4CUP7
UniRef90_V4XU43
UniRef90_V6M4E1
UniRef90_UPI000477B3EC
UniRef90_W5JBK3
UniRef90_D2B3Q1
UniRef90_F4CT56
UniRef90_A5FZ16
UniRef90_A4SX74
UniRef90_I0RX03
UniRef90_F4L9K7
UniRef90_D3BV77
UniRef90_V8QXA5
UniRef90_A9ICD5
UniRef90_UPI000471B848
UniRef90_W6QQA5
UniRef90_J5E1Y4
UniRef90_Q46RV1
UniRef90_A4ALU1
UniRef90_UPI000467C340
UniRef90_Q9KJE9
UniRef90_K6VY26
UniRef90_S5Y51
UniRef90_K8XG98
UniRef90_UPI0002F5F4FB
UniRef90_A0A034UPS3
UniRef90_A1WS90
UniRef90_A4ALT8
UniRef90_M4UQE3
UniRef90_HOFFN9
UniRef90_K0HQM6
UniRef90_S2JT17
UniRef90_C1AV84
UniRef90_D8IYV7
UniRef90_UPI000378A557
UniRef90_C1BBC6
UniRef90_L9WMH2
UniRef90_HOYUN7
UniRef90_UPI00036AE1B5
UniRef90_UPI0004672154
UniRef90_Q1GJP4
UniRef90_M0EB05
UniRef90_H8IPE0
UniRef90_UPI0001FFEED8
UniRef90_UPI00037BE93A
UniRef90_UPI0002D2E405
UniRef90_L0JLK9
UniRef90_H0TEK5
UniRef90_A0A051TVP8
UniRef90_K9AL09
UniRef90_I0RQR3
UniRef90_E8TCT3
UniRef90_A1UJM0
UniRef90_A0A059FB49

1 10 20 30 40
A L Q G L K V L E L A G L A P V P Y C G L V L A D F G A D V V R I V D R W P
T G P L K G V R V L D L H T T I L F G P Y A T Q I L L A D L G G A D V I K V I E E A H A P
UniRef90_L8HA58
UniRef90_BOT6G5
UniRef90_G8PQF0
UniRef90_X51TH1
UniRef90_UPI000468E542
UniRef90_D8PZM8
UniRef90_H3NU18
UniRef90_UPI0004703938
UniRef90_F2J6M2
UniRef90_A1W297
UniRef90_B9L150
UniRef90_K0MB38
UniRef90_Q0RXB4
UniRef90_A0A038H2J3
UniRef90_U7DTS1
UniRef90_W5TJE0
UniRef90_W2ET56
UniRef90_B8KU02
UniRef90_W7F4Z0
UniRef90_J2KGW8
UniRef90_A9BP93
UniRef90_UPI0004766E19
UniRef90_G9ZZK9
UniRef90_UPI0003696F22
UniRef90_D2PNL6
UniRef90_C5D0R8
UniRef90_G8NSD0
UniRef90_A3K7Z0
UniRef90_UPI00036131F0
UniRef90_D5ZRQ4
UniRef90_L8F7N2
UniRef90_L9WDV4
UniRef90_X1Y605
UniRef90_G6ECK1
UniRef90_A0A059E4H3
UniRef90_H1S0W2
UniRef90_I0DW69
UniRef90_H1SAY3
UniRef90_F4CUP7
UniRef90_V4XU43
UniRef90_V6M4E1
UniRef90_UPI000477B3EC
UniRef90_W5JBK3
UniRef90_D2B3Q1
UniRef90_F4CT56
UniRef90_A5FZ16
UniRef90_A4SX74
UniRef90_I0RX03
UniRef90_F4L9K7
UniRef90_D3BV77
UniRef90_V8QXA5
UniRef90_A9ICD5
UniRef90_UPI000471B848
UniRef90_W6QQA5
UniRef90_J5E1Y4
UniRef90_Q46RV1
UniRef90_A4ALU1
UniRef90_UPI000467C340
UniRef90_Q9KJE9
UniRef90_K6VY26
UniRef90_S5Y51
UniRef90_K8XG98
UniRef90_UPI0002F5F4FB
UniRef90_A0A034UPS3
UniRef90_A1WS90
UniRef90_A4ALT8
UniRef90_M4UQE3
UniRef90_HOFFN9
UniRef90_K0HQM6
UniRef90_S2JT17
UniRef90_C1AV84
UniRef90_D8IYV7
UniRef90_UPI000378A557
UniRef90_C1BBC6
UniRef90_L9WMH2
UniRef90_HOYUN7
UniRef90_UPI00036AE1B5
UniRef90_UPI0004672154
UniRef90_Q1GJP4
UniRef90_M0EB05
UniRef90_H8IPE0
UniRef90_UPI0001FFEED8
UniRef90_UPI00037BE93A
UniRef90_UPI0002D2E405
UniRef90_L0JLK9
UniRef90_H0TEK5
UniRef90_A0A051TVP8
UniRef90_K9AL09
UniRef90_I0RQR3
UniRef90_E8TCT3
UniRef90_A1UJM0
UniRef90_A0A059FB49

UniRef90_L8HA58 S A D V L A R G K R S L A L L D L L K K P E E G V Q T L L R L A E K A D V L I E P F 80
UniRef90_BOT6G5 L F M M T N R N K R S L V A L L D L L R S T D E E G A A Q M R T L L A A T A D M V F V I S E N T F R R
UniRef90_G8PQF0 G D D T F R K W N K H S L L G L D D M R M S E E E G V E M L K E L L A A T A D M G L I I E E G F K R
UniRef90_X51TH1 K G D D F P L L D S R S F D V L I A R G R R S R S L A L D L R A P L G A S A D A D M G L I I E E G F R R
UniRef90_UPI000468E542 Q F Q A H N R N K R S L S L D Y T R P E E G L A V L D R L V A Q S A D A I I I L N M R
UniRef90_D8PZM8 Y F L A C N R N K R S I S L V N D L L K S E E G G M E V M K R L V A K K A D A D V F L V I E Q N Y F
UniRef90_H3NU18 A F Y S C N R N K R S I S L V N D L L K S E E G G M E V M K R L V A K K A D A D V F L V I E Q N Y F
UniRef90_UPI0004703938 D Y Q N T H R N K R S I S L N L L K H P E Q G L A L F Y D L V R D A D A D V V I I E Q N Y R
UniRef90_F2J6M2 W W S V H G R N K R S V A L L D L L K R P E E G V E A A A R L L I A R T A D A D V L V I E Q N L A
UniRef90_A1W297 H F T W I N R N K R S V A L L D D V K Q P E Q A K A A L L Q L L I K T A D V L V I E Q N L A
UniRef90_B9L150 Y F L S V N R N K R S V V L D L L K H P E E G T R V A Q E L L A S R S A D V V L V I T A N F R
UniRef90_K0MB38 M F L Q L N R N K R S M T L D L L R T D D Q G R E I V R K L L V A G A D V V I E A N M P
UniRef90_Q0RXB4 D E T R G W H S K E N I T L D L L R T D D Q G R E I V R K L L V A G A D V V I E A N M P
UniRef90_A0A038H2J3 S E D R F V M N K R S I T L D L L D I D H P E Q G R E V V K R L L I R D A D A D V V L I A N M P
UniRef90_U7DTS1 S F M V V N R N K R S I T L L N L K T S A G G R D V L R R L L L M D R A D V V L T S N Y R
UniRef90_W5TJEO H F V W V N R N K R S V T L D L L K S A A G V E L L H T L L L D R A D V V L T S N L A
UniRef90_W2ET56 D D T R S W T P P T R G E V S T Y Y D A D A A A A R E L L A R R A D V V L V I E N F K
UniRef90_B8KU02 W Y R N T H R G K R S L E L D L L K T P E Q D R A T L L A L A K E A D V V L I E G F R
UniRef90_W7F4Z0 G D D T R H W T V K G E G P T W K N Q K G K K I L F E L L A K Q T D V L V I E N F K
UniRef90_J2KGW8 G D A G R Q H A V F V G D H N T K D P R G R A L M K K L V D S A D V V F V I E N Y R
UniRef90_A9BP93 F F V W A N R N K R S L A A D L K T S A E G G H I V G K L L E N A D I L I E Q N L A
UniRef90_UPI0004766E19 W W A A Q A R N K R S C I T L D L L K S E A G R D V V L R L V R R R C D V V I E N M R
UniRef90_G9ZZK9 D F I N F N R N K R S V L L D L L K S P E E G M V A M R R L L A G A D V V F V I S N V R
UniRef90_UPI0003696F22 H F V W L N R N K R S V A L D L L K S E R G R E A L T T Q L L V R G K A D V V L I E Q N L A
UniRef90_D2PNL6 G D D S R G W G P P F V T A D L L K S A E G K E F L L T Q L L V R K A D V V L I E N F R
UniRef90_C5D0R8 G D D T R D W G V R I G R H N T S Y F N S C N R N R E L L A A Q C D V V I E Q N F K
UniRef90_G8NSD0 D W K T Y S R N K R S L C L D L L R H P D S R D L L L R L L I A G A H V M V I E S F R
UniRef90_A3K7Z0 D F I R T Q K P M R D G A S T Y K N R Q Q D V D A V R R L L I A T A D A D V V V I E N F R
UniRef90_UPI00036131F0 H F V W C N R N K R S V T L D L L K S P A G V E L L H K L L L D R A D V V L V I E N L A
UniRef90_D5ZRQ4 S F L A Q N S Q K R S V T V N L K T D G G K K V F E Q L L L A D A D A D V V L I E N F R
UniRef90_L8F7N2 M W K S I T S R N K R S I T L L N L R H A E G G E L A R R L L A V I E A D V V I E N T R
UniRef90_L9WDV4 I F E M V N R N K R S V A I D L L K S E D G R A A F Y R L V E E A D V V L I E G F R
UniRef90_X1Y605 G D E S R K W N R N K K S V Y C V N L K T G R E V I Y E L A R K C D V V I E N Y V
UniRef90_G6ECK1 L F L Q M S R N R N K R S V A Y D P R A K G S A M V E R L L I A D A D V V V I E N V P
UniRef90_A0A059E4H3 C H L T I N R N K R S V V W D L K S E H G K A A I R K L I E Q S D V F I H N I R
UniRef90_H1S0W2 D N L R K Y P S S L E A E S R A K Q A G D L Q R L M A L V R T A D V V V I H N F R
UniRef90_I0DW69 G D D S R H L G P F I D G E S V K S E T D R E I L Y Q L L V K E S D V V V I E N F R
UniRef90_H1SAY3 D S A R H F D G T S A Q S P M F R Q P R G V I E V A R R L L A L G A D V V V I E Q N T R
UniRef90_F4CUP7 W W K E I S R N K R T I G L S L S D P A G A A V F K E L A A T A D V V V I E N F R
UniRef90_V4XU43 H L R H F G P Q A D G H G V W W K Y L A R N K R F A D L V S E A D V V V I E N F R
UniRef90_V6M4E1 L W K T L N R N K K G I T L N L S K P Q G Q E L F K K L V A Q V D V V V I E N Y R
UniRef90_UPI000477B3EC D D Y R H L G P F F N I A M D L L K P P D E I K A L R G L L I S Q A D V V V I E F R
UniRef90_W5JBK3 P L D V L Q G G K R S L A L D L L K P K A I E V V R S L C R K S D V L I E P F R
UniRef90_D2B3Q1 F F E A F N R N K R S L S L D I A T P G G R E V F E D L V R G A D A V V Y S N L R S
UniRef90_F4CT56 G D F W L N R N K R S L S L D L K A A A G R D V L E R L L A G A D A D V V V I E Q N L S
UniRef90_A5FZ16 D E V R D W R N K R A M T L D L K A H E A G R A V L R L L E A D A D V V V I E N F K
UniRef90_A4SX74 W W Q V Q S R N K R S L S L D L K Q A E A Q D I V R T L L K E A D V L I E N F R
UniRef90_I0RX03 Y F V W L N R N K R S L A L D V K P E E G Q Q I L R R Q L V A D A D V V I E Q N L G
UniRef90_F4L9K7 V D P N E A M F A A D R W S L N L K K P E E G M A V L R R L V A G A D V V V I E N W R
UniRef90_D3BV77 D S I V S Q P I D H S I A T N L K H K E G V E V L R S L A K K A D V L I D S Y R
UniRef90_V8QXA5 D S Q N L H R N K R S I C L D L L K S P E E G R E I L Y T F V K K A D V V V I E N F R
UniRef90_A9ICD5 D W G R Q I G Y K R S I C L D G A K S P D G R S L L R L A L D A D V I E G F R
UniRef90_UPI000471B848 D T T R G V G P R R R H V G M D L K D P E E G L A T L R R L I P G A D A V V Y S L R
UniRef90_W6QOA5 H F V W T N R S K E S L A L D L K C S K D H A V L M K L L E K A D V V V I Q N L A
UniRef90_J5EY4 M Y L V C N R N K R S I T L L A S H R A E A P I V E A L L G T A D V V V I A N L P
UniRef90_Q46RV1 D Y E N L H R N K R S L T L N M K T P E E G V K L L H E L V S R A D V F I E N Y R
UniRef90_A4ALU1 D T Y R T F P P V E S S A A G T S T E S G R E T F L Q L L V A R A D V V I E Q N L K
UniRef90_UPI000467C340 G L P A L V R N R S T L E V L D L K D P S D A R E Q V R E A V A A A D V V I E G F R
UniRef90_Q9KJE9 Y F A A R N A N K R D I A L D M S H P R A R E V A V R L I E K S D I V I N N F R
UniRef90_K6VY26 S V P A L V R N R E T L E V D L T D E D E C T K V R G L I A A A D V V V I E G F R
UniRef90_S5Y51 D D T R R W G P P F I K T A D F R S P E E G Q A K V R E L I R A D A D V L I E N F K
UniRef90_K8XG98 H F V W L N H G K E S A A L D L T A P A D H D L L H D L L A S A D V V I V S N L A
UniRef90_UPI0002F5F4FB D D T R S W M P P H S V L D L K S E D D R Q V T A R Q I A A R C A D V V V I H N F R
UniRef90_A0A034UPS3 G D E L R N W R L Y G G D S M R S E A G R N V V L E L L A R C A D V V L I E N F R
UniRef90_A1WS90 H F V W T N R S K E S L T L D L L K H P E A L A A L R Q L L A Q T D V V L I Q N L A
UniRef90_A4ALT8 Y F A D R N A G K K S V S I D L N H P R A R D L V L R L A A V S D V C A Q S F R
UniRef90_M4UQE3 D F R A F N R N K K S V V L D I T D E G R A A A R E L A G O C D V V L I E N F R
UniRef90_HOFFN9 F F P M F N R N K K S V A L L D L L R S P E E G L A V A R K L A A S A D V V A Q N F K
UniRef90_K0HQM6 W F R S M A R N N K K S I C L D L L K T S P E E G R R L V K R L L A E S D V L I E N F K
UniRef90_S2JT17 W W K V I S R N K K C I T L D L L G T E E E G Q Q I L R D L V V I D V D V I E N F R
UniRef90_C1AV84 H F V W T N R S K E S L T L N L K D E P E E G R R I I D Q L L V Q A D V V V I Q N L A
UniRef90_D8IYV7 H F V W C N R N K R S L A V D L K D P E E R G I G V L R L L Q A D A D V V V I E Q N L A
UniRef90_UPI000378A557 E D S R H L G P F R D G E S I Y K D P A D R Q V L L D L L D T A D V V I E N F R
UniRef90_C1BBC6 G D V N R H W D S A V Y G D S S K S P D E G S T I E S E L L A E A D V V I E Q N Y A
UniRef90_L9WWMH2 H G D V Q A R W G K R S L A L D L K Q P E Q G A A V L R R L C G A A D V V L I E P F R
UniRef90_HOYUN7 G D D T R H W G P P F V T I D M A S A E G G Q A L I R E M A L R A D I V V I E N F K
UniRef90_UPI00036AE1B5 Y F V W L N R S K E S L T L D L L K T S A G G Q A L R E V L A D A D V V L I Q N L G
UniRef90_UPI0004672154 D D T R R W G P P F C V T A D F R T S E E G Q A Q V R D L V R D A D V L I E N F K
UniRef90_Q1GJP4 Y Y W T L S Y G K K S L E L D L L K N D D A K E A L Y E L V E E A D I F I Q N F R
UniRef90_M0EB05 V F H A M N T N K R S V T L D L L G S E E G R R V A R R E L V A G A D V V I E N F S
UniRef90_H8IPE0 Y F F A F N R G K R S I T L D L L K D E R G R D V A R R L A A G A D V V V I E N F L
UniRef90_UPI0001FFEED8 D T V R G I G P M R H A G M D L K K P E E G L A A F F K L V E T A D V V V Y N I R
UniRef90_UPI00037BE93A D P A R Q M A P F A Q D Q S V W K S D A G R A W L T E L I A T A D V V I E G F R
UniRef90_UPI0002D2E405 G D V N R H W D T F E Y G S V N L K A D A G R A V F R E L A A E A D V V I E Q N Y S
UniRef90_L0JLK9 S F V A V N A G K Q S V A L D L L K S E A G R D V F L R M V D Q A D V L I E N F R
UniRef90_HOTEK5 W W K V S G R N K R S V T L N L R A P E G Q D L A R K L N V A W A D V L I E N F R
UniRef90_A0A051TVP8 G D D S R S W G P P F V G P D D D P Q A T Y F L S C N R N A R A D V L I E N F R
UniRef90_I0RQR3 D P L R S F T A S R S A V P E T R T S P D S E R C R A E L A A A D L V V V T A T
UniRef90_E8TCT3 S F L A Q N A G K R S V V L D L L K Q S A D R E F F D L V A S A D A L V I E N F R
UniRef90_A1UJM0 D P L R R W C S K H S V V A D P A E S D I A F V E D L L A S A D A V V W S R G
UniRef90_A0A059FB49 D P L R I F F R K K S L A I D T S K P E G Q K L L R K M V E A D V F L T N V R

UniRef90_L8HA58 P G V M E R L L G L G P D 90 100 110 N G Y Y A Q R A G
UniRef90_BOT6G5 A S A L D R L K G L G Y E D Q V L S A A H P A L I Y A H A S G Y G A Q G G P Y Y A G R A A
UniRef90_G8PQF0 V G D L A R K M G L A P E D D L S R A R K N D P R L L V Y C S T G F G Q Q G G P Y Y A G R A A
UniRef90_X51TH1 P G V M E R M G L A G Y E A C L R R R Q P R L V Y G R M T G F W G G Q Q G G P Y Y A G R A A
UniRef90_UPI000468E542 P G V E D K L G L G A E R L Q A L N S P R L V V C S T T G F G A S T G G P Y Y A G R A A
UniRef90_D8PZM8 S G K L A E M G L G H A H C A R E W N P A L I Y A S I S G Y G Q S T G P Y Y A G R A A
UniRef90_H3NU18 P G A L E R M G F G E D V L A R E N N K K L I Y V S I S G Y G F G E S T G P Y Y A G R A A
UniRef90_UPI0004703938 P D V K Q K L K I D Y E T L L A S I N P R I V L A S V S G F G Q T G G P Y Y A G R A A
UniRef90_F2J6M2 P G A L A R L G L G R E A L L E A L R P G L I V A H I S V S G Y G Q D G P Y Y A G R A A
UniRef90_A1W297 P G A A A R M G L S Y E A L K A H N P K L I V C A D I S V S G Y G A D D G P Y Y A G R A A
UniRef90_B9L150 P S A M Q R L G L D E S T L R T R N P R L I Y C Q V T T G Y G P R G E P W A D R P A
UniRef90_K0MB38 P R T L K S L G L D Y A T L S G V N P G L I L V A S N T A F G D A E A V R D R V G
UniRef90_QORXB4 A G T L A R W G F D Y E T V L A D N P R M V Y C R I T G F G V D G P M G G L V G
UniRef90_A0A038H2J3 P A T L A N L G L D Y E S L C A I K P D I I L T A S S A F G S H A D A A N R V G
UniRef90_U7DTS1 A G T M E K F L G S Y A D L K T L N P G L I Y C A I T S D G F G R S G G P F G S E K G G
UniRef90_W5TJE0 P G A I D R L G L S A E T L S E R R H P D L I S L S I S D G F G A G S G P L S S H K K R A
UniRef90_W2ET56 P G G L A K Y G L D Y D A V L S A G N P G V V Y A S I S G F G S G P G S S D V P G
UniRef90_B8KU02 A G V V K K L G V D A E T L C A G L N P R L I Y C S I S A F G N S T G P L S V K A S
UniRef90_W7F4Z0 P G T M E C L G L V Y D K L K A V N P R L I Y A S I S A F Y G N S T G P F A H R K G G
UniRef90_J2KGW8 P G A L D K L G L G Y A E L A E T N P R L V Y C S I S A Y G H T G P D S H R A G
UniRef90_A9BP93 P G A M Q R M G M D F D S L H E K Y P R L I V C D I S G Y G E G T G P L S D K K A
UniRef90_UPI0004766E19 P G V L E K L G L G W E Q L S Q A N P S L V M V R I S G F G Q T G P L R A Q P G
UniRef90_G9ZZK9 P A A L E R L G L D H A T L L R S N P K L I Y C G L L A F G S A G R Y A N R P A
UniRef90_UPI0003696F22 P G A V A R L G F G A D E L H A C H P E L V T V D M S G Y G S S G P Y H D K R A
UniRef90_D2PNL6 P G V L A R L G F P A V Q R L H E L N P G L V I L S I T G F G S D G P E G G R A G
UniRef90_C5D0R8 Y G G A Q K M G L G Y E D L R K L N P G I I Y C S I S G Y S V L G P E K A R P G
UniRef90_G8NSD0 P G T L E S M D L S H P E L L A V N P A L V L A R S I S G F G Q Q G G E A D R P A
UniRef90_A3K7Z0 P G V M E R M G L D S P E L L R R D Q P A L I Y C S I S G F G Q Q G G E G A E R P A
UniRef90_UPI00036131F0 P G A T A R L G V A P D Q L A R S H P D L I A V E I D G F G A G T G P L S H K R A
UniRef90_D5ZRQ4 P G V L Q R L G F G W Y E R L R E A N P R L V Y C A V I T S G F G A T S G P M R S R P A
UniRef90_L8F7N2 P H T L R R W G L D Y E R L R E A N D R I V M L H I T G F G L S G P K S E R P G
UniRef90_L9WDV4 P G V V D R L G I D C E T L T E Y N D E L V Y C S I T G Y G Q D G P W A D R A G
UniRef90_X1Y605 P G K L D E L G L G Y A S L R T I A P D I I L A N V S I T G F G P S V N G P Y R D R P G
UniRef90_G6ECK1 P S A L G K M G L D Y E A S L R T I K P D I I Y V H C L G F G S D G P Y A G R P A
UniRef90_A0A059E4H3 P D A V A R L G L T F E E V R T V K P D I V Y V H C L G F G S D G P Y A G R P A
UniRef90_H1S0W2 P T V P P R L G I A Y E Q L K L V N P R L I Y A S V I T G Y G E D D S P L A K N Y P A
UniRef90_I0DW69 P G V T A R L G I D F D S L R K Q H N P K L I Y A S V I T G F G Q T G P L A N Y P A
UniRef90_H1SAY3 A G V M E A L G L D A A T L R A Q K P A L V H A S V I T G F G T Q G G P S R T R P G
UniRef90_F4CUP7 P G T F E R W G L G P D V L H E L N P G L I L V R V V T G F G Q T G P Y A A R A G
UniRef90_V4XU43 P G T L E G W G V G P E T L R E T S P G L V L R V V T G F G Q T G P D A E R P G
UniRef90_V6M4E1 P G T F E K W N L G W D V L S A I N P S L I M L R T T G F G Q T G P Y A S R A G
UniRef90_UPI000477B3EC P G V M A K L G L G P E V L R A D S H P L V F A S I T G F G Q T G P Y A M R P A
UniRef90_W5JBK3 P G V M E K L G L G P S I L L Q D N P G L I Y A R L T T G F G Q S G S H A A R A G
UniRef90_D2B3Q1 G D V P Q R M G I T Y G A L K H L N P R I V C C S L T G F G M T G P R A A E P G
UniRef90_F4CT56 P A A A A R A G L D P A A A R A R H P R V I A C C G V S I S G Y G T G G P M R G D A K A
UniRef90_A5FZ16 P G T L E K W N I G Q A A A L A P R F V R L V H C C R I S I S G F G A D G G P F G G L P G
UniRef90_A4SX74 P G T L E G W G L D P E K L L E L N P K L I V L R I S I S G Y G Q T G P Y R D K P G
UniRef90_I0RX03 P G A T A R M G L D A T T L A E L H P R L I V C D I T G Y G Q T G P W S D R K A
UniRef90_F4L9K7 P D V K A R L G V D Y E S L R A I N P R I I L A S I S G F G Q S T G P Y A G R P G
UniRef90_D3BV77 P G V M E K L G L S P E S L M S E A P R L I Y A R L T G F G Q T G P Y A L R A G
UniRef90_V8QXA5 A E V K E R L G L S Y D Q L R Q V N D K L I L A S I S G F G Q D G P Y A K D R P G
UniRef90_A9ICD5 P G V M A R L G L A R S D L V R E R P D Q I Y V S V S A F G P D G P Y A N R P G
UniRef90_UPI000471B848 P Q A M R K L G L S Y E Q M S E V N P S I V Y T G A F G F G Q K G P Y A D R P A
UniRef90_W6QOA5 P G A S A R L G L S H E A L K E K Y P A L I V C D I S G Y G Q D G P Y A D R K A
UniRef90_J5EYI4 V E T R R R M G I D W E S L H A R H P G A V L V T A T A F G D D D G P Y A D R L G
UniRef90_Q46RV1 P D V K H R L G I G P D A L R A I N P R L V Y A S I S G F G Q D G P Y A G W P G
UniRef90_A4ALU1 P G S L L K L G L G Y A V L E A A N P R V I L V S I S G F G M P G P Y T T M P A
UniRef90_UPI000467C340 P G V M E R L G L G P A D L E A V N D R L V Y A R M T G W G Q D G P L A Q T A G
UniRef90_Q9KJE9 V G Q M E K W K L G W E D V Q K I N P R A I Y V I T M S M Q G I D G P H S R Y M G
UniRef90_K6VY26 P R V M E R L G L G P D A S L R T R E S G L I Y A R M T G W G Q T G P L A H T A G
UniRef90_S5Y51 V G G L A K Y G L D Y A S L A Q I N P R L V Y C S V T G F G Q E G P Y A H R A G
UniRef90_K8XG98 P G A L D R L G L G V D E L A Q R Y P R L I I D I S G Y G R G G P L D H K R A
UniRef90_UPI0002F5F4FB P G S I E R L G F G Y E D V L R A L N E S I I Y A H I S G F G T K G P A E L P G
UniRef90_A0A034UPS3 P G M L E K W G L G P E V L D R I N P S L I V I T R I S G Y G Q T G P H A S R P G
UniRef90_A1WS90 P G A A A R L G L S Y A A L Q A D H P R L I V C D I S G Y G A D G P Y R D K K A
UniRef90_A4ALT8 P G T M E R W G L G Y E D L I V A R P D I I Y L A M P M Q G E T G P H A E F S G
UniRef90_M4UQE3 P G L M E Q F G L D Y A A L S A D Y P H L I Y V S H K G F P G Y E N R L A
UniRef90_HOFFN9 V G T L A R Y G L D Y E S L K T V N P R L V Y C S I T G F G Q D G P Y A A L P G
UniRef90_K0HQM6 P G V M T K Y G L D Y A A L S P V N P R L I Y V N H T G F G L P G P Y E H R T A
UniRef90_S2JT17 P G T M E K W G L G P E D I Y P A N P K L I Y T R V I S G Y G Q T G P Y S K R P G
UniRef90_C1AV84 P G V L E K W G L G P D R L T A L N P G L I T L R V I T G F G Q E T G P Y A E R R A
UniRef90_D8IYV7 P G A A A G L G L S A Q A L H A R H P R L I V C D I S G Y G E D G P Y A D K K A
UniRef90_UPI000378A557 Q G A A A R L G L D A A A L C A A H P R L I A V D I S G Y G A G G P Y A H K R A
UniRef90_C1BBC6 P G V T T R L G I D Y D T V H A R N P R L V Y A S I S G F G Q D G P L A G A A A
UniRef90_L9WMH2 P G V V E R L G V D Y E R V S Q L N E P R L I Y L N I S G Y G R T G P Y S D R K A
UniRef90_HOYUN7 H G V M E R L G L G P E V L L Q E N P R L I Y A R L T G F G Q T G P Y A K S A G
UniRef90_UPI00036AE1B5 V G G L Q Q Y G L D H A S L L A L N P R L I Y C S V T G F G Q D G P Y A E R A G
UniRef90_UPI0004672154 P G A T G R M G L G A D D L A L T H P R L I V C C D I S G Y G G D G P W Q T R K A
UniRef90_Q1GJP4 V G G L K K Y G L D F E S L S A L N P R L I Y C S V T G F G Q D G P Y A T R A G
UniRef90_M0EB05 P G T A E R L D V D Y D T L S E H N D D L I Y L A L S A F G Q T G P W R E R S G
UniRef90_H8IPE0 P R V M E H F G L T A E V L L G A D N P R L V F A R M P A F G V E T G P W R D R V G
UniRef90_UPI0001FFEED8 P G A M D R L G L G Y A A L S A D Y P H L I Y V S H K G F P G Y E N R L A
UniRef90_UPI00037BE93A P Q A M Q R L G L D Y Q R L K A I N P R I I Y A G L Y G Y S E K G P Y A G K P A
UniRef90_UPI0002D2E405 P G V M Q R L G F D Y P A V R A I N P K I I Y C S I S A F G Q S G P L A H H P A
UniRef90_L0JLK9 P G V V E R L G V G Y E A D V T E Y N D V I Y L N I S G Y G R D G P Y E D R K A
UniRef90_HOTEK5 P N V M K R L G L G F E V L S A R N P R L V Y C A I S I S G F G Q S G P W A G R P A
UniRef90_A0A051TVP8 V G T L E K W G L D W E S V H R A N R R L V M L Q I T G F G T E T T L E R N S P G
UniRef90_K9AL09 T G V L E R L G F S P A Q C L E I N P R L I L S I T G F G H D T P E A S R A G
UniRef90_I0RQR3 R S Q A A R L G I N P Q Q L L A D S P R V V V V T I S D F G W A G P Y A E R A A
UniRef90_E8TCT3 P G V M D R L G L G Y E A L K T V R P G L I Y C A I S I S G F G Q T G P M R D N P A
UniRef90_A1UJM0 S A L A E H P D V A P A A I H R R H P G L I V T A I T P F G L D G P W T D R P A
UniRef90_A0A059FB49 P G G L I E R S G L S Y E E L S K I N P K L V Y C S L T G Y G L E G P D A D R P G

UniRef90_L8HA58 H D I N Y T A V A 130 G V L S L L G R R G E N P L F P G N L L G D F A G G G M L C A
UniRef90_B0T6G5 Y D D V I Q A G S G L S H L V G R T E D P E S G R P R Y V P S V M A D K I S G L F L
UniRef90_G8PQF0 Y D A L I Q A M G L I M S L T P E E G G S P T K I G V G I A D V M C G M Y A C
UniRef90_X51TH1 H D L N Y L G L T G A L H A I L G P S D R P P V P L N Y V A D F G G G M M L L A
UniRef90_UPI000468E542 Y D N V I G Q A A S G W L S M F H A G S A D P P K V A G P A V I S D A V A G L Y A A
UniRef90_D8PZM8 Y D V V I E G E A G L M H I T I G E R A D R S P S K V G V A A T D I A T G L Y T
UniRef90_H3NU18 Y D P V I Q A L S G A T D I Q M D R A S G R P Q M F R I I L A D K V I T S L T A A
UniRef90_UPI0004703938 L D Q I A Q G L A G L M S V T G E P P R G P M R A G I P V A D L T A G L F C A
UniRef90_F2J6M2 F G V I G E A L G G L R Y L T D H P E T T D L P P P R V G I S I G D S V A G L
UniRef90_A1W297 Y D L L I Q S E A G F L S V T G T P P T P S K S G I S V A D I A A G M Y A Y
UniRef90_B9L150 F D Q V A Q G M S G L M S V T G K P E S G P V R V G I A I A D I L A A L F A T Y
UniRef90_K0MB38 F D G V I Q A L S G A V Y M A G T P D D Q P Q K A M V P V V D F A T S F A C A L
UniRef90_Q0RXB4 Y D A V L Q S F G G L M S I N G Y P D D G N P L R M G V P I V D I V A N M A V
UniRef90_A0A038H2J3 F D G V G Q A M S G A V Y M S G T P E S P A K A M V P V V D F A T A L S C A
UniRef90_U7DTS1 F D L I A Q G M S G M M S M T G E A G R E P V K A G S P V A D I N S G I L A A A
UniRef90_W5TJEO Y D L L V Q A E S G L M S V T G T A G E P A K P G P V A D I V T T G L Y A A L
UniRef90_W2ET56 Y D L M V Q A M S G L M S L T G D P D G P Y R A G I S V F D V M A G N H A V
UniRef90_B8KU02 H D M G A Q A F T G F L A L N D N G D E K P V V P G M P S A D M A S A L T G L
UniRef90_W7F4Z0 Y D H I A G A E A G L H V I T D N G H N G P V R P G I G M
UniRef90_J2KGW8 F G L I A E A K S G I M Q M V G N P G E A P P L L R I S L G D M Y T G H A V A
UniRef90_A9BP93 Y D L L I Q A V A G L T S V T G T P D Q P A R V G I S I A D I A A A M Y A Y
UniRef90_UPI0004766E19 F G A V I A E S M G M R Y V T G D P A H P M R S N L S L G D S I A A L H A Y M
UniRef90_G9ZZK9 Y D P I I Q S L S G V A A T F E R A N G E P R F V P M V M T D H I T G L I A A Q
UniRef90_UPI0003696F22 Y D L L I Q G E T G L A S V T G T P G S P A K T G L P I A D I G A G M Y A F
UniRef90_D2PNL6 Y D Q I A Q G E G G L M S I T G A T E P T K T G M P I A D L L A G M Y G A
UniRef90_C5D0R8 Y D L V I Q G E T G L M A M N G E F E G Q G P L K F G I A A V D M F T G M Y S A
UniRef90_G8NSD0 F G T L V E G M S G F A S M N G A D R E P V L P I Y L G D M T A G L Y G A I
UniRef90_A3K7Z0 F A Q I I Q A T S G Y D A N L S Y Q V D R P L R M G V P I V D I V A N M A V
UniRef90_UPI00036131F0 Y D L L V Q A E S G V C S V T G F P G E P A K P G P P M A D V T T G L H A A L
UniRef90_D5ZRQ4 Y D Q V I Q G L S G L M S V T G D T R S A P L R V G Y P V C D S F G G L A A A
UniRef90_L8F7N2 F G T L G E A M S G F A H L T G S E D T P P A K V G I A I T D I A T G L Y A H
UniRef90_L9WDV4 H D I N Y V I S L A G L M D L T R D A A G E K P Q V P G Y Q I G D I A G G L F A A
UniRef90_X1Y605 Y D V T A S S L G L H I T G S E D T P P A K V G I A I T D I A T G L Y A H
UniRef90_G6ECK1 F D S V I Q A M G L S Q Y L S G S G D T P Y R T P I T W V D H A T A V Y A A
UniRef90_A0A059E4H3 Y D D L I Q G L S G A T M L L P K V D G N E R P R F I P T A F D K V I S G M H A M
UniRef90_H1S0W2 Y D Q V L Q T M T G M C T L Q G K Q G G A P E L L Y G S V V D Y Y G S A L V A
UniRef90_I0DW69 Y D I V A Q A M S G L M S V T G I T G F P Q T G P T R S G E S I G D V Y C A I F A A W
UniRef90_H1SAY3 L D I A A Q A E S G M M S V T G E P G G M P L K A G F A L V I D A G T A L A L G
UniRef90_F4CUP7 F G T L A E A M S G F A H L T G Q P P T L P A F S I A G I A A S S A V A M
UniRef90_V4XU43 F G T L A E A M S G F A A V N G F G D R P P L P T G L A D T V A G V F G A L
UniRef90_V6M4E1 F G T V A E G M S G F T S V N G S A D G P P T L P G M A L A D G V S G A F G A L
UniRef90_UPI000477B3EC Y D I I V Q A M T G L M E L T L G S D T G D P T M I G E S F G D V A A G G L F S S
UniRef90_W5JBK3 H D I N Y V I A L S G V L S L T G R Q G N K P P F I N L L A D F A G G G M M C A
UniRef90_D2B3Q1 Y D Y I L Q G L A G W M D V T G E P E G P P T K S G L S M V D Y S G G F V I A A
UniRef90_F4CT56 Y D L L V Q G E T G I T S I N G D P A A M A K V G L S I A D I S A G M Y T Y
UniRef90_A5FZ16 Y D A V V Q A M T G L M T I N G R P G E G P L R M G T P V V D L A T G L Y S A
UniRef90_A4SX74 F G V V A E A M G L R H L T A E P G R V P V R V G I S I G D T L A S L H G V
UniRef90_I0RX03 Y D L L V Q A E A G L S V T G I G D E P A R T G V S I A D I A A G M F A Y
UniRef90_F4L9K7 F D Q I A Q G M G L M S V T G L P G G P V R A G L A V A D S S T G L Y A A
UniRef90_D3BV77 H D I N Y T A L S G A L S V L G R R G Q A P L F P S N I L G D F A S G G M M C A
UniRef90_V8QXA5 L D Q L M Q A M G L M S V T G D D E A T G P T R T G I A I S D T S G M F L G
UniRef90_A9ICD5 T D S T M Q A V T G L M V A N R D D A G N P R K I G I L L V D V A S G V Y A A
UniRef90_UPI000471B848 Y D D L I Q A G V G M P V L Q S R R Q G E P Q Y M A S A V A D R V V G M A L S
UniRef90_W6QOA5 Y D L L I Q S E A G M L S V T G T G K E P V K V G L S I A D I S A G M Y A Y
UniRef90_J5E1Y4 F D G T I Q A M S G A I A L S G E P G M P T R C W V P Y I D F A T S G L L A T
UniRef90_Q46RV1 F D S I A Q M G L M S V T G K P G E G P M R V G I P L A D L C A G H F C A
UniRef90_A4ALU1 F D L I G Q A M S G L A Y T T G Q N D A P P A P I L G F P I I D T T V A D W A A
UniRef90_UPI000467C340 H D I N Y I A L T G A L H S A T R S S G G V P T P A N L L G D F G G G A M Y L V
UniRef90_Q9KJE9 Y G V N L N A L C G L T A R A G F P G Q A P F G T G T N Y T D H V M V P T H T L
UniRef90_K6VY26 H D L N Y T A V T G A L H L A T R S S A P L A P A N L L G D F G G G A M Y L V
UniRef90_S5Y51 Y D Y I I Q G M T G L M S V T G E P S A Q P Q K V G V A V V D V F T G I Y A T V
UniRef90_K8XG98 Y D L L I Q A E A G S C T I T G L P G Q P A K P G I P I A D I G T A L Y A Y
UniRef90_UPI0002F5F4FB Y D V L V Q G M A G L M D M N G E P D G D P V R S G I S L F D L T T G M M T A
UniRef90_A0A034UPS3 F A A V A E A V G G L R L M G E P D R P V R T G V S I G D S I A G V Y A A F
UniRef90_A1WS90 Y D L L I Q S E A G F L S V T G S P D A P A K A G N S V A D I A A G M Y A Y
UniRef90_A4ALT8 F G A T L V A L C G L H E L C G F P D R E P V G T G T N Y P D H V P N P M H A A
UniRef90_M4UQE3 L D E V V Q M M G L S Y M T G P A G R P L R A G T S V N D I M G M F G A
UniRef90_HOFFN9 Y D F V F Q M G L M S I T G Q P P G D E P M K V G I A I S D L I T G M Y A T
UniRef90_K0HQM6 L D E S V Q M M G L A Y M T G R P G D P L R A G S S V N D I M G M F G A
UniRef90_S2JT17 A S V C E G M G F R F I N G H P G Q P P V R P N M S L G D S L A G L H A T L
UniRef90_C1AV84 F G T L A E A M S G F A H Q T G E E D G P P T L P P F G L A D G V A G I T G A F
UniRef90_D8IY7 Y D L L I Q S E A G F L S V T G T P D D V V K A G C S I A D I A A G M Y A Y S N
UniRef90_UPI000378A557 Y D M L V Q C E S G L S V T G T P E Q P V K A G I P A D I A A A M Y A Y
UniRef90_C1BBC6 Y D L V V Q A M S G I M S I T G S P E S G P T R L G E S F G D L V A G L F A A
UniRef90_L9WMH2 Y D L V M Q G E T G S I L M N G S P D E N P A K I P I S I C D I N A A T Y G T I
UniRef90_HOYUN7 H D I N Y L A L S G V L S K L G R K N E N P Y A P V N L L A D F A G G V M C A
UniRef90_UPI00036AE1B5 Y D L M I Q A M S G M M S I T D D Q P G G G P L R V G V A L T D L F T G V Y A S
UniRef90_UPI0004672154 Y D L L V Q A E A G L L S V T G A P G E V A K A G I S V A D I A A G T F A F
UniRef90_Q1GJP4 Y D F L L Q G M S G L M S I T G A D G E P Q K V G V A I T D V I G L Y G S
UniRef90_M0EB05 Y D L L I Q G M S G I M S V T G E A D R Q P V K V G L P M T D L I T A M W A F
UniRef90_H8IPE0 F A P T M E Q I A G L A W V T G L P E A P P V T P R G A C D P L A G V H A A
UniRef90_UPI0001FFEED8 Y D T V F Q A L S G V M A M T G E P G P P S K T G I P V A D M S S G L W V V
UniRef90_UPI00037BE93A Y D D L I Q G A A A V P S L M S L A S G G E P R Y V P L T L A D R T V G L M A S
UniRef90_UPI0002D2E405 H D L A V Q A L S G F L S V N D A T D G T P V V P G V P S A D M A A G L T G L
UniRef90_L0JLK9 Y D M V M Q G E T G L I P M N G S P D A P A K I P I S I C D I N A A T Y G T
UniRef90_H0TEK5 Y D Q I V Q G L S G A M S V T G D A Q S A P L R T G F P I S D T I A G L T A G
UniRef90_A0A051TVP8 F G K V G E A M S G V V N I T G F P D G A P V H T G F S H A D S V T G L M F A V
UniRef90_K9AL09 Y D Q I A G E A G L M S L T G S P D E A M Q R V G V P I A D L L A G I Y G S
UniRef90_I0RQR3 S E F T L Q A W A G S T G F R G D P A G P P I A I G G D L G E Y M G G A L A A F
UniRef90_E8TCT3 Y D Q L I Q G L S G I M S I T G T P E A A P L R V G Y P V A D T L G G L V G A
UniRef90_A1UJM0 T E F T L Q A W S G G I V T G L G R G A P D R A P V Y V G G Q V G G E Y L A G A
UniRef90_A0A059FB49 F D V A S F W S R T G V G A L T V P K G Q E P F P L R T A F G D H T T S M A T A

UniRef90_L8HA58 L G I L L A V I E R Y K S G K G Q V V D A A M V D G A S Y L S T F I H N H R H T
UniRef90_BOT6G5 A Q A I T A A L Y A R A S R D G E R G Q Q F I E T P M L E C M V S F N M V E H L F G H
UniRef90_G8PQF0 N A I L A A L L H R E K S G A P G G Q V H I D I S L L L D C Q V A W L T N Q G L S Y L A T
UniRef90_X51TH1 F G M L A A L L A V R J R G G A P G G Q V V D A A M V D G A G L L A S M F W G F R A G
UniRef90_UPI000468E542 L G V L G A L V E R A Q T G R G R K V E V S M L E A M I A M A C E P L A A M M A
UniRef90_D8PZM8 H G A L M A A L L S R K T G E G K G C W I D C N L E F E S Q I A G L A N I A S N Y L
UniRef90_H3NU18 Q A I S S A L L V R E K T G E G G C H I R L S M L E T M M S F F W P E G M A S G T Y
UniRef90_UPI0004703938 I G T L V A L L D R E R T G R G Q W V H T S L L Q A Q L W M M D F Q A T R W L I
UniRef90_F2J6M2 Y G L V S R G M K G D A A D R L C V I D V A L T E A V L S L M E G V V T E Y G A
UniRef90_A1W297 T N I L S A L L L R G K T G E G S H V D V S M L E A M G E W M G Y P M Y A H D
UniRef90_B9L150 G V L A A L Y E R E R T G I G Q R V D T S L L G A V T G V L T F Q A G R Y L A
UniRef90_K0MB38 G T M L A L Y E R K R S G K G Q E V S A S L L C T G L N M A S G A L T E E A L
UniRef90_QORXB4 S G I L L A M L E R E R T G R G Q Q L V D I T L L D S V I S L L H P H A A N W L A
UniRef90_A0A038H2J3 L G T V M A L Y E R R T S G K G Q V V E A S L L L Q T A L M F A S G A L T E E A V
UniRef90_U7DTS1 L G I C A A Y A A K R K T G P G G Q Q M V D T S L F E A G L Q Q M Y W P A A A Y F
UniRef90_W5TJE0 S I V A S L C G R L R R G G L G P G T T I A V S L F F D T M A E M M G Y H L T Y A R
UniRef90_W2ET56 I G I L A A L R H R D A T G Q G Q H V E V N L L S S A L T G L V N H S S A Y V A
UniRef90_B8KU02 N A I L L M A L F R R E T T G K G G D I R D A N M Y D S L M A W T A H L S G P V F D
UniRef90_W7F4Z0 R G E G Q R V D A S L F E T Q I L S L L T N V G L A W L
UniRef90_J2KGW8 A I N A A L L G R V K S G R G Q H I D M A L Y D T L V S M H E Y A V Q C Y T L S
UniRef90_A9BP93 S G I L S A L L Q R A R T G R G Q L R V E V S M L E A L A E W M S Y P L N F A H Y
UniRef90_UPI0004766E19 G A L M A L R H R D A T G R G F Q V V D V A L T E S V F N M E S T L M E Y S V
UniRef90_G9ZZK9 S I G F A L R R A S T G R G G E A I E V P M F E N M A S F V M S E H M G P A T F
UniRef90_UPI0003696F22 S A V L A A L R R A R R G G G G A R I E V S M F D A V A E W M G H P L H T T K Y
UniRef90_D2PNL6 Y G A L A A L H E R A V T G R G R V R T S L L A S V V G V H A F H G T K W T V
UniRef90_C5D0R8 Q A I L A V L Y E R T R T G E G R H I Q M S L Y D S G M M I T S Y Y G L T A W L
UniRef90_G8NSD0 G I L A A L R H V E V T G G G Q V I D I P L L D P L F S L L G P Y Q A A N Y R L
UniRef90_A3K7Z0 Y G I A S A L Y Q R T R T G E G Q H I D L S L M E C M M N M M P Y E V Q E A Q F
UniRef90_UPI00036131F0 S I L A L L T A R E R G R T G G A Q V S L S L F D T M A D M M G Y H L T Y T R H
UniRef90_D5ZRQ4 M A V C A A V V R Q R R T G G G A H L D T S M L D A A L T S M G W V V S N H L V
UniRef90_L8F7N2 A V M M A L Y H R D V H G A S G Q L I D V N L I D P A R L L E Q T L L S H D Q
UniRef90_L9WDV4 F A I V G A L L S R E N T G G E Y I D V A M A D V V A S F S Q S V A Y Q S V T G
UniRef90_X1Y605 G A I L A A L L Q R Y R T G R G Q K I D V N L L S T Q V A C L I N V A S N Y L N
UniRef90_G6ECK1 F A V M V A L F E R Q N S G R G Q E I D G S L L G S A V A F S S T F L I E Q A L
UniRef90_A0A059E4H3 Y A T L A A L H H R D R T G E A V H V E V P M F E C V T H F L L E E H F Y E A E
UniRef90_H1S0W2 G G V A S A L Y E R E K S G E G Q Y V G I S L L R A A L T M Q S A R M V N W A D N
UniRef90_I0DW69 A I S S A L F A R E A H Q E K A Q Y I D V A M V D V L L S M Q L T L S N L F A
UniRef90_H1SAY3 N A I L A A L F R R S R M G V G E T I E T S L L A V A I H M Q A Q I W A E Y Q C
UniRef90_F4CUP7 A L F A R D N A P G D E R G R G Q V I D M S L L E P I L A A V G P G P T V F D Q
UniRef90_V4XU43 A A A M A L Y A R D R R E V R G Q V T I D D S L L E P M L M L L G P Q V L R Y D A
UniRef90_V6M4E1 S L M I A L H E R N N P E K K G Q C I D I S L Y E P L M R F L E P H I V A Y D Q
UniRef90_UPI000477B3EC W A I M V A L F E R E R T G K G R T I D V S L F D S L L A M M P T A A A R V L L
UniRef90_W5JBK3 F G I L A A L L E R H R S G R G Q I V D N A M V E G A A Y I G S W L F R S R N L
UniRef90_D2B3Q1 L A L M A G L H A A R R D G V G T D C D V S L Y D T A V S L L T Y P G V W H L N
UniRef90_F4CT56 S A V L A A L V H R D R T G E A L P V E V S L F D D S L A E W L A Y P L Y Y T L Y
UniRef90_A5FZ16 I G I L M A L Q E R R D R S G R G Q F I D M T L H D A G M A L L H P A A A N Y L L
UniRef90_A4SX74 I G I L L A L Q E R H Q S G K G Q I D I A L Y E A V F N C M E S L L P E Y S A
UniRef90_I0RX03 S G I L T A L Y V R A T T G R A R P V S V S L F E A L A E W S Q P A Y A H F
UniRef90_F4L9K7 I G I L T A L L E R E Q S T G G Q Q W V H A S L L H A Q I A M M D F Q A A R Y L N
UniRef90_D3BV77 I G I M F A L Y E R K S T G R G K L I D S S M M D G A A Y L A T F I Y K L R R T
UniRef90_V8QXA5 Q G I L L A L L H R E I T G G Q Q W V H T S L L E S M L S K L D F Q G S R Y T M
UniRef90_A9ICD5 Q A V G A A L Y R A M S G K G Q H I Q L S L M E V I G A A L Q S N A M V D
UniRef90_UPI000471B848 N A T L A A L L E R E H S G L G Q E V Q V P M L E T F A H F I Q G D H L Y G H T
UniRef90_W6QQA5 S N I L S A L L Q R G K D G G Q C H I D I S M L E S M V E W M G F P M Y A Y D
UniRef90_J5E1Y4 G T L A A L L A R E R T G L G Q H V D G S L N T G L M G N R E T V E A Q V
UniRef90_Q46RV1 M G I L T A L L E R E A S G E G Q W V Q T S L L E A Q I A M L D F Q A A Q W L V
UniRef90_A4ALU1 S A T L L A L F Q R E R T G R G Q H L D V S M Y D V A V H L N E Y N M G A F G W
UniRef90_UPI000467C340 T A I L A A V F E R G R T G R G S V L D V A I L D G A N Y L T S M L H E Y R S T
UniRef90_Q9KJE9 F G I M A A L L E R E A T G R G Q T V S L S Q L E S A I C M T P S A P M A F A A
UniRef90_K6VY26 T S V L A A L H R E R S T G E G A V L D V S I L D G T T Y L T S M Q H E Y R A R
UniRef90_S5Y51 G I L L A A L R Q R D V T G R G Q H V D M A L M D V G T A I M A N Q A M N Y L A
UniRef90_K8XG98 S A V L A A L Y E R E R T G R G A V I P I A M L D V V A E M M G F A L N Q V I H
UniRef90_UPI0002F5F4FB L G I T A A V R H R D L T G E G Q L I Q N N L M S N A V F T M L N Q Y Q S T A T
UniRef90_A0A034UPS3 G T V M A L F Q R E R I P L R E R I D V A L N E T I L S M M S L V P D Y L A
UniRef90_A1WS90 S S I L A A L L Q R G K T G Q G A H I D L S M L E A L G E W M G Y P M Y A Y
UniRef90_A4ALT8 V A V L A A L V M H R R R T G E G Q R I E L S Q L E S T L N V I G Q G I E A A A L
UniRef90_M4UQE3 I G V L A A L R R D R T G R G Q E I Q S A L F E N C V F L A S S Y Q A M Q Q A M
UniRef90_HOFFN9 T A I L A A L E H R N V S G Q G Q Y I D M S L L D C V V S I S S Y Q A I N H F L
UniRef90_K0HQM6 I G A M A L A L M Q R G L T G R G Q E V D S A L F E N N V F L V G Q H M M Q Y A V
UniRef90_S2JT17 G V L L S L V G Q N Q A E R T G Q V V D V A I F E S M L N M M S V V P E Y D R
UniRef90_C1AV84 V T A L L H R N G P E G D G Q G Q V I D L S L L E P L I G L L G P G P T A F D Q
UniRef90_D8IYV7 I A A L L K R G R E G T G R G S H I D L S M L E S L A E W M S F P L Y Y A Y Q
UniRef90_UPI000378A557 A G V L A A L V R R E G T T G R G G P V E I S M L E S L A E W M G H P L H H A M H
UniRef90_C1BBC6 W G I S S A L V G T R E S G V G Q H L D V A M F D S M L A M L P T A H S Q L Q A
UniRef90_L9WMH2 A T L L S L F H R E R T G N G D E I D V T M F G G M L S W M G Y F P H K Y W N
UniRef90_HOYUN7 L G I V I A L F E R A R S G R G Q V I D A S M V E G V A Y I S S F L W K S Q N L
UniRef90_UPI00036AE1B5 T A I L A A L N V R H Q T G K G Q H I D M S L L D V G M A I L A N Q A A G F L N
UniRef90_UPI0004672154 S G I L T A L Y T R A V T G K V R A L S I L S L F E S L A E W M G S P A Y Y S R Y
UniRef90_Q1GJP4 I G I L L A V E Q R H R T G R G Q H I D M S L L D C A T A M L A N Q N M N Y L V
UniRef90_M0EB05 G A T T A L Y R R E R T G E G E Y I D L G M L E A T L P W L T K Q A G M V F A G
UniRef90_H8IPE0 F A V L A A L S F A E R T G K G Q L V E L P M L E T V L N A T A I Q A L E S E V
UniRef90_UPI0001FFEED8 I A V L T G L A F R G A S G R G R H L D V S M M D V Q L S L H A L N A R L S E A
UniRef90_UPI00037BE93A N A I L A A V I A R H Q T G L G Q A V E V P M F E T M A Q Y V L G E H M A G A T
UniRef90_UPI0002D2E405 S A V L M A L I G R E R T G E G D Y V D I A M F D S M L P W C A H I A G S A I A
UniRef90_L0JLK9 I S T L L A L F H R E R T G E G Q E L D V T M F G G I L S W L G Y F P H K Y W H
UniRef90_HOTEK5 F A I S S A L V I E Q R Q T G R G R F I D V S L L E A T L A A M G W V V S N H L N
UniRef90_A0A051TVP8 Q A A L Y R R D N D P E F D G E W I D L A L F E S L Y R L T E W Q V I V A D Q T
UniRef90_K9AL09 Y G V L A A L L E R E R T G R G K I V R T S L I J A G M V G V H A F Q G T R T T V
UniRef90_I0RQR3 G A L A V R R R V E R G G A G E H L D M S M L E A I T L M Q S S E W L H S Q L L
UniRef90_E8TCT3 F A I A S A L V R Q R T S G E G A F L D V S M L E C T L S A L G W P V S N Y L T
UniRef90_A1UJM0 Y A S A A T L A V K L R G V G E L I D L S M L E T Q I L G L T Y Y P V I T H Q
UniRef90_A0A059FB49 A G I C A A L V I E A T R T G K G R L V E S S L F R A G L Y A L G S D F A I Q L F

UniRef90_L8HA58 G I W G N A R G S N V L D S G A P F Y E T Y R T K D G K Y V A V G A I E S Q F Y
UniRef90_BOT6G5 V S E P P V G P M G Y P R L F N A G R R P L R T G D G Y I A V L P Y D L J A A W R
UniRef90_G8PQF0 D G N I P K R L G N A H P T I V P Y E T F P A S D K D F M V A V G N D A Q Y Q R
UniRef90_X51TH1 G G W S D R R E L G N A L D G G A Y F Y A T Y A C A D G R F L A V A C V E R R F H
UniRef90_UPI000468E542 T G Q A P S L H G R A A M S Q S Y V V T C R D L R R I G L H L S S P E K F
UniRef90_D8PZM8 V A G Q E A S R H G T A H P S I V Y E T Q V F R Y C K D G F I M I G A G N D K G M F A
UniRef90_H3NU18 G D M E F D V T K L Q G T Q D L I V P E T Q D R Y I T A G A I S D K E W A G M C R
UniRef90_UPI0004703938 N G E V P G Q S G N D H P T S S P T G V F S T Q D G H I N I A A M G N A T I F A
UniRef90_F2J6M2 L G I V P R Q P V G S R I T T A A P T N A Y P S A D G R W V I T A G N S D L L F
UniRef90_A1W297 G A P P P R T G A S H A S I Y P Y G P F A A S G D G K T V M L G L Q N E R E W
UniRef90_B9L150 G G G D P G L E G N D H P V A A P Y G T F R A R D G Y L N I A I A N E Q M W R
UniRef90_K0MB38 L G L D R Q A T L G N R A S G Y A P S D I F K A R D G W F I T Q V I G Q A M F K
UniRef90_Q0RXB4 S G R V P Q R T G R H P T V V P Y Q V F C A K D G D F V S A A N D R Q F R S
UniRef90_A0A038H2J3 L S I D R Q A T G N R S P I H G P S D I F R T R D G W I I V Q V I G Q P L F R E
UniRef90_U7DTS1 A D G T I L P K M G S A N S T S A P Y Q V F R T A D G W L N I G A A N Q A N Y E
UniRef90_W5TJE0 H S G I D Q Q P L G M S S P A V A P Y G A Y G T A D G Q T V V L G T N D R E W
UniRef90_W2ET56 G G V V P Y R M G N A H P S V F P Y E P L P T A D N D L I V A A G N D A Q F R A
UniRef90_B8KU02 Q R I P P T T R H R S I G G S A F Y N I Y E T A D G R H I A L T G R E L K F A
UniRef90_W7F4Z0 N L G I E A Q R W G C A H P S I V P Y D A F E T K D Q Y L G C G A T N D A Q F V
UniRef90_J2KGW8 G G K E V P V Q T G H D M P N S T L Y G V F R A Q D G D V V I A A Q V D D A W K
UniRef90_A9BP93 G G T A P A R S G L T H P S I A P Y G Q Y T A G D G Q S L I F G L Q N D R E W
UniRef90_UPI0004766E19 G G T V R E R C G S S I A G I V P S N V Y R S A A G E W V Q I S G N G D A I F
UniRef90_G9ZZK9 D P P V G P T G D N R L L S P D Y R P L A T K D G Y P N T D A Q A F A F F D
UniRef90_UPI0003696F22 T G T P P A R S A L H H P S I V P L D G A Y P T A D D G P D L L T G V G N D R Q W
UniRef90_D2PNL6 A R E L P E R V G N H H A Q I A P Y G M Y R T K D A D G P Q V A V G S E G W R W T
UniRef90_C5D0R8 N E G D P A K F G N S H P S I V P Y G V F E A A D G P L V I A V G N N S Q F R
UniRef90_G8NSD0 T G K V K P R T G S R S T N S A P R D V Y R T S D G F H W I C L S A S T Q S M T
UniRef90_A3K7Z0 P T G A M R P I Y R P L R T S D G F V I L V P N T Q R N F E
UniRef90_UPI00036131F0 S G I E Q Q P L G M S S P A V A P Y G A Y P T A D G Q T V V L G T T N D R E W
UniRef90_D5ZRQ2 T G Q E P V P M G N E M T S A P S G S F A T A D G M L N I A A N K S Q E Q F E
UniRef90_L8F7N2 L G L T P Q R A G N R W D I L S A P R N T Y Q A S D G K W L A M S G S P T L A
UniRef90_L9WDV4 D P A E P R P G E T P L T G G V P W Y D S Y E T A D G K W I T F G A L E P K F W
UniRef90_X1Y605 A N K E A K R W G T A H E S I V P Y E A F A Q T R T G Y I T I G C G S D A Q F V
UniRef90_G6ECK1 T G L G R T A L G N R S F L N A P T D T F A Q K D G Y V V T Q V V G D P I F R
UniRef90_A0A059E4H3 F D P P V G P F L Y Q R Q V D P S R Q P L K T S N G W I V I A P Y V D A R W F E
UniRef90_H1S0W2 E P R E V G R D M R S G G I T G L H P T K E G Y L Y I S A N T P H F W
UniRef90_I0DW69 N G T A P S L V G N R H P V S T P F D T Y Q A Q D G L V V I A I A S E K L F Q W
UniRef90_H1SAY3 T G T L P V R S G N S Q P R A A P A A D V I T V A D G F I V V S A Y L D D H W A
UniRef90_F4CUP7 L G E L G T R N G N R S S N N A P R N T Y R T K D D R W V A V S T S A Q P V A
UniRef90_V4XU43 T G E T E R R T G N R S T S S A P R N V Y E T A D D G E Y V A L A S A Q P L A
UniRef90_V6M4E1 L G I I A S R V G N G S L S V A P R N A Y Q T K E G R W V A L S G A A Q S I T
UniRef90_UPI000477B3EC A N G D P A R T G N K H P L S A F G V Y P A G D G F F A V A V L N D R L F
UniRef90_W5JBK3 P I W G K P R G E N M I D G G A H F Y D T Y E T R D G K F V S V G A I E N R F Y
UniRef90_D2B3Q1 A G Y A P A R T R H S A H P S L V P F Q V F E T A D G W I V V G C A K E K F W
UniRef90_F4CT56 G G T A P A R M G T T H P T I A P Y G A F P T A D G T P V L V A V Q N D R E W
UniRef90_A5FZ16 N G K R P A A T G N A P N I A P Y D T F P T A T C E I F I A G G N D G O F R K
UniRef90_A4SX74 F G E V R Q A A G S A L P G I A P T N A Y L C S D G G Y V L T A G N G D S I F
UniRef90_I0RX03 S G V R P P R T G A R H A T I A P Y G P F L T A S D G K T V L L A V Q N D R E W
UniRef90_F4L9K7 D G D V P A Q E G N D H P T S S P M G L F A S D G M F N L G E G N W K R C Q
UniRef90_D3BV77 G W W D N D R G C N A L D S G A H F Y E V Y E T L D H K Y I S V I G A I E G P F Y
UniRef90_V8QXA5 N K E I P V Q T G S F H P T L S P M G S F H S K D G L V N I A A S T D R M F G
UniRef90_A9ICD5 E F M R Q G S P T R P L T V P M G T Y A T W D G Y I N V T A L H D R M F E
UniRef90_UPI000471B848 F V P S Q G R A G Y E R M M N P A R R P Y P T K D G Y I T I M K H W H S F F E
UniRef90_W6Q0A5 N A P G G P P A G A S H A A L Y P Y G P F E A G D G Q S V M L G V Q N E R E W
UniRef90_J5E1Y4 L G V R R Q P T G N R G Q T S G P F D V F A T K D G F V M A S V V G D R Q F
UniRef90_Q46RV1 D K K I P E Q T G N E H P L T V P T G V F A T S D G Y L N I A A I G Q T M W K
UniRef90_A4ALU1 T G K V P T R G T L A T S A P F E L I R A S N G F V A V A V S G Q T I F E R F C
UniRef90_UPI000467C340 G R W S D E P G T N R L D T G A P Y Y D V Y P C A D G K F V A V G A L E A Q F F
UniRef90_Q9KJE9 N G E A L G P Q G Y G D P E A A P H G V Y T T L G Y R K W I A I A V F D D A Q W
UniRef90_K6VY26 G T W S D V A G T N R L D T G A P Y Y D A V F C A D G H F V A V G A L E Q P F F
UniRef90_S5Y51 T G T S P Q R L G N A H P N L V P Y A V F D C A D G F V I A T G N D G Q Y R
UniRef90_K8XG98 D G A E P E P V G M G S P M V A P Y G A Y P T A D G L T A V L G T T S D R E W R
UniRef90_UPI0002F5F4FB H D A V P T R G G K E H A T I Y P Y H A L P T G D G E L I I V G A N N G Q F A
UniRef90_A0A034UPS3 Y G I Q R E R V G G L V E G I A P S N A Y P C S D G V S I I G G N G D A I F
UniRef90_A1WS90 Q G A A P P P R A G A H A S I Y P Y G P F A T G D G G S V M L G L Q N E R E W
UniRef90_A4ALT8 G D S P H R D G N R V K Y A S P H G V F P V S G D D R W I A F G V M S D D Q W
UniRef90_M4UQE3 T G E P P P M P A R A L A W S V Y D V F T L A G G E Q L F I G A V S D K Q F A
UniRef90_HOFFN9 S G K I P S R M G N A H S N M V P Y Q V F R C K E G N V I V A V G N D S Q F R
UniRef90_K0HQM6 T G K P A A P M P D R I T S W A V Y D V F S V K D G G K I E L A A V S D A Q W
UniRef90_S2JT17 F N Q I R Q P S G T T L T G V P T N T Y P C K D G K H V I I G A N G S I Y
UniRef90_C1AV84 L G V I A G R Q G N R S P N N A P R N T Y L T K D D R W V A I S A S A T S V A
UniRef90_D8IYV7 G A S A P L R T S G A E H A T I Y P Y G P F S A G D G K T V M L G L Q N E R E W
UniRef90_UPI000378A557 G G E S P A R T G V A H A V I A P Y D A Y A T A D G G Q V L L S V Q N D R E W R
UniRef90_C1BBC6 S G V A P A G V G N R H P V S T P F D T Y R A S D G L F V L A V A S Q S G F D
UniRef90_L9WMH2 D E L P E R I G M R H L L T P Y G P Y E T A D G Q F Y I N F A L S E A H W
UniRef90_HOYUN7 G L W S Q P R G E N L L D S G A P Y E I Y R T S D G K F V A V G A I E P K F Y
UniRef90_UPI00036AE1B5 T G K V P G R Q G N S H P S L A P Y Q D F P T A D G A V L L A I G N D G Q F A
UniRef90_UPI0004672154 G G A S P L R T G A R H A T I A P Y G P F T A G D G G V V L L A I Q N D R E W R
UniRef90_Q1GJP4 T G E S P T R M G N E H P N I A P Y Q V M A V R D G H V I L A V G N D G Q F T
UniRef90_M0EB05 E E T K R M G T K D P V L A P Y Q T F E T K D G F I N I C I L N E K L W G E L C
UniRef90_H8IPE0 F G V T L S R G N R G H G T A I Q N I Y R C A G D D D W I A V T R D D A Q W
UniRef90_UPI0001FFEED8 L D E D P I R T G T E H P G R V P S A F Q A G D G G W L H I S A S D Q H W A
UniRef90_UPI00037BE93A F E P P E G E T G Y P R L L V Q E R R P Y P T S D G H L C V L I Y T D R H W Q
UniRef90_UPI0002D2E405 G G E A P R S A T Q R S L G G A G F Y Q V Y E T R D G R H V A L G G R E M K F V
UniRef90_L0JLK9 T D E I P E R I G M R H L L T P Y G P H E T A D D Q S V N F A L S E A H W E
UniRef90_HOTEK5 A G V E P Q P M G N Q N F T A A P S G T F R T A T G P L N I A A N E H K Q Y H
UniRef90_A0A051TVP8 D V P L E R S G N Q L A V S P A A V I N T Y L S Q D G K W L T S V T S G T R S V
UniRef90_K9AL09 A G E T P L R P G G N H P S L S P Y Q V M A V R D G A V Q I S V I G N S L W Q K
UniRef90_I0RQR3 R V P P V T R T I E V P S I E P A K D G Y V G I T M V T G Q Q W L D F A A
UniRef90_E8TCT3 A G I D P M P M G N E M T A A P S G A F R T G D G L I N I A A N K Q E F V
UniRef90_A1UJM0 M L G R P W R D A R K L T V P G I A R A K D G L V D I G C G T A Q Q W F D
UniRef90_A0A059FB49 F N R V A S T K S R H E Q N V P M T N F F K T K D N S W I C I T V Q W V P M C K

UniRef90_L8HA58
UniRef90_BOT6G5
UniRef90_G8PQF0
UniRef90_X5ITH1
UniRef90_UPI000468E542
UniRef90_D8PZM8
UniRef90_H3NU18
UniRef90_UPI0004703938
UniRef90_F2J6M2
UniRef90_A1W297
UniRef90_B9L150
UniRef90_K0MB38
UniRef90_Q0RXB4
UniRef90_A0A038H2J3
UniRef90_U7DTS1
UniRef90_W5TJE0
UniRef90_W2ET56
UniRef90_B8KU02
UniRef90_W7F4Z0
UniRef90_J2KGW8
UniRef90_A9BP93
UniRef90_UPI0004766E19
UniRef90_G9ZZK9
UniRef90_UPI0003696F22
UniRef90_D2PNL6
UniRef90_C5D0R8
UniRef90_G8NSD0
UniRef90_A3K7Z0
UniRef90_UPI00036131F0
UniRef90_D5ZRQ4
UniRef90_L8F7N2
UniRef90_L9WDV4
UniRef90_X1Y605
UniRef90_G6ECK1
UniRef90_A0A059E4H3
UniRef90_H1S0W2
UniRef90_I0DW69
UniRef90_H1SAY3
UniRef90_F4CUP7
UniRef90_V4XU43
UniRef90_V6M4E1
UniRef90_UPI000477B3EC
UniRef90_W5JBK3
UniRef90_D2B3Q1
UniRef90_F4CT56
UniRef90_A5F216
UniRef90_A4SX74
UniRef90_I0RX03
UniRef90_F4LXK7
UniRef90_D3BV77
UniRef90_V8QXA5
UniRef90_A9ICD5
UniRef90_UPI000471B848
UniRef90_W6QO45
UniRef90_J5E1Y4
UniRef90_Q46RV1
UniRef90_A4ALU1
UniRef90_UPI000467C340
UniRef90_Q9KJE9
UniRef90_K6VY26
UniRef90_S5Y51
UniRef90_K8XG98
UniRef90_UPI0002F5F4FB
UniRef90_A0A034UPS3
UniRef90_A1WS90
UniRef90_A4ALT8
UniRef90_M4UQE3
UniRef90_HOFFN9
UniRef90_K0HQM6
UniRef90_S2JT17
UniRef90_C1AV84
UniRef90_D8IYV7
UniRef90_UPI000378A557
UniRef90_C1BBC6
UniRef90_L9WMH2
UniRef90_HOYUN7
UniRef90_UPI00036AE1B5
UniRef90_UPI0004672154
UniRef90_Q1GJP4
UniRef90_M0EB05
UniRef90_H8IPE0
UniRef90_UPI0001FFEED8
UniRef90_UPI00037BE93A
UniRef90_UPI0002D2E405
UniRef90_L0JLK9
UniRef90_HOTEK5
UniRef90_A0A051TVP8
UniRef90_K9AL09
UniRef90_I0RQR3
UniRef90_E8TCT3
UniRef90_A1UJM0
UniRef90_A0A059FB49

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

UniRef90_L8HA58 E W T R V F D G L 290 DA C V T P V L E L P E L M Q H Q H N K D R A L L E E E G G R
UniRef90_BOT6G5 V W V E R L L A I D L A V A K V N S L L N D V L A D P Q H L E Q V G M F E T F E H P
UniRef90_G8PQF0 H W T D E L L E G V G V P C G P P V N D L A G V F S D H P Q L L H R A G M K I S V P H V
UniRef90_X51TH1 H W A L L F E G S D A C V T P V L D W R E A A H H P Q H A A R A G Y I L D V E G V
UniRef90_UPI000468E542 Y W E P R L E R H D V P F M P E R R L D E L A D D P Q V Q H Q G V F Y E Q V H P
UniRef90_D8PZM8 V W L E R F K G I G V G P I N N I L G E T F H H D Q Q A Q A R K E I L T V D V E H P
UniRef90_H3NU18 E V L E R L D S E G V P C H A P L L T R M E L M D H D Q I L A N E S I N K T G E V
UniRef90_UPI0004703938 R W I D R L N E A G V P C G A P I L D M E H V F E D P Q V Q A L G V T R T V A H P
UniRef90_F2J6M2 R L A A I L L E A A G I P A S T L I Y T A A E I A E D P Q F F A R A R G M V R V E D P
UniRef90_A1W297 Q V V E R L E A A G I P A S G R V N S P R Q A L E S E T P V E H L G I V R T V E H A
UniRef90_B9L150 N W V E R L S R A G V A C G P I V S V G Q A L E S E P V E H L G I V R T V E H A
UniRef90_K0MB38 E A L A Q L L E K A R I P A S G R V N S P R Q A L E S E T P V E H L G I V R T V E H A
UniRef90_QORXB4 R R D E L A E E A G V P A S P V V H T V E E A L Q S D E T Q V R A A N L L I Q W S D Y P
UniRef90_A0A038H2J3 E A L A A L L E A A R I P A G P V V Y S P R E A L D D P A I H A S H A F D W V D Y P
UniRef90_U7DTS1 E W M V L F D S L G L P A G S R V N D L I A A A L A H P Q Q T K S E R D R W R G I V A T P
UniRef90_W5TJE0 A I Q T A A D A A G I G N S R Y N T P S D V L A H P Q Q L S E R D R W R G I V A T P
UniRef90_W2ET56 E W F E L L V E A G V P S G P I N T I D G G F A M A E R F G L D P V V E V G E G
UniRef90_B8KU02 E W R E F L A D K V E L S W A P I N N M A E A F D H P H A R A R E M L F D D G G T E
UniRef90_W7F4Z0 E W T K L F Q D K S P S A P I N N M E S T F V H P Q A A R A R D M I A E M E T E
UniRef90_J2KGW8 A L L K M L D G I D V P A A K V Q R I D E V L A D P Q I Q A R G M V V E Q D H P
UniRef90_A9BP93 Q A M Q R L D A G G I A N A P L N D S H A V W N H P Q Q L R A A R Q R W R E V A T P
UniRef90_UPI0004766E19 Q V V Q A M R E A D V P A S R L Y S I A D I C A D E Q Q F R A R G M I E R H A L P
UniRef90_G9ZZK9 E W L E I L G K R D V P A A A Y N T L E D L M V D P H L Q D A G F F K S E D H P
UniRef90_UPI0003696F22 P L V R Q L D E A G I G N A A L N R S V H G L V D H P Q Q L A A R D R W R T V E T P
UniRef90_D2PNL6 G W L R R L A E A G I P A G K V N S D F Q V V Y E W E Q T L S Q G L L V E V D H P
UniRef90_C5D0R8 D L L A R M D K A G I P C G E V L G L Y E A L Q S E R T A Q A G V W H D A E A G
UniRef90_G8NSD0 D C L E F F Q Q N G I T V G P V Y T D M A D L E Q D A H F H A R Q A I V E L P G A F
UniRef90_A3K7Z0 A C E E K L V A A S V P C G A R Y R T V S E A M Q D P Q L A L R Q A I F Q K V G A F
UniRef90_UPI00036131F0 H I Q K T A D D A G I G N S R Y N T P A E V I A H P Q Q L S E R D R W H E I D S P
UniRef90_D5ZRQ4 E W D E V L L D T G V A A A P V V S V P A S L T S A Q V E H R E L T S E V P M D P
UniRef90_L8F7N2 D A M A I F D A H E V A A A P V Y D I A D L A D E D H R Q V K H R E V F V A V D D P
UniRef90_L9WDV4 E W E T M L D D V D A A F A G V Y T P A E M V D H P Q F Q A R G L V V R P D D P
UniRef90_X1Y605 E W M E L F E T A S F P V G P I N N M K E V E D H R Q V K A I G L V Q T V A H P
UniRef90_G6ECK1 E A L D Q L A A R I P A G P V L S P Q Q A L E H H P Q V Q A M G L I H H L H V
UniRef90_A0A059E4H3 Y W I D A L G K A D I P A A R V N D F P D L Q S D P H L V A T G F F Q R R E H P
UniRef90_H1S0W2 E W E A H F G E A V P C A A A R S V E D M F D F P Q V K A E G M V T T F E H P
UniRef90_I0DW69 E V C D L L L N A G V P A S P I H D L Q Q A T Q S E H A K V R A V L T H L D D G
UniRef90_H1SAY3 R A R A L L L E Q H G V V V G V V R D Y S Q V A E S E D V R A G G M L L T V D D G
UniRef90_F4CUP7 E V I A E A F A D A G A A V A P V I Y D A S D I V S D P H V R A T E M L T K V D D P
UniRef90_V4XU43 E A L A A F D A D A A A A P V I Y D V P D V L A D E D E Q Y R A R D A V A V D D P
UniRef90_V6M4E1 E V L E I L H G S G A V V G P M Y D V S Q L D Q D S P H F H Y R E S F V E L G E M
UniRef90_UPI000477B3EC D A V K M L T D A G V P S S E F V L S V R Q A W M S S Q A N H R S L Y T T R D S G T
UniRef90_W5JBK3 Q W M A I F E T T D A C V S F P V L E M D E V I S Y T H N R Q V F V D R D S T
UniRef90_D2B3Q1 R W L A L L T P A G V P C G P V N T V E Q A L A E P H T A A R D L V V E T D H P
UniRef90_F4CT56 Q A Q A L L D E A G I A Q A R I N D I A D L P T S A H L V E R D M V D T P T P
UniRef90_A5FZ16 A L A E R M L R A G I P A G P V R V D A L E S A H A R H R G M V A E L D G V
UniRef90_A4SX74 K V L A A L D S V A V P A G R I Y T V D I A N D P H Y R A R E N I Q S I D G S
UniRef90_I0RX03 E T T R R L D A A G V A Y G R M T D A T G L F S D H P V L T G R D R L Q V S A A
UniRef90_F4L9K7 H W V G L L N E A G V P A G P V Y T V P Q M F S D A Q V R A R R C Q A W Q G G E
UniRef90_D3BV77 E W E Q I F M G T D A C V A P V L E M H E L T G H P Q A T A R Q L V F K G D N G
UniRef90_V8QXA5 E L I D A L L N P S G I P C G P I Y N I L G Q A F E D P Q A R H L K M V T P A E H P
UniRef90_A9ICD5 H W L R L L S E Q G V V C G P I S D Y R D F L D D P Q Q A R H C G I L F R T I Q Q G
UniRef90_UPI000471B848 E A V G M L N R A D I P G I E V S D P D R I W E N E H F A A V D F F P E I D H P
UniRef90_W6Q0A5 E T I A R L D E A S I A N A S V N D M K N V W D H A Q L Q A R E R W T R V K T P
UniRef90_J5E1Y4 K V M A E L A R A G I A A G P V L P E E V L E D P Q Q V R T G H L V E V P Y P
UniRef90_Q46RV1 E W T E R L L K A G V P C G P I H R V D Q Q V F A D A Q V K H L G V H A E L G D V
UniRef90_A4ALU1 E A L A R L T K F G V P A S K V Q T L A D V F E C P Q Q V E A R E M I L R V P D D
UniRef90_UPI000467C340 E W G A L A A H T D A C L T P V L S L A E A G N P Q Q V D A R S I L V A E P G R
UniRef90_Q9KJE9 W L M E A L L K A G V A A G E V R D A R E A I E D E H L R R R G F W A Y L D H P
UniRef90_K6VY26 E W A R C A E G T D A C L T P V L D L D S E A P A D P Q V A H R E V L A A G D G H
UniRef90_S5Y51 D L L A A L L E A E G V P A G P V L N E M A D V F A D P Q I V A R G M K I M P E G V
UniRef90_K8XG98 E I Q E A A D T A G I G N A R L N G V R G L A E H P Q L A A R G R W R D I V T P
UniRef90_UPI0002F5F4FB E W F R Q L R A A G I P C S P V I Q N V G E G L R T A I E L G L D P V W H E T E D P
UniRef90_A0A034UPS3 D A L K S L E A A G I P C G P V I Y T A A D I V A D E Q Y K A R N M I Q E P K T P
UniRef90_A1WS90 Q V M A R L D Q A Q I A N A R V N D M A G L W A H P Q L A A R G R W Q D V P T P
UniRef90_A4ALT8 A L A A R L M R R G I P A S P V R N A S E L L D A S S L R A R A G G A F E W L D H P
UniRef90_M4UQE3 T L A P R L E A A G I P Y A P I V R P D Q L D D P H L K A S G G L A P M D G S
UniRef90_HOFFN9 E W V E R M E A A N V P C G P I Y N M K Q V F E D P Q V R H R G M R L T L P H G
UniRef90_K0HQM6 E L A A I F E R H S L P F A P I R R P E E L F D D E H L Q A T G G L A N I D G E
UniRef90_S2JT17 E V L E V L E K V G L P A G K I Y D A K D I V E D E H H I N A R G M I E N I T V G
UniRef90_C1AV84 E V A T E F E R V G A A L A P I Y D V E Q L M K D P H V L A R D M L T T V D D E
UniRef90_D8IYV7 Q V A A R L D E A Q I A N A R V N T M Q E L W Q H P Q L A A R Q R W T E V A T P
UniRef90_UPI000378A557 E A V A R L E A G I A C A R L N T L T D L A A H P Q L A A R E R W R E V A S P
UniRef90_C1BBC6 E A V A L L G A A G L A S S E I W N V E Q A L S S E Q S T R H R G L V E S F E H P
UniRef90_L9WMH2 H W V D L L T E S T L P W G D V N Q L D E V L D H P Q T D H L D L V S F I E T E
UniRef90_HOYUN7 E W C S V F D S T D A C V T P V L S L F E D A S H Q H N K E R N S Q I K N D E E
UniRef90_UPI00036AE1B5 D W I T L L E D K A V P C G P L N D I G R A F D D A Q V Q A R G L A V T L P Q I
UniRef90_UPI0004672154 E L A A R L E E S A I A N A R M N T M A Q L W E H P V L A G R E R W R E V E T P
UniRef90_Q1GJP4 D L L A A L L E A A T V P A G P I N T I G Q A F E D A Q I K A R G M Q I A P E G V
UniRef90_M0EB05 E W I E I A E D A G V P A G P V V S V E E A L N S E Q I D A R G T I T E I D H P
UniRef90_H8IPE0 P T V E R L A G A G I P A A P V V S P S L V T D N P Q L T A R E R G F F E A L H H G
UniRef90_UPI0001FFEED8 P L V K A L Q T V D V P A G E V V S R E A L A D P H V T A R A G V V H P T E G E
UniRef90_UPI00037BE93A V W M A R L N E A D I P C M P M H D I D S L L Q D P H L Q A V G M L Q A V D H P
UniRef90_UPI0002D2E405 E W V A W F E D K D V A F S P V L D F A E A F A S E H V E T R G L L V E A G G A
UniRef90_L0JLK9 Y W A E R L N E A G I P W G D V N E L D D V L D H P Q A D H L D L V K E F E T E
UniRef90_HOTEK5 E W E A A L N E A G V P A G R V L S A E V L Q E K Q L R D R H F V E T L P A E
UniRef90_A0A051TVP8 D A L D A M A S A E V A S K I Y T V A D I L D D Q T Y A R E D D L I E L G T V
UniRef90_K9AL09 D L L E R L S A G I P A G T V R T L P E V I E W E Q A L S O G L K V S V D H P
UniRef90_I0RQR3 E I V E L G Q L F R L P I A P L G N G S T I R E M A Y M R E R G V F V S P A G F
UniRef90_E8TCT3 A W E E T L N R A G V P A G R V L T I P Q V L A E P Q Q V E R Q V F D D V A G M
UniRef90_A1UJM0 E I R D L A S A F R I P N A P V A N G E T V A T L D H Y V E R G S F V P R D G S
UniRef90_A0A059FB49 E I S A R L D E Q S I A W A P V Q T L A E V A E D P Q I K A A G A L V D V D G S

UniRef90_L8HA58 WE P R P A P R L S S R T P A R A K A S P A A G Q H T Q A V L R E Y
UniRef90_BOT6G5 R A I R H P V R Y S Q T P A N Y R H P P A L G E H T A E V A S E
UniRef90_G8PQF0 N L I G N P I N Y S K T P V T Y R A P P T L G G A H D S I E V L T K Y L
UniRef90_X51TH1 T Q P A P A P R L S V T A R Q P A P A V L G G A H S V I E V L T H E W
UniRef90_UPI000468E542 R H G A R P V R Y D G N R S D F R P P P D L G G E H T A E V L R E
UniRef90_D8PZM8 R L V A P A P H Y N G K T R M P P V I G P P P W L G G E H T D E V L
UniRef90_H3NU18 R Q A R P A A R F D K T P S E I G P A P K L G G E H G P S L A E L
UniRef90_UPI0004703938 D V L G P A F A L S A H E S D Y T V A P R R G G D D N E A V I Y Q G R L G
UniRef90_F2J6M2 R H P G I V P M F P D S P G T R T G Q D V G Q H D T D A V L T D I A G
UniRef90_A1W297 A G A V P A L V N S A F D Y R M D A V P A V G G Q H D N A A I L A A L
UniRef90_B9L150 R L V G P A V E L S R T P P V T R R P P L L A G E H T A E V L R E L
UniRef90_K0MB38 G A P G K V P I F S R T P P E L R R A P L N G G E H T E A I L A E L
UniRef90_Q0RXB4 R G V G V P I S L S R S P A P R R A V P R G A D T T N V L S
UniRef90_A0A038H2J3 G L A R K A P I L S R T P P S I S R P P T I G E H T T E I L H E
UniRef90_U7DTS1 T G M G L P I H F S D M P T T S R P A P L L G E H T T R E V L K E
UniRef90_W5TJE0 N G P I P P A V I E G Y H P P M G A V P G L G E H T D A V L T E F
UniRef90_W2ET56 D R A V P P I R F S R T P A G Y R P P P E L D E H G A E L R E W L
UniRef90_B8KU02 E L P G T P V K F E N E P A G S V R R A P K L N G E F A D S V
UniRef90_W7F4Z0 A V K G P A V K F S Q T A A S L R P P P V L G G E H T I E I L D K L G
UniRef90_J2KGW8 V L P N L P F R M S G G D T S I M Q A P E L G E H T N A E I A A
UniRef90_A9BP93 A G L L P P A T L S D A E A A M G A V P A L G A H T Q A L W D E F G G
UniRef90_UPI0004766E19 D G P G V V P I L S R T P A G G T R W G P A L G A H T N E Q V L A E L
UniRef90_G9ZZK9 T R T K T P N H F S G G M R E D E P A P R L G E N T R E V L R G L
UniRef90_UPI0003696F22 A G P V P I T F G D V E A R M G P V P A L G E H T T R A V L A E F
UniRef90_D2PNL6 T L P G P L R F D D N Y A G A R P P R L G E H T N E S V R A W L
UniRef90_C5D0R8 A Q A V H A P P Y G A R S D V R H P P P H L G E H T G E V L R E L
UniRef90_G8NSD0 E M G T I P P R L A K T P G A H K A A P H L G E D S R N I L R E
UniRef90_A3K7Z0 L V P N L P F R M T G S S V T V R V P E L L G E
UniRef90_UPI00036131F0 G G A I P P P V I A G Y T P P M G A V P G L G E H T D A V L N E L
UniRef90_D5ZRQ4 A A R A G T V R V L G L P T H V I D P P P A L G E H T E E I L L E
UniRef90_L8F7N2 T V I Q A P V P R F S S A P G R V E H G P R L G E H T A V Y G E L L G
UniRef90_L9WDV4 P R L G F P A R G S D V I A A D E T V P A H G E H T R E Y L A
UniRef90_X1Y605 T L V G P P I N A Y S E A R N E I S V P P L L G E N T D E
UniRef90_G6ECK1 P L T R A P V I N S E T P A E I R R P P G V L G E N T A Q V L G E
UniRef90_A0A059E4H3 W E T Q P P V T F R G T Q Q R I A P A P R I G E H T E L V L S E L
UniRef90_H1S0W2 T V I G R R A I K F G R T P G P Q P A A P V L D G G E L V K A E
UniRef90_I0DW69 G T P L V P P F F N G Y P H V T Q R A P S L G E A N A
UniRef90_H1SAY3 L G A L P F T L L D T A S G A A P A V P R L G Q H T A E I L S E L
UniRef90_F4CUP7 A M H N V M W R M S R T P G S I R R P P G A D T D E L L V G E L G
UniRef90_V4XU43 D L G R V V P T L S E T P G G I D H G P A L G A H N D A V Y G G L L G
UniRef90_V6M4E1 R V P N V V A K F S R T P G R I S R G P K H G E H N L E V Y R D W L
UniRef90_UPI000477B3EC E L P L P A P H F G D Q R G G R S A A P G L N E H N D E I
UniRef90_W5JBK3 V V P T P A P K L S R T P A T S G A
UniRef90_D2B3Q1 R Y G A S P V R V G G E R P S Y R R A P R R D E D A G Y V L R E V L
UniRef90_F4CT56 T G P A R T L Y P P G L G G D G R A P P A V G E H T D A V L R
UniRef90_A5FZ16 R T L G T P I K F S R T G P H A P P G F A A H L D E I L A E
UniRef90_A4SX74 T V P G V I P K L S R T P G S I K T A P Q I G E N T D E I L K
UniRef90_I0RX03 G A L L P P V T L G G V D P A L G D V P G L G A H G P A I L R E L
UniRef90_F4L9K7 R V M I T V T L A R T P A D I A R A P G W G E H T D E V L R E
UniRef90_D3BV77 L D V M M A P R L
UniRef90_V8QXA5 V L V R S P I N L S A F P H D H H A G P D N G E H T E Q I M A E
UniRef90_A9ICD5 M P P L P V P R L S A G P V S S E S A P R A G E N T R A I L A D L
UniRef90_UPI000471B848 T E G G I P H A W S R T E P D I R H A P L L G E N T A E V L K E
UniRef90_W6Q0A5 M G A I P A P P G S G Y G A Q M G S V P R V G A H N E A I L A E L
UniRef90_J5E1Y4 G M P A P A P L S H T P G R I R P A P T L G A H T I L T D L
UniRef90_Q46RV1 A L V G Q P M R L S R Y P R P Q P A P E Q G A N T D D I L R E L
UniRef90_A4ALU1 V L V G N P I K G N L T P S V V R P A P Q L G E H S S E V V E W L
UniRef90_UPI000467C340 E G E G S T P R L P I G Y A M D A S P A H E I L R S W
UniRef90_Q9KJE9 E V I G V A P I V L S R T P V I E M K A A P S I G Q H T R E V L G G M L G
UniRef90_K6VY26 W T P R L P S G F V E R P A S V
UniRef90_S5Y51 P G V R T P I R F S D A E L A D R A P R L G Q D
UniRef90_K8XG98 A G P V P P P G L A G W A T V S G S V P A L G A D T D A I R A E F A G
UniRef90_UPI0002F5F4FB D S V A N S L S M S A T P T Y R K P P A L G E H T G D A I R A W L
UniRef90_A0A034UPS3 G F T G I V P V I G E Q S L P R N V P D L G E H T R E V L S G L L G
UniRef90_A1WS90 A G Q V P A L R N N R F D Y R M D P V P A V G Q H T E A I L R A L
UniRef90_A4ALT8 V M G A P A T A R L S R T P G R L S P A P L L G Q D T D S V L D T L G
UniRef90_M4UQE3 T G P A V L L P L G R R P G V R G P L K P G E H T D E V L A
UniRef90_HOFFN9 A G V A S P I R M S E T P I Q Y G R A P L L G E H T D R V L S E L L
UniRef90_K0HQM6 R I T L M P L R M D Q R L D V R D P R L G A H T A E V L Q G L
UniRef90_S2JT17 T V P G M S P V L N T T P G S T W A G P D L G A H T N E V L K D I L L G
UniRef90_C1AV84 A M Q N L M V R M L I G T P G A I R F P G R L G Q D N A Q I Y R D T L L G
UniRef90_D8IYV7 V G K V A A L L P P G A N D S Y D A I P A L G Q H T E S I L S A L
UniRef90_UPI000378A557 V G P L P P V I T F P D A A V M G A V P A L G A H T D A I L R E
UniRef90_C1BBC6 V A V R Q P V I F G G S A P G V R S P L L D E H R H P L L S E
UniRef90_L9WMH2 D G P V N P I S F D G L E T T A D R M P D L G E H T D D I V L
UniRef90_HOYUN7 E I P R P A P V L S R T P A V P K R D P F I L G E H T E I L E Y
UniRef90_UPI00036AE1B5 R G V A S P L R L A D N P V V L R A P P A L G Q H T D E V L R E L
UniRef90_UPI0004672154 G G V I P T T L R G V I E A H M G P V P A V P R D T
UniRef90_Q1GJP4 P G V R G P W V F S D A D L A L D R A P V L P R D T
UniRef90_M0EB05 E L G E V P V K F R N A E S G F E P P P L L G E H N R E V F R E
UniRef90_H8IPE0 S T G L P C P P F A L L D G Q L R P P P K L G E H T N E A I L R D R C G
UniRef90_UPI0001FFEED8 F P A L R T P R D S G A E P T D P P P L L G A D T D A V L A
UniRef90_UPI00037BE93A T E G G V P V S F S G T P G V Q K P A P R L G Q H S A E V L R E
UniRef90_UPI0002D2E405 H H I A P A I R F A G E P W Q P Q D A P E L G
UniRef90_L0JLK9 D G P V P P I L D S E L E F A A E P M P D L G E D T E D V L A A L
UniRef90_HOTEK5 R V I T R P G F R I L D E D Y P A P S Q P P V L G A D T E R W L A R L
UniRef90_A0A051TVP8 K M Q A V T I K L R F Q H G G A V W R G P A L G E D N E L V Y T D W L G
UniRef90_K9AL09 V L P G P P L R F R D T K T S V D A P L L D E D A E I A A W L
UniRef90_I0RQR3 H Q P R P P W L M S R R P A P L R R A P T L G E A D D E
UniRef90_E8TCT3 D K P L T V L R D G E A P L P T K P P P A L G E H M S E V F A D L
UniRef90_A1UJM0 T Q P G P P Y R L N P P V L R P A P R L G E H T E
UniRef90_A0A059FB49 T F P S P P V R F P G A D D G P K G P P K L G E H T R A V L E D L

UniRef90_X0Q392
UniRef90_G8RW36
UniRef90_A0A011P2G9
UniRef90_D5P7W4
UniRef90_E2CD52
UniRef90_W4L9G9
UniRef90_A9HXV0
UniRef90_I0WKV8
UniRef90_Q122Z2
UniRef90_UPI00021928EC
UniRef90_B3Q6K6
UniRef90_D4XIS4
UniRef90_E3J2Q5
UniRef90_K0CBW2
UniRef90_UPI000415BB62
UniRef90_M6D8F6
UniRef90_UPI0001FFF23A
UniRef90_K2KNV5
UniRef90_UPI00036B1661
UniRef90_UPI00046F89A4
UniRef90_F4CVM1
UniRef90_UPI00037DAD0A
UniRef90_UPI0003B7025A
UniRef90_J4JB7
UniRef90_A0A034WBJ3
UniRef90_A4SYN9
UniRef90_N6WV76
UniRef90_F0SU70
UniRef90_N1ZX31
UniRef90_UPI0003627AF2
UniRef90_UPI0002DAB6C5
UniRef90_UPI00035CFEE6
UniRef90_X5LMJ9
UniRef90_G411T2
UniRef90_G1PYV6
UniRef90_UPI000375EE80
UniRef90_K6W1G4
UniRef90_A0A024JSR6
UniRef90_F1YP93
UniRef90_UPI00035F1292
UniRef90_B2UAX6
UniRef90_UPI0003B50715
UniRef90_V7L751
UniRef90_UPI00035C6657
UniRef90_I0RP08
UniRef90_A0A031JRD4
UniRef90_UPI0003B3AF53
UniRef90_D5VHX1
UniRef90_F7UHB4
UniRef90_V1CHY5
UniRef90_F1ZAW9
UniRef90_A1SP28
UniRef90_E8TX75
UniRef90_B0T762
UniRef90_E0E2R7
UniRef90_Q0K2Y5
UniRef90_K9CL65
UniRef90_V4K2W7
UniRef90_C9M2D2
UniRef90_Q46UD4
UniRef90_D5ZRR2
UniRef90_UPI000369FC4B
UniRef90_UPI00046F1551
UniRef90_W9BZJ5
UniRef90_UPI00035E6E0B
UniRef90_A0QDZ7
UniRef90_D816H0
UniRef90_B6QKQ3
UniRef90_UPI000364AD5C
UniRef90_A0A022FP37
UniRef90_M0EA00
UniRef90_H8IN05
UniRef90_UPI0003765655
UniRef90_W5TQF3
UniRef90_M2Y6Q9
UniRef90_F7UZL5
UniRef90_E8LD47
UniRef90_H1S613
UniRef90_X0PZ01
UniRef90_UPI0003A7E98D
UniRef90_Q1N311
UniRef90_U5WTG9
UniRef90_G5GF63
UniRef90_UPI0002D680F8
UniRef90_L8FJH4
UniRef90_X5LJ00
UniRef90_L9WLX9
UniRef90_B0Y2Y0
UniRef90_UPI000464990D
UniRef90_E8TW91
UniRef90_V7D574
UniRef90_I4BM99

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

UniRef90_X0Q392 D F A R E Y D T Q V H G M A S Y F V W L N R S A L R Q L I A G A D V V V Q N L 80
UniRef90_G8RW36 D P Y R G N R N K R S V T L D L D L R K Q S Q G G L V D V L H K L L A E S A D V L L V T S L A R
UniRef90_A0A011P2G9 Y F E L V N R N T N K R S L T L D L D L K S Q S A G G R D V L A F M R G L A A N S D D V I L V E N G F F S
UniRef90_D5P7W4 M Y L A T V N R N T N K R G L T L D L D L K S C P A G G R D L L F K K C A S D D V I L V E N F F S
UniRef90_E2CD52 S F L A Q N A T N K R K S V T L V N L V L K E T P D T G G R K A L L F E K L L V A T A D V I L V E N F F R
UniRef90_W4L9G9 V F L L Y L N R N T N K R S I T L L N D V L V E T K P D T G G R Q I L L R E L L A A P S A F D V I L V E N F F R
UniRef90_A9HXV0 W W K V A N R G K R G I T L L V D V V R K E T P Q G G R Q I L L R S M L P S A F D V I L V E N F F R
UniRef90_I0WKV8 G D F W T G R G K E S L A V L D L K T T P E G G Q Q I L V L D L L D S A D V I F M Q N L S
UniRef90_Q122Z2 F F P T F N R N K R S V A L D L K T P E G V E A A L R L L I A T A D V I V S E N F F K
UniRef90_UPI00021928EC L Y L Q V N R N K R S V A L L N L K K E D D L A H L M D R L L V E R S A D V I L V E N F F R
UniRef90_B3Q6K6 G D D A R H W G P P F V T L D L K N P D D V A R L K Q L L V E Q S A D V I L I Q N L R
UniRef90_D4XIS4 D F A K Y N R N K R S V L S L D F K R E A H R D L L R L L V E R S A D V I L V E N G F F R
UniRef90_E3J2Q5 F H R K M N R N K R S V L L D L K T A A G R A A A R R L L A E A D V I L V E N F F R
UniRef90_K0CBW2 A F V T T N R G K R S V V L D L K S Q E Q G R R A L A A L L G D A D V I F I H N V R
UniRef90_UPI000415BB62 G D E L R N W R K L Y K G D T S M R S D A G S K E A V L E L L V K E D C A D I L L E N F F R
UniRef90_M6D8F6 M D A T R V M F K K E N T L N L K R S D E A G S K E L L F E L L E K A D I L L E G F F R
UniRef90_UPI0001FFF23A D M T R R T M P Q R R H P G M D L K T D G G R A V L D D L L G T A D V I L V T T M R
UniRef90_K2KNV5 S F M A Q N A G K R S L T L N L K D Q G G R A V L D D L L G T A D V I L V E N F F R
UniRef90_UPI00036B1661 V E T A R Y M K P F V N G V P S R T G E G R A V A H D L A G W A D T V V V E N F F S
UniRef90_UPI00046F89A4 G Q P S K E R G R D V H L D L K S G A D Q A Q V R A L I A E H D V L I E G M R
UniRef90_F4CVM1 D F A R N Y D T A C G D V S S Y F A W L N R G A A H R L V E T A D V I L A N L G
UniRef90_UPI00037DAD0A P F A M L N G M K E S L V L D L K S A E G K A L H A L L A D A D V L V E N F A
UniRef90_UPI0003B7025A G D D T R Q W G P P F V T A D L K T E E G Q S L V R R L L A A T A D V L I E N F K
UniRef90_J4J8J7 F F P M F N R N K K S L A L D L K Q S E G T E A A L R L L I D S A D V V S E N F F K
UniRef90_A0A034WBJ3 N N F D V M T H G K T L L N L K T S P E G R K L A R K L L V Q V H D V L I S D P F R
UniRef90_A4SYN9 H F V W V N R S K E S L T L D L K Q P A A L A A L K T L L K T A D V I L V I Q N L A
UniRef90_N6WV76 G D F N N R N K R S V I A L N L K E T P E G K E A L L K L L I A G A D V I V Q N F R
UniRef90_F0SU70 E F M R F N A N K R S V I A L D I K T E T E T G R E I F F R L L A D T D V L I E N F R
UniRef90_N1ZX31 Y Y L Q L N A N K K S L T L D I K S D E G K K I M N D L L K K A D V I V E N V R
UniRef90_UPI0003627AF2 G E S G R A A L P M M T T V D L K H P E G R E I V L R L L A E K A S D V I V C E N F K
UniRef90_UPI0002DAB6C5 L F N N Y S R N K L G V T I N M K T D R E G Q I L V R Q L I S A S S V I V T E N F A
UniRef90_UPI00035CFEE6 H F V W L N R S K E S V T A D L K D A E G Q L G R V K E L I A Q A D V I V I Q N F A
UniRef90_X5LMJ9 Y F V W L N R G K E S L T L D L K A P E G L R T V H R L L I E D A D V I V Q N L G
UniRef90_G41T2 T R M I A G V P M T E G Q W W E K A Q Q R G R E L L R Q L I A T A D V V A E N Y T
UniRef90_G1PYV6 D V S C L S R G K R L L A L D L K R W R G T A V V R R L L C A C T D M V L I E P F F R
UniRef90_UPI000375EE80 P D M L R S F P P M H V D T K H P K K P E A R E V I R R L L G K Y D T V I E Q F F A
UniRef90_K6W1G4 D P M R H W G V Q H E G Q S L W K N D A D R A L A R T L F T K A D V V L E N F A
UniRef90_A0A024JSR6 D P G R M F G R M L G C D L G V N P P E G R E T A F E L L A G A D V I V T N V R
UniRef90_F1YP93 G D D T R S W G P P Y A W L D F R D P D D L A V A R D L L A R R A D V V V E N F L
UniRef90_UPI00035F1292 G D D T R S W G P P W A W K E S A R T S A Y Y L C A N R G R E A D V I E N Y R
UniRef90_B2UAX6 G D Y A R D M M R T E M R L D L K R A E D R D A L L E L V R H A N V L I E S F R
UniRef90_UPI0003B50715 D P Y R W N R R R S V A L D L K S A D G L A S F R Q L L A T A D V I V E N F S
UniRef90_V7L751 S F A W H R N R K R G L G L L K S A E G A Q L F R E L V A D A D V I V A N F K
UniRef90_UPI00035C6657 R W L W H G R N K R S M V I D L K R P D G R N V F Y D L L D T A D A V V E G F G
UniRef90_I0RP08 G D D T R S W G P P F D S D G V S A T Y F N V A R A R E L V A G A D T V V E N F R
UniRef90_A0A031JRD4 G D D T R A W S P P S V G R H S V T F E G R K L I A D L V A T A D I F I H S M K
UniRef90_UPI0003B3AF53 S F L A Q N A G K K S I T L N L K D P R G K D L I K K L V K Q A D V I V E N F R
UniRef90_D5VHX1 Y Y A Q Q N S G K R S I S I D L N A P G A R D F V L R L C D E A D I V I E N F R
UniRef90_F7UHB4 G D A M R A Y E P Q S I A L D L K S S E A L E T L W P L I E K A D V I E Q F R
UniRef90_V1CHY5 D W E L E N A N K R C L S L N M K D P E G K E A F L K L L E E A D I L I T N W R
UniRef90_F1ZAW9 D D T R S W G P P F I E T A D F T T E G Q A F V R E L V A D A D V I V E N F K
UniRef90_A1SP28 F F E T F N R N K R S L S L D I S T E A G R E V F H E L V R V S D V I Y S N L R
UniRef90_E8TX75 E V M R N S H A P G S K A V D I R S Q P E G A D I V R A L A R T A D V I T I E N F R
UniRef90_B0T762 D P M R G F F D K R S L V L D L R S P A G S Q A A K A L V K D A D I F L T N V R
UniRef90_E0E2R7 D T M R F V G L Q W C F P T D E K E N E G V E V I Y K L L D D A D I F L T N T R
UniRef90_Q0K2Y5 M Y L A Y N R G K R G I A L D L R T P G G L D A A R R L A L J A S D V V L H N T R
UniRef90_K9CL65 A Y F A H E L T R K S W D R S K R S V E L D V A D A D D L S G A D I F I H A L E
UniRef90_V4K2W7 D E A R K F A P I V N G L S T Y K S N E D R D I L Y N L V K E S D V V I E N Y R
UniRef90_C9M2D2 Y F R I C N V G K E S I A L D L K D P K D H A L V E K M I A K A D V V V E N F R
UniRef90_Q46UD4 P D W R G A N F T E E F Y R E R L Y E M K N T N F H L M N A R A D A V I E N Y S
UniRef90_D5ZRR2 D D A R G W G P F V G D S S V S F H M N K V F L D L I R D A D V I F I H N L R
UniRef90_UPI000369FC4B D W G R Y N G G K R S A C I T D A T T D T G K A V L L A L A L I Q A D V L V Q N F R
UniRef90_UPI00046F1551 Y D T R H W R N K Y D L V L D F T P D D L A T A Q K L A A Q A D V I V E N F K
UniRef90_W9BZJ5 F F Q A F N L N K K S L T L D L Q S E R G R E I L R A L A A T S H A M V N N L R
UniRef90_UPI00035E6E0B D D T R T F K P P V R D D E S T Y Y Q G D L V L A R R L A H R A D V I V H N F K
UniRef90_A0QDZ7 S P L R E L A S W P S V T L D V H N D A D L D R L R G L L Q R A D V M V T N T M R
UniRef90_D8I6H0 I M E G P N R G K R S V G L A L E H P E G V E I L H E L A K N C D V L V E N Y L
UniRef90_B6QKQ3 F F A Q T N T S K M S V I A L N L D L G S A R G V E V A K R L V A W A D V V V E N F G
UniRef90_UPI000364AD5C V F A Q F N R S K K Q S V I A L D L D L K S D A E G R S A F L G L V R D A D V I V E N G F R
UniRef90_A0A022FP37 S F A N Y V N R N K L G V T L D L D L K S D E G S A V F A D L V E E S D V I I E N F A
UniRef90_M0EA00 I L E L G N R N K R S L G L D L K S A T G R E L F G R L L A S A D V I L T N W L
UniRef90_H8IN05 E K F R K S P G A I Q W N R G K K T P Q G R E K A H K L A R L S D V V I E N S F R
UniRef90_UPI0003765655 D Q M R A W P P F A D D G D E R R D P G D L A R V R D L V A A A D V I V E N Y R
UniRef90_W5TQF3 P D G W G H R N R R S F G L N L R S P E G K R I E K R L A A D A D I V L A N F K
UniRef90_M2Y6Q9 N F D L E N A N K K G I V L D L R S D K G K E V L F K L L D D A D V I L T N W R
UniRef90_F7UZL5 W H L M L N R N K R G V A L N L K K D G G R D L L K L L Q E A D V I L E G F R
UniRef90_E8LD47 A G W A G N R G R R S V V A N L A S T P E G R E T V L R L I E G A D A L I E G M R
UniRef90_H1S613 D M S R D I G A R R H I A I D L A S A E G R E I L D D L V R N A D V L I T N L R
UniRef90_X0PZ01 H W K V T N R G K R G I S L D V R K P R G R E L F L K L L P H F D V I V E N F R
UniRef90_UPI0003A7E98D P H S Y L N R N K K A I A L D L K K P Q A K G L I E A L L Q E Y D I V I E Q F R
UniRef90_Q1N311 Y F L P N N R N K K S V T V D L T T G A A R Q Q L I R L A D T A D V I L E G F R
UniRef90_U5WTG9 T W D L E N G N K R C I S I D I R K P G G R E A F F K L L D T A D V I L T N W R
UniRef90_G5GF63 F F P S F N R N K R S L C L D L K R P E S L E L V R R L A A E A D V I V E N F R
UniRef90_UPI0002D680F8 G D E M R T Y E P K F Y A V D F K D P T Q R D R V L E L A A D A D I V V E N Q F R
UniRef90_L8FJH4 I M E A P N R G K R S V G L A L D N A D G R P V F D E L V R R S D V I L T N Y L
UniRef90_X5LJ00 Y F D S V N R N K H S V A L D L K S D A G Q R A A Q R L I A D A D A D V E V E S T K
UniRef90_L9WLX9 S T D Q L T R R K T S L T L D L D K T S H R L L S I L T K A D V L I D P Y R
UniRef90_B0Y2Y0 L F Q T I N R N K E S F C A D L K N K S N F A A V K K L I E K A D V M I E N F R
UniRef90_UPI000464990D Y F L S C N R N K K S V T A D F A D A D R D W L R Q V R D A D V I V E N Y K
UniRef90_E8TW91 Y W M T Y N R N K K S F A V D I K S E E G M A V K K L I A T A D V I V T E N F R
UniRef90_V7D574 D P L R G W S A C S K R S V V A D P R T D A E F L D T L I A G A D A V V W T P G
UniRef90_I4BM99

UniRef90_X0Q392
UniRef90_G8RW36
UniRef90_A0A011P2G9
UniRef90_D5P7W4
UniRef90_E2CD52
UniRef90_W4L9G9
UniRef90_A9HXV0
UniRef90_I0WKV8
UniRef90_Q122Z2
UniRef90_UPI00021928EC
UniRef90_B3Q6K6
UniRef90_D4XIS4
UniRef90_E3J2Q5
UniRef90_K0CBW2
UniRef90_UPI000415BB62
UniRef90_M6D8F6
UniRef90_UPI0001FFF23A
UniRef90_K2KNV5
UniRef90_UPI00036B1661
UniRef90_UPI00046F89A4
UniRef90_F4CVM1
UniRef90_UPI00037DAD0A
UniRef90_UPI0003B7025A
UniRef90_J4J8J7
UniRef90_A0A034WBJ3
UniRef90_A4SYN9
UniRef90_N6WVP76
UniRef90_F0SU70
UniRef90_N1ZX31
UniRef90_UPI0003627AF2
UniRef90_UPI0002DAB6C5
UniRef90_UPI00035CFEE6
UniRef90_X5LMJ9
UniRef90_G411T2
UniRef90_G1PYV6
UniRef90_UPI000375EE80
UniRef90_K6W1G4
UniRef90_A0A024JSR6
UniRef90_F1YP93
UniRef90_UPI00035F1292
UniRef90_B2UAX6
UniRef90_UPI0003B50715
UniRef90_V7L751
UniRef90_UPI00035C6657
UniRef90_I0RP08
UniRef90_A0A031JRD4
UniRef90_UPI0003B3AF53
UniRef90_D5VHX1
UniRef90_F7UHB4
UniRef90_V1CHY5
UniRef90_F1ZAW9
UniRef90_A1SP28
UniRef90_E8TX75
UniRef90_B0T762
UniRef90_E0E2R7
UniRef90_Q0K2Y5
UniRef90_K9CL65
UniRef90_V4K2W7
UniRef90_C9M2D2
UniRef90_Q46UD4
UniRef90_D5ZRR2
UniRef90_UPI000369FC4B
UniRef90_UPI00046F1551
UniRef90_W9BZJ5
UniRef90_UPI00035E6E0B
UniRef90_A0QDZ7
UniRef90_D8I6H0
UniRef90_B6QKQ3
UniRef90_UPI000364AD5C
UniRef90_A0A022FP37
UniRef90_M0EA00
UniRef90_H8IN05
UniRef90_UPI0003765655
UniRef90_W5TQF3
UniRef90_M2Y6Q9
UniRef90_F7UZL5
UniRef90_E8LD47
UniRef90_H1S613
UniRef90_X0PZ01
UniRef90_UPI0003A7E98D
UniRef90_Q1N311
UniRef90_U5WTG9
UniRef90_G5GF63
UniRef90_UPI0002D680F8
UniRef90_L8FJH4
UniRef90_X5LJ00
UniRef90_L9WLX9
UniRef90_B0Y2Y0
UniRef90_UPI000464990D
UniRef90_E8TW91
UniRef90_V7D574
UniRef90_I4BM99

P G A V D R L G V G A K E S L R V N P 100
P G A L D R L G V G A D A V R E R H P Q L I Y S S L S G Y G T G G P Y Q D K K A
P G V V D N K F G T Y W A A A A L P P R L I Y A R L N T G F G V R D G G P D A D Q R A G
P R V F D N K F A I T Y W E A V A A A L P P R L M V R M V R M P A F G G Q L D D G P Y W R N N V G
P G V M D R L G V G Y E A L K E T I K P D L I Y C A T S G F G Q L D D G P W V H R P A
V G V M G A M G L G F E T L R P G L I L T S R I T P F G Q Q T G P W R S H R Y Q A G
S G S M D R W G L D I E T L H R A N P R L I V V R L T G F G Q Q T G P W Y R S R Y R A G
P G A V D R L G L G A D E H L T R R N P R L I V I S N S G Y G T P G G P Y A G K R A
UniRef90_Q122Z2 P G T M K K L G L D Y E A T L K K R H P R L I Y V S H K G G F L P G P Y E H R T A
UniRef90_UPI00021928EC G R A L T R L G L G I G Y E Q I L K Q D R F P G L V Y A H Q Q G F N Q R S A S A N R P A
UniRef90_B3Q6K6 S G V V A S C G I G P D V M C A V N P R L I Y C S V S W A F G K A G P L S K E P G
UniRef90_D4XIS4 P G V L A R L G L D Y A R L A R A N P R L V M C S I S G F G A Q T G P Y A Q R R P G S
UniRef90_E3J2Q5 P G V M A A F G L G P A E M C A A N P P E L V Y V S L S G F G A S T G P W A A R R S
UniRef90_K0CBW2 A D A T A R L G L G F D Y A S V K A L R N P D I I Y A H C V G F G S G T G P Y A S G L Q A G
UniRef90_UPI000415BB62 P G T L E K W G L G P D V L N E V K P P E L I T T R I S A F G G D S G A P M S S R P G G
UniRef90_M6D8F6 P D G L S K M G L G Y D D L K E K F P R L I Y C G L Y G Y G D S G A Y K D F A G
UniRef90_UPI0001FFF23A P G A L A R L G L A P D A V S Q R F P R L V H V R A Q G F R S D S E L A D R A A
UniRef90_K2KNV5 P G V M D R L G L E L G Y A T L S K V N P R L V Y C A T S G F G Q Q T G P M K K L P A
UniRef90_UPI00036B1661 P G Q M A R W G L D Y A T L A R D R P R L I M L S T S G F G Q Q T G P L A K L A G
UniRef90_UPI00046F89A4 P G V M E R L G L G P A D C H A L N P R L V Y V R V T G W G Q D G P L A L R A G
UniRef90_F4CVM1 P G A T A R L G L D G D T L R A R L P R L V T Y C E L T G Y G S D G G P A A G R K A
UniRef90_UPI00037DAD0A P S T M A R L G L G F P A E E L R Q K L Y P R L I Y A S S G F G S D G G P Y R D Y P A
UniRef90_UPI0003B7025A L G G L V K Y G L D Y E S L R K L N P K L V Y C S I T G F G Q S G P Y A S L A G
UniRef90_J4J8J7 S G V M E K L G L G Y A A L K A R T P R L I Y V S H K G G F L P G P Y E N R T A
UniRef90_A0A034WBJ3 P G V L E S V G L G P H L L C K E N P R L I Y A R L T S G Y G N N G P L A K R A G
UniRef90_A4SYN9 P S A A A R M G L T A D L L Q K E N P K L I L C D I S G Y G N N G P Y R D K K A
UniRef90_N6WVP76 P G V L E R M G L G E E S V L R K K V A P D I V Y V S I T S G F G E T G P Y A D D P V
UniRef90_F0SU70 E R S M K M G L D Y D S L R K E R F P G L I Y A C I T S G Y G D T G P R A D D P G
UniRef90_N1ZX31 P G A A D R A G F G W K D V H A L N P R L I M A S L K G F N Q G S R F E N V K A
UniRef90_UPI0003627AF2 P G T A G R L G L G F E D I A A V N P R A I Y L S V S G F G N T T P Y A S W P A
UniRef90_UPI0002DAB6C5 P G V M E K W G L T Y D E L D R L S P N V I Y G R M S G F G H D P H H R Y K S
UniRef90_UPI00035CFEE6 P G A A E R L G L G A E D L R R D H P E L I H C S I T S G Y G S G P Y R D A K A
UniRef90_X5LMJ9 P G A S A R M G L D A D A V A R K Y R P Q I V V T A T S G Y G Q D G P W K D R K A
UniRef90_G411T2 P R V L D S L G L D Y A A V Q L K Y P R D V V M V R M P G F G L D G P W R D N P A
UniRef90_G1PYV6 H G V M E K L Q L G P E I L Q K E N P R L I Y A R L T S G F G Q Q T G P F T T A G
UniRef90_UPI000375EE80 P G V M D R L G L G F G Y A S V L Q A T R P D I I Y C S I T S G Y G Q Q T G P L R A R A G
UniRef90_K6W1G4 P G R L A A W G L D Y A S V A P D N P A L I M A H V I T S G F G Q D G P R A D R G
UniRef90_A0A024JSR6 P G A L R R L G L D F E S V S A R Y P R L V Y G L I T G Y G Q A G P D A D R A A
UniRef90_F1YP93 P G T M E R L G L G Y D A V V A A N P G V V Y C S I T G F G Q H N D L P G
UniRef90_UPI00035F1292 V G Q L A K Y G L D C A S V R L N P G L I Y C S I T G Y G Q T G P Y A Q R A G
UniRef90_B2UAX6 P G V M A R L G V G W D T L A R A N P A L V M C S I S G Y G Q D G P L A Q A G
UniRef90_UPI0003B50715 P G V M A R L G L D Y E E L A A D F P H L I Y C S V P A Y P S D T G P R A A D R P G
UniRef90_V7L751 P G T L E S L G L G F S H A E L A R L N P R V V V A D S A F G A T G P W R S R M G
UniRef90_UPI00035C6657 V G V A A R L G I D Y E T L R L R K P D I V Y A S V I T S G Y G Q S G N Y S R L D G
UniRef90_I0RP08 P G T M E R L G L G Y E D L R Q L R P D L I Y C A I T S G F G R D G G A S L P G
UniRef90_A0A031JRD4 P G S A E R R G L G W D D L R K I N P K L V Y C S A I S A F G S S G P L S S L P G
UniRef90_UPI0003B3AF53 P G V M D R L E L D Y D V L S K V N P A L I Y C A I T S G F G Q S G P M K K L P A
UniRef90_D5VHX1 A G T L K G F G L D Y A T L A Q R N P K L V Y C A I T S G Y G Q Q H G P W A S R M A
UniRef90_F7UHB4 P G V M D R L G L G Y E A M A K R N P R L V Y C S I T G W G Q T G P K A G K A G
UniRef90_V1CHY5 V Q A L E R A G L D Y E T L K A K F P K L V Y G M I T G Y G E F G P D K D L P G
UniRef90_F1ZAW9 L G G L V K Y G L D Y K S L N A L N P R L V Y C S I T G F G Q D G P Y A P R A G
UniRef90_A1SP28 G D V P S K I G I T Y D D L K H L N P R I V Y C S L T G F G M T G P R R S E P G
UniRef90_E8TX75 P G V V A R Y G L G Y E D I R A L R P D V V Y C C S I T S G F G Q Q G D W A R R R G A
UniRef90_B0T762 P A G L A R A G L N H E A L K A V N P R L I Y C S L T G Y G L E G P D A D R N P G
UniRef90_E0E2R7 Q K A L D R S G L N Y E E V L K K R A P H I I Y A H L L G Y G E N G P A K A D N P A
UniRef90_Q0K2Y5 A G V M E A L G L D A A T L R A A R P D L I H A S I S G F G T R G P S R T R P G
UniRef90_K9CL65 E G E A K A L G L D G E S L A R D Y P E L I V S A L T A Y G A D T P F A D R P P A
UniRef90_V4K2W7 P G V R E K L G V D P D T L F K I N K N L Y V S I K G F R P N S Y R D K P A
UniRef90_C9M2D2 P D L M K R L G F S T D E M V K K Y P K L I F A S L S G F G Q Y G P W S K Q A A
UniRef90_Q46UD4 A E V L P K L G L D Y E A L R A V N E R L V M V S M S A F G L G N A W S N T R A
UniRef90_D5ZRR2 P G V E H K L K A D A E T L R A V N P R L I Y C S M S A F G H T G P M A N R P G
UniRef90_UPI000369FC4B P Q V A E R L G V G Y A A L A A Q R P E L V Y V S I T S G Y G P D G P Y A D Y P A
UniRef90_UPI00046F1551 P G G L A K Y D L D Y D S V A A T N P A V I Y A S V T S G F G R E N A P
UniRef90_W9BZJ5 G D L P A R L G L D Y A A L A A D I N P G I V C A H L S A Y G R D N A R A K W P G
UniRef90_UPI00035E6E0B P G T T E R Y D L G Y E Q V A A V N P G L V Y C A I T S G F G T R G G A A L P G
UniRef90_A0QDZ7 P T T A E R L G L T H D A L S E R Y P R L V V A T L T G W G S T G P F R D Y K G G
UniRef90_D8I6H0 P G A R A K L K L D V E D V R E I N P D I I Y V R G S G F G A R G P E S T Y K G G
UniRef90_B6QKQ3 P G S L K K Y N M D Y E S I R K L N P R L I Y A S I T T G Y G Q T G P Y S N R P G
UniRef90_UPI000364AD5C P G Y M D R I G L G W D V L Q E I N P G V I L A S V S V A G R S G P M A G F R G G
UniRef90_A0A022FP37 P G V M Q R L G L G Y D T L A A V N P A I V L C S I S G F G Q T G P Y A D H A G
UniRef90_M0EA00 T G T A D R L G V G Y D D L K T I N K E L V Y C S I K G F N E G P Y E D Y P A
UniRef90_H8IN05 P G A L E R A R L T V D D I R S F N P K L I I A R G T G L G V R D R D R G G
UniRef90_UPI0003765655 P G V T R R L G I D Y A N L G A N H P K E L I Y A S L T G F G A Q G P Y A N Y K G
UniRef90_W5TQF3 P G V L D R L G V G Y D R V R H P G F V Y C S I T S G Y G L T G P F V D H G A
UniRef90_M2Y6Q9 P G T L A S M R L S Y D E L A K E R Y P R L I V S E S N A F G S V G P W N K R L G
UniRef90_F7UZL5 P Q A L A R Q N L T Y E D I A K E R Y P R L V Y A S L T G Y G S V G P D K D L P G
UniRef90_E8LD47 P G Y L A R Y G L D Y T S V H K I N P R L V Y C S I T G F G Q E S H K P A H D L
UniRef90_H1S613 P G V M E R L G L G P D V C L A R N P K L V Y G R M T G W G Q D G P M A Q A A G
UniRef90_X0PZ01 P R S R Q K L G I T Y E R L S E N N P G L I L C T A Q A Y G S E T A F R D Y P A
UniRef90_UPI0003A7E98D T G T M S R W G L D L A T L H A A N P Q L T V L R V T G F G Q T G P Y A E R P G
UniRef90_Q1N311 P G V M A R L G L D Y D S L K V I N P N I T Y C S I T S G Y G Q T G D L K D R A G
UniRef90_U5WTG9 P G V M E R M G L G P E D L R A R N P K L I Y A R L S A F G G N G P H G N R P G
UniRef90_G5GF63 V Q A L E R A G L D Y E T L K K K Y P K L V Y A I C T G Y G Q Y G P D K D L P G
UniRef90_UPI0002D680F8 P G A M D K L G L G H A D L S A R L N P R L I Y C S C K G Y L P G P Y E H R A A
UniRef90_L8FJH4 P G V A D R L G L G Y D A V S A R E R N P R I V Y C S I S G F G P T G P Y A S R A G
UniRef90_X5LJ00 P S A R A K L N I D V D D V R R V N P D I I Y V A G S G F G M H G P D S D S G A
UniRef90_L9WLX9 P G R A A F N L D Y E T V S E L N P E L I Y C S L V G F G R D S P Y E E L P A
UniRef90_B0Y2Y0 P G V L E R G L S P S D V L K H N P R L I V A R M T G F R R D G K Y E K D M A G
UniRef90_UPI000464990D P G V M K K I G L D Y D A V T K I N P R I V Y G T V T G Y G T V G P W T K K P G
UniRef90_E8TW91 V G T L A K Y G L D Y A S L A A I N P G L I Y L S V T G F G Q S G P F A H K P T A
UniRef90_V7D574 P G A M E K L G L G Y E Q V K A I L K S D I I Y S S M K G F L P G P Y E K T A
UniRef90_I4BM99 S D I T Q H R D F G P A G I H R A N P H L T V T A I T P F G L E G P W C D R P A

UniRef90_X0Q392 Y D L L T I Q C E A G L L S V T G T P 140 E F P A K V G I S I A D I A G M Y A Y
UniRef90_G8RW36 Y D S S A F W A R G G V I G H I L T P P E R D Y P I S Q R G A M G D R N G A M A L
UniRef90_A0A011P2G9 H D L N Y L A J A S G L L D Q I G V A G S D A P A I P N F Q I G D L L G G S L S A L
UniRef90_D5P7W4 F A Q T M E Q M T G M A W V T G H E Y D Q P R I P R G P C D P L J A G M S A
UniRef90_E2CD52 Y D Q I T I Q G A S G V M S I T G N K E S A P L R V G Y P I A D T V G G M T A A F
UniRef90_W4L9G9 T D L I T H A T S G L S A V N R R N D G G S P L L Q Q P G Y Q T D Y Q G G A F A F
UniRef90_A9HXV0 F A R V F E A M S G F T N L T G E A G G S P L H S N F P L G D S I A G O J F C A F
UniRef90_I0WKV8 Y D A L V Q A E S G A V A V T G N K E V M V K P G F S A A D V A S G M Y M T
UniRef90_Q122Z2 L D E V V Q M M G G L A Y M T G R S G D P L R A G T S V N D I M G S M F G A L
UniRef90_UPI00021928EC Y D E V I Q A E T G D V D L Q R R S V G S L T Y M P T F I A D K T S S L W L A
UniRef90_B3Q6K6 F D P L L Q A Y G G V M S L T G G P E H P P T F C A P P I A N D R A T A Q W C V
UniRef90_D4XIS4 H D L N Y L A J A S G Y W A V T P S Q V R D V M G R P R L R L S D Y C A A M H A A
UniRef90_E3J2Q5 Y G P T I E A A S S V E G E R T G Y P G G E P L R L G H T L P D A T G G L A G A L
UniRef90_K0CBW2 Y D D V I Q A A S G M T D L V G R Y D G D G R P R Y V P V I A D K V I G A L Y A S
UniRef90_UPI000415BB62 F A A V A E A Y G G F R N L V T G D P D R P P V R V G V S I G D S I A G L Y A G F
UniRef90_M6D8F6 H D L N Y L A J A S G L V L D Q T G K N P Q A P G F Q L A D I G G G T L T A L
UniRef90_UPI0001FFF23A Y D E I V Q A S S G M V D L M R R A T G T P S Y A P T I L A D K V C A L T I A
UniRef90_K2KNV5 Y D Q I V Q G L S G L I M T I T G E Q D K G T Y R V G Y P M A D T I M T A A F A I
UniRef90_UPI00036B1661 F G N I G A A L S G F Q A I A G W P D R P M F G P F G P Y T D Y I A P F S L
UniRef90_UPI00046F89A4 H D I N Y I A J A S G A L H A I G P R D G P P T I P L N L V G D Y G G G T F M V
UniRef90_F4CVM1 Y D A L M Q S E A G L L E L T G D G P P V I A R A G L S V A D I A A G V Q V H
UniRef90_UPI00037DAD0A M D L T I Q A M S G V M H T T G F P D R P P V K A G P A L C D F F A G V H L Y
UniRef90_UPI0003B7025A Y D Y I V Q G M S G F M S I T G E P D R Q P M K A G V A I A D I F T G I Y A V
UniRef90_J4J8J7 L D E V V Q M M G G L A Y M T G R A G P D R P L R A G A S V N D I M G M F G A M G
UniRef90_UPI00034WBJ3 H D I N Y L A J A S G L V L M L R S H N N R P T P P L N I L A D F A G G G L C A
UniRef90_A4SYN9 Y D L L I Q S E A G F L S V T G T P E T P S K A G N S I A D I A A G M Y A Y
UniRef90_N6WP76 Y D P L I Q G L S G L A S V Q A G S D E R R P Q L V R T I L P D K L T G V T A A
UniRef90_F0SU70 F D Q T S F W S A S G F L N S W R I D V P P I Y P P G A V G D T I T G T A L F G
UniRef90_N1ZX31 Y E P V A Q S A G G S A S A T G W N K G A A N V I P T Q S A A G D S N S G M H L T
UniRef90_UPI0003627AF2 Y A P V A E G M A G L Y D F K R A P D T A P V V S P L G A L G D S G S A L F A V
UniRef90_UPI0002DAB6C5 Y G P V V Q A V S G M S F I S G L P E R E P S G W G L S Y M D N Q A A Y N S A
UniRef90_UPI00035CFEE6 Y D A L I Q A E T G L V S V T G T E E Y P A K A G I P A A D I G A G M Y A F
UniRef90_X5LMJ9 Y D L V I Q A E A G L S V T G S P T E V A R T G V S I A D I A A G M F T F
UniRef90_G41T2 F A Y V I E A A A G I S W L T G Y P D R N P Y E P Y S L G D P N A G L H A L
UniRef90_G1PYV6 H D I N Y L A J A S G V L S R L G S S G E N P S A P L N L L P D F G G G L M Y A
UniRef90_UPI000375EE80 H D I N Y L A R C G L A S Y S G R S K S G P S L S G M Q I A D I A G G S H A V I
UniRef90_K6W1G4 F G S V A E A M G G L R A L M G F P D L P P V R A G I S L G D A L A M F A V I
UniRef90_A0A024JSR6 Y D V A A F W S R A G V A H L L T R P G Q T P P F Q R G G M G D H S A G M T L A
UniRef90_F1YP93 Y D L L V Q A V G G L M S I T G P S P D E P T K V G V A V V D V V T G L H A A
UniRef90_UPI00035F1292 Y D F A I Q A Q G G L M S L T G E P G A E P Q K V G V A V V D L M T G V Y A V T
UniRef90_B2UAX6 H D I N Y V I G Y A G M L D Q L A S A D G T P I V P N V Q I G D L L G G A L T A V
UniRef90_UPI0003B50715 W D A L V Q A R S G M Q Y E Q Q A W R P G P A F L A N S T P S I A A L Y M V P I
UniRef90_V7L751 Y G P L V R A S C W R D P S S D P A D A A A F C D G S T V Y P D H V A H A A
UniRef90_UPI00035C6657 H E Q N Y Q A M S G L T A S S G G G R A P D I T P L P I S D T V A S L Y S V
UniRef90_I0RP08 Y D L L V Q A V I G G L M S V T G P E P G V P T K A G V A L V D V L A G M H A L
UniRef90_A0A031JRD4 Y D P L M Q A F T G V M S T T G N E G E D P V R V G V S L I D M G T G M W A
UniRef90_UPI0003B3AF53 Y D Q I V Q G L S G L I M T I T G E E D K E T Y R V G Y P V A D T I G G L T A A C
UniRef90_D5VHX1 Y A P T V Q A E T G F T H N T L R H F D G R K W T D P L S H A D V I A G L Q A T
UniRef90_F7UHB4 H D L N F Q A E A G L L G M S A E R D G A P V L P S F L A G D I A G G A P A V
UniRef90_V1CHY5 F D F T A F F A R G G Y L E T L R Q K G T V P M N V C P G L I G D H N V G M N L A
UniRef90_F1ZAW9 Y D F I V Q G M S G L M D L T G E P D G A P Q K I G V A F A D I M T G L Y A V
UniRef90_A1SP28 Y D Y V L Q G L A G W M D L T G E P D G P P T K S G L S L V D F S G G F V A A
UniRef90_E8TX75 Y D H V V Q A L T G M M M A D D E H A P P V K V G F P V I D V A V G M L G A L
UniRef90_B0T762 M D V A A F W S R A G V A I T A P K G A S P F P L R T G M G D H V T S L A T V
UniRef90_E0E2R7 F D Y T A F F A R G G V S I L M E K G G S P C N P V A G L G D H Y A G I S L A
UniRef90_Q0K2Y5 L D I A A Q A E S G M M S V T G E A G G Q P L K A G F A L I D A T A L A T G
UniRef90_K9CL65 G E G L A A A L G T M I T D K S S P F R E G P V Y L G H P A L H Y G Q A F L G V
UniRef90_V4K2W7 Y D L I V Q A M S G L M L T T G I E S D P P L K V P F P V F D I T G L F A A L
UniRef90_C9M2D2 Y D T L V Q A V S G L M D A T G I P D G K P T R V G T S V S D V V A S I M G Y
UniRef90_Q46UD4 Y G G T L E Q A S G L P L A H T G D P D G P P A M T S Y A Y G D P V I G G F N A G
UniRef90_D5ZRR2 Y E P L L Q A F S G L I A I N G D P S G P P S R V G P S V V D L G T G M W T V
UniRef90_UPI000369FC4B S D S V M Q A D S G L M F A N R N A D G S A R R I G M L L A D A
UniRef90_UPI00046F1551 Y D L L V Q A L S G F M S V T G S P D G S P Y R A G V A V F D V M T G L H T T
UniRef90_W9BZJ5 Y D Y L M Q A E A G F L S L T G E P D G P P V R F G L S I V D F M T G L Q M A
UniRef90_UPI00035E6E0B Y D L L I Q A A S G M M A M T G E A D G P P L R T G I S A I D V M T G L H A A V
UniRef90_A0QDZ7 W E A L I M A K T G V M H E K R G L A P Q P R P A Y I T F S Y A A W G A H A A
UniRef90_D8I6H0 Y D S T A F W A R G G S A A T L P E V E R M P R A M P A G A Y G D S M G M T L A
UniRef90_B6QKQ3 F D V M V E A E F G L M H L T G S R D G P V K V G V A V T D I L T G L Y A C
UniRef90_UPI000364AD5C Y G N S A A A H S G H A V M S G W P G T D P H M P P F A Y G D V A P M F L T
UniRef90_A0A022FP37 H D L N Y L A J A G A Y W S V P V Q V A D K V S R P R A R V S D V A A S G Y A A
UniRef90_M0EA00 L D P V A E A L S G V M S V T G H P D Q P P V R S G T S L A D M A A S L Y G A
UniRef90_H8IN05 F D A A T A R G G V A Y T L T P F G T E T P A V Q G P G F G D L Q G G A T L A
UniRef90_UPI0003765655 Y D A V V A A K T G R M M F A G Q N T R E G P N Y V V V G V C H S A T A L I
UniRef90_W5TQF3 Y D V V I Q G M S G L M S V T G E A D G G P V K A G V P V G D F T A G L Y A A Y
UniRef90_M2Y6Q9 Y G P V R A A C G V S A L W R Y S D T A D G L C D G S T V Y P D H I A G Q V T A
UniRef90_F7UZL5 F D Y T A F F A R S G W A G S L Y Q K G T V P S N L I P A L I G D H Q A A L A L T
UniRef90_E8LD47 N V V G L A G L N N L D D V I G R A C V S E V Q V S A V G S G
UniRef90_H1S613 H D N N Y I S L S G A L Y N G T P K E P S S A I T V I G D V G G G A L Y L A
UniRef90_X0PZ01 Y D D I V Q A A S G A K L A E L I D G E P R Y A P Y V I A D K V V G L Y L V
UniRef90_UPI0003A7E98D F A R I F E A M S G F A H L T G E R D G S P Q H M N F P L G D A V A G L F G A F
UniRef90_Q1N311 H D I N Y L A J A S G L A D Y S R R K K G C P V P Q G V Q I A D I A G G S H H A V
UniRef90_U5WTG9 V D L M V A A E A G M T T G M P T P D G K P Q I I P F Q L V D N A S G H V L A Q
UniRef90_G5GF63 F D F T A F F A R G G Y L D S L R Q R G S V P M N V V P G I G D H N V G M N L A
UniRef90_UPI0002D680F8 L D E V V Q M M G G L A Y M T G L P G K P M R A G S S V N D I M G G L F G V
UniRef90_L8FJH4 H D L N Y L A E S G L I G V V T D T N G S P N L P V S V L A D I A A G T Y P A V
UniRef90_X5LJ00 Y D A T A F W A R G G S A D N P P D A D Q S A F M P A G A Y D N I G G M T I A
UniRef90_L9WLX9 W D M L I Q G M S G I M S I T G E E G G E P L W S G L P S G D L I A G S Y A S Q
UniRef90_B0Y2Y0 H D I N Y I A J A S G V L S M L G R K G E P P Y A P G N I L G D F A G G A M C F
UniRef90_UPI000464990D Q D L L L Q S L S G I A W L N G N D G E P P A P F A L S I A D S Y T G V H L I A E
UniRef90_E8TW91 Y D Y I F Q G M G G L M S Y T G I A D G E P P A G P G V A V V D L M G M Y A T
UniRef90_V7D574 L D E V V Q M M T G L A Y M T G P V G R P L R A G A S V N D I M G M F S T
UniRef90_I4BM99 T E F T L Q A W S G G I V G L G R G A P D R A P V C V G G Q V G E Y V A G A Y A

UniRef90_X0Q392 S G L L S A L L K R S R T G T G Q H I E V S M L E A L G E W M G H P Y F Y A E Y
UniRef90_G8RW36 A F G I S A A L L K R T S R T G T G Q G S V V D V S L L A T A M W M L S S D L L A A L
UniRef90_A0A011P2G9 I G L L A G V V D R D R T G R G E G S Y F I V D V S M T D A V F A H T L F P L L A V L D
UniRef90_D5P7W4 F A M L A G L R R D E T E T G R G E G S F Y I V D V S M V E S A L N A A E Q V V E F T A
UniRef90_E2CD52 A I A A Q L N A S P R G A F L D V S M P E S V L A T M G W V V S N H L I
UniRef90_W4L9G9 L S T M S A V C Y R D N E L P V L G H V D I A I Q E A A A T M I A P E I T R V E Y A
UniRef90_A9HXV0 I A A E V A R L D R G N J E L G P G A E V D L A T E A A L F R M L D P L P V E H E
UniRef90_I0WKV8 S A A M M A L F Q R R E R T G R G T E I D V A M I D A M T D F I A N H L I Y Y A Q H
UniRef90_Q122Z2 G A M A A L R Q R R E T G L G L G T E V Q S A L F E N N V F L V G Q H M M Q F A
UniRef90_UPI00021928EC L G V V S A L Y E R R A T G L G Q H V E L P M A D V M I H M N S V E H L S G Q V
UniRef90_B3Q6K6 I G A L A A L Q Q R H V T G K G G V I D T S L F D T A V G W V D M S L S G Y L L
UniRef90_D4XIS4 L A I L A A V H D A R E T G V G G H L D V S I H D T L T A W M A P G L D A
UniRef90_E3J2Q5 A A L R G L R D R D A S G R G G G W F D V S Q L E V Y A A L C G E I L L A A S L
UniRef90_K0CBW2 Q A V L A A V V H R L R S G E G Q Q V E I P M F E T F T Q F L F Q E H L L F G Q T
UniRef90_UPI000415BB62 S A V M S L Y R R E V K R T G R E E R Q I D V A L N E A M L S M M E S L V P D Y E A
UniRef90_M6D8F6 S S I L L A A L Y R E K T R G R G Q K I A I S M M E A S L Q F V S L Y G G I Y S A
UniRef90_UPI0001FFF23A Y S T L A A V I H Q R A T G E G S Q L V E V P M T D T L L A F N L V E H L S G H
UniRef90_K2KNV5 S S A L A G R A M G N K T D A K G S F I D I S M L E S V I A T M G W V V S N Y L
UniRef90_UPI00036B1661 C A L L A A V E Y R R T R T G G A G C Y L D V A Q V E A G V W F Q A P E I A D N A D
UniRef90_UPI00046F89A4 I G L L A A L L R A R S S G Q G G C Y V D A A M L D G A V R Q S G V V Y E R L A Q
UniRef90_F4CVM1 A A V L A A L L H R R E R T G E G A T L R I S L L E A L T E W M H Q P M L Y A L G
UniRef90_UPI00037DAD0A G A I V T A L F Q R E R T G I A R V R E V A M Q D A V Y P S L A S S L G L Y Q F P
UniRef90_UPI0003B7025A A A L E A A L I H A L K T G E G Q L V D M A L L D V Q S A V L A N Q N M N Y L I
UniRef90_J4J8J7 A M A A L A Q R E H T G V G M E V Q A S L F E N N V F L V G Q H M M Q H A
UniRef90_A0A034WBJ3 M G I C L A L L E R H R S G C G Q I I D A S M C E G V A Y L S S W L F L S R S L
UniRef90_A4SYN9 T N I L A A L L Q R G K T G K G S V I D I S M L E S L G E W M S F P M Y Y A Y E
UniRef90_N6WP76 Q A I T A A L F A R E R T G V A Q H V R L S M L D A V I A F L W G S D M G S V
UniRef90_F0SU70 G I C A A L I N K L R T R T G K G D R V M N S L Y S T A C W V Q G Q A I V A T Q Y G
UniRef90_N1ZX31 I G I L A A L L Q R E K T G E G T F V Y Q S M Q D A V M N L C R I K L R D Q I M
UniRef90_UPI0003627AF2 I G V L A A L R H R D N A T G V G Q Q E I D I S M F D A M V A L N D A G I S Y W S M
UniRef90_UPI0002DAB6C5 I A L L M A V L H R N A T G R G Q Q E I D V S A V E A G I N L L G P D L N A S V
UniRef90_UPI00035CFEE6 S G I L T A L Y D R E R T G E G T T F E V S L F D A L S E W M G F P L H Y A S G
UniRef90_X5LMJ9 S G I L L A L Y T R A T T G V A R P V S L F D A L V E W M S Q P L I Y G R Y A
UniRef90_G41T2 N A V L T A L E H R R R T G E G V L I E A A M V D A A L N I A A E Q I L Y E S Y
UniRef90_G1PYV6 L G I V M A L F E H T R S G R G Q V I D T S M V E G T A Y L S S F L W K T K N L
UniRef90_UPI000375EE80 M A I L A A V Y K R Q R T N S G T Y I D I S M T D C A F A L N A I S G A N A L T
UniRef90_K6W1G4 G T L A A Q E R A R T G R G Q E V D V A L Y E S V F A L T E S L M S D F E I
UniRef90_A0A024JSR6 A A I C A A L L A R E R T G A G Q L V T T S L Y R Q G A Y T V S F D L N T Y L L
UniRef90_F1YP93 V G I L S A L H E R D R T G E G G R V E V N L L S S L L S A L A N Q S G F V G
UniRef90_UPI00035F1292 A I L A A L H E R Q H T G E G Q R H I D A A L D V Q V A M L A N Q A T N Y L V
UniRef90_B2UAX6 V G I L A A L V D A R A T G R G R Y V D V S M T D S V F A H N L M A F F A V G T
UniRef90_UPI0003B50715 A I L A A L H A R N E T A T G R G R V E T S L Y Q G V L S F T T M L W A D V E H D
UniRef90_V7L751 V A V L A A V I G R A A G K P G R A I E V P Q A D V A L Y A L G P I L A A S S C
UniRef90_UPI00035C6657 I A V L S A L R R R Q T T G Q G A Y L D I S V Q D A V L S L F G Y N A N Y L W R
UniRef90_I0RP08 S G I L L A L H R D R T G E G G R V E T N L L S V L L S W S M V N Q A S G Y L G
UniRef90_UPI00031JRD4 I G I L S L L A R V G T G E G A N V E A S L L D T G V G W M S V F V S S F G A
UniRef90_UPI0003B3AF53 A I S S A L A G R A L G N N E G K G S F I D I S M L E S V V A T M G W V V S N F
UniRef90_D5VHX1 I A V L L A V R K R E V T G R G Q Y I D V A M A A V M L S L N E R A H L D L A G
UniRef90_F7UHB4 I N L L L A V R Q R D V S G H G S H I D V A M T D N L F G Y L S W G L S A G F S
UniRef90_V1CHY5 A G V L A A L Y H A E K T G E G E K V A T S L F E T A V H N M G M M V Q A A Q Y
UniRef90_F1ZAW9 I A I Q A A L A A R E R T G Q G D H L D M A L F D T M V G V L G N Q A L N Y L V
UniRef90_A1SP28 I S M L A G I H A A R R D G V G M D C D V S L Y D T A M T M L T Y P A T W H L N
UniRef90_E8TX75 S I T A A L H K R N A G T P G G Q H I D A S M L Q A S M M L M Y P H A C T Y L T
UniRef90_B0T762 S A I L A A V H E R H T G V G R L V E T S L L R T G V Y A I G S D M A Q L
UniRef90_E0E2R7 A G V L A A L R K K E T G K G E R V T V S L F H T A V F G M G L M V S A A H Y
UniRef90_Q0K2Y5 N A L L A A L F R R E R T G A G E T I E T S L L S V G V Q M Q A Q L W A E Y Q C
UniRef90_K9CL65 I G A L T A L R A R R S S G K G Q K V E S S M L A Q S P M N N W W Q E E G S Y
UniRef90_V4K2W7 Y A V S G L Y S N R R P F Y T E V Y L V D S S A L F S M L H L M Y L I A K E K
UniRef90_C9M2D2 S A I M T A L V A S E R T G K G T T V D V S M L D S T F S L M V Q D L M L A L G
UniRef90_Q46UD4 A A M L L A L F A Q Q A T G K G R H L N L S Q V E A M L P M A A P F I I E Q S V
UniRef90_D5ZRR2 I G V L A A V L E R Q R T G V G G E V R T S L E T A V S W A G R H I A D Y G A
UniRef90_UPI000369FC4B T G L Y A A Q A C A A A L C R R Y R S G R G G H V E L N L F E A C C A L I Q A N N
UniRef90_UPI00046F1551 I G V L A A I Q H A R T L T G E G Q L V E T N L M S S A M S G L A N Q T G A Y A A
UniRef90_W9BZJ5 V G L L A A M L D Q R S T G G C D V D V D L L S V A A H Q M S Y P A V W Y L N
UniRef90_UPI00035E6E0B A V L A A L N H R T A T G H G Q L E I D L L S S A L S S M I N Q S S A W V A
UniRef90_A0QDZ7 V Q G V L A A L L E R E T S G L G Q V M D P Y N W F Y E L V L E R Y P G A Y E P
UniRef90_D8I6H0 G G I A A A L Y S R Q V T G E P S V V D V S L L G V G A W A T Q Y S V N Q A L M
UniRef90_B6QKQ3 N S I M A A L L A R A N T G E G Q H L D V C L S D V Q T A T L A N M A E S V L I
UniRef90_UPI000364AD5C V G I L A A L E R R E R T G Q G G H V D V S Q I E P M V H V L A D L F A E T
UniRef90_A0A022FP37 L S L A V A I M S A R Q N G H G H L D V S I H D A L L S W T A H G A W A R G
UniRef90_M0EA00 I S I L G V V R Q R D A S G D G Q H L T V P L Y E S T V S L M G Y W L A Y T Q A
UniRef90_H8IN05 R G V C A A L F H R E R T G E P T L V D S S L L A Q A M S I A P S I S A A D F
UniRef90_UPI0003765655 G G I T T A L Y L R E K T G R G Q M V E T S M T Y D H I S W I H G Q M I A K D P
UniRef90_W5TQF3 S I A A V L P Q A R A E G R S V R L D C P M L D C L L G I S A L Q T S E F W G
UniRef90_M2Y6Q9 T T I L A A L T D R L R T G R G A A I E V A Q A D A A I V Q L G N Q L V A E H L
UniRef90_F7UZL5 V G V L S A L F R A A K T G Q G E K V S T N L H T A V W V Q S F Q I Q Q Y G T
UniRef90_E8LD47 S A I S M A L L A R E R T G K G Q W L D V N L Y A T A L S M Q V T G I S A L W G
UniRef90_H1S613 V G L L S G I L K A R E T G K G S V V D A A I V D G S A H M L Q L L A L T R T K
UniRef90_X0PZ01 I A V L A A A M E K N R T G L G Q E V D V P M V D A M I G F N L V E H F G G H
UniRef90_UPI0003A7E98D I A A A M A E K R G N P G L P G R E I D L S A T E A M I R L L E T L P V E F E Q
UniRef90_Q1N311 M G I L A A V Y E R T Q T G A G R H L D I S M T D C A F S M N A M F A S G Y L G
UniRef90_U5WTG9 A V L A A L V N R R E T G V G A D T V R V A M Y D V A V G L Q A N Q L T M H L N K
UniRef90_G5GF63 A G I L A A L Y Q A K T K G V G E K V E T S L F E S A I Y N F G M M I Q A A N Y
UniRef90_UPI0002D680F8 I G I L G A L R E A E T G R G A H V Q S G L F E T N M V L M A Q H M N A I T G
UniRef90_L8FJH4 M N V L L A L R T A E R T G E G V H L Q I S M T H N L Q V L A Y G Y I A T H Q A
UniRef90_X5LJ00 G G V A A A L Y G R H V T G E P S V L D V S L L A V G A W T T Q F S V N M A M L
UniRef90_L9WLX9 S V L A A A L Y A R E R G R D G E W I E V P M L D A A I S W L T A R A R G H T F G
UniRef90_B0Y2Y0 L G I L L A L L A R A H T G R G Q V V E A N M V D G S A Y L A T M P R L N R Q T
UniRef90_UPI000464990D G I M A C L F R R F R T D K G G L V E V S L L E S I L D M Q F E V L I T Y L N D
UniRef90_E8TW91 S A V L A A L V Q R A R T G R G Q H L D I A L L D V A V A M N A N Q A S N Y L V
UniRef90_V7D574 V S I L L A A L L Q R K E T G R G Q F V Q T G L F E N S A F L V A Q H M M Q V V
UniRef90_I4BM99 S A F T L A S R M R G G A E L I D L S M L E T S V L G L T Y Y P V I T Y F E

UniRef90_X0Q392
UniRef90_G8RW36
UniRef90_A0A011P2G9
UniRef90_D5P7W4
UniRef90_E2CD52
UniRef90_W4L9G9
UniRef90_A9HXV0
UniRef90_I0WKV8
UniRef90_Q122Z2
UniRef90_UPI00021928EC
UniRef90_B3Q6K6
UniRef90_D4XIS4
UniRef90_E3J2Q5
UniRef90_K0CBW2
UniRef90_UPI000415BB62
UniRef90_M6D8F6
UniRef90_UPI0001FFF23A
UniRef90_K2KNV5
UniRef90_UPI00036B1661
UniRef90_UPI00046F89A4
UniRef90_F4CVM1
UniRef90_UPI00037DAD0A
UniRef90_UPI0003B7025A
UniRef90_J4J8J7
UniRef90_A0A034WBJ3
UniRef90_A4SYN9
UniRef90_N6WPT6
UniRef90_F0SU70
UniRef90_N1ZX31
UniRef90_UPI0003627AF2
UniRef90_UPI0002DAB6C5
UniRef90_UPI00035CFEE6
UniRef90_X5LMJ9
UniRef90_G41T2
UniRef90_G1PYV6
UniRef90_UPI000375EE80
UniRef90_K6W1G4
UniRef90_A0A024JSR6
UniRef90_F1YP93
UniRef90_UPI00035F1292
UniRef90_B2UAX6
UniRef90_UPI0003B50715
UniRef90_V7L751
UniRef90_UPI00035C6657
UniRef90_I0RP08
UniRef90_A0A031JRD4
UniRef90_UPI0003B3AF53
UniRef90_D5VHX1
UniRef90_F7UHB4
UniRef90_V1CHY5
UniRef90_F1ZAW9
UniRef90_A1SP28
UniRef90_E8TX75
UniRef90_B0T762
UniRef90_E0E2R7
UniRef90_Q0K2Y5
UniRef90_K9CL65
UniRef90_V4KZL5
UniRef90_C9M2D2
UniRef90_Q46UD4
UniRef90_D5ZRR2
UniRef90_UPI000369FC4B
UniRef90_UPI00046F1551
UniRef90_W9BZJ5
UniRef90_UPI00035E6E0B
UniRef90_A0QDZ7
UniRef90_D8I6H0
UniRef90_B6QKQ3
UniRef90_UPI000364AD5C
UniRef90_A0A022FP37
UniRef90_M0EA00
UniRef90_H8IN05
UniRef90_UPI0003765655
UniRef90_W5TQF3
UniRef90_M2Y6Q9
UniRef90_F7UZL5
UniRef90_E8LD47
UniRef90_H1S613
UniRef90_X0PZ01
UniRef90_UPI0003A7E98D
UniRef90_Q1N311
UniRef90_U5WTG9
UniRef90_G5GF63
UniRef90_UPI0002D680F8
UniRef90_L8FJH4
UniRef90_X5LJ00
UniRef90_L9WLX9
UniRef90_B0Y2Y0
UniRef90_UPI000464990D
UniRef90_E8TW91
UniRef90_V7D574
UniRef90_I4BM99

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

UniRef90_X0Q392 F C A E V V E R P D L T E D V R Y A D N A R R V Q N R S E L E A T I R S L L R R
UniRef90_G8RW36 W A E F C R T A D D P R F V D L V A T R A N A G E A C V A E L D A V F A R T R T L S
UniRef90_A0A011P2G9 Q T L C K D T L D R N P D D L R P C A F A T G A E A H Q Q R I R G K H L E A I F A R T L S
UniRef90_D5P7W4 R Q L C K R A L G N P D W A D D H Q G R A E H D V I D K H L E Q W A C R H E S S
UniRef90_E2CD52 H L G L A T L R D R P E Y K T R E D R K A N R L Q L K A D L E T Q A L K S R S A R
UniRef90_W4L9G9 F F G H L E G A E D E R F L T V K R R Q N Q M A E M A Y I M P Q L J A K S F T M A
UniRef90_A9HXV0 V R L C N A V G K P E R F W D T L P K R V Q M A E D G A L A Q W F A S H F A F A
UniRef90_I0WKV8 R L A E K V I A R P E R Y A T N V A R A R R R D E V D T L V A T A C R E F T A A
UniRef90_Q122Z2 A I E C K A F G D E R L K T N N D R V R A R E W M M P L L R S H L A E R S A A
UniRef90_UPI00021928EC K L L L T A T G D E L A D D P C Y W D D S A A F T R G M D R I L A T S T R L T L D
UniRef90_B3Q6K6 A R C A D V L G H P E W S T D H R F A R A H R P V L I P L M Q E V L R T R G A T
UniRef90_D4XIS4 R N L C C P E L A Q Q R Y Q T R A G R L Q D K R A L N D R L R A L F A S R S L A
UniRef90_E3J2Q5 E R L A E V T G L D G L J A R A R T G P R D D A A A E A L J A G Y T A T R S D K H
UniRef90_K0CBW2 L L G C P E L T E R P E F S G Q P E R R A N I S L L Y K E M A Q R T P Q K T T A
UniRef90_UPI000415BB62 Q R Y M E L I G R P D D L Q S N A G R W E R R E E L D G A I T G N W T M Q R T A A
UniRef90_M6D8F6 K T F L R Q S G L D T H L E K T P I A E T H F A E W K K I L T E Y F A S K T L A
UniRef90_UPI0001FFF23A A A G R E D L A T D E R F A G S E A L S R H Q P E L Y A L I L G E L A P S R T T A
UniRef90_K2KNV5 A L L C G V L G L E A L T K D P R F V S R E N R S A L D D L E A D V L V T Q Q T D
UniRef90_UPI00036B1661 R S L A R A M G R H D L F D T A S G D R A C A R E L D G A V A E W T L R R T A E
UniRef90_UPI00046F89A4 R V F V I Q A L G L D E A A L P S R D D P A N W D A L R Q R F T Q C F L A R T R A
UniRef90_F4CVM1 A R L C A V V L G D P R F V T V R D R V A H R D A L H F E T D R R L A T I T A E
UniRef90_UPI00037DAD0A R N I A R A M G R P E R F A T L K S R V A A V D E V D A I V S E W T A S R S K E
UniRef90_UPI0003B7025A R L C T I L R L D D E R F S T N K A R V V A N R D E V R R L I S T E T L K W Q K A
UniRef90_J4J8J7 D I F C R A F G L G E W L A D N N D R V Q A R D W L M P Q L R S H L A G Y R A S
UniRef90_A0A034WBJ3 E F F K S N L E L P E L C G F P E N Q Y E K D I T I D L V K Q A F L K T Q A
UniRef90_A4SYN9 T Q F C E V V L Q D E R F D K N F K R N E K R V E L L A I I D Q Q C F K T L S T E
UniRef90_N6WP76 A L J E K E W A E D P R F L D A E L R Q Q N I C E T I I R A F E E K R I T N T S G A
UniRef90_F0SU70 V L G L E E F T G D E R F G S D V L V M R N C E T I I R A F E E K R I T N T S G A
UniRef90_N1ZX31 T M G H P E W I T D E R F V D W Q H R Q L H K E E L Y P L L E A Y T K Q Y D K Y
UniRef90_UPI0003627AF2 A L A D L V G R P E W K S D P R L A G P Q E W F D H I E D I E G W A A D K T S R L
UniRef90_UPI0002DAB6C5 A R L V A V L G E P E W T R D P K F R V A H Q Q D E L D E H I R W T A Q R S H
UniRef90_UPI00035CFEE6 K R F C E V I A E D P R F V T N S D R I E N R P A L H E T I D G V L R D L T G D
UniRef90_X5LMJ9 R L C E I V L N R P D R F A T N P D R V A H R D E L E A I D G G A A G R L S T E
UniRef90_G41T2 R S L R Q A L G D P D W A D P D G R R A R E D F I D D F L G A W C R E R S G D
UniRef90_G1PYV6 Q L L V K G L G L K S D E L P N Q R S M A D W P E M K K K F A A V F A K K T K A
UniRef90_UPI000375EE80 E A F F V G I G H P E W E D R I Q F D E T Q Q N Q L K Q D I A N I I I Q R E L
UniRef90_K6W1G4 R R L C Q A M G R D D R F A T H Q A R G V N A E E L D A L I S A W A T Q L D G E
UniRef90_A0A024JSR6 P L C C R V V G H P E W L D D P R A R F V N G P E L I A E L D E I F A T R T S L D
UniRef90_F1YP93 A F A R P A M A D D A R F A T N S A R V E N R D V L I D E V T R L L S T D T A D
UniRef90_UPI00035F1292 R A C E A M G C Q D E R Y T T N A G R V K H R A E L V P Q L R A L L A R P T Q
UniRef90_B2UAX6 Q A M C D V I E K P E W K E R H W A L G Q R V G G D D A R A A A R F L T A T Q A
UniRef90_UPI0003B50715 T T I H D V F D L P A G L P P Q Q V V Y P E L A R A Y R D R K R E S
UniRef90_V7L751 R R L V R V T D V F D H L Q T C A G R A V R R A E Q I R G R L A T I F A K R T R D
UniRef90_UPI00035C6657 S T F C T A V G A E D V A A D Y T I N E A R A E Q I R G R L A T I F A K R T R D
UniRef90_I0RP08 V A A M H A I G D D D E R F A T N S A R V A H R D E L C A R I E V A L K A R G A D
UniRef90_A0A031JRD4 K V C G G L G A E D P R F K T N P E R V H H R H E L H A E L S R L V R T R P V A
UniRef90_UPI0003B3AF53 A V C D V L E L D A L K A D P R F L T R S D R L S N R K L F E R V L Q T G R T D
UniRef90_D5VHX1 Y L K A M R R M D L A H D P R F C T A E R L Q Q N Y K A L H A V I Q T W M R S F
UniRef90_F7UHB4 L E F V E I L G L P A S L R E A S A P A T E T I A A I A E R I G R K T A K
UniRef90_V1CHY5 F K K F I T A V G H P E L A E D E R Y Y P V S N L H Y D L L M A S F R T K T A K
UniRef90_F1ZAW9 K F C C P Q L L G D P R F Y V G N A A R L A H R D V L E D A V R A A T S Q W A R D
UniRef90_A1SP28 R L A V V V G R P E W P A T F S G R R E H S G E L L A E L E R I F R G R T V D
UniRef90_E8TX75 L L A G V L G L E A L C D D A G F V V A R D L P A L Q E R L R A A F A G R S A A
UniRef90_B0T762 W R R I A Q A A D D P R F T S A R L R R E N T A A L V D I L D D A A F A G M D Y A
UniRef90_E0E2R7 N F C N T V I A D P R D K Y S T M K S A V N Y V E E F V E I L E K E F I K R P I A
UniRef90_Q0K2Y5 R L C E A I G Q P A L A H D P R F A C N A N R P A L L A I L H D A M R H L S G D
UniRef90_K9CL65 K A A M D Q L G F G D R V S A V K G A A E M Y H I A R V E I F D A F K A R P R A
UniRef90_V4K2W7 E T L C K V T G N D P R F S K S N E N R V K N R D Q L I S L L Q E V F S R N T R E
UniRef90_C9M2D2 S L L T N A L G H P E W F N T N D L R E K N W Q D V K N A M Q S V L J E T K D A A
UniRef90_Q46UD4 A L C R A I G R E D L A A D V Q L A H R T Q Q D R I D A A I T A W S A G R D P E
UniRef90_D5ZRR2 K L E R P E W A S D P R F A T N A A R N E H R A T L L P L I S E L V G R T V S
UniRef90_UPI000369FC4B K L C H A D W L E D P R F A D N A A R M A H A A L L D Q L V A S C I A T R T T A
UniRef90_UPI00046F1551 I L A E V V G R P D W C D D E R F A Q A K N R N A N R D Q L V E A A L Q A H T A H
UniRef90_W9BZJ5 I L V D A I G R S D L K D D P R F R T P A H R D A L T D A L D A V F E T Q P T Q
UniRef90_UPI00035E6E0B T L C D V L E R P D L A A D P R F A R N D H R D E L R P E L E A V L A T R G A D
UniRef90_A0QDZ7 G A W L T E L D L L G E L A D P K W G F P M L P T P E I L R T E W W D M M I A E
UniRef90_D8I6H0 W P E F C R L A G R E F A D V S Q I M A N A S A A A E I V A E I I G A R T F A
UniRef90_B6QKQ3 I L C E K E W S K D P K Y V I T N N E R V R N R K E L E D L I E A E T T K R T T Q
UniRef90_UPI000364AD5C A R E V L D L P A E D R F A T A G R G K A A E A E L D A L V A G M V A G R D R D
UniRef90_A0A022FP37 L N L C D A L G A D T R F S A R G R Q Q K H E P E V N G L L T G L F L T R T L A
UniRef90_M0EA00 E A M C E V L D T D L H E D T L D D R R D H R E A L D K G V A A A C E Q F E A E
UniRef90_H8IN05 V G F C R R M G L A E L A D D E R F V P A N A A A T E L F A D A F A R H T L A
UniRef90_UPI0003765655 R S M M H S L E L D F L Y D D P R Y K T E H V A S A L E R I M L E K I Q E K T L G
UniRef90_W5TQF3 V A E V V G A P E D P R F L T Q L D R V A H H T E L A V I L Q A R F A T G K R D
UniRef90_M2Y6Q9 E R L C G V L G R S D L V D D S R F A T A H R A E V D E V L A E G W L L R H T P T
UniRef90_F7UZL5 P L I M K A I G R E D L I D D P V F C D Q K K L Q D Y D I V A Q E G F Q K T A E
UniRef90_E8LD47 Q R F C D L I E C P E L I E K R Q Y D F A H E E E L Q Q L V A K I A A K T Q Q
UniRef90_H1S613 L L L E R L G L K D D A R F T Q Q W D R K R W P E L H R H F T E V F G S K T R D
UniRef90_X0PZ01 I A G R A D L V N P R Y A S V N D R H T H M G E L L S A I R E A V P S R T T R
UniRef90_UPI0003A7E98D R R I C L A M G R P D R F C N N P Q R V R H I D E I D K L V C D W C A A R S F D
UniRef90_Q1N311 M Q L C Q A L E L P D V L A A G S Q K P E D V A F V K G K I S D A F K S E S F E
UniRef90_U5WTG9 Q L C H P D L L D D E R F V D Q R A R A L H Y H E L T D E L Q S A A L A A K T A A
UniRef90_G5GF63 Y K K F I T V I G R E D M A E D E D Y F P V I Q N M Q Y D I V M E A I G K K T L E
UniRef90_UPI0002D680F8 R G F C E A F G L S D L R D P A L A T Q A Q R R Y L P R V A E V F A R S L S K A
UniRef90_L8FJH4 D R L V K I V G L D E K F H D D T G Q E Q A V I A A L T E V F A R S P S G A
UniRef90_X5LJ00 W P E F C H Y A D D P R F A S L Q A M A E N A D L A Y G I V H D T I A K L S F A
UniRef90_L9WLX9 G F C R A L D R P D D R F A T M D D R V D N R A E L A E L V E P I L R G E E S D
UniRef90_B0Y2Y0 A A L I K G L G F E T G D L P A R E D R A N W P A L R A A F E R R F K E K T R A
UniRef90_UPI000464990D L G R Y L H I D E L A R Y T D Q N E W F T K R E E I K Q L T G A K L K S E T T G
UniRef90_E8TW91 R L M G A D W H L P E D F A T N A G R L T H L K R L R P L L R E K L A A W R V E
UniRef90_V7D574 V S F C Q A F D F P E L G G D A E L I R N N Q D R L I P L V R E R L S G M D K Q
UniRef90_I4BM99 L C A M T G H A E W I D E N S P L T I T Q Q A N E H S A D L Y A W V A E Q T V D

UniRef90_X0Q392 UniRef90_G8RW36 UniRef90_A0A011P2G9 UniRef90_D5P7W4 UniRef90_E2CD52 UniRef90_W4L9G9 UniRef90_A9HXV0 UniRef90_I0WKV8 UniRef90_Q122Z2 UniRef90_UPI00021928EC UniRef90_B3Q6K6 UniRef90_D4XIS4 UniRef90_E3J2Q5 UniRef90_K0CBW2 UniRef90_UPI000415BB62 UniRef90_M6D8F6 UniRef90_UPI0001FFF23A UniRef90_K2KNV5 UniRef90_UPI00036B1661 UniRef90_UPI00046F89A4 UniRef90_F4CVM1 UniRef90_UPI00037DAD0A UniRef90_UPI0003B7025A UniRef90_J4JB7 UniRef90_A0A034WBJ3 UniRef90_A4SYN9 UniRef90_N6WV76 UniRef90_F0SU70 UniRef90_N1ZX31 UniRef90_UPI0003627AF2 UniRef90_UPI0002DAB6C5 UniRef90_UPI00035CFEE6 UniRef90_X5LMJ9 UniRef90_G411T2 UniRef90_G1PYV6 UniRef90_UPI000375EE80 UniRef90_K6W1G4 UniRef90_A0A024JSR6 UniRef90_F1YP93 UniRef90_UPI00035F1292 UniRef90_B2UAX6 UniRef90_UPI0003B50715 UniRef90_V7L751 UniRef90_UPI00035C6657 UniRef90_I0RP08 UniRef90_A0A031JRD4 UniRef90_UPI0003B3AF53 UniRef90_D5VHX1 UniRef90_F7UHB4 UniRef90_V1CHY5 UniRef90_F1ZAW9 UniRef90_A1SP28 UniRef90_E8TX75 UniRef90_B0T762 UniRef90_E0E2R7 UniRef90_Q0K2Y5 UniRef90_K9CL65 UniRef90_V4K2W7 UniRef90_C9M2D2 UniRef90_Q46UD4 UniRef90_D5ZRR2 UniRef90_UPI000369FC4B UniRef90_UPI00046F1551 UniRef90_W9BZJ5 UniRef90_UPI00035E6E0B UniRef90_A0QDZ7 UniRef90_D8I6H0 UniRef90_B6QKQ3 UniRef90_UPI000364AD5C UniRef90_A0A022FP37 UniRef90_M0EA00 UniRef90_H8IN05 UniRef90_UPI0003765655 UniRef90_W5TQF3 UniRef90_M2Y6Q9 UniRef90_F7UZL5 UniRef90_E8LD47 UniRef90_H1S613 UniRef90_X0PZ01 UniRef90_UPI0003A7E98D UniRef90_Q1N311 UniRef90_U5WTG9 UniRef90_G5GF63 UniRef90_UPI0002D680F8 UniRef90_L8FJH4 UniRef90_X5LJ00 UniRef90_L9WLX9 UniRef90_B0Y2Y0 UniRef90_UPI000464990D UniRef90_E8TW91 UniRef90_V7D574 UniRef90_I4BM99

290 300 310 320

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

UniRef90_X0Q392 V G P L V P P V N G D W E P R M D G V P A L G A D T S R V L A E F
UniRef90_G8RW36 R L P T V P V Q F D G Q P H L R R A P E H G E H T E T V L V E L
UniRef90_A0A011P2G9 K Q F A P P F K I L S E H P V A R H G A P G A G E H H S A E I L G E
UniRef90_D5P7W4 V V G V P A I P F S V D K W H R C P A P T L L G G Q H N A S I L G D L L G
UniRef90_E2CD52 P G V G R A I D V A T T P N V G S P P P Q L G G E H H N D E I W A D L L G
UniRef90_W4L9G9 V A P G R P F N M S Q T P W Q L R A A P L L G G Q H H N D E V Y I E L L G
UniRef90_A9HXV0 S L P A P V P R I L G R D M P A P R S G P S V G E H H N D E V Y A E F
UniRef90_I0WKV8 V G P V R T L R Q R G K D Y P V R P V P A L G G E H H S R Q L L G E L
UniRef90_Q122Z2 Q S K V P L M P F G K R P G I R L Q P P L L G G A H S S R E L L L E L
UniRef90_UPI00021928EC T T V A N P I L G M S R T P V N I R R L P E P G A S T D E V L L L E L
UniRef90_B3Q6K6 L K V A G L P I L G Q R P D P E L A T P K L G A H H H E V L L G
UniRef90_D4XIS4 R V A G F P V K F S K P L S A P S D V P E L D G A H H R E D I L A R L
UniRef90_E3J2Q5 D T L P G S P L H S E P P D P R G P A P R F G A H T D E V L G Q F
UniRef90_K0CBW2 Y V I E M P L P R F S A R A P R P A R P A P L G Q H T D E V L A E Y
UniRef90_UPI000415BB62 G F P G V V P V I G E T S L P V R L G P D L L G E N T E I L L G L L
UniRef90_M6D8F6 I Q F G S P F F S E S K V T Y R T P P E H G E H H N R E I L G
UniRef90_UPI0001FFF23A T E G G F P V R F A G T P A G L R P A P Q L G A D G A D V L R E L
UniRef90_K2KNV5 P G A D R D I R I L R T P S V S A P P P E L G Q D N Q D I L S
UniRef90_UPI00036B1661 V V I E G P R Y L L S E T P G A V T A P P A F G Q H H Q V L A D L L G
UniRef90_UPI00046F89A4 H R A G L A P R F
UniRef90_F4CVM1 P V P M P P V D S S A W P A P D G E V P A L G A H T R E V L A E L
UniRef90_UPI00037DAD0A V V Q Q S P L R F G W S P R E L T P S R A L G A D T A S V L A E V
UniRef90_UPI0003B7025A P G V R T P V L S E T P L R Y E R P P A V G E H T D E L L R
UniRef90_J4J8J7 R V P L A P L T L D G V I Q P P I R Q P P A V G E H T D E L L R
UniRef90_A0A034WBJ3 W V P V P S P L S R N T P G G I K
UniRef90_A4SYN9 A G S I P P P G L N S E Y R M D A I P A V G Q H T E S I L L Q E
UniRef90_N6WV76 R Q A R A A A R F S G A E P A P A P A P A K L G A D T R A L L G A L L
UniRef90_F0SU70 V G L I R P P L Q S R N L G A Y N P A P K L G E H T V E I L R E L L
UniRef90_N1ZX31 G S R G K P F S L S N Y K P A Y K R A P D L G E N N D E I L A D L L
UniRef90_UPI0003627AF2 L S P G N P V K L S R A E Q P E T R V P W V G E H T A E V L G V E L G
UniRef90_UPI0002DAB6C5 V I G V A P I R F T R T V Q E N W R A P L L G E D N D Y V F G D I L L G
UniRef90_UPI00035CFEE6 N G P I P I T F L D G R V P R M D P V P D V G
UniRef90_X5LMJ9 A Q A L P P G L A S G I E P V L G D V P A L G A H S R K I L G E L L
UniRef90_G411T2 V N A A A P F Q L S R R P V H R S S A P L L G Q H H H R E I L T E L L
UniRef90_G1PYV6 V S P C L A P L L S N T P A T P S R D P L I E E H T E E I L K E F
UniRef90_UPI000375EE80 K Q I N T P F H F G N E K S Q Q H I A G A L G E H S K G I L L
UniRef90_K6W1G4 G F P A P V P K F T A T P G T I R
UniRef90_A0A024JSR6 E M V A T P A D F H G T P W A P R A A P Q L G Q H T D E I L L A E L
UniRef90_F1YP93 R R S N P P I R L S A T P T Y R A P P E L G E
UniRef90_UPI00035F1292 R P P G V L T P M G Q R P M A L C P P P G L D A D G D A V R A
UniRef90_B2UAX6 V Q L A L P L R F A D
UniRef90_UPI0003B50715 I Q A G M P F K L E R N P A V T P T P P A V G Q H T A E V M A E V L
UniRef90_V7L751 L L P R P V P R F S S I P P G L R P A P T P G E H T R E I C S S L L L
UniRef90_UPI00035C6657 T Q L A T P I A V D G S V P S S D W I P Q P G D H T D T L L T E L L
UniRef90_I0RP08 A A P A N P I S L S R T P Q Y R L A P P
UniRef90_A0A031JRD4 V V J A L P V K I G G A R G A R F E Q P P E L G A D T D S I L A R L L
UniRef90_UPI0003B3AF53 E R D I R V L R T G E A P S V D A P P P V L G Q D N E T I L A G L L
UniRef90_D5VHX1 R G G G Y P W H F S D D D E L G M R S A P A F G E H N E Q V F R E
UniRef90_F7UHB4 A L P V P I A P I F R T R P E C F A P R L G E
UniRef90_V1CHY5 T L V R L P V K F A E M G P E Y K K G P L I G E Q S E D V L K E L
UniRef90_F1ZAW9 P V P G V P I R F A N M D L A L D R P P R K G Q D G A
UniRef90_A1SP28 V Q L A S P V R V G N E R P Q Y R A P R R N E D F H V L R E T I G
UniRef90_E8TX75 A Q P G L G F R L G G E P A P Q T P A P G L G Q H G H A L L Q E L L
UniRef90_B0T762 H G P A G P T R F P G S E G P R G P A P K L G E H T A A V L A E
UniRef90_E0E2R7 V F N T P V M F T E N K E G Y V R A P K F G E H T K E V L
UniRef90_Q0K2Y5 E G G L P F T M A S M P A G A M P A V P R L G Q H T T E V L A E L L
UniRef90_K9CL65 Y Q A A P A V R F D R T C A A P R P A P A I G G A D N G V L A D L L
UniRef90_V4K2W7 F G N I P A T I N G K E L A S N I P V P A I G E H T Q E I
UniRef90_C9M2D2 N E V L G S P M K Y G T W N S Y G D S P K L D E D G A K I R K E F
UniRef90_Q46UD4 Y T A S T A W R T G I E P V P V R H A P T L G E H T D E V L T R V L G
UniRef90_D5ZRR2 R L K L T G L P L S E R A G F G T T A P A L D E H R D E L L
UniRef90_UPI000369FC4B G L G L P F A G I P A R A G P A P A N G E H T V E I L R E
UniRef90_UPI00046F1551 E R I L P T I R L S R S Q V A Y D A P P E L G A D S D R V R A W L
UniRef90_W9BZJ5 R V L A S P I R V D G E R L P S R A G P L L G A D N D E V L A
UniRef90_UPI00035E6E0B P M V R N P V T Y S L T P P R Y R R P P A L D N A G E S I R A W L
UniRef90_A0QDZ7 R Q P S T L I H A E E K A T E L R P A P R L G E H H N E A L L A
UniRef90_D8I6H0 E R V A N P V Q F E E T A A T L T R A P L F A E H T D E V L R E L L
UniRef90_B6QKQ3 K V L S P V K Y S N A D P S I R P P P L L G E H T D E I L E S V V G
UniRef90_UPI000364AD5C V M P A P M R L S A T P W E V G P S P C L G G Q H H N K E V F E G L L G
UniRef90_A0A022FP37 I T L G F P V K F S G L P A S D D H V P A L G E H G A
UniRef90_M0EA00 G G D I D V P R Y P A R S T R F D R P P E L G E D T D A V L L E A L G
UniRef90_H8IN05 R L V A A P V Q F D E T P P A P A R A P E H G Q H T E E I L L E L L D
UniRef90_UPI0003765655 R Q L G P M V I M T E T P G S A G A P E P G Q H T D E V L A R L
UniRef90_W5TQF3 T P T V V F P R I E G Q D A R L R A A P R L G G D D D V Y D E W C G
UniRef90_M2Y6Q9 M L P A P L P H F A A L P W P L R A A P L A G E Q T R E I A E D T L
UniRef90_F7UZL5 R G V R V P I D L E E T P P P Y E K A P L L G E D T E C V L K D L
UniRef90_E8LD47 I G R G G P V K F S E D A S T I R R A P K L G E H T L D I L Q E L
UniRef90_H1S613 L Q S S P A P R F D G Q V R T P G P I P R R G E Q S E E I
UniRef90_X0PZ01 T A T R T P F A M S R T P I S F R H A P L L G E D T F T L L E D L
UniRef90_UPI0003A7E98D S V P A P V P R F S G E P P P R T G P A V G E H T
UniRef90_Q1N31 I E Q L S N P L L H D H D I Q H T G G K L G A D T E L T L K
UniRef90_U5WTG9 D D A V T V I R T S F S A V V A D P P T A G E H H N D I F L T E
UniRef90_G5GF63 R L V R L P V K F E E M G P D Y K K G P F I G E Q G K E I L K E L
UniRef90_UPI0002D680F8 T A A R P L A G L P A L P V A R R Q P R S G E H S L E I A R E
UniRef90_L8FJH4 G R P
UniRef90_X5LJ00 P Q V A S P V K F D D D P G N L E R A P Q F A E H T D D V L R E L
UniRef90_L9WLX9 D V I D H P V H F T A L T T Q L E V A P R L G E S T D S I L L
UniRef90_B0Y2Y0 G L P I P A
UniRef90_UPI000464990D T S R C P I T V N G D S M K S S K W A P A L G E D T E K I S R E F
UniRef90_E8TW91 R L V R N P M V P A G R D A P V T P P V L G
UniRef90_V7D574 Q V K V P M L P F G Q R F A R L N V P E L G S H S K E L L A E L
UniRef90_I4BM99 T Q P T H P Y R M P D T L R P P A P A P R L G E H T E A

UniRef90_I0V7A2 1 G P L S G T V V V D L S R A L A G P H A T M M L G D L G A R V I K V I E E A P G 40
UniRef90_V9KV39 S L P L S G L R V L D M S R V L A A P Y C T Q L L G D M G A E V I K I E E T H P K G S
UniRef90_X6NX70 G A L S G I K V A D F S R V L A G P Y A T M M L A D M G A T V T K I E E R K G V
UniRef90_UPI00037CDA81 P L L G G V R V L D L S K V L A G P V L Y M L M A D M G A D V V K I E E A S A G Q
UniRef90_F4L953 G V L A G V R V A D F S R V L A G P Y A T M M L A D F G A D V V K I E E A P A G G
UniRef90_U2RMF2 P L A G I K V V E F S R M V M G P L T G A V L A D F G A D V V K I E E P P A G G
UniRef90_UPI00037BB2F2 P L H G I R V V D F G Q F V A A P G A S Q T L J E L G A D V V K V E E P P E G G
UniRef90_COZQH5 S L P F A G L K V F D L S T F F W A G A Y L T C Y L L G A F G A D V V K V E E D D P G
UniRef90_A0A051TX62 P L S G L R V L D L T I E Q D G A G P Y G T Q L L A S L G A D V I K I E E N S P S T
UniRef90_V8QTD6 S G P L L G V K V I D L S S V V M G P Y T S Q I L G D M G A D V I K V E E S V D G G
UniRef90_A3UEX9 S L P L A G I R V I E F T H M V M G P T C G M L L A D L G A D V I K V E E P P G G N
UniRef90_A0A011K8M9 T S P L K N I K V L D C S R I L A G P F A A Q M L L G D M G A E V I K I E E P P S G N
UniRef90_A0A059KKK6 A L E G G I R V I A D F G R V L A G P Y A T M M L A D L G A D V I K V E E P P G G V
UniRef90_F4R542 P L E G L R I L E V A M Y G F V P S A G A V L A E W G A D V V K V E E H P N P
UniRef90_M3UI30 A L T G I K V V D V T T T M L G P Y C S L R L A E F G A D V I K V E E A P V G G
UniRef90_U5WRQ3 G P L A G L R I L E V G H I L L A G P Y A T M M L A D L G A D V T K V E E P P G G
UniRef90_M5AL55 P L S G V H I V E F E G L G P G P L A G W M L A G M G A R I T L V A R P A G T
UniRef90_D3CZ70 R P L E G L R V L D L G Q Y I T A A P Y C A M L L A D L G A E V I K I E E K P V T
UniRef90_M2V336 P L S G V H I V E F E G L G P G P L A G W M L A G M G A R I T L V A R P A G T
UniRef90_A9ALL8 R P L E G L R V L D L G Q Y I T A A P Y C A M L L A D L G A E V I K I E E K P V T
UniRef90_UPI0002F82BA0 P L E D I N V L D M S T F V T G G F C S L M L A G Q G A Q V T K I E E P S P
UniRef90_Q18IQ3 R P L E G L L V V D L T T A L L S G P Y A T L Q L A G L G A R V I K V E E D W S V
UniRef90_UPI0003B327B5 P L T G V R V I D D V T D G L G E S C G R F L A D L G A E V I K V E E S V G G G
UniRef90_J9RF16 R P M E G V R I L E V A Q F T F V P A A G A V L A D W G A S I V K I E E H P F S P
UniRef90_K6V6E2 S L P Y E G L R V I E M T H M V M G P T C G M V L G D L G A E V I K I E E P P A G G
UniRef90_Q0K9Z4 P L A G I R V I E L A S V G P A A R S R L L A D F G M Q V I K V V D P V F
UniRef90_F2LF84 R P L N G V K V V E F D S P G G V T F A A R M L S G M G A D V I R I C R P G T
UniRef90_S9ZNE2 P L S G L R V I E A S M Y A F A P S A G A V L A D W G A D V I K I V P P D F
UniRef90_UPI000372EFA4 P L K G L V V L E M A G L A P A P F A G M T L G D F G A N V I K V I D R S S T
UniRef90_D3CRI3 P L A G A R I L E V L S H V I V P M A G A V L A E W G A D V I K V E E H P R A F
UniRef90_X8C6P7 P L A G L R V L D L G V I V A G A E L G R L L A D H G A D V I K V E E N D R A V
UniRef90_I1C578 L N G I K V V S F C H F L Q G P A A D Q Y L A D M G A D V I Y V E E T V S G
UniRef90_A8LFS8 F S G V R I I E L A Q F V F V P A A G A L L A D H G A E V I H V E E P V G S T
UniRef90_L1KW77 S L P L S G V K V I A F E Q Y G A G P P F A S Q R L A D M G A D V I K V E E P A G T
UniRef90_W8INI4 A R P L S G L R V L D A T A V F A G P A V G Q V L G Y L G A E V I H W W E P K A A
UniRef90_A0A031J1F8 A G A L A G Y R V L D T T E L G W M C G K V L A D L G A D V I K I E E P P G G
UniRef90_UPI0003B4F3BC P L H G V R V A D F T V H A A G P F C T H M L S Q L G A E C I K I E E S A L R
UniRef90_E5WK26 L R G I R I T E T E A L G P A P F A A M M L A D L G A E V I C I H K K P E T
UniRef90_G4HZ43 T G V L S G V R V V E L A S W T Y V P S A G A A L A D W G A D V I K V E E D V K G
UniRef90_W4LC18 P L S S L R V V E F T H M V M G P T C G M V L A D L G A E V I K V E E P P V G G
UniRef90_W6W8T2 G A L S G I K V A D F S R V L A G P Y A T M M L A D M G A T V T K I E E R K G V
UniRef90_RODVL5 R P M E G V R V L E V A Q F T F V P S A G A V L A D W G A D V V K I E E H F A P R G
UniRef90_T1EF38 S K P L Q H I R I L E I G G Y I S A P Y S T S V L C A L G A E V V K V E E K A P S P
UniRef90_L01YR2 G P L S G M R V L M S F A T L V A A P P F A S T L L A G E M G A S V I Q L E L P G W
UniRef90_W4LWZ5 P L A G L K V L E L G N Y V A A P F C C R L L A D L G A E V I K V E E P P S T
UniRef90_UPI000476377D T G P L A G V R V V D I S S S Y A A P T T S M Y L A D M G A D V I K I E E P L E R G
UniRef90_W5WMF5 P L A G V R V A E I T V V W A G P H V T Q L L A E W G A D V I K V E E P W N R N A
UniRef90_MOQQ08 P L K G I T V V A E I T V V W A G P H V T Q L L A E W G A D V I K V E E P W N R N A
UniRef90_UPI0003803031 L S G I K V I E L A A W T F V P T A G A V L A D W G A D V L K I E E H P N H
UniRef90_K8XE46 P L Q H I R I L E I G G Y I S A P Y S T S V L C A L G A E V V K V E E K A P S P
UniRef90_C7YTV5 P L S G M R V L M S F A T L V A A P P F A S T L L A G E M G A S V I Q L E L P G W
UniRef90_E8WNM9 G P L A G L K V L E L G N Y V A A P F C C R L L A D L G A E V I K V E E P P S T
UniRef90_H5TE84 G L R V L D D V L S F V A G P Y A A T I L G D L G A D V I K V E E P P L E G G
UniRef90_B4W8K7 T G P L A G V R V V D I S S S Y A A P T T S M Y L A D M G A D V I K I E E P L E R G
UniRef90_A1WQI9 P L A G V R V A E I T V V W A G P H V T Q L L A E W G A D V I K V E E P W N R N A
UniRef90_UPI000370CFD2 P L K G I T V V A E I T V V W A G P H V T Q L L A E W G A D V I K V E E P W N R N A
UniRef90_W4LP44 L S G I K V I E L A A W T F V P T A G A V L A D W G A D V L K I E E H P N H
UniRef90_X6J700 P L Q G I K V I S L C H Y L Q G P A A V Q Y L A D M G A D V T K I E E P H R G
UniRef90_A3TID7 P L E G M C V L D L S T S L A G P Y G T Q L L A D L G A T V I K I E E K P G M
UniRef90_B5WE00 P L Q D V L V V A F S Q A V A A P Y C T S R L A D A G A R V I K I E E R P E G G
UniRef90_A9IC18 A K P L E D G I R V L D F S T L L A G P L A T L Y L V Q A G A E V I K I E E R P G G
UniRef90_A4YXB0 P L E D L I V L D F A Q Y L A G P S A A L R L A D L G A R V I K V E E R P G V
UniRef90_E7C3Y6 A P A F S N L V V L D L T R Y L P G G Y A T Q P F A D W G A N V I K V E E D T E Q
UniRef90_UPI00016C06F8 P L A G L R V L D L S W V V A G P L V G R T L A G H G A E V V R I E E S S R R
UniRef90_R7BNE7 P L A G I R V V E F T H M V M G P A V G H I L A G L G A E V V R I E E P L G G
UniRef90_D9WP85 P L T G I K V L E F A G L A P G P F A G M L L A D A G A S V L R I D R P L P
UniRef90_J2HE15 G A L S G L K I L D S G S N I A G P L G G G L L A E C G A T V I H F E G P K K
UniRef90_T0LKU9 A L P L A G R V I E F T H M V M G P S C G M V L A D L G A E V I K V E E P P G A G
UniRef90_Q9RB45 P L S G K L V V T L E Q A V A A P F C C S R L A D A G A R V I K I E E R K G A
UniRef90_A0A059KQZ0 P L E G V R V L D L T S V V M G P V C C Q L L A D Y G A E V V K V E E P P G A
UniRef90_A3TZV5 T L P L T G V R I V E L T D G L A D G C G R Y L A D L G A E V V K V E E P P G G
UniRef90_UPI000371083F P L T G I R V L E F A G L A P G P F A G L L L A D Y G A S V L R I D R P P P
UniRef90_E3IWR6 P L D G I R V A D F G R V L A A P Y A T M L A D L G A D V I K I E E H P D G Y
UniRef90_A7EEQ3 G L F A G L K V I D C A S F L A A P A A T V L A D F G A D V I K I E E P P G Y
UniRef90_F8K0K1 S K P L E G I R V L E V A M Y G F V P S A G A V L S D W G A D V V K V E E H P N P
UniRef90_W3RJJ7 P F T G L R V L D M T F W A G P S C T H A L G M L G D L G A D V I H W W E S R S P
UniRef90_UPI00046452BE P L A G V R V L E S A S L N G S D T L G M L L G D L G A D V I K V E E S P G R
UniRef90_W9AL38 A P A L Q G V R V L D L T Q I W A G P T A A R A L A E F G A D V I K I E E N S P H E
UniRef90_J4SHZ9 T L P L S G I K V V E L A T V V A A P T C A R M L C A Y G A E V I K V E E A L Q G G
UniRef90_UPI000255B5FC P L S G I K V V E L A T V V A A P T C A R M L C A Y G A E V I K V E E A L Q G G
UniRef90_F0QSP2 Y R V L D L T R L Y P G G V A T R L L A D L G F D V I K V E E D T E V
UniRef90_M5R5J3 G P L D G I K V I D F S H Y L P G P F A S L R L G D L G A E V I K I E E N P K T G
UniRef90_F7UX11 P L Q N G V R I V A H S S S V A G P F C A A L M A D L G A D V I W I E E N P Y G
UniRef90_W9AXZ8 P L S G V R V L E V A Q F T F V P A A G A T L A Q L L G A D V I K V E E H P H A
UniRef90_X5LDE6 M Q G V R V L E V A Q F T F V P A A G A T L A Q L L G A D V I K V E E H P H A
UniRef90_UPI0003B37341 A L P L E G I R V V D M T T V L W S G P Y A T M L A D L G A E V I R V E N P H A
UniRef90_G7E5Y6 R P L D G L T V L E F A G L A P G P F A G M V L A D F G A R V I R V D R P G T
UniRef90_UPI000372E2BB G P L S G L R V L E L S D E K G Q W A G K L I A D L G A D V I K I E E P P G G
UniRef90_UPI00036DBE13 P L S G V T V L E L A S W T Y V P S A G V I L A D W G A E V I K I E E D T R G
UniRef90_B2AHB0 P L R G I K V V E F E G I G P G P L C G A M L A G L G A E V T L V T R P V P

UniRef90_I0V7A2 G D D T R G W G P P F V R P E H K D A 60 G D H A T L L R M V S R A D V L V I E N F Y T R
UniRef90_V9KV39 G D D T R A W G P P F I S A V N L K D P K G A K H T I K D L A S V Q C D D V L V I E N F Y T R
UniRef90_X6NX70 Y F E L S C N N R N K K S L T A L N L K S E T A G G K K V I L Y D S L L S K Q D C D D V L V I E N F Y T R
UniRef90_UPI00037CDA81 F F E T L S C N N R N K K S L T A L N L K S E T A G G K K V I L Y D S L L S K Q D C D D V L V I E N F Y T R
UniRef90_F4L953 G D D T R G W G P P F Q D A S G E S T K S Y F A S V N R R R R L A S T A D V V V V H N F S F G R
UniRef90_U2RMF2 Y D F T R A W R N P P V D A S G E S T K S Y F A S V N R R R R L A S T A D V V V V H N F S F G R
UniRef90_UPI00037BB2F2 D F P M F N R N K R S I C I A I D L L K S P R G L E V A E K L V A D A D V V I I Q N M R S
UniRef90_COZQH5 D W V R Y N R G K R S I A I D L L K S P R G L E V A E K L V A D A D V V I I Q N M R S
UniRef90_A0A051TX62 L W Q G T N L N K R D I T L D L L K S A T E G R E L A L R L A A E A D V V V V I D N F S
UniRef90_V8QTD6 A Y L K R A R N G K K S V T L D L L K S P E G K R V F M K M V E R A D A D V V I I D N F S
UniRef90_A3UEX9 F F Q T F N R G K R S M A L D L L K D R G D R R I F E R L L A S S A D V L L Y E N F I R
UniRef90_A0A011K8M9 D V F R Y T A P S K H P T M N L L K L E E K K A S L L K L I S S A D V L L Y E N F I R
UniRef90_A0A059KKK6 D K T R R L P G L G M G F F R T F N R N K K S V V R A L V A S S A D V V L L E N F I R
UniRef90_F4R542 Y F I S C N N R N K K S L T L N L K D Q K G I E I F K R L V K D S D V L V I E N F M
UniRef90_M3UI30 G D D T R S W G P P S W V G D E S R D P A D L D R A R E L L A R S D V V V V T S F L
UniRef90_U5WRQ3 N I E H A N R N G K R S I G L D M S V P A D G K D V L Y E L L A R R S D V V L T S F L
UniRef90_M5AL55 D V I T R Q G T G G S H Q F T G T K T E A G L Q A I Y R L L A S T A D V V L H N M P
UniRef90_D3CZ70 D L S R Q V S D A Y F A S L N R T S E E G Q A R T L H E L A A D A H A V L V N L K
UniRef90_M2V336 R M A S L N R N K R S I A L D L R L K S A D D R E T F L R L V E T A D A V V G F R
UniRef90_A9ALL8 R S S A P D A L R S R D G D D L L K S E A D G R E A A L D L V A H A D A L I E G L R
UniRef90_UPI0002F82BA0 G D P R R A Y D P Y I E A E G G S E P A D D R A A Y V R L V R T A D I I I Q N F R
UniRef90_Q18IQ3 Y F W S V N Y N K Q S V E L D L K S E A G M E A F Y D L H K A D V I I Q N F R
UniRef90_UPI0003B327B5 S M L V R G R D K E S V T L L K H P D D Y R A F M T I V E R A D I L V I E N F S
UniRef90_J9RF16 S R S R H N A N K N L V I L D L L K S E A G R S R F R E L V R G G S D I L V I E T F M S
UniRef90_K6V6E2 I M E G P N R N G K R S V G L L A L D E R S P E A G R P V L E E L V R R N S D V F L
UniRef90_Q0K9Z4 D W S R Q M G R I R A G Q T D A R D S D S G R A A I A R L L A Q Q A D V V I Q N F R
UniRef90_F2LF84 F F G T F N R N K K S L A V D V L K A P N G Q E T V H R L L G S A D V F S E S F R
UniRef90_S9ZNE2 H A Y G A G R G M R M R V D L K A P N G R T L I R H L L A S C A D V V L I E N F Y R
UniRef90_UPI000372EFA4 S E P G P L A G R E W A A L N L K T P E Q D R S L A S R L L I E R A D V L I E G F R
UniRef90_D3CRI3 M W E I T N R G K R S I G V D Q R T E Q G K I V A E L A R G A D V F I Q N L L
UniRef90_X8C6P7 Y F V W L N R G K R S I T L D L L K H T E G G Q R I V H R L L T S A D V L I T Q N L G
UniRef90_I1C578 S T D V L V R N K R S I A I D L L K D S K A K Q V F K L L C E K A D I L L D P F R
UniRef90_A8LFS8 Q F Q A T N R N G K R S V A L D L L K P A G R Q L L S R L I A A A D V F V I T S N L
UniRef90_L1KW77 P D G W G H R N K R S V G L N L R D P E G V G L F K R L I A A A D V V L E N F K
UniRef90_W8INI4 F Y L C A N R N K R S I A I D L L K T P E G T D V A R R L I A E A D V V L E N F R
UniRef90_A0A031J1F8 G D P Y N N R G K K S I A L D L K T A A G R E V L R L I D T A D V F L S L L R
UniRef90_UPI0003B4F3BC S G D Y L R D I G P S Y I L D G D N K N E G K I L L Q K L V E N A D A V L C N N L R
UniRef90_E5WK26 V F A A N N R G K K S I T L N L K S E D G R N A A L K L I S E S H A V L I E S F R
UniRef90_G4HZ43 M F L S N N R D K K S L A V S L D T S D E G R T V V R R L A A S C D V M V I E S F A
UniRef90_W4LC18 D P G R R R G P F Y G D H V E P D T H S L N W L A R E M V R E A D F V V I E S F A
UniRef90_W6W8T2 P D I F R K P H A V Y G R N N M K H P E G V G L A K R L V A I S D V A A E S F R
UniRef90_RODVL5 A A P P G M P E R S I T A L D L K N A Q D L Q I A Q E L I A T A D G L I E G F R
UniRef90_T1EF38 G D D T R S W G P P S W V C V D M K T K E G S Q L I R Q L L A S M S D V F I E N Y V
UniRef90_L0IYR2 G D P G R N R G K R S I G L D L K T D T G R E Y L G R L L A T A D V F L I T N W L
UniRef90_W4LWZ5 D P F R F Q N A W I S W N R G K K G I E G R E Q A R Q L L A G E A D V V V I E S F R
UniRef90_UPI000476377D D H P M C N R N K K S I G I D L H S Q E G A M A R R L V A T A D V V I E N F K
UniRef90_W5WMF5 G D D T R H W N K N T V A L D L D P D D L A T A R D L I A E A D V V I E N F R
UniRef90_MOQQ08 I M E G P N R G K R S V G I A L D Q P S A R P V L E E L V R R S D V F L I T N F L
UniRef90_UPI0003803031 D E T R G W G P F D M L D L G Q S A R T V L L D L L L A D A D V V L V E N F R
UniRef90_K8XE46 Y F V Q Y N A G K K S I A V D L K R P E G V D L V L A L L P K F D V L V E N I R
UniRef90_C7YTV5 T S A R A V P T E D M L A R H K K S P R G S V A L V K R L A S K A D V I D N P F R
UniRef90_E8WNM9 V Q N G R N R L S F T L A N T M K Y P E S K E I F L S L I K N A D V W L I V
UniRef90_H5TE84 W W S M H G R N K K C I T L N L K H E K A T A L A K K L V A Q S D I V V I E N Y R
UniRef90_B4W8K7 C W E F S S R N K R S I A L D L K Q S G G R D V L E R L I E Q A D V F V I E N F T
UniRef90_A1WQI9 D W M A F N R G K R S I A C D A R H P S G G R A L L A L L A A R T D I V I Q S F R
UniRef90_UPI000370CFD2 W F L S V N R N K R S M C L D I T R G Q A G R D V L F K L L E T A D V F I E N I N
UniRef90_W4LP44 S F N S H A R N K R S M T C C I D I M T P E G R E A L L R L I A N A D V V I E N N V
UniRef90_X6J700 Y F V W L N R G K R S V A I D L R L E M D R E V L D T L I A N A D V F I Q N L K
UniRef90_A3TID7 F I E Q P N R G K R S V A I D V S H P D G L E L L M K L V E Q A D V F V I T N L L
UniRef90_B5WE00 A F E R H W R N C R S V A L D L K T A Q G R E L V L K L V A S A D V I V D N F R
UniRef90_A9IC18 G D D A R N W G P P F I N G E S P K W T S V N R N K H S L V A Q A D A L V D N M N
UniRef90_A4YXB0 Y F V W L N R G K Q S L V A D T K N P D D A A L L H R T I A R A D V V V Q N L A
UniRef90_E7C3Y6 G D P T L R N Y P P C S V A V D L K N P T E H C H L L E L V S S D V V I E N Q F R
UniRef90_UPI00016C06F8 L F H T I N R N K E S V T A D L K N P A D L T A V K E L I K Q A D I L I E N F R
UniRef90_R7BNE7 G D Y C R H D A P T R F S F N L K N K E V L G H F L I E L A S K A D V I I E S F R
UniRef90_D9WP85 I E T S R L M P P F H G A L D L G K S E A G R A V A A D L A A W A D V V V I E S F S
UniRef90_J2HE15 Y F P M Y N R G K Q S I C L D L L K S E G L Q V A R D L A E G A D V V I E N F R
UniRef90_T0LKU9 T E D M L A R H K A S V A V D L K S R D G G V D F V K S L A A K A D V I I D P F R
UniRef90_Q9RB45 P D N Q R G W Y G Y P Q N H R N K S E E G R K I E L D L I K W A D I V W I E S S K
UniRef90_A0A059KQZ0 F F G M F N R N K K S I A V D V K D P R G R E I V L R L I A G A D V F S E N F K
UniRef90_A3TZV5 Y F T W L N R G K E S V A L D I K A D E D R E V L L R M L K N A D V F I T Q N L L
UniRef90_UPI000371083F M F L H A N Q G K R S V V L L K R A A Q D Q D A L R A M L P G R F D V F I H N V R
UniRef90_E3IWR6 A A S R R A G P R P G D S L P F E T P A P D Q D R L R E L V S R A D I V V I E S A P
UniRef90_A7EEQ3 T A D L L T R H K S S I A V D L K S A G I S F I K S L V A H C D V I I D P F R
UniRef90_F8K0K1 D D T R A W G P P Y A H D E A T R Q S P A T L G H V T R E L V R A D V V I E N F R
UniRef90_W3RJJ7 A W I L D S R N K R G L S V D L K S E H G Q E V L R T E L V A T A D V F I T N M P
UniRef90_UPI00046452BE N V I E H A N R G K R S I G V I D M S V A E G R E V I Y D L A R R A D V F L T S F L
UniRef90_W9AL38 I F S A L N T N K K S V I T I D F Q T E A G R E L L R L I A E A D V V V I E N F T
UniRef90_J4SHZ9 G D Y L R D F M G Q S I A V I D M R S D E A G R A V F W R L I A E R A D V F V I E D G N A
UniRef90_UPI0002FA726C P T M S H Y R G K Q S I L D L F K D K D M D F F R K L V K S A D V V I T Q N F T
UniRef90_G4Q469 D V Y M R H N S N K K F L S L D L L K K E K G K T L L D L L S H A D V F I T N I R
UniRef90_UPI000255B5FC W F R N T H R G K K S L C L N L L K D P E Q Q K A Q L L A L I D S A D V F V I E G F R
UniRef90_F0QSP2 G D Y W L N A G K R S I A I N L K T N E G R E L F Y K L V R D S H V V I E G F R
UniRef90_M5R5J3 D M M R K L T D D C I F E A N N K N K Q N V Q I A Q Q L I E N A D V V I E S F R
UniRef90_F7UX11 P D V V R A G Y G Y T I Q G D R R N Q R N V S I F L R M L I E N D I F V I E A S K
UniRef90_W9AXZ8 A A D Y H R W P K R S V A V D M R S E Q G G Q Q L V C R L I A D A G V L I T N
UniRef90_X5LDE6 L T E H P N R G K R S V G I D V S T P E G G Q E V L Y E I A K T A D V F L I T N Y L
UniRef90_UPI0003B37341 L N N S V S R N K L S C V G I D T R P E G R E L L M R L I E K A D V F V I E N F K
UniRef90_G7E5Y6 N F N S D T L C R G K E S I S I S P K D L I K P N Q Q G W K G V D V I I D P F R
UniRef90_UPI000372E2BB E F W H Y N T S K R G I T L N L E S E N G K S F F R E L A S G A D V I E T F D
UniRef90_UPI00036DBE13 M M E I G N R S K R S I G M D K T P D G K A I F A K L I A G A D V F L I T N W L
UniRef90_B2AHB0 A E M E I E H G K R V V Q L N L K A P E D V A A A L E L V A G A D A L L E G L R

UniRef90_I0V7A2 T G V L D R L G L G L 90 G F A E L H R K L I N P 100 V I L S I I T G F H D G G P E G S G R A G G
UniRef90_V9KV39 P G K L G E M G L L G Y E E D I H H K I N A N P H I V I Y C S I I T S A F Y G Q G N T E N A S P M S Q Q R Y P G G
UniRef90_X6NX70 P G S L D K K L N F G Y E E T L D N K I N P P D I I Y Y A S V I T S A F Y G P G N E N A S P Y D V H H Y L P G G
UniRef90_UPI00037CDA81 P G V A E A Q K L G L V D W E A L S R A K I N P R L V V Y C S A I S T S G F G P V G A G S L S H L G K G G
UniRef90_F4L953 P G V A Q K L G L V D W E A L S R A K I N P R L V V Y C S A I S T S G F G P V G A G S L S H L G K G G
UniRef90_U2RMF2 P G V M E S F G L G D E A E A L S R A K I N P P D L I Y Y C S T K G F G R E A G P S L S A A L P S A
UniRef90_UPI00037BB2F2 P G A L D K K L G L G D E A E A L S R A K I N P P D L I Y Y C S T K G F G R E A G P S L S A A L P S A
UniRef90_C0ZQH5 P G A M A A L G L G Q D R V H E L N P R A I Y A T V S G F G L N E G P S R R N R P G
UniRef90_A0A051TX62 P R V V J E Q F G L D Y E S L V Q R L N P N G V I M V R M P G F G L E T G G P W R D N L Y V G
UniRef90_V8QTD6 V G V A Q R L G L D Y E S L V Q R L N P N G V I Y C A H L S A Y G R D N G S E R A S H W P G
UniRef90_A3UEX9 G D L P A E L Q L V D Y A S H L R E I K N P D I V Y C A H L S A Y G R D N G S E R A S H W P G
UniRef90_A0A011K8M9 P R S M S K L G L D Y T S L Q K L N P R L I Y Y C G V Y G F S E L P G P Y E K R L P A
UniRef90_A0A059KKK6 P G L M A K L G L D Y A T L S A E H P A L I Y A S H K G F L P G P Y E K R L P A
UniRef90_F4R542 V G K M E E L G L G Y E V L K T I N P N L I Y S N I T S G F G S T G P L S S L P G
UniRef90_M3UI30 P D T M R K L G L G Y D D V A Q V N P S G V V Y C S V T G F G G E N S L P G G
UniRef90_U5WRQ3 P G A R Q K F G I G V D D I L R A V N P P S I I Y A R G S A L G P R G G E A T K G G
UniRef90_M5AL55 R P T A D R L G I G P D A I R E K C S I V Y C A A Y G Y G E S G G P Y A G R P A
UniRef90_D3CZ70 P S A I R A F G L T Y D A L R K A N P N K I V C V A L T G F G L S G G Y A D K P P A
UniRef90_M2V336 P G V L T R G M G L G Y D D V L R K A N P R I V L C S I T G F Y G O S S G P Y A D E P P G
UniRef90_A9ALL8 P G A M E R V G L G P D A C A R R N P K L V Y A R M T G W G Q H G P L A S A A G
UniRef90_UPI0002F82BA0 P G A V D K L G I G Y D T L R E E N P R L I Y A A I S A F Y G R R T G D Y A D R P A
UniRef90_Q18IQ3 P G T A E R L G V D Y E S L R E H N D D I I Y C A I S A F G Q T G P W Q E R P G
UniRef90_UPI0003B327B5 P G V T D R L R I D Y L T V K A S N P R I V Y C S I S G F G Q D T T Y Y G S A K A
UniRef90_J9RF16 T G S P A D L R E E N P A L V V V T V S G F G L T E G P D Y R D W A A
UniRef90_K6V6E2 P N A R G K L G I T L E D I L A R I N P D I I Y V V S G S G F G T E G P D Y C E K G G
UniRef90_Q0K9Z4 P G V A E R M G V L Y E A L S A R N P A L V Y V S S G Y G H A G P M A N M P A
UniRef90_F2LF84 S G T M E K L G L G Y A H L S K L N P R L V Y V S H K G F L P G P Y A H R T A
UniRef90_S9ZNE2 P G V A A R R L G I G H E E L C A L N P R L V Y C S T S G Y G O D G P Y A G W V G
UniRef90_UPI000372EFA4 P G V M E R R L G L G P E Q F H Q S N P N L I Y T R L S G W G Q A G P R S D K A G
UniRef90_D3CRI3 P D A R R R F R V D A E D L T A R I N P N L I Y A R A S A H Y G T T G P E R D A G G
UniRef90_X8C6P7 P G A A A R M G L D A A T V A R R Y P R L I V C D I T T G P W C G R K A
UniRef90_I1C578 P G V M E A L G L G P E I L D R N P R L I Y A R L S G Y G Q S G S T V A G
UniRef90_A8LFS8 A D T R A R L N L E L A D V L R A D N P A V I V V R G S T A F G S Q G P D A G R G G
UniRef90_L1KW77 P G T L E S L G L G P D V L L G L N P R L V I A D S A F G S S G A D A S R R M G
UniRef90_W8INI4 P G V F A R L G F D D A A L A R I N P T L I F A S A S G F G S S G P M A N K P G
UniRef90_A0A031J1F8 P K A L K A L R L T P D Q L K G R N P K L I V V R G N S A Y G F G K G A R K K A G
UniRef90_UPI0003B4F3BC G D V P E K L G I T Y D Q L K T F N K S I V A H C G S A Y G R E G P R E N W P G
UniRef90_E5WK26 P G V M K K L G L D Y E T V K R H K P A I V Y C S L T G Y G G N E D Y Q Y L G S
UniRef90_G4HZ43 P R V F E R F G L D H D A L R A V N P A L V H V R M P A F G L S G P L R D G L I G
UniRef90_W4LC18 P G A M E A L G L D Y T A L R V V N P Q L I M A S I T F F G Q Q T G P Y S T H A
UniRef90_W6W8T2 A G V M K R L G L G Y D A L R Q V K D D I V M V S V S S S G Q Q T G P D S H F A G
UniRef90_RODVL5 P G V M E R L G L G P T Q M H K V N P K L I Y G R M T G W G Q Q S P R A T Q A G
UniRef90_T1EF38 P N K L D E Y Q L G Y E D L K K V N S K I I Y C S I T G F G P S G P Y K H R G G
UniRef90_L0IYR2 P G A L E R A R L T V E D L R S F N P N L I I A R G T G T G V R G P D A N K G G
UniRef90_W4LWZ5 P G D T A D W G L A Y D T L S Q R Y P R L I Y C S I T G F G Q H G P L R R V K G
UniRef90_UPI000476377D P G T M V K Y G L D Y D S L A K V N P R V V Y A S H K G F L P G P Y E H R T A
UniRef90_W5WMF5 P G T M D K L G L G F D A A R E L N P A V V Y A S L S G F G S G A G R D L G G
UniRef90_MOQQ08 P A A R G K L G I T V D D T R A I N P D I V Y V A G S G F G S E G P D A E K G G
UniRef90_UPI0003803031 A G T M E K W G L G Y A D L A Q R F P R L I Y C R I S G F G S T G P L G G L P G
UniRef90_K8XE46 P G K L A A L G L G P D A C R L A N P D L V Y T S V T G F G N G G P L V D R A A
UniRef90_C7YTV5 P G V L E K L G L G P D E L C A L N P R L I Y G R M T G F R R D G K Y A L M A G
UniRef90_E8WNM9 W L D K L G I T E E M L F E V N P K L V I C H D V I C H D V I C D K P S
UniRef90_H5TE84 P G Q L I E S F G L G P S V I E K I R P S C L V R L S G Y G Q S G P Y K S K A A
UniRef90_B4W8K7 F K A R Q S M D L G H E A L L A K H R R L I Y A S M T G F G Q S V G D K D Q P P G
UniRef90_A1WQI9 P G V A Q R M G L G P A E V R A A N P S V I Y L S S G F G G S G P D A Q R P G
UniRef90_UPI000370CFD2 P V K L I E K H G L S P E T L R K T F P R L I I C A F S G F G L T G P D S A L P G
UniRef90_W4LP44 P E T I D K A K L S W E E L R E I N P R L I M L R M P A F A L D G P Y R N Y R A
UniRef90_X6J700 P G S L E K L G F A S A G L R R R F P R L I T C D S G F G E I G P Y S H L K A
UniRef90_A3TID7 P E S R E R L G V D V D A I R A R N P K I I Y A R G H G Y G S K G E Q I N R G G
UniRef90_B5WE00 S G V M D R L G L S E A M L R Q A N P G L I I A S A T G F G S S G P L R D S P G
UniRef90_A9IC18 D G V Q K K L G I D Y E R L A P A N P R L I H A S L T G F G L R G Q R C H S L P C
UniRef90_A4YXB0 P G A A A R A G F G S A A L R E K H P R L I T V D I S G Y G A G N A Y T D M K A
UniRef90_E7C3Y6 P G I M E R L K L D F D S L K K I K S P D L I Y C S I S G Y G Q F G S R S Q L V G
UniRef90_UPI00016C06F8 P G I M D K L G L G Y E D V K K I N P K I V Y G T V S S G Y G L D G P W V K R P G
UniRef90_R7BNE7 P G V T K R L G I D Y E T V R V L N P G I V Y A S L S A F G Q N D E R S L K A Y
UniRef90_D9WP85 P G R M A R W G L G Q E T L R A H N P R L I V L S S S L M G Q T G P H S A L A G
UniRef90_J2HE15 P G A L D R L G L S Y E T L A E A N P R L I Y C S E K G F L P G P Y E Q R T A
UniRef90_T0LKU9 P G V L I E K L G L G P E V L C G L N G L V Y G R M T G F R R D G G R Y K D M A G
UniRef90_Q9RB45 G G Q Y D R L S L S D E V I W S V N P K I A I V H V S G Y G Q V G P D S Y V T K
UniRef90_A0A059KQZ0 S G T M E R L G L G V E V L E R L N P R L I Q V S H K G F L P G P Y E H R T A
UniRef90_A3TZV5 P G A L A K L G L D S A T L R E R F P R L V T C D I T G Y G E D G P M R N A K A
UniRef90_UPI000371083F P G A M R L G L D E A A V R L R H P S V V H V E L T G Y A A D G P Y E G R A A
UniRef90_E3IWR6 P G H L D A L G V G P R D L R A G N P G L V V S V T G F G R T G P Y R S W A
UniRef90_A7EEQ3 P G V L I E K L G L S P D V L L Q L N P R L I L A R M T G F R R D G K Y K D M A G
UniRef90_F8K0K1 P G T M D K Y G L P A E A R L N P R L I Y C S V T G F G A G K G A A L P G
UniRef90_W3RJJ7 F P V R R K K T A Y E D L A P L N P R L I Y A S F T A Y G E T G P E A E K T G
UniRef90_UPI00046452BE P Q A R T K F G I D V D D I R A V N P A I V Y A R G S A L G P R G V I E A D R G G
UniRef90_W9AL38 P R V L D Q L G L D F D A V K A R D D I I M V R M P G F G L D G P W R D N P A
UniRef90_J4SHZ9 A G A M D R L G V G Y D A Q R Q H N P A I I Y A S V T G F G V L G P Y G T P T
UniRef90_UPI0002FA726C H G V A E R L G I G Y D D L V K I K P E I I Y A S V S A F G Y D G P W C S R R G
UniRef90_G4Q469 E Q S L R R N G L D Y E T L K D M F P A L I Y A H F S G Y G P K G P A A Q N P G
UniRef90_UPI000255B5FC P G A M A R L G L D Y E T L A R N P R L V Y C S I S A F G Q T G E K R L K P A
UniRef90_F0QSP2 P G V T K K L G I D Y E T L R G I N N R I V Y C S I N G Y G E Y G P Y S G L P N
UniRef90_M5R5J3 P G V M E R L R L S Y E N V Y A F N P S I V Y C S I S G Y G Q H S R Y A S F G S
UniRef90_F7UX11 P G Q Y E K W G L T D E V M W E A N P A L V I V H I S G F G Q T G D P R Y R T P S
UniRef90_W9AXZ8 A A G R Q W H S Y E A L T A H R P D L I H V I E L S G R A D G G T G
UniRef90_X5LDE6 P V Q R T K N K F D V E H L R A V N P D I I Y A R G S A Y G D K G P E R D T G G
UniRef90_UPI0003B37341 A T G L R M G I Q V S E M Q A R N P R L I V L R L P T G D L S G D W S Y T G
UniRef90_G7E5Y6 P G V L I E R L G L G P D V L L A A N P G L V V A R L T G Y R R T G E Y A K M A G
UniRef90_UPI000372E2BB P G Y M E S L G L G Y K D L S E S N P R L I M C S L T P F G Q T G P W R D F V T
UniRef90_UPI00036DBE13 P G L E R A G L T V D A L R A M N P N I I A R G S G Q G S Q T G P D R D K G G
UniRef90_B2AHB0 P G A M E R L G L G P G A C H A R N P R L V Y G R M T G W G Q T G P L S Q S A G

UniRef90_I0V7A2 Y D Q I A Q G E S G L M S L T G P S P 140 P Q K F G T P C D L L A G M Y G A
UniRef90_V9KV39 Y D S I A C A M S G L M H I T G S Q D G D P V R F G V A M T D L A T G L Y A
UniRef90_X6NX70 Y D V I V Q A A I G G L M E A L T G E A D G S P C K T G V A S T D V I T G L Y A H
UniRef90_UPI00037CDA81 T D A V I G Q A L S G L I A E A Y S E P G N N L R T G V A S V A D E S C A I L T F
UniRef90_F4L953 F D V V L Q A F C G M I S I T G E T E G G A V R S P F S P V D Q A T G L H A L
UniRef90_U2RMF2 Y D L L V Q A M G G L M S L T G A P E G E P S K V G V A L V D I L T G F Q N A L
UniRef90_UPI00037BB2F2 L D E V A Q A V M G G L A Y M T G P P G R P L R A G A S V I D I A G G M F A A I G
UniRef90_C0ZQH5 L D I A A Q A E S G L M S I T G E L G G N P L R V G T T I I D T A T A H V L A Q
UniRef90_A0A051TX62 W A L N I E Q V S G M S A A T G Y A E G P C N L Q G G P A D P I A G V H A C
UniRef90_V8QTD6 Y D L M V Q A G V G L M S A T G H P D D S T P V K A G S P L S D A L I S G V F A A
UniRef90_A3UEX9 Y D Y L M Q A E A G L M A M T G E P D A P P T R F G M S M I D Y M G G A M M A
UniRef90_A0A011K8M9 Y D D L I Q A L S G L A D L Q G R N K I E Y K P Y L N T V I A D K V T G I T A A
UniRef90_A0A059KKK6 L D E V V Q N M A G L T Y M T G P K G R P L R A G T S V N D I M G M F A A
UniRef90_F4R542 Y D V I A A A Q S G L M S I T G E P D R S P M K I G V A L S D L I T G T Y T S Y
UniRef90_M3UI30 Y D L L I Q A V G G L M S L T G P D P Q T P T K V G V A M V D V I T G L H A A
UniRef90_U5WRQ3 Y D M T A F W C R A G L M S A T I T P M T G M I N P P G P A Y G D T I S G T N L A
UniRef90_M5AL55 Y D D I M Q A L S G L A A S Q H S G D G G R P S Y I S S P V A D K T V G L M A A
UniRef90_D3CZ70 F D Y V I Q A A T G V A A A L T G D P D G P P T L P G Y S S A D N S A G L T A A L
UniRef90_M2V336 H E L N F L G A L S G F F A V P G C T D G V V T R P G L R A G D L V G S M Y A A
UniRef90_A9ALL8 H D L N Y V A L T G M L S L S A P C D G R P G L P P T V V G D A G G A L G L A F
UniRef90_UPI0002F82BA0 F D T A I Q A M G G M M S V T G E P S G P P L P T V T G F A D I Y T A V Y A S
UniRef90_Q18IQ3 Y D L L I Q G M S G L M E V T G E P N R Q P V K V G L P M T D L I T G M W A G
UniRef90_UPI0003B327B5 L D A I I Q A L S G T M F T S G D E N E P P I R L G L Q L G D M I A P L F A V
UniRef90_J9RF16 T E S V I F A M S G V L S R S G E P G R D P L L P P A G L V E Q S V G V H A A W
UniRef90_K6V6E2 Y D S T A F W A R S A F G T P G G A D R V S F M P A G A Y G D N I G M G M T A A
UniRef90_Q0K9Z4 V D T T M Q A F S G L M H L N R D S A G Q P R R I A F Y M V D L S T G L Y A A Q
UniRef90_F2LF84 L D E V V Q M M G G L A Y M T G A P D G R P L R A G T S V N D I M G M F G A
UniRef90_S9ZNE2 H D I N Y Q A V S G Y L A C T A P L D A D G I P A P A T I A D G A G G M H A A
UniRef90_UPI000372EFA4 H D I N Y V A V S G L L D E M T P D G E T P R I P P P L F A D V A G G G H A A L
UniRef90_D3CRI3 F D H D F W A R T G M A H A A S Q V S D E F V P Q G P A L G D L A S G A F L A
UniRef90_X8C6P7 Y D L L V Q A E A G L S V S T G N G D Q V A R T G I S I A D I A A G M F A Y
UniRef90_I1C578 H D I N Y L A T S G L L D M M G R Q G E N P Y Y P M N L L A D F A G G G L L C V
UniRef90_A8LFS8 Y D A G A Y W A R S G M Q Q I F T A P D A P W P A M P R P A F G D V V G G L S I
UniRef90_L1KW77 Y G P L V R A S T G L S D L W R Y P D D P D G H S D S I T I Y P D H V V G R V G
UniRef90_W8INI4 Q D L L V Q A R S G L T S V T G S R E S G P T P V G A A V V D Q H G G A L L A M
UniRef90_A0A031J1F8 Y D A T A F W A R G G F A H A L R P K G M I E P K P R P A L G D H L G M G V S V A
UniRef90_UPI0003B4F3BC Y D Y L M Q A E A G Y F S L T G E P S G P P A R F G L S I V D Y M S G L T M S
UniRef90_E5WK26 H D L N Y M A V S G A L S Q L K D R S G R P V H P S N T L A D F M G M A A S
UniRef90_G4HZ43 Y A Q T I E Q L S G I A W R T G Y P E G E P R S P R G P C D A L S A Y H A A
UniRef90_W4LC18 T D L V S M A M G G F M E L T G E G N G R P A R I T V P Q A A L H A G V I E A A V
UniRef90_W6W8T2 Y A P L F G A W G G L G F L S G Y S D G P P M E M R H V M D H S V G L N A A
UniRef90_RODVL5 H D L N Y I A L S G E L W S A S A P N D T P L T P P T L V G D I L H G G A L Y L V
UniRef90_T1EF38 Y D L I A T A L G L M Y I T G P E D G D P C R T G V A L T D L H T G Q Y A V S
UniRef90_L0IYR2 F D A A T Y L S R G G V S Y T M T P F G T E T P A V I Q G P G F G D L I Q G G I T L
UniRef90_W4LW25 Y E G V V A A K A G R M L N L Q G G P N R D G P V Y S A V N T G S W H S Q A A V
UniRef90_UPI000476377D L D E V V Q M M G G L A Y M T G R P G D P L R A G A S V N D I M G M F G A
UniRef90_W5WMF5 Y D L V V Q M M G G L M S I T G P S P D E P T K A G V A L I D V L T G L H L G M
UniRef90_MOQ008 Y D S T A F W A R G G S A F G T T P A G S D R V S F M P A G A Y G M T I A G G I
UniRef90_UPI0003803031 Y D A V A Q A M S G L M S V N G E A G G G P L R M G V P V I D I V T G M N A I
UniRef90_K8XE46 Y D T I G Q A L G G L Y S V M G D A D K P Q L S G T C I A D L I T G L V S A
UniRef90_C7YTV5 H D I N Y L A V S G V L G M L G R E G E K P H P P W N I L A D F A G G G A V L F
UniRef90_E8WNM9 Y D N I G Q A E G G Y T F L N G F P E P S P T F A A S F I N D Y L T A L F T A
UniRef90_H5TE84 F G S I G E A V I G I R Y L T G Y P K D S S V R T G V S I G D N I A G L Y G A F
UniRef90_B4W8K7 Y D A T S Y F A R S G T F D S L T P E G G A P P F A L P G Q G D Q M A V S L Y
UniRef90_A1WQI9 T D A I A Q T V S G L A V A N R A P D G T P A T A K P Y I A D V S C G L Y A A
UniRef90_UPI000370CFD2 Y D L I A Q A R S G L M S V T G A D G V P Q R V I S T A L S D V A A G T V I A A
UniRef90_W4LP44 F G L H V E A M V G H T H L R G Y P G Q S P E L L S E S L A S D G I A G V Q G A
UniRef90_X6J700 Y D L I V Q A E T G L C A L I T G N Q H G P A R V G V S V C D I S A G M T A H
UniRef90_A3TID7 F D L A A F W A R G G I G E A Y T S S A P D A Y P V P P A F G D V V I A G F A I A
UniRef90_B5WE00 Q D L L V Q A R T G L I A A T G H Y S S H P S P V G C A P V D Q H G A S L L A
UniRef90_A9IC18 Y D L I A E G Y S G V M D L T G E A Q N D P S Q K V G T P A A D L L A G Q D V A
UniRef90_A4YXB0 Y D L L V Q A E S G L A G I T G H P A G P G R V G V S V C D I A C G M A A H
UniRef90_E7C3Y6 H D L N Y Q A W S G L L A L A G D Y E G H R I V P A L I A D I A G G T H P A V L
UniRef90_UPI00016C06F8 Q D L M I Q S L S G L T L L A N G N Q D D L P T P I A L A M A D T Y A G H L V L Q
UniRef90_R7BNE7 H D L N M Q A L T G Y I S L A D D N A F P L S L V D L A A G M V T S
UniRef90_D9WP85 Y G S T G A S L S G F Q D L V G W P D D L P I G P F G P Y T D Y V G P R L A L V
UniRef90_J2HE15 L D E V A Q M M G G L A Y M T G P P G R P L R A G S S V I D V A G G M F G V
UniRef90_T0LKU9 H D I N Y L A V S G L I G L L G R E G E K I Q P P W N I L A D F A G G G A V L F
UniRef90_Q9RB45 A S Y D A V I G Q A F S G Y M S L N G P V R N E A L K I N P Y L S D F V C V L T T C
UniRef90_A0A059KQZ0 L D E V V Q M M G G L A Y M T G P P G R P L R A G S S V N D I M G G L F T A
UniRef90_A3TZV5 Y D L L V Q C E S G L A S V T G T P D G P G R V G V S V C D I A T G M T A H
UniRef90_UPI000371083F Y D D I I Q A Q T G L A E L F A R Q S G G A P M Y V P T L I A D R V T G L T A A
UniRef90_E3IWR6 T E A V I A G L G G V L S R S G R P G E A P L L P P D G L V E S T V A V L A A W
UniRef90_A7EEQ3 H D I N Y I A V S G A L S L L G R K H E K P L P P A N I L G D F A G G G A L F
UniRef90_F8K0K1 Y D L L Q A V I G G L M S V T G P P G Q P V K A G V A L V D V L T G L H A T
UniRef90_W3RJJ7 F D S T A F W A R S G L M D M V R P D G E A A P A R S T P G M G D H P S A M A L
UniRef90_UPI00046452BE Y D M T A F W C R G G V A G T V T P P G G M I S P P G P A F G D T I S G T N L A
UniRef90_W9AL38 F A Y I E D V S G L S P L I T G Y P D R T P V E P Y S V I G D P N A G V H A L
UniRef90_J4SHZ9 H G M L M T A L A G A N P V I R A D D G Y M H P V P P T M G G E A T A A A V H
UniRef90_UPI0002FA726C Y E V Q A Q A A G A Q V D F G W P D Q A A R L P Y E I N D Y G T G V L T
UniRef90_G4Q469 F D I T A F W L R A G A V A D W Q T K D S F P F V P T Y A F G D M A T S S V L L
UniRef90_UPI000255B5FC H D L S I Q A E S G T V F L N E G S N G E P C S P A M P V A D I A G S L M A L
UniRef90_F0QSP2 H D I N T V S V A G L L D P N L F S D G V P R P L T V Q V A D V G S A L L C V I
UniRef90_M5R5J3 H D L N Y M A L T G M L A Q F K D S E G R P V H P T I L T L A D F I G S I H A V E
UniRef90_F7UX11 F D P I A A F T G G M M F C N S P E G K A T P A N I L V A D Y S G Y L A A F
UniRef90_W9AXZ8 V D Y T V N A G L G F P L V I T G P A G L D V P V N H V L P A W D V A C G L Y A A
UniRef90_X5LDE6 F D G T A F W T R S G V G H T P E A I N G A L S Q G L P A F G D S I G M N I A
UniRef90_UPI0003B37341 F D Q T F D A L T S G L V I C G H R D S D L T S P A T T Y M D A T G P A A A
UniRef90_G7E5Y6 H D I N Y I A L S G V L S M L R P S Q G A P F P P A N L L G D F A G G G L M C V
UniRef90_UPI000372E2BB S D L T H L S M G C C G Y N E E D V A D P P P A G G G G A W H M G S H Y A Y
UniRef90_UPI00036DBE13 F D A S G Y A R A G V A A L T P D G S E F P A G G P A F G D L Q G G S T L A
UniRef90_B2AHB0 H D I N Y I A L T G L L S M A R E G S L P M V P P T V M G D A T G A L G L A

UniRef90_I0V7A2 Y G V L L A A L L E R D R T G Q G R V V R T S L L L A A G V G V H A F Q A T R W T V
UniRef90_V9KV39 H G A I M A G L L Q K E K T G K G L H I D C N L L S S Q V A C L T H I A A N Y L
UniRef90_X6NX70 G A I L A A L R S R D K N A T G A A Q Q V L V R A Q Q E Q N N N N N K Q L R Q R N G
UniRef90_UPI00037CDA81 G G I L A A Y I J N A Q K T R K G Q Q K L E T S L V G S A F R L L G W T M T T A M W
UniRef90_F4L953 I G I L L A A L R Q R D A S G R G V T V D A S L F D T A L G F M G Y F M Q G Y W A
UniRef90_U2RMF2 A G I L L A L R A R D E N G D G G S R V D V D L L G S L L A A L T N Q Q A S T L A
UniRef90_UPI00037BB2F2 L L A T L L A R T R G D G G S A S V R A S L F E T T A F M V G Q H M A Q M A V
UniRef90_C0ZQH5 A I L A A L L E R E R F D R V A P I E V S L L E V A H L Q S A E W I S H A L
UniRef90_A0A051TX62 V A L L A A L L H R R S T G E G Q L I E V A Q L E V G A A V T A E P V I E Y S L
UniRef90_V8QTD6 S G I L A A L L H R R R T G Q G Q S I D V S M A D C L F A L M F D E P V D C Y S
UniRef90_A3UEX9 L G L V S A V L G A K R T G R G G C D V D V S L Y D V A L N Q L S Y P A T W Y L N
UniRef90_A0A011K8M9 Y A I A M A L F E R E K T G L L G Q A I D V P M F E T M V S F N L M E H M A E A T
UniRef90_A0A059KKK6 I G V L A A L L Q E R A R T G R G Q Q E I Q S A L F E N C C L L A A Q H M M Q F Q M
UniRef90_F4R542 G I L V S L Y Q R D V N Q N R I G G Q Q K V E S S L F E S S L S V A N I G S S Y L
UniRef90_M3UI30 V G I L A A L L H R D R T G E G Q R V E V N L L S S L L S A L V N Q S S G Y A T
UniRef90_U5WRQ3 G G I A A A L L K R E R T G E P S V V D V S L L G S G F W S L G H T V A L T R H
UniRef90_M5AL55 F A L A A A L V G R E R N G V G V A I E V P M F E V M C S Y A L Q E R I G G S A
UniRef90_D3CZ70 A S I S V A L L A Q I V S G R G G Q L I E V S L R D V M L S Q L N Y R A S A Y L N
UniRef90_M2V336 L S I S V A L L A S V D K H G R G Q H I D I S L A E A T A W C A P F A L M I R D
UniRef90_A9ALL8 G I V C A L F D V R A G G P G R A V D G A I V D I V S M L G T L A L W A R F
UniRef90_UPI0002F82BA0 V G I L A A I Q G R R H R T G S G D A F V D Q S M Y D T V A S L L E R E L M L W D F
UniRef90_Q18IQ3 F G V M G A L L Y R R E L T G S G D G D Y I D L G M L D A T L P W L T K Q A G K V
UniRef90_UPI0003B327B5 T G V L A A V H Q R R H R T G L G Q H V D L V S M L G A L T S M I A S E P F D V M E
UniRef90_J9RF16 S A L L A A F Y D R I R T G S G Q L V D L S A F E A V V H G F D P G F G V Q G S A
UniRef90_K6V6E2 G G I L A A A L L Y G R A M T G E T S E L D V S L L A V G A W A T Q F T V N M L M
UniRef90_Q0K9Z4 H A S A A L Y K A A R N G R G R H V R L S L L E T S A A L Q S Y
UniRef90_F2LF84 I G A M A A L A Q R E T G R G Q Q E V Q S A L F E N N V F L V A Q H M M Q F A V
UniRef90_S9ZNE2 L S I L A A L L E R T H S G Q G K Y L D V S S M L D G M L N L M S L Y V D Q F L A
UniRef90_UPI000372EFA4 M G V L L A L A D K R T T A R G G C Y L D V S S M L D G V Y V S L L T P
UniRef90_D3CRI3 G G I A A A L L F R R E R T G R G A V V D V S L L S S G M W M F G P G V V A S Q L
UniRef90_X8C6P7 S G I L M A L L V R T T G R V A P V S V S L F E A L A E W M G Q P A Y Y A H Y
UniRef90_I1C578 M G I L M A L F E R V K S Q K G Q V I D A G L T A G T A Y V A T F F L M Q K Y G
UniRef90_A8LFS8 A G A V S A A L Y H R S T T G E P S T V D A S L L A S G M W Q V Q M D L M N A T
UniRef90_L1KW77 A A A V S A Q L A R L R R T G R G G T V G I A Q A E I I L D A L A E H L
UniRef90_W8INI4 G I L G A L V R K I R E G K G T R V I E G S A G I D L Q G E P L V N W F A G N I D
UniRef90_A0A031J1F8 Y G I A G A L F K R A M T G E A A V V D V S L L S T A V W A L S A D V V S Q T
UniRef90_UPI0003B4F3BC F G L V S A V L S A R S N G L A R D V D V N L F D T A M F N Q S Y M A A W T L N
UniRef90_E5WK26 E R I L A A L L S S R I S G N G S H H C I S I A E V M A S I M G N H L L I E
UniRef90_G4HZ43 F A V L L G I A Q R D E T G R G S A I E S A M L P A A L N A A A E L I V E Y T A
UniRef90_W4LC18 G M M L A H T W R E R T G E G Q H V D V S V H E C V V W T L M M A P G F L P C
UniRef90_W6W8T2 L A T M A A L H R R R N T G Q G G H I D V A A R E V A S S L V G E A L M A V S A
UniRef90_RODVL5 A G L L A G L L R A A Q T G V G T V V D A A I Y D G S A H M M N L L M A L R Q A
UniRef90_T1EF38 S I L A S L L Y R A N E R N T G I H I H C I L N T Q V A S L T H I A S N W L N
UniRef90_L0IYR2 A G G V C A A L F H R R E R T G P S V V D S S L L A Q A M W S I A P S I S V A D L
UniRef90_W4LWZ5 R G I M S A L R V R D R C G R G Q Q V V Q S I V Q N L A S P H D N N V G D G G L
UniRef90_UPI000476377D I G V L G A L I Q R G I T G R G M Q V Q S A I Y E N N V F L M G Q H M L Q F A L
UniRef90_W5WMF5 G I L A A L H H R D A N P D R G Q H I E I N L L S T A L S S L V N Q A S A Y L N
UniRef90_MOQQ08 A A A L Y A R A T T G E T S E I D V S L A L A V A W A T Q F T V N M A L M R G E
UniRef90_UPI0003803031 A I L L A L A E R T R S G K G Q V L S E A T L Y D G S L M H P L N Y H L
UniRef90_K8XE46 T G I L A A L V T R A Q T G S A P R I E T S M L I E A V S A L T V D A L T Q M Y D
UniRef90_C7YTV5 Q G V L M A L I A R H S G R G Q V V E A N M V D G S A Y L A T F P R M A L K T
UniRef90_E8WNM9 F G I S A Y A N V L R G K G Q V V D I A Q V E T Q A R I L D D A W T V W A N
UniRef90_H5TE84 G A L S A L T E V R T N P T D T S L R I V D V A L T E S I L S M L D G C I P E Y
UniRef90_B4W8K7 A A I V S G L Y H R E L T G E G G V G T S L L A N G L W S N A L L T Q A A L L
UniRef90_A1WQ19 N A V G A A L F A R E R S L E R L G A H L D L S L L A C M A A L Q N P L
UniRef90_UPI000370CFD2 F A V S S A L V K Q R T G E G E I V D I A L L E A D L A F M S P R I A S Y L A
UniRef90_W4LP44 V T V M M A L R H R D R T G E G Q L I E M P L T E G F L P V L G E F I M D Y T M
UniRef90_X6J700 S A I L Q A L Y H R K I T G E G T S I Q V S L F D A V A D W M S V P V L Q N D Y
UniRef90_A3TID7 S G I V G A L F K R E R T G E S S V V D V S L L N M A M W Q L A P D I V G A G
UniRef90_B5WE00 M G I L G A Y I H K L R T G E G S R V E S S L F N A G I D L Q M E A L A N Y S
UniRef90_A9IC18 M A V L E A Y V A R Q R T G R G A Q I E T D L F A G M A D W M N V P L L Y F E G
UniRef90_A4YXB0 A A V L E A L I G R Q T G R G S A I E T D L F A G M A D W M N V P L L Y F E G
UniRef90_E7C3Y6 N I L L A L R H R E R T G E G C Y L D I A M T D G L F P F M L S A L A N W V E
UniRef90_UPI00016C06F8 G I L A C I Y R R R K T G E G G R V S V S L L E S M L D L Q F E F I A T Y I N D
UniRef90_R7BNE7 Q S I M A A L L N R R A T G E G S Y I D I S M T D C F I W W Q S M L D S R W C F
UniRef90_D9WP85 A L L A A L E Q R E R T G R G A Y I D V S V E S G V F F L S P Y C A H Y A A D
UniRef90_J2HE15 I G I L A A L L E E R H R T G R G Q K V V A S L F E T T I Y L V G Q H M A Q F A V
UniRef90_T0LKU9 Q G V L M A L L A R E R N G G K Q V V E A N M V D G S A Y L A T F P R F A L K G
UniRef90_Q9RB45 W A M L A C Y V S T Q L T G K G E S V D V A Q Y E A L A R I M D G R M I Q Y A
UniRef90_A0A059KQZ0 I G V L A A L A Q R E R T G R G R Q V Q S A L F E N N V L M A Q H M M Q F A V
UniRef90_A3TZV5 A G I C E A L V I G R D R T G R G S G V S V A M F D V M A D W M S V P L L Y H D Y
UniRef90_UPI000371083F H A T L A A L Y R R R Q T G Q G E S V K V S M F E T V A A F V L G D H L G G A
UniRef90_E3IWR6 S A L V A Y A K R R T G V G I E V D L A A F A V H G F D P A F G T Q G T A
UniRef90_A7EEQ3 Q G I L L A L L A R E K S G K G Q V V E A N M V D G S A Y L V S F P R M L R K T
UniRef90_F8K0K1 V G V L A A L R H R D A T G E G Q H V E V N L T L L S S M V N Q S A G Y T L
UniRef90_W3RJJ7 Y G A I M T G L Y R R E K T G K G G L V A S S L V Q N G L W S N S Y S V I Q A A L
UniRef90_UPI00046452BE G G I A A A L V K R E R T G E P S I V D V S G S G V W S I G H S V A L S A Q Q G
UniRef90_W9AL38 N A L L V A L E H R R R T G Q A V L R V E A A M V D A A L N I A A E Q V I E Y S A
UniRef90_J4SHZ9 G A L R V A A A L F A R E R T G R G R H I A V I A Q A L A V I Y K L N D A R L
UniRef90_UPI0002FA726C A F G L S L A L L H R A R T G W G Q Q V N S A L G Y T A T L F Q S L R F A Q M A
UniRef90_G4Q469 S G I L M A L Y A K E K T G K G T K V M T S L F A N G I W C N A I G V V I Q F
UniRef90_UPI000255B5FC S G I L M A L V R S E T G K G D H L D I S M Q D S L A W L P N A V G P V F A
UniRef90_F0QSP2 G I L S L L L R G I G G R V I E V I S M M E T A L L F N T L N
UniRef90_M5R5J3 Q L I A A L Y A R E R T G K G R Y I D L S L V D G L L S M M T N H L V L E H H T
UniRef90_F7UX11 S A L A A H L R A R E T G K G D S I D V A Q Y E A M R S G G T A N N I S W N N
UniRef90_W9AXZ8 L A V T T A L R H R D G T G Q G Q R I S I P L E N V A L A T A G N L S F L T E V
UniRef90_X5LDE6 G G I L A A A L F H R E R T G E T A E I D V S L L S T A W A A G A S V T Q G M E
UniRef90_UPI0003B37341 F A A M A A L R Y R D Q T G R G Q L V E L A Q S E N V L N H L G D V Y V D Y Q L
UniRef90_G7E5Y6 L G I L L A L I E R T R S G Q G Q L V E A D M I T G T R Y V S S F P L M L S K M
UniRef90_UPI000372E2BB I G I M A A L N Y R S T G K G Q Y I D S S V H D A C A L T T E M H V M T Y V Y
UniRef90_UPI00036DBE13 G G I A A A L F H R E R T G E P D I V D G S L L A Q G M W A V A P D I V A A D H
UniRef90_B2AHB0 F G I T S A I L S A R A S G E G C V V D A I T D I V A M L G S L V Q V S R

UniRef90_I0V7A2
UniRef90_V9KV39
UniRef90_X6NX70
UniRef90_UPI00037CDA81
UniRef90_F4L953
UniRef90_U2RMF2
UniRef90_UPI00037BB2F2
UniRef90_C0ZQH5
UniRef90_A0A051TX62
UniRef90_V8QTD6
UniRef90_A3UEX9
UniRef90_A0A011K8M9
UniRef90_A0A059KKK6
UniRef90_F4R542
UniRef90_M3UI30
UniRef90_U5WRQ3
UniRef90_M5AL55
UniRef90_D3CZ70
UniRef90_M2V336
UniRef90_A9ALL8
UniRef90_UPI0002F28BA0
UniRef90_Q18IQ3
UniRef90_UPI0003B327B5
UniRef90_J9RF16
UniRef90_K6V6E2
UniRef90_Q0K9Z4
UniRef90_F2LF84
UniRef90_S9ZNE2
UniRef90_UPI000372EFA4
UniRef90_D3CRI3
UniRef90_X8C6P7
UniRef90_I1C578
UniRef90_A8LFS8
UniRef90_L1KW77
UniRef90_W8INI4
UniRef90_A0A031J1F8
UniRef90_UPI0003B4F3BC
UniRef90_E5WK26
UniRef90_G4HZ43
UniRef90_W4LC18
UniRef90_W6W8T2
UniRef90_RODVL5
UniRef90_T1EF38
UniRef90_L0IYR2
UniRef90_W4LWZ5
UniRef90_UPI000476377D
UniRef90_W5WMF5
UniRef90_MOQQ08
UniRef90_UPI0003803031
UniRef90_K8XE46
UniRef90_C7YTV5
UniRef90_E8WNM9
UniRef90_H5TE84
UniRef90_B4W8K7
UniRef90_A1WQI9
UniRef90_UPI000370CFD2
UniRef90_W4LP44
UniRef90_X6J700
UniRef90_A3TID7
UniRef90_B5WE00
UniRef90_A9IC18
UniRef90_A4YXB0
UniRef90_E7C3Y6
UniRef90_UPI00016C06F8
UniRef90_R7BNE7
UniRef90_D9WP85
UniRef90_J2HE15
UniRef90_T0LKU9
UniRef90_Q9RB45
UniRef90_A0A059KQZ0
UniRef90_A3TZV5
UniRef90_UPI000371083F
UniRef90_E3IWR6
UniRef90_A7EEQ3
UniRef90_F8K0K1
UniRef90_W3RJJ7
UniRef90_UPI00046452BE
UniRef90_W9AL38
UniRef90_J4SHZ9
UniRef90_UPI0002FA726C
UniRef90_G4Q469
UniRef90_UPI000255B5FC
UniRef90_F0QSP2
UniRef90_M5R5J3
UniRef90_F7UX11
UniRef90_W9AXZ8
UniRef90_X5LDE6
UniRef90_UPI0003B37341
UniRef90_G7E5Y6
UniRef90_UPI000372E2BB
UniRef90_UPI00036DBE13
UniRef90_B2AHB0

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

UniRef90_I0V7A2 R F C S G F G L D D A R F A T N A D R 260 V A H H T E L V E S L E R V F S T W K S D
UniRef90_V9KV39 I I C K L M S L P D P R Y Q T N K L R V V Q N R R E E L I D V L L S A R F V Q E K T I G
UniRef90_X6NX70 M D L Q D T L L T Q F K F Q T S N Q L R V V Q N R R E E L L R I L L T Q L C Q Q Q T L L A
UniRef90_UPI00037CDA81 W R E A M K A L N F Q H D D V L Q T S E F L E S E K K K T E E L L R I L L T Q L C Q Q Q T L L A
UniRef90_F4L953 R A F C P E L A S D P R F A T N A Q R V A N R A A Q T L A A T R A L L A A R S T R G
UniRef90_U2RMF2 A A F A E T I G T D D R F A T N E A R V G H R A A L R A L L A P A L L A Q R S A A
UniRef90_UPI00037BB2F2 K S F T A A F G R D P R F A T N N E R V L A R E T I V P 00037BB2F2 A L L A G R H S R A
UniRef90_C0ZQH5 L L C H P E M A D P P R F V D N E A R V A H R G E L L A A M S D A L L G D R T S S E
UniRef90_A0A051TX62 A I L D R S D L C G P R F A T A A A R R E N H N D D F D E V L T S W T C Q Q Q T L L A
UniRef90_V8QTD6 T L L K A M E R E D A N M M D L G W R J A H N D E V D R I V S A W T Q T R T K G
UniRef90_A3UEX9 G A F C K A I G R E D A Y A D M A A R R M N R E K L Q N E L D A F L S T R T T A
UniRef90_A0A011K8M9 L S G L I E H Y A K E E R F T N P A L R T G N I D E M Y S I L L S K K I K E K T T E
UniRef90_A0A059KKK6 R L C Q V L G R D D L R T D P Q M A T N A L R V E R R P E L V R T K I G E T L A S
UniRef90_F4R542 A A L V D A F G R D P L A D D P E R F R V A N R A G E L S R I V D A E L L A S D T A D
UniRef90_M3UI30 W A D V C R H A D D P R F A T V E T I S A N T A D A V E L L T K V I A T R T L A
UniRef90_U5WRQ3 A L I G K P E L L A D E R F E N V D S R R H S D E F F Q Y L D T V F V E G T T D
UniRef90_M5AL55 K K F S T E A G V T G F E T M A E R A A R R E E V L A V V T K A L A G T A E
UniRef90_D3CZ70 I E F R F P A L N T L R Y D D R W A E R T Q H K A E L R E L L V T T F G H T Y E
UniRef90_M2V336 A L L I E R A L G L T D V D P A S Q Y D R T R W P A L K A R F A E V F A Q H P S P
UniRef90_A9ALL8 R L C T A L D R P D L L S H P L L Q S V T Q R A E N F A E A E K W T A V T R T R R
UniRef90_UPI0002F82BA0 D L C D A I N R K D L L D D R F E T N A D R V N H I D E L E K E L E Q T F R T E
UniRef90_Q18IQ3 A I G S P E W M K G T P F Q N R E E R V A D S D T L H R L I E E W T K V R S S T
UniRef90_UPI0003B327B5 W L G E P E E F A D P V I Y D T P A R F A A D R D L H P L I E E M F A A H T R D E
UniRef90_J9RF16 W P E F C R A I G H D R F A T D A L I S Q N H A D A M D I F A V V I S T Q P L E
UniRef90_K6V6E2 V R L A T L L G F D D W L A D I T L I H T S A G R L P R A R V A Q A I A A Q P L S
UniRef90_Q0K9Z4 Q L F C D A F G F A D L K A D N N Q R V I Q A Q D W L L P R L R S H M E A L E A A
UniRef90_F2LF84 R N L C K K L L E L E Q F A D R Q Y D D S A R G E M R E A F R T R F L S R D R D
UniRef90_S9ZNE2 R R F V A T L G L D E S L L P A R H E P E S W P E L T A L F A Q R I S S R S L A
UniRef90_UPI000372EFA4 E T V D R T D L L T D P R F A T A A G R A E N D P A C I A V L D E I F A S R D L A
UniRef90_D3CRI3 Q R L C G Q V L T D S R F A T N S D R V A N R D L V E E I Q A A T A T M T A D
UniRef90_X8C6P7 A C L L D K L G F D E E H I P K Q H D K E D W P K M K Q K F Q D V F L T R T Q D
UniRef90_I1C578 W P G Q P A A A N D P R F V D M E A R R R A R R E C V E W L E G V F A E R S F D
UniRef90_A8LFS8 N R L C A V V G H E D L A A D P E G R R A G R R E I A E A L S S W T A S R S P R
UniRef90_L1KW77 D A V N S D A L R A L V S N D R Y E D R D A F A R A L A E A T A N F T M A
UniRef90_W8INI4 P A L C H N I G R A D Q D S R F A T D P A R A D N G A D I E E I Q A T I G S R D
UniRef90_UPI0003B4F3BC V L C K K I G R E D L S E D P R F E T F A C A R Q K N R D E I T E I M K K N T S D
UniRef90_E5WK26 I N F C K S A G R E D W I D S H F S R A S G N N P V Y L E M T E L F K S R T L K
UniRef90_G4HZ43 A A M C E V L G S R D P R L E R A A R R M H A A D S L D A A T A R A V R D R D I S
UniRef90_W4LC18 G R S M Q A L V N H M K A D D M A P P F M A E K D W D E A V L A F T R T R T K T K Q
UniRef90_W6W8T2 R A F L I Q D F Q M D P R F T D A A S R H A N R R I L D I V G T W C A K R N A D
UniRef90_RODVL5 I F L A K L G L G D D P D F L R Q S S D K T L W P E L T A R L S G R F A S H P R E
UniRef90_T1EF38 E L C E I L N L S H L P K D D K F S S N A N R K E L N D I F T K F A S Q T R Q
UniRef90_L0IYR2 W A G F C E R A T D E R F V P S S N L J A N A S E A C A L V G A A I A S Q D L E
UniRef90_W4LWZ5 H L K A I G L G H L L E D E R F K S V P A I S E E N R L R R E Q L E K T A D
UniRef90_UPI000476377D L A F C D A L D L A D L K A D N N Q R V A Q R S R I I P A I G A R V A D K R S V T
UniRef90_W5WMF5 A L C R C M D R E D P R F A T N S S R V M H R L D L V A E L E H T L G T K T S K
UniRef90_MOQQ08 W P E F C R A I G H D R F A T D E L I N R N H A E A F D I F A D I I G A E S L D
UniRef90_UPI0003803031 R V I G A E A L A T D P R F T N N A L R A R H A D A L R E A I E A A L A G L D G V
UniRef90_K8XE46 R S L T D A I E R P D L R D D Y P A R V I Q H Y G E L V P I V Q E T F F T R T A E
UniRef90_C7YTV5 A A I K G L D L E G Q G W E A K R H D T S L W S E L E R L M G E K F K S R A
UniRef90_E8WNM9 S R F I N A L G L D L E Y F N Y D A A G A T K Q E L R H K T E W I E S R T A Q
UniRef90_H5TE84 I N L C S V M A S D P R F I T N S K R V E Y M S L L D T E I K Q W T K Q R T S N
UniRef90_B4W8K7 W G P L C A A I E R D R F L T N P D R R A H S A D L V A L L D E V F A S K P L E
UniRef90_A1WQI9 A I G E V I G R P A W R S D P R M A T A A N R G E I D A A L K A A L S T R T N S
UniRef90_UPI000370CFD2 R R A C H Q L G Q R E D L R T N A G R A N R D E V L G L F Q D R L Q T M S S E
UniRef90_W4LP44 A L C Q V L E A Q N L T A D P R F G S A Q M R R E H V E A L D E A L R T L T R E
UniRef90_X6J700 V N F C E K F L K Q P G F A D N M E R L G H R V Q L D E I I E R R F S E L S C H
UniRef90_A3TID7 R M V R E D L I N D E R Y S D Q K V R F V N R K D C I I E I R K A F G A H P L A
UniRef90_B5WE00 A R A L D S E E L M A I Y A S I L D R H L E R D R Y A A S T A Q V L A S R T Y A
UniRef90_A9IC18 R R F W P E V G E N P Y A S N A D R R A H R D E I V E K I A G I L C S R P R D
UniRef90_A4YXB0 R N F C R V V M E H P H Y T S N N A R V A N R A E V D G H V G S V F A T M T R D
UniRef90_E7C3Y6 Q R F T E L T J E L Y P K D L R S Q E A D Y L V Q T I K H I L T S E K S A A
UniRef90_UPI00016C06F8 L G E I L D I P A L T A D Y A D D A S A F A Q R D K I K Q L I Q A T L T Q D T T E
UniRef90_R7BNE7 V P F V H D A G I P E L E D C C L K R R W Q D P W A F E V M E K L V S S K T L A
UniRef90_D9WP85 R R L A H A T G R P A L A T A D G R R A R E A E L D A H L A A W T A G R T A E
UniRef90_J2HE15 K F C A L F E L D A L W A D T N N Q R V L A R E R I L P Q V R Q L V A S M T R D
UniRef90_T0LKU9 R A L V I Q G L E L D R T W E E R R F D R D N W P E L R E L L T R T F K S R T R T
UniRef90_Q9RB45 K R G F P V I G F P E G F T G W M I N T P V I G Q R M E K A M E A F V A E F T M P
UniRef90_A0A059KQZ0 A L L C E A F G W R D L K D D N N D R V R A R E W L L P L R E R F G F A A
UniRef90_A3TZV5 Q R F C E H I L L S D P R F H D N T S R L N N K P A L E A L I K A E F A A H E R A
UniRef90_UPI000371083F A F F A A I G D L A A F E A D A R A R A E N Y D A I Y G Y L A G V L A T R T S A
UniRef90_E3IWR6 W L G E P P E F A D P R F D T P A R A F R A D R L G P R I A A L F R D R P C A
UniRef90_A7EEQ3 K E L I K G L G L E G T I E K T R E D R K T W P E M R K T F T R L F K A K I R S
UniRef90_F8K0K1 A L C R P H L A T D P R F S T N S G R V A H C G R L A A L L G E R L R Q T T A
UniRef90_W3RJJ7 Y A P F M T G D L V E R Y A V Q A D R Q K H S P E L V E I F D K L F A K K T L E
UniRef90_UPI00046452BE W A D V C R H A D D P R F A D A K I A E N T A E A V A V L R E V I K K R T L A
UniRef90_W9AL38 Q A L R S A L G A P D W A C D P E G R R A A H D A L D E R L A A W C R A R T G D
UniRef90_J4SHZ9 A N F C E A I D R P D L I A S T A S A S G V D F G K D E T T E V F A R D Q R
UniRef90_UPI0002FA726C L D R E S L W R L Q Q I L D L P S L G T L S D T G Q Q E L L T C T F I K Q P L D
UniRef90_G4Q469 K E K F A K L L G L E D I T D D P R Y K D V E T L Q R E R C N R I F L T R T S K
UniRef90_UPI000255B5FC E N L F A K L G R P L E L A E I C K R A P G E Q S E A I A Y L Q A E F A R R T L A
UniRef90_F0QSP2 G L C R A L N R E D L I N R Q F D K E A I S E L S K E L S K Y T A A
UniRef90_M5R5J3 R N F C D A V G K F E W Y E G H L S A A C D D N P L F L D M K Q L F R T K T F Q
UniRef90_F7UX11 K H A C E L F G L D Y G S D L F P A K S P K F D A M E Q A M V E Y C A S R H T A Q
UniRef90_W9AXZ8 R D L A E V T G N A E D F A D E E Q R Y R H R D A L T G L F T P W F S A H T A E
UniRef90_X5LDE6 H L G L P E L A D D P R F S D V L P L T E N A S E G V L I A K A I G S K P F E
UniRef90_UPI0003B37341 G R L A A V I G H D G R F A D L E T R Q R N H D E L D A L I G A W A E Q E V T
UniRef90_G7E5Y6 E E F L I Q P S N Y R Y P S P A T Q H D R S T W P E L R T F F T A F A T R T R D
UniRef90_UPI000372E2BB G Y D M A D D L L E E K Y Q D P Q V I R D N A Q H I H G L F V K F V A S R T Q D
UniRef90_UPI00036DBE13 W A G F C D R A T D E R F T P I A N L V N A K D I A T A E L R A L F A E R D L A
UniRef90_B2AHB0 R E L L I E R L A L T D I D P A A Q Y D R A Q W P A V K A R I A A T I A S Q P S T

UniRef90_I0V7A2 D L L T R L A E L G V P A G R V R T L D Q V Y D W E Q T R S Q G L L V N V E H V
UniRef90_V9KV39 D W L Q L F E G N G V P C G P I N T M E Q Q L L D S E H N V I H N D L I L E M E H P
UniRef90_X6NX70 E W L D R F S H F N I L S T G P I N T M E Q Q L L D S E H N V I H N D L I L E M E H P
UniRef90_UPI00037CDA81 N W I S L L R K A D M I P S H T V I N T M L E A S D D P E N N I K S R N D Y V Q S V E H P
UniRef90_F4L953 E W L P A L J E Q A R G I P C S P I H T L V I E V D A F H P H T R E S G M V F D Y P E T P
UniRef90_U2RMF2 D W V E A F G R A R V P A G L V I N S R L A E A F A F A D A L G L S G P V V E T R D P
UniRef90_UPI00037BB2F2 E L L D R L E R A G V A F A P I R A R P Q D L F D D P E H L N A S G G L V D L D G R
UniRef90_C0ZQH5 E C V Q L L A G N G V V V G A V I R D Y D Q V R R S E D V I A S E I F A K G E A P
UniRef90_A0A051TX62 E V V A T F G R R G V P A N S R L T A D Q M Y D V E Q Q L H A R G F Y Q Q L D H G P
UniRef90_V8QTD6 E L L E L L N A L K I P A E R V L R T V A E V M S W E Q Q L D H A R D M V Q P L W N P
UniRef90_A3UEX9 A W M A R L G G V A P A A P V V N S M S C A L G A P E A R S R L E T V S H P
UniRef90_A0A011K8M9 E W M T L L K D A D I P M A K V I N T V E S L L D D E H L L K H I G F F H P T E G N
UniRef90_A0A059KKK6 V Q A E R L E A A G I P Y A P V V R P D Q L V E H H L L I A S G G L V D M D S T E
UniRef90_F4R542 E W L K K F K T S G L P H S K I N S I Q E G F D E S Q S F E R E M I V E I D C E
UniRef90_M3UI30 Q W Y S V L T E R G V P C G P L N D L A D A F A L A E R L G L Q P V T T I A D G Q L
UniRef90_U5WRQ3 E W S E R F A T L A G P W A G P V R T D Q T L Q A A D D A Q I R A N E Y L V R A G Q L
UniRef90_M5AL55 E W L E R L V G A R I P A G R V V N T L D D L L D D E H L R S V D F F Q E I E H P
UniRef90_D3CZ70 G W E S R L R R L G V P A A R V R T L P E A L E A T P D M V V R A G D F E
UniRef90_M2V336 W W E K S L R T L I N A P A A P V F T D G Q L M S D P H V I A R N L F S E V A T E
UniRef90_A9ALL8 H W R A L L J E G T D A C F A P V L S V A D A A D H P H N V A R N L Y T D R D G N
UniRef90_UPI0002F82BA0 E L V E A F A A V G L P A G E I Q T I D E D L Y D C Q H L L Q A R N M F I S I D D
UniRef90_Q18IQ3 Q T T E E W M A A G L P A G P V M D V E D A L T N E Q T Q A R E T V Q Y I D H P
UniRef90_UPI0003B327B5 E I L N A L S D H N V P A A I V R T P T E A L R D P I V R D R S D V V P L A H P
UniRef90_J9RF16 E L V A E G A A R G I P I G G V L R I G E V L D N E A H F S A A G T L I D A E
UniRef90_K6V6E2 H W R A A L K D I R G Q W A V V Q R D S W E I G N D E A L I A N G R I T E V L D A
UniRef90_Q0K9Z4 H W E A L L T E H D V L F A R V G H A R D L P Q S A Q C A Q A G V F G R L P G E
UniRef90_F2LF84 E L S A I F E R I G L P Y A P I T R P H E L F D D P H L L R A T G G L A E V S G A
UniRef90_S9ZNE2 Q W V A L L A A A D T C I A P V L S V A E V C S D P H L L R A Q N F T S A L H P
UniRef90_UPI000372EFA4 D W E H V F S G V D A C V T P V L T S E S Q S E P Q I A S R E L L K E E D G P
UniRef90_D3CRI3 E W I S L L J E K I A T P W S L V Q T A R E A A D D P Q V V R A N N F V T T V Q K D
UniRef90_X8C6P7 E L A G R L E T A G I A Y G H L T G V E S L W S H P V L L G R D R W G Q I L T P
UniRef90_I1C578 E W I A I F A G S D A C V T P V L S F K D N T A
UniRef90_A8LFS8 E W R A L L Q A E F D G E W A P S Q Y P H E L A E D D P Q V L K A N G L F A D E V D L G
UniRef90_L1KW77 E V T D L L Q A C G V P A A P M L R V H E L L T D D P Q Q L T A R G F F A D E L R Q P
UniRef90_W8INI4 E L E E R F D A K N V W W A P I K Y Y D E L L D D P Q Q I V H S Q V F R E V N V R
UniRef90_A0A031J1F8 D W L E W K P V J F D A W A P W R T I H E V A V D P Q Q V E A N G L L F D V A R V I
UniRef90_UPI0003B4F3BC W L I E F G G I V P A P I L D L K Q S L K N P F L Q D R Q N I L Y H L E D I
UniRef90_E5WK26 E W T E F G Q R V D C C L T P V L E T G E L K D F Q L F K E I Y E Q D G N
UniRef90_G4HZ43 D L V A Q L V S H G V P A G Q V R D P R L M T D H P Q L Q R D R G Y Y E T S E H P
UniRef90_W4LC18 E L Y D M A L Q D E I L L A P V S N V A D L C T N A Q Q L Q R G Y F V P V A H P
UniRef90_W6W8T2 D T A A L L Q S V G V P A H V S W N T H D L V Q D P H L K A R G A L V Q V D G S
UniRef90_RODVL5 Y W A D M F N D C A D C V T A V L S P A E A A Q D A M N S R K T W L T Q H G H
UniRef90_T1EF38 F W V E Y F K Q A E F P Y G P I N S L K E A F Q D P Q V V C H N H M I Q A M D H S
UniRef90_L0IYR2 H W R K A L A D E P G V W A P L A T P K E T L N D P Q V A P N G L T I P V D D K
UniRef90_W4LWZ5 E W M E I Y Q D G N I A A E P Y R N S I Q A M D H P A V L A N G T V V T I Q D P
UniRef90_UPI000476377D Q L J A Q A M E R A G L P Y A P I H K P A D L Y D D P H L L A T G G L A D I T V
UniRef90_W5WMF5 E W F A L L R E A G V P A G P V N N V A D A F A F A E A E G L A P I V D I D G E
UniRef90_MOQQ08 H W R T A L A H I R G Q W A I V Q S D S W D L G N D A A L L A N G R M L A E V T D D R
UniRef90_UPI0003803031 S L J A E Q L M A E G V P C G V V S D T A G A C H P H T E H R G M T V R I G E Y
UniRef90_K8XE46 Q W E K V L T D A D P F A P V L G M S E F A T H P Q T E Y L E L L E P Q D D G
UniRef90_C7YTV5 E W E V I F D G T D A C C T P V L L E Y S E L E S D P K R E G R P T V T L R E T P
UniRef90_E8WNM9 E C Y E Q L T K F K V P C G I A K T T Q E I H S D P H W Q S R G N F I K V D Q T
UniRef90_H5TE84 E L I N I L E K S N I P C S K I F T V E D I V N D P Q Y K S R M A I Q L V R D V
UniRef90_B4W8K7 H W Y Q A L K R H V I F G A I S R M Q D V A Q D A Q V R E A G L V R E T D N P
UniRef90_A1WQI9 Q W V A A F A R D I I G G E V R H A T Q L L D D A Q V R H L G L L Q P M D P S
UniRef90_UPI000370CFD2 T A L K T L Q S V G V P C S K I N S L S E V V S D P Q V E A R K A I V S Y E H P
UniRef90_W4LP44 H D K E Q L F A V G V C A A P V R T A V E V L E D P Q L N R A R G F F E E K H Y
UniRef90_X6J700 E A M Q E L E A A A L A Y G R L N E L V D V S R H P H I R R V Q V G T P E G I V
UniRef90_A3TID7 H W Q E K F A D F D G V W D V V Q S A L D V H S D P Q A Q V N G Y L P R L T D F
UniRef90_B5WE00 Q A A S R F D E F S I W Y A P V N T Y D E L L E D P Q A Q H N Q V F E E S N A T
UniRef90_A9IC18 E W L E L L G E N R I P A G P V N R L D E V A R D E D Q L L D Q R F L V Q A Q A
UniRef90_A4YXB0 Q A A K L R E A G T A Y G F V N S V A E L A H H P A L R R V G I D T P H G A A
UniRef90_E7C3Y6 Y W E A L F D G E D T C C T V V R N L T D V L L D P D V Q V R Q R V V S G Q
UniRef90_UPI00016C06F8 N W L A K L K S K N Y W A S E V L N W K E L I D R P G F K S L D M L V H V G R P
UniRef90_R7BNE7 E W E W L A D K E Y S I S S V P T K T E A I E E S H M L A F V D F P D V G R V
UniRef90_D9WP85 E A E S V L Q A A G V P A H L S A S S A D L C A D D P A L L H R G H L V R L P H P
UniRef90_J2HE15 E I V A K L E G T G L P F A P I G R P E D M F D P Q L A E G G L R D T G E T
UniRef90_T0LKU9 E W E K V F D G T D A C T T P V L E Y A E L E T E P E R E G R P V V T L V E T P
UniRef90_Q9RB45 E V I E K A M I D A Q I P C Q R V I D L E D C L N D A H H W N A R T G T I M E W D D P
UniRef90_A0A059KQZ0 E L S A R F E R I G L P Y A P I V R P H E L F D D A H H N A G T G G L Q P V E T R
UniRef90_A3TZV5 G M L K R L D A A G I A S G A V N D V A T L S A H P Q L D R S A I A T P S G E I
UniRef90_UPI000371083F D W L A L A A A D I P C S P V N R V E D L L D D P H L R A I G F F E E D T G G
UniRef90_E3IWR6 E L V A E G A R G V P V S A V L T P A Q V L A T E Q F A V T G A L V D V E R A
UniRef90_A7EEQ3 E W E A I F D G T D A C C T P V L D Y D E L I E N D P S R E G R P M V T L R K T P
UniRef90_F8K0K1 E W F E L L T P L G V P C G P V N D L A D A F A L A E R L G L D P L V R L D G P
UniRef90_W3RJJ7 E W R T L L D A A G I T F G L V N T L D D L R H D E Q A R Y A G A I V P F A D G
UniRef90_UPI00046452BE E W T E R F A T L A G P W A P V Q D S Q Q L L A D A Q I T R A N E Y L L R A G E L
UniRef90_W9AL38 Q L V D L L W P A G V P V A K V M Q P H R Q T E D P Q L R H R S F F E H V G H P
UniRef90_J4SHZ9 E W V Q L L A A T H R F P L G P A P T T H E M A E D P H H L R A R S I L V E D E H P
UniRef90_UPI0002FA726C F W V S K L D A C D P G I H R L V T V Q E L M S D P W V V Q H G L S L T R E H K
UniRef90_G4Q469 Q W R E Y L S E H S I V S C E I M M E S Q E V S Q D R Q A I E N R Y M V P V E T V
UniRef90_UPI000255B5FC E W E T W F D G L D V C W S P V R L Q H E A L D E P H L K S R E M V F E D E G N
UniRef90_F0QSP2 E A L R L L W S Y D V P A P I N S I K D F E K D P Q L T A R G F N G K
UniRef90_M5R5J3 Q W I A F S E Q V D C C L T P V L N E T D E V K T Q F A N N A Y R K M I H I D N D
UniRef90_F7UX11 E V E D T F N R V G I P C S Q L N D Y T M L V D H P H V Q A R E S L L T Y Q T P
UniRef90_W9AXZ8 Q I T A T L S G T S I L W E R Y R S F A E A A D P K V T D N P L F S T L D Q P
UniRef90_X5LDE6 Y W R H L K T M K G Q W A P F Q S L V D L A T D D Q A V A N D M L V E V E A G
UniRef90_UPI0003B37341 A A F H L L Q G A G V A A P L M D D T M F C T D P H I Q A R G W M R P L D V G
UniRef90_G7E5Y6 E W T S V F M G T D A C V A P V L E K E E V S R H E E A Y G R D M Q E E E D G
UniRef90_UPI000372E2BB E I Y H G G Q E R G F A W G A I R T P D D L I N D G H L Q D R G F W T D V V H P
UniRef90_UPI00036DBE13 E W S K L L A D E P G V W A S L A T P R E V L D D P Q V Q A A N G Y L L T A A D D
UniRef90_B2AHB0 H W E S V L G T D V C F A R V L T L D E A A R H P H N Q A R G T Y R L Y R Q G

UniRef90_I0V7A2 T L A G P P L R F S D T E G R H T A P P V L N A H R D R V R A W L
UniRef90_V9KV39 T V P G P A V R F S D F K V S R P P P P L I G Q H T V E V L K T V L G
UniRef90_X6NX70 V Q Y T P K G H T Q R T P Q I R L P P P V L G E H S L E V L E R V L G
UniRef90_UPI00037CDA81 E V H G T P K W F S K T P A N I K R A P K L L G E H N N E I L S G L
UniRef90_F4L953 G G V A Q P V R F D G M R T T P K R P P S L N Q D W A S V L L A D
UniRef90_U2RMF2 R Q P A T P I R L D T A P A L H R R P P P L L G E H D
UniRef90_UPI00037BB2F2 A L R L P A L P L D G R T P G V I R R D L P H P G E D G E D V L R D F
UniRef90_C0ZQH5 D G T M P Y Q L G D K H D D A V R R V P H L G E H S A E I A A
UniRef90_A0A051TX62 R H R F P G W P F R I S P G P R T A A P T L G G E H S R S E V L A A L L G G
UniRef90_V8QTD6 R G P G F P I K F S H T K A V Y D P A P R P P G E H S R D I L K R L L G G
UniRef90_A3UEX9 D K P R D P V R I N G Q N A P S Y R A P K L G E D T R D I L D E M L
UniRef90_A0A011K8M9 I R L T D T P K F S R T P G S Y R L P P N L N K D A E L I
UniRef90_A0A059KKK6 S Q V V L L P L L L G G R R P G V R M P A I G E H T Q E V L G
UniRef90_F4R542 M L I G I P I K L S E T P G Q I Q A P P E L G Q H N Q E L L
UniRef90_M3UI30 E R P D P P I R L S R T P P T Y R A P P R L G
UniRef90_U5WRQ3 E L V A N P V I Q F D V T A P H T G P A P G F A E Q T D E L L L E L
UniRef90_M5AL55 I R P R S G V R F D G L A H D L S P A P S L G E H T M E V L
UniRef90_D3CZ70 R L V A N P I R I A G H E P D Y G P P P R L G E H G D
UniRef90_M2V336 P Q M R F P A Q F S L G L N S F R L P P Y V G E H T E S V L D E
UniRef90_A9ALL8 L R A R V A P R F
UniRef90_UPI0002F82BA0 Q F A G K H R M L R T P P R P D S A P K L G G S N A E L L
UniRef90_Q18IQ3 Y G E L P V I E H M P A E T G F E G A P I P E L G E H N R E A F R Q L
UniRef90_UPI0003B327B5 Q L P G I P L I T F D G E A P L F R S A A R L G A D T G K V L L A E F
UniRef90_J9RFI6 E G V A N P V K F D N T S V D V T R A P A F A E H T D E V L R E L
UniRef90_K6V6E2 V P W A N L P G M A G S E R P A G N A P A L G Q H T E A V L A E F
UniRef90_Q0K9Z4 G Q P V A P L T L D G E R L R L R A P P A L G Q H T Q A L L Q
UniRef90_F2LF84 Q R G A G S A R D T P Q H V V A A P E H T D E L L R
UniRef90_S9ZNE2 L L P V I P A L R
UniRef90_UPI000372EFA4 T L V A S P A T L G G V A P A L A P A P G H G E H T D Q V L L E
UniRef90_D3CRI3 G G T I P P T L L G G V I E P V L G N V P A L G G H A I L Q E L
UniRef90_X8C6P7 A F P Q P A P A L S R T P A K R A T Y S Q P G K H S I D I L K E F
UniRef90_I1C578 P L V A T P V Q F D Q R P S Q P S R A P E H G E H T E S V L L D L L G
UniRef90_A8LFS8 T L P L P A P A H S R A D P P Q R P A P L P A E H T R E L S R E L L G
UniRef90_L1KW77 G R K I R L V R Y D G K V P D L R L J A L E I G E H T N E I L V E
UniRef90_W8INI4 R L A A G P V G F D G R P A T P V R A P L L G A D T Q D E L L L D
UniRef90_A0A031J1F8 S L L K T P V H I L S D S Q F E D T T A P E L G A D T Q N V L Q E V
UniRef90_UPI0003B4F3BC Y P L V K M G G I D S A L T G P P K L G E H N E E V L S N I A G
UniRef90_E5WK26 V V P A L P F R Y D D D R W S T P G R A P L F G E H N H I V L R S V L G
UniRef90_G4HZ43 E L P G A F G K F S R T P C R P P R A P R C G E H N R Q V L Q A V L G
UniRef90_W4LC18 R A A V I G F P R F S D A P S I E R G T P E L G E H E A Y V Y G E L L G
UniRef90_W6W8T2 L Q A A P A P R F D G K T R P A L G T S P Y R D Q R R A H I L A D L L
UniRef90_RODVL5 K V I A P P V Q Y D D V R L A L Q P P P L L G E H T D E V L R Q L L
UniRef90_T1EF38 G V A A P V Q F N E T P P G P A R A P E H G Q H T E E I
UniRef90_L0IYR2 R V G A P L V D L K D T P G A P G P A P D V G Q H N A D V L G R L
UniRef90_W4LWZ5 K A P L L P F T L D G S R L E V R D P P K V G E H T L D L L K
UniRef90_UPI000476377D K S V R N P I S F S E T P V E Y R T P P Q P
UniRef90_W5WMF5 R L V A N P V K F D N A K T A L T R A P G F A E H T D E V L R E L
UniRef90_MOQQ08 T G T A A P V T L S R S P S Y S R R P P P F A E H T L E I L R
UniRef90_UPI0003803031 P S L L R A P R F D G R P N R T G S A P R V G E H T R T V V A E V
UniRef90_K8XE46 C L A V R A A K F G Q G P G V P G E A P T P G E G D T L R G W M G
UniRef90_C7YTV5 L E K G F V P K L S G T P Q Q V W R G P R L G Q D D A I L T D L L G
UniRef90_E8WNM9 L Q T A P M P F F S D N G S V R W A G P T I G H H N K E V L S A L L G
UniRef90_H5TE84 N M P M T V L G F S A R P R A M A A P S L G Q H T D E I L S E
UniRef90_B4W8K7 L P P L P G V A L P G I D A T V P R A P R L G E H T Q E I L R E L
UniRef90_A1WQI9 V G V G T P W R L A S D P Q S R S P A P L R G E H G R T V L G E
UniRef90_UPI000370CFD2 R Y P G L M F R M A R T P N T L Q T G P A L G E H N R E I Y L D L L G
UniRef90_W4LP44 Q T I A P A A I F N S E R P S L R P V P A L G D H T E A V R E E V L G
UniRef90_X6J700 A V V D S P V Q F D E R P N A S R R A P E H G E H T D E V L Q E L
UniRef90_A3TID7 L V R H P V S Y N G I K P G M R F V A L S C G E H T E Q V L Q E L
UniRef90_B5WE00 G G L I P Q V G L G Q T A V H R K P P V L L G E D T D M I L S G M L
UniRef90_A9IC18 S I I A P P A L R D G V L P A L G R V P D I G E H S A D L R A E F
UniRef90_A4YXB0 T T A T D L L A I P R D P L S A S A P S I G G H N
UniRef90_E7C3Y6 I T T R C P I R I D G E Y K S N K W A P A L G E D T E K I M Q E F
UniRef90_UPI00016C06F8 L Q T N I P H G I S S L P T N I K E A S R L G Q D T E E V L Y E L L G
UniRef90_R7BNE7 V H G G P R A A L S L T P G S V R R A P T L G G H T A Y V L R D L L G
UniRef90_D9WP85 R L P T I P L Q M G G R P G A P V A L P T P G A D S R A V L T A L L G
UniRef90_J2HE15 C L A V E E P R R G Q G P G V P G R G L A P G D G A E S V L S D W F G
UniRef90_T0LKU9 M M G G L T N K F K N N P S E I W R A P L F G M D N R Q I I R D L
UniRef90_Q9RB45 L P L L P L T L D G Q R L P L H A P A I G E H G Q A L R E L L
UniRef90_A0A059KQZ0 N P L P P L T R R S G G E A T L G P C P A F D A E G K A L R A E F
UniRef90_A3TZV5 A A H G T A A R F R S P A A S T A A P E L G A H T A Q
UniRef90_UPI000371083F R I P S G Y V R V D G R A G F R R R A P L P G E H D D L V
UniRef90_E3IWR6 S L A M S T P S I G Q G P G V T G K P L Y P G E G G E K T L N Q W L G
UniRef90_A7EEQ3 G L V A N P I G L S R T P P R Y R R P P L G E H S E T D D L T A W L
UniRef90_F8K0K1 S G E T V S P S F S E T K R P P G K A P N V G E H S E Q I L R E Y
UniRef90_W3RJ7 E L V S S P V Q F D V G A P E L R P G P E F A A Q T E E V L L E L
UniRef90_UPI00046452BE V N V A A P V K L V D G P T T F H R A P L L G E H N H E V L T A L
UniRef90_W9AL38 T Y V G S A A I I D G Q P F R V R R P P A L G Q H T A Q V L G E F
UniRef90_J4SHZ9 D I G M P V I A R L S R T P L V A G H P A P P G S D H A A V M Q A L
UniRef90_UPI0002FA726C M M P T P P L A F S R Y A C R T Y K P T R I G E D N T E E I L K E
UniRef90_G4Q469 R H L G V P I K F L E E P A K V I T R L P E L G E H N K S L L
UniRef90_UPI000255B5FC D F L N P L L I N G I R P G M R G R A P K L G E N T M E L L I E
UniRef90_F0QSP2 R M E V A T R Y D E H F F T K R T R A P K V N E H
UniRef90_M5R5J3 T T Y N V F P R L K N N P G Q V W R G P S I G M D N E D I L F E V
UniRef90_F7UX11 R I P G L P I A V D G V Y P R A V P A P A L G D H T A Q V L A E A L G
UniRef90_W9AXZ8 D G G K P P V Q F N H E P L E T T R A P Q A S E H T E V L M E L L
UniRef90_X5LDE6 T H P K P S Q P Y R G V P Q A W R G P A L G E D N E I V Y K D L L G
UniRef90_UPI0003B37341 T I P E P S P I L S R T P A R Q A R G Q E P G R D T R E V L
UniRef90_G7E5Y6 E L P G S A G I L Y N G S P W N I R R A P L T G E H N E E I F C T E L G
UniRef90_UPI000372E2BB D G I A A P L I F N N T A P E G A R A P E Y G E H T E S I L L E L
UniRef90_UPI00036DBE13 E R E V P A P R F
UniRef90_B2AHB0

UniRef90_L0FYX0
UniRef90_UPI00037C25E1
UniRef90_F6ILA4
UniRef90_UPI00044081DD
UniRef90_B1M3W1
UniRef90_X8IZJ1
UniRef90_E3J897
UniRef90_A0A058YKL5
UniRef90_D7WBR4
UniRef90_G5HIK8
UniRef90_G5ZWI5
UniRef90_Q742X7
UniRef90_U2E738
UniRef90_X5LZH0
UniRef90_L0IWH8
UniRef90_A0A024QVS3
UniRef90_Q0CAZ1
UniRef90_C9SFG2
UniRef90_W0F1A3
UniRef90_UPI000373930E
UniRef90_G8AJ19
UniRef90_F4CVS1
UniRef90_Q0RJY0
UniRef90_M2Z046
UniRef90_G8T1P1
UniRef90_UPI0003B68871
UniRef90_UPI0003081526
UniRef90_UPI000262CC12
UniRef90_UPI00035C4D9A
UniRef90_A0R1R9
UniRef90_A0A010QF86
UniRef90_G7CLZ5
UniRef90_W9GJJ9
UniRef90_UPI0003634E64
UniRef90_K5BCW8
UniRef90_C4JLZ4
UniRef90_UPI00036D7DA7
UniRef90_UPI0003690452
UniRef90_F5YRT3
UniRef90_UPI000471E575
UniRef90_V4P5L2
UniRef90_F7V0S8
UniRef90_UPI00037695B0
UniRef90_M2SCF0
UniRef90_R6H961
UniRef90_G1X487
UniRef90_A1SP88
UniRef90_R7X1S0
UniRef90_D5P3W7
UniRef90_J9WH86
UniRef90_UPI00047E0E4A
UniRef90_Q07IJ2
UniRef90_UPI0001DD0578
UniRef90_UPI0004675BC7
UniRef90_Q47018
UniRef90_J8S8J0
UniRef90_A0A058U0H7
UniRef90_UPI00040797A2
UniRef90_C8WPU9
UniRef90_UPI000427CC5B
UniRef90_B1G4W5
UniRef90_F0FX60
UniRef90_I0S258
UniRef90_H0TN62
UniRef90_I8QEU7
UniRef90_A0QTN1
UniRef90_F0GH12
UniRef90_K8PB21
UniRef90_E3HRV5
UniRef90_H0E2F8
UniRef90_C5KM51
UniRef90_C1B5L6
UniRef90_UPI0003828248
UniRef90_G2QRP2
UniRef90_G4HSL1
UniRef90_G4MN30
UniRef90_E3J6J2
UniRef90_X0R6H9
UniRef90_A3W1Z0
UniRef90_L8F2B8
UniRef90_R4T5N8
UniRef90_C9YBV7
UniRef90_D0WJQ3
UniRef90_U7Q743
UniRef90_UPI000262A766
UniRef90_A0A010ZZQ1
UniRef90_UPI0003689E15
UniRef90_UPI0003B4A8B3
UniRef90_K0ZCE2
UniRef90_UPI0003746298
UniRef90_F9WZW5
UniRef90_X0QPW1

1 10 20 30 40
S L P L E G V T V L E F C Q Y L S G P S A G L R L A D L G A R V I K I E N P G L
UniRef90_UPI00037C25E1 MS G V R V L E V A Q F T Y V P V I S G A L L A D W G A D V I K I E E H F A P
UniRef90_F6ILA4 S G P L S G V R I L D F A W A L V G S L T T K T L G D L G A S V V K I E E T R S T P
UniRef90_UPI00044081DD P L A G I K V V E F A G A L A P G P F A G L V L A D Y G A S V I K I E E R S T L
UniRef90_B1M3W1 P L R G L T V L A L E Q A V A P Y C T S R L A D A G A R V I K I E E R P E G
UniRef90_X8IZJ1
UniRef90_E3J897 P L T G V T V L D L T R L P P G A F C T V L L A D L G A D V I R V E S P K G
UniRef90_A0A058YKL5 A A P L A G I S V V D F S E L L P G P F L T Q N L L E L L G A T V V K V E R P P H
UniRef90_D7WBR4 A G P L K G V V V A D F S R V L A S G P S A T M L L A D L G A T V I K V E N G T P N G
UniRef90_G5HIK8 P L K G V K V V E L S L M V A S A Y S C G R M M A D W G A D V I K V E N T P N G
UniRef90_G5ZWI5 P F D D I L V V D F T H V L A G P A C C S Y Y L G L L G A R I I K I E S M S T
UniRef90_Q742X7 A L P F N G L R V L D L T T F W A G P P C C T H F M A M L G A E V I H W W E K S P
UniRef90_U2E738 S L P L D G L R V L D L S Q I M A G P Y C C T M V L A D M G A D V I Y I E D E S A
UniRef90_X5LZH0 P L S G I T V V E A A A W T F V P S S G A V L A D W G A D V I K I E H P N Y
UniRef90_L0IWH8 A R P L A G V R I V E L S S F V A V P L A G M T L G Q L G A E V I R V D P L G G
UniRef90_A0A024QVS3 P F S G L R V L D M T T F W A G P S C T H I L G M L G A E V I H W W E R S P
UniRef90_Q0CAZ1
UniRef90_C9SFG2 P L T G L K V L E F A G L A P G P F A G M L L A D A G A S V L R I I D R P L P
UniRef90_W0F1A3 P L K G L V V L E F G Q Y L S G P S A G M R L A D L G A R V I K I E E R P R G
UniRef90_UPI000373930E P L R G I R V L D L S R S F P G G Y C T R L L A D L G A E V V K V E E A P R G P
UniRef90_G8AJ19 L S G L R V I D L G Q Y L P G P Y A A Q M L A D L G A E V V K V E E P P S G
UniRef90_F4CVS1 R P M S G M R V L D L T S N V A G P L A G Q V L V D L G A E V V K I E P P S G
UniRef90_Q0RJY0 L A G V R V V E V A T W T F V P S A G A V L A D W G A D V V K I E H P N H
UniRef90_M2Z046 T R S L D G V R V V D L S S F V A G P T A G R I L A E L G A D V I R V D P L G G
UniRef90_G8T1P1
UniRef90_UPI0003B68871 G I L Q G I R V L D L A S G I A G R V A A L L L A E S G A D V V K I E S S E A
UniRef90_UPI0003081526 T Q A L E D L R I V D F S R V L A G P F A T M V L A D L G A T V I K I E E A P G T
UniRef90_UPI000262CC12 P L K G F R I M D V T N V L S G P F C G Y Q L G L L G A E I I K V E E A P D G
UniRef90_UPI00035C4D9A P L N G L T V L E F S Q Y L S G P S G G L R L A D L G A R V I K V E E A P Q G
UniRef90_A0R1R9 T A P L E G Y T V L D L T S G L A G G Y A T K L I A D G G A D V V K V E E A P D G
UniRef90_A0A010QF86 P L K G I R I K V L E F A G L A P G P F A G M L L S D A G A S V L R V D R P L P
UniRef90_G7CLZ5 A Y P F S G I R I L D L G V I V A G G E L S R L F G D L G A E V I K R Q A P P G
UniRef90_W9GJJ9 A G P L S G L R V I E L S S F V A T P L C G L T L A Q L G A E V I R V E P M S G
UniRef90_UPI0003634E64 P L S G L R V I A V E Y G A P P F G T L F L A N L G A E I I K I D N S S L
UniRef90_K5BCW8 P L A G I T I L E F G E M F A P Y A T S V L A D L G A R V I K F Q F P E A
UniRef90_C4JLZ4 P L Q G V R V V E L A G L A P G P F A G L L L S D Y G A S V L R V D R P H P
UniRef90_UPI00036D7DA7 P L S G I R I K V L E V A N N L S G A F C A K L L A D Q G A D V I K V E P G W
UniRef90_UPI0003690452 M Q G V R I L E V A E H T F V P A A S A L L A D L G A D V I K I E H V E R
UniRef90_F5YRT3 S G P L S G I R I L E V G V M L A G P Y A T M L L A D L G A E V I K I E P P S G
UniRef90_UPI000471E575 A L E G L V V A D F S Q G V A G P Y S G M M L A Q A G A T V N K I E P H D G
UniRef90_V4P5L2 G P L A G V R V L D F S W A L V G S L T T K T L G D L G A E V I K N F D D K P
UniRef90_F7V0S8 L E G T I V V D L T Q Y A A G P A A S R L L G E L G A T V I K V E S P F T G
UniRef90_UPI00037695B0 G A L A G I R V A D F S R V L A G P H A T M L L A D L G A D V I K I E S P E G
UniRef90_M2SCF0 G P L A G V K I V D F G Q I V S A P M A A M W L A E Q G A E V V K I E P P S G
UniRef90_R6H961 L E G L V V V E L G D Y V A M P A C T R A L G E M G A T V Y K I E P D N P
UniRef90_G1X487 R P L A G L K V V D L T R V I A S P A L G R G L A E M G A S V M R I T S P S M
UniRef90_A1SP88 G A L A G V R V V D L S R N A P G P Y A S M L L A R L G A E V V T V G R T S E
UniRef90_R7X1S0 P L A G I T V L D L T R L L P G P L A G L R L A E L G A Q V I K I P P S A
UniRef90_D5P3W7 P F A G L R I L D L G I V A G G E L S R L F G D L G A E V I K I E S A D Y
UniRef90_J9WH86 L S G V R V L E V A A W T F V P S A G A V L A E W G A E V I K V E P R E G
UniRef90_UPI00047E0E4A G I F H G L K V L D C A S F I A A P L C T R H L A D M G A R V I K I E P P G A
UniRef90_Q07IJ2 A L P F E G L K V I D L G V I V V G A E A A A T V L S D F G A D V I K I E P P G A
UniRef90_UPI0001DD0578 S R P F A G L R I L D L G V I V A G G E L G R L E A D L G A E V I K I E S P T Y
UniRef90_UPI0004675BC7 P L D G V V V E L S D S A S P F A G Q I L A A L G A D V W K I E R P T G
UniRef90_Q47018 M Q G V R V L E V A Q F T F T P A A G G V L A D W G A D V I K I E H P H
UniRef90_J8S8J0
UniRef90_A0A058U0H7
UniRef90_UPI00040797A2 A G P L A G I R V I D F G S F V A G P F S G R L L A D L G A D V I K F E S L Q G
UniRef90_C8WPU9 L D G V K V V D M S A F V A A P M A A E I L A E Y G A D V V R Y N G D A P
UniRef90_UPI000427CC5B G I F E G L K V L D C A S F I A A P A A A T V L S D F G A D V I K I E P P G Y
UniRef90_B1G4W5 P L E D I C V V E I G H S L A A P Y A G I L L A H L G A R V V K I E N S A L
UniRef90_F0FX60
UniRef90_I0S258 P L F A G T R V V D L S T T L P G V F C T Q F L A D S G A D V I K V I E P P G G
UniRef90_H0TN62 G I F H G L K V L D C A S F I A A P A A A T V L S D F G A D V I K V I E P P G G
UniRef90_I8QEU7 S S P L A G L R V I D L S T T M P G A L A T R F L A D A G A D V V G V E P A G G
UniRef90_A0QTN1 P L E G L R V L D L G V I V G A D T G R L E A D L G A D V I K I E F P D G
UniRef90_F0GH12 G A L A G L R I D L S R V L G P Y A T Q I L A D H G A E V I K V E R P S G
UniRef90_K8PB21 P L E G L T V I A V I E Q A V A P F C T S R L A D A G A T V F K V E R P E G
UniRef90_E3HRV5 P L S G I A V A D F S E L L A P P F L T Q N L L E L G A A V T K I E R P P H
UniRef90_H0E2F8 G I L A G L R V I E G S A F V A P P L G G M T L A Q L G A D V I R F D Q L G G
UniRef90_C5KM51 L T R I L L A G P Y G M M L A D Y G A E V I K V E K P G A
UniRef90_C1B5L6
UniRef90_UPI0003828248 R P L S G T R V L D L S R I I A G P V A G R T L A Q H G A E V L L I N G P H L
UniRef90_G2QRP2 P L A G I K V L E F A G L A P G P F A G M L L A D A G A S V L R I I D R P R S
UniRef90_G4HSL1 L E G V H V V E F A Q L M A G P L C A V T L A D L G A T V T K I E P P H G
UniRef90_G4MN30 R P L A G I K V L D V S R I A P T I G R I L A E Y G A D V L K I N C P H L
UniRef90_E3J6J2 M R G V R I L E V A E H T F V P A A S A L L A D W G A E V I K I E H V H V
UniRef90_X0R6H9 T P L D G I R V T D L T F A W S G P F A T R V L G L L G A S V V K I E N P H N
UniRef90_A3W1Z0 P L E G L K I V T V E H F A A G P Y G S M Y L A D M G A D V F K V D N D S L
UniRef90_L8F2B8 A L A G L L V A D F S R V L A G P L A A A T L A D L G A D V I K V E R P V T
UniRef90_R4T5N8 T R P L D G V T V V A V E Q A V A P P L A T R N L A D L G A R V I K V H G S G A
UniRef90_C9YBV7 T L P L A G I R V V E F T H M V M G P T C G M T L G D L G A E V I K V E P G A G
UniRef90_D0WJQ3 S K P L E G I K V V D L T T F L A T P T T G R A L G E W G A D V I K I D D E N L
UniRef90_U7Q743 P L T G I K V L E F A G L A P G P F A G V F F A D A G A E V L R I D R P D L
UniRef90_UPI000262A766 G A L Q G I R V A D F S R V L A G P H A T M L L A D L G A D V I K I E S P E G
UniRef90_A0A010ZZQ1
UniRef90_UPI0003689E15 P L D E V R V L D L T D G L G E S C G R Y L A D L G A E V V R V I E P P G G
UniRef90_UPI0003B4A8B3 M E G I K V L E V A Q F T F V P A A G A V L A D W G A D V I K I E H P H T
UniRef90_K0ZCE2 G P L D D V K V I F S A V E I A P T A A G L M A E W G A D V I W M E N I W W
UniRef90_UPI0003746298 F K D L L V V E L A S V L A G P S V G Q F F A E L G A T V I K V E N V S A
UniRef90_F9WZW5 S R P L A G L K I V D L T R I I A A P T I S R C L A E M G A S V M R V T S H G
UniRef90_X0QPW1 G I L K G V K V V D L T T F L A A P T V A R V L G E W G A D V I K V E S P K G

UniRef90_L0FYX0 L F H T L N R N K E S Y T A N L K S E H E L E A E I K R L I G K A D V L M H N F R 80
UniRef90_UPI00037C25E1 L M E H P N R S K R G S I G L A L L E K Q P E A L L E V L Y E I V R N W A S D V F V T N F L
UniRef90_F6ILA4 W F A N L N R S K R S I A L D L K Q P A S R E V L L D P L E I V R W A S D V V V V T N F S R
UniRef90_UPI00044081DD P H D V L N R G K R S I A L D A K V P A D A R L L H A I L I S A Q A D V F V Q N L A
UniRef90_B1M3W1 Y F V W L N R G K E S L V A D T K D P A D A R L L H A I L I S A Q A D V F V Q N L A
UniRef90_X8I2J1
UniRef90_E3J897 R M F D G N R G K R S V A V D L R H P R G L E V L R L L A A H A D V L V E N E R
UniRef90_A0A058YKL5 G D N A R R L Y P G V Y A S V N K Q A E G R A R A R E L V A G A D V L V E G F R R
UniRef90_D7WBR4 D D T R G W R N K N S I K L N L K Q P D D D L D T A Y A I I D R Q A D V L I T D N F R
UniRef90_G5HIK8 G D T F R K W P L G I G A P A D D D F D P R E V M F R L L I E Q A D V F L T N L R
UniRef90_G5ZWI5 A Y L T Q G A G K Q A L L A L D L T T A R G R E I M E R L L S K A D V F V T E N H L
UniRef90_Q742X7 I F E A L N N K K G L T L D L K D S P A R G R D V L R R L I A T C A D V I V E N F T
UniRef90_U2E738 C F M Q L N R N K R S V A L L N L Q D S P A A R E L F Y D M A R Q A D V I I E N Y R
UniRef90_X5LZH0 L I E Q P N R G K R S V G I D L S T P D G R A V L D R L L E H A D V F V T S F L
UniRef90_L0IWH8 A A D Y H R W P K R S V A A D F R Q T S A E G Q D L V Q R R L I A D S G I L I T N
UniRef90_A0A024QVS3 I F S A L N T N K L G L T L D F K H Q L G K K V I L D L I K R S D V V V D N F I
UniRef90_Q0CAZ1
UniRef90_C9SFG2 T E D M L A R H K A S I A V D L K D K P A G V A L V K T L A A S A D M L I D P F F R
UniRef90_W0F1A3 N F H A I N R N K E S F T A D L K N K E D F E L V Q T L I R K A D V L T H N F R
UniRef90_UPI000373930E T H V G L N H A K K S I T L D T R G E A G I E V L R K L V A S A D A V V D S A R
UniRef90_G8AJ19 D P L R Q M G P T D A D G T N L K D D D D R G A F E R L I A G A D A L V Q S Y R
UniRef90_F4CVS1 Y F L P H H R G K S V V L D L R N A D D V T R L J A L A D T A D V I V E Q G F R
UniRef90_Q0RJY0 F I E Q P N R G K R S L G L D I G S E S G R E I L R K L V E Q S D V F V T N L L
UniRef90_M2Z046 Y W T G L N Q A K R S V A V D L R S D D G R A V V T D L I A E A G I V E N
UniRef90_G8T1P1
UniRef90_UPI0003B68871 A Q N T Q S P G R L T W D R S K R T A D G R E Q L E A L L S A A D V V I H E Y G
UniRef90_UPI0003081526 G D D T R A W G P P Y D E A G Q R S D E D G R A E A R R L V A G A D V V V E N F R
UniRef90_UPI000262CC12 D L A R Q L G A N A H Y D A I N L K T D D D G K Q I F K D L L V A G A D V I E N F R
UniRef90_UPI00035C4D9A N F H A I N R N K E S F T A D L K N K E D L E L V K K L I R K A D V I T H N F R
UniRef90_A0R1R9 D P L R R W S A S G A I E P G R S H G A K R S V V V D P G L D D D L D L D R L
UniRef90_A0A010QF86 T E D M L A R H K A S V A V D L K S P A G L A F V K R L A E K A D V L I D P F R
UniRef90_G7CLZ5 M A M S K S W A L T H R N H D L R H P E G A D L F A R L V A S A D A V F A N F K
UniRef90_W9GJJ9 G P D R T R W P L A P N G T S L Y W N R G R Q V V A D L V A E E G G G G L V
UniRef90_UPI0003634E64 F F Q G L N N K R S L S N L T S R E G Q E I L H R L V A T A D G V T G N L R
UniRef90_K5BCW8 A G A K V M Q G K H S I Q V D L H T E E G K A I A H R L V A S A D V V L Q S M R
UniRef90_C4JLZ4 N A H S T S K P L P P T T D T K A S A S K A V L L S L V A R N A D V L I D P F R
UniRef90_UPI00036D7DA7 G D T A R R E P P F I N G V P D P E G S T R E L L R L V A D A D V L I E S Y P
UniRef90_UPI0003690452 G D A M R A L A S S G I A V V P K D V H V R D L L Y R I A A T S D V F L T N K L
UniRef90_F5YRT3 E I S R Q V G P S Y F A S L N R N K R S V R A R L G E L A A E S H A L L V N M K
UniRef90_UPI000471E575 D W A R T L G T A Y G D H C A H K S E D G L K L A K K M A S E A D I V L E S F R
UniRef90_V4P5L2 W F A H L N T S K H S L A L D M K K P E S R E V L D P L I T D W A D V V V E N F S
UniRef90_F7V0S8 D E Q R T Q G M A W W T A I D C K N P E G N E V M M N L L S K A D I E V T S L R
UniRef90_UPI00037695B0 D G T R Q W R P V I N V V C D L R D P E G I A R A T E L A R A D V V I E N F K
UniRef90_M2SCF0 D P L H V N R A K R L E T L D L A D E T N R P R L M E L I G W A D I L L Q N F R
UniRef90_R6H961 A F D M S N A N K K F L D L D M K S D D G G R E L V E K L L E Q A D V F V T S L R
UniRef90_G1X487 V H Q D L N W G K W C H L I H L K D E D K E K L R Q L I R E A D V V I D G Y R
UniRef90_A1SP88 A L P E L A M G K R Q I T L D L R S G D G V R A L E R L V A E A D V L L E S F R
UniRef90_R7X1S0 F W R L L N R G K S V E R L D L R S A A G K E I F T R L V A E S D A V F A N F K
UniRef90_D5P3W7 P F A W T H R N H L G M G L D L R S A A G K E I F T R L V A E S D A V F A N F K
UniRef90_J9WH86 M I E I P N R G K K S I G V D L S T P G G Q D V I R K L A A T C D V F L T S Y L
UniRef90_UPI00047E0E4A H F V W L N R G K E S V A L D L K S P D G A R I V R S L I R R A D V F V Q N L A
UniRef90_Q07IJ2 G D P Y R N L P N L P S G Y P K S E H N Y A W M L R K L V G E A D V F I N F P
UniRef90_UPI0001DD0578 N R Q S Y L D F G M S V S F D L R S E R G R E V F L D L V A R A D V V C S N F K
UniRef90_UPI0004675BC7 P W A L T H R N E S L G S D L R H P A G A D L F C R L V E G A D A V F A N F K
UniRef90_Q47018 D S A R G W P S K W K S G A F H A I N Q L H R L I A E H A D V F F H N L R
UniRef90_J8S8J0 L F E H P N R G K R S V G I D L S T P E G Q E V L Y E L A K Q C D V F L T N Y L
UniRef90_A0A058U0H7
UniRef90_UPI00040797A2 D P N R G L Q R H Y A M V V D L K D P R G K Q V L D R L V A G T D L M M H N W R
UniRef90_C8WPU9 L Y D A I N G N K R H I A V N T R T A E G M G V L W K L L E T A D I F I C H M R
UniRef90_UPI000427CC5B P H S E H N F A W M L E A R N K K P A D A R E V L Y K L V S E A D V E I T N M P
UniRef90_B1G4W5 F I A M H N G K E S I S A D F G D P A C A R S I R D F I V E N A D V L Q N L R
UniRef90_F0FX60 Y Y L S C N R N K R S I T C V D F R Q P A G L D V V R R L I A Q A D V V I E N F K
UniRef90_I0S258 S W P A F G R G K R S T V V D L K R S G S G A D E L D A L R D A D V V V T T F S
UniRef90_H0TN62 Y P R S E H N Y A W H L E A R N K R P E A Q A I L Q R L V A D A D V F I T T F P
UniRef90_I8QEU7 S P L R R S P A W P A I G G G R R D P A D R P V L D G L L T G A D V V V T T L R
UniRef90_A0QTN1 L R G R L N M M S Q T Y A S G H R N D E G R A L A H R L A E A D A D V L T N F K
UniRef90_F0GH12 D E T R S W G P P F I A L D L T Q P A D R E R L L A L E H A D A I V E N F R
UniRef90_K8PB21 Y F V W L N R G K K S V V I D L A T D E G R K T L E S L I A G A D V L V Q N L K
UniRef90_E3HRV5 G D N A R R L Y P P C V M L D L K Q P A G V Q A A R E I A R S D G L V E G F R
UniRef90_H0E2F8 G L D H A R W P K R S I Q V D L R R P E G R E L V A Q L V A P G D E A G L F L
UniRef90_C5KM51 Y F V A P N R N K H S I G V N L K T P E G Q Q I K D L V K V S D I T V T E N Y V
UniRef90_C1B5L6
UniRef90_UPI0003828248 P N I A P L V I D N G R G K R S R E A Q G R D A L R S L A A D A D V F L Q S Y R
UniRef90_G2QRP2 N S S S P P R H K S S I A V D L K S P G G V A L I R R L V A H A D V L I D P F R
UniRef90_G4HSL1 D Y T R T W A R P D G E S G I F K M A A D G K L A A R E D L A L S A D V I V E S H G
UniRef90_G4MN30 S D V P F F Q L D G N M G K R T K S A D G R K R F E L L A D A D A D V V I E G F R
UniRef90_E3J6J2 L L I E H S N R G K R S L G L D L T T D E G L D I L Y R L L E T S D V F L T N K L
UniRef90_X0R6H9 I L D P W R G P A A Q S P T R E M K S E E G K T Y A H T L F A R S D V L V S N F S
UniRef90_A3W1Z0 V F Q G W N T N K S I A L D L K S E E G R E A F L A L A R S V D A V M N L R
UniRef90_L8F2B8 G D D T R S W G P P F A A D G T A A Y G D A A A A R E L A R R A D V L I E N F R
UniRef90_R4T5N8 H F V W L N R N K E S I A V D L K T P G E G R D V V R R L V A K A D V F V Q N L A
UniRef90_C9YBV7 F Y P L F N R N K K S I A V D L K S P Q G R E I V L R L I A T A D I V S E N F K
UniRef90_D0WJQ3 G F D M A N M H K R F I S L N L K S E K G L E V M H K L L A E A D V F I T N M R
UniRef90_U7Q743 T E D M L A R H K S S I A V D L K N E A G V A L V K E L A T H A D V L I D P F R
UniRef90_UPI000262A766 D G T R Q W S P P V N V V C D L R D P E G L A R A R E L A H S A D V V I E N F K
UniRef90_A0A010ZZQ1
UniRef90_UPI0003689E15 S R S R R A E P V V V D G V S I P F A L R N A N K L G V T L D P R S G R L R E L T
UniRef90_UPI0003B4A8B3 L F E H P N R G K R S V G I D L D F T A E G R Q D V L H E L A K Q C D V F L T N Y L
UniRef90_K0ZCE2 V K E M E R R N M R S I S I H P F S D E G K E A L L G L V K D A D I F I E S S K
UniRef90_UPI0003746298 Y F A A A N W G K H A V S L L D I T Q N E A A L A L H E L V A K A D V V L A S Y K
UniRef90_F9WZW5 L H Q A D L N W G K W N T S L H L K N E D R L K L V E L I A K A D A D V V V E S Y R
UniRef90_X0QPW1 D P G R M Q G S V F N M H Y N T K T D E G L K I M Y Q L I D T A N V F L T N V R

UniRef90_L0FYX0 P G V M E K L G L G L 90 G Y E A V K A L N A G L V Y A E I S G Y G A E G P W A R K P K 120
UniRef90_UPI00037C25E1 P E A R N R L R L R I G L D V E H I R A A S R N N P G L I V Y V S G S A L G T R T G G P E A D K E G G
UniRef90_F6ILA4 P G T M A K L L G L G L D Y D R V F L A S R N N P G L I V Y A R M V S G S V F G T Q T N G G P L A Q D E W G
UniRef90_UPI00044081DD P G V L E K L E L G P D R V F L A S R N N K K L I Y A R M V S G S V F F T R N G G P L A R D V A G G
UniRef90_B1M3W1 P G A A A R A G F G T A D E L R A K R Y P R L L I T V D I I S G Y G T G T G N A Y Y S D M K A
UniRef90_X8I2J1 A G K L A S M G L G W E S H C K K L E N E K L I Y A S I T S G Y G Q Q D G G P Y Y A Q A A G G
UniRef90_E3J897 P G G L A D E R G F G Y S H A S K E L N P K L I W C S I L S G Y G Q Q D G G P Y A R Q Q A S G G
UniRef90_A0A058YKL5 P G V M A R L G L G L D Y E Q A R K A L N E R L L V Y V S I L S G Y G Q Q D G G P Q A R Q P G G
UniRef90_D7WBR4 V G S L D K F G L D D Y P E T S V K R K R W P E L L V H A S I L T D G Y G R G A G A Q L P G G
UniRef90_G5HIK8 T S T L Q K S G L D D Y E T S L V K D R F P K L V M S Q L T D G Y G E K G D E A S R P G G
UniRef90_G5ZWI5 P E T M K R L N L D E Q T V T A L H P H L I Y C S L T D G Y G R G T D A Q Q G N V P A
UniRef90_Q742X7 P R V L D A I G L D D F A T V Q Q I R A D A V M V R M P G F G L T G P Y W R N K P A
UniRef90_U2E738 P G V L D Q S L G L D D Y E S I K Q L N P G L I Y A S I S G Y G Q T G P Y A N K G G
UniRef90_X5LZH0 P R V R E K L G L D D P A T I R T R H P H L I Y A L G T G Q G T R G E E A G K G G G
UniRef90_L0IWH8 V A G R E W H S Y F G T L T R R L R P D V I H V L E V S G R V D D G G T G G
UniRef90_A0A024QVS3 P R V I D Q L G L D D F E S V G I G Q M R D G I M L R M P G F G L D G P W R D N P A
UniRef90_Q0CAZ1 P G K L E K F G L G Y E V F R Q T N P S I I H A S I S G Y G A T D G G P F A Q R P G
UniRef90_C9SFG2 P G V L E K L G L G P D V L C A L N E K L I Y G R M T G F R R D G G K Y A A Q M A G
UniRef90_W0F1A3 P G V M E K L G L A Y K D V K A L N E K L I Y A E I S G Y G R R K G P Y A A Q K P G
UniRef90_UPI000373930E P G A R E A A G F A Y A Q A A E V N P R L V W A S L S S F G L D G G P Y A G R A G G
UniRef90_G8AJ19 P G V L D K L G L G V G H A R L R A L N P R L V H A S L S G F G S G D G P Y A R R R A G G
UniRef90_F4CVS1 P G V L D R L G L G A D V L R R R R N P R L V H A S L S G A F S G D G Q H R R P G
UniRef90_Q0RJY0 P D S R A R A G I D V D D V T R A W N P K I I Y A R G H G Y G S R G S E Q A G R G G
UniRef90_M2Z046 A A R A S W L A H D V L T A R R N P D L I H L H I T A G N A D G G P Y A E R A G
UniRef90_G8T1P1 L G G L D K Y G L D Y E S L K A L N P Q L I Y C S I T G F G H T G P Y A E R A G
UniRef90_UPI0003B68871 P T K A R D L G L D D A A L A E R H P T L V A C S S V L A W P A N H P D A A D R P V
UniRef90_UPI0003081526 P G V M D R L G L G Y D A V R A E S S P I V Y C C A I S T G F G S G P G A A L P G
UniRef90_UPI000262CC12 P G V M D R L G L G F E A C R S I K D P I I Y C C A I S T G F G Q E R G P L K D N P A
UniRef90_UPI00035C4D9A P G V M E K I G L A Y K D V K A V N E K I I Y A E I S G F G R R D G P W A K K P G
UniRef90_A0R1R9 A G S A D A V V W S P E S A L E R Y P H L I V T A L T P F G L D G P Y A Q D R A A
UniRef90_A0A010QF86 P G V L E K L G L G P E V L E K A N R G L I Y G R M T G F R R D G R Y K D M A G
UniRef90_G7CLZ5 P G T L A S L G F S Y D R L R E L N P R I V L A E S S A F G A T G P W S G R M G
UniRef90_W9GJJ9 T N T E R W P E L S F E A L S T R R P D I V H V V L A G T H D G G L A
UniRef90_UPI0003634E64 G D V P E K L G I T F D A L K K V N P K I V C A H L T A F G R S G E R A S W P G
UniRef90_K5BCW8 A G A A Q R L G I D A A T L H A I N P D L I Y V S A P G Y G V D G G P Y A A R P A
UniRef90_C4JLZ4 P G V L E K L G L G C P T T V L R E T N P G L I T A R M T G F R R D G G K Y R D M A G
UniRef90_UPI00036D7DA7 P G H L E S L G L G Y Q V L R E T N P G L V V S S T Y F G Q T G P Y K R D Y R G S
UniRef90_UPI0003690452 P S V R T K L H V D V D D I R T H N P K I I Y V R G T G Q G E R G G P D A D R G S
UniRef90_F5YRT3 P S V L K R L G L T Y S A L S R F N P K I V C V A L T G F G L D G G Y S D R P V
UniRef90_UPI000471E575 P G V M K K F G L D Y D S V K K E N E K V I Y L S V T G F G Q E G P Y S D R P V
UniRef90_V4P5L2 P G T M A K L G L D Y E K L A K R N P N L I M V S G S V F G Q T G P L A A E W G
UniRef90_F7V0S8 D G A L K R L G L D Y E T L H E A E N P K L V W A Q N R G Y G F H A G M K D A K G
UniRef90_UPI00037695B0 P G T M E K F G L G Y D A V S A E N P G V V Y C S I S G F G D A A G R D L P G
UniRef90_M2SCF0 P G V A D R L G L G W K Q A S A H N P R L V Y C S I S G F G P D G G P Y A G Q R V
UniRef90_R6H961 N P S L K R L G Y D Y E T L H A R Y P R L V Y G Q M R G Y G E R G A M K D A K G
UniRef90_G1X487 P G V M D R L G L G F G R D A V F D L V K D R I Y V R E N C Y G W H P W S H R S G
UniRef90_A1SP88 P G V L D R L G V G Y E H L A A L N P R L V Y C A L T G Y G Q Q G R L R A A A G
UniRef90_R7X1S0 P G V M A R L G L G F G Y E T L A R L R S P R L V M A S I S G Y G Q H G P M A Q A A G
UniRef90_D5P3W7 P G T L T A L G F S Y D N L R A A N P R I V L A E S S A Y G Q D G G P W S A R L G
UniRef90_J9WH86 P T R R K K M G I D V D D I R A A N P G I V Y V R G S G H G P K G P D S D K P G
UniRef90_UPI00047E0E4A P G A A A R L G L A A D D L R R E H P R L V T V D L S G Y G T G G P Y E A R K A
UniRef90_Q07IJ2 P Q V R E R L G V T Y Q D L S P L N S R L I Y A S F T G Y G E R G G E A N K P G
UniRef90_UPI0001DD0578 P G T M D K L G L D Q D T L R K A N P R I I L S E S S A F G S T G P W S N R M G
UniRef90_UPI0004675BC7 P G T L A A L G F S Y D R L R S L K P G I V L A E S S A F G D H G P W S A Q M G
UniRef90_Q47018 P G S A A Q Y G F P D S L R V T K P E L V C C E V G A F G H A G P L N Q A P G
UniRef90_J8S8J0 P Q V R Q K N K F D V E H I R A V N P N L I Y A R G S A L G N K G P E R E V G G
UniRef90_A0A058U0H7 P G V L E K W G L G Y E D L C S I N P A T I M V R L S G Y G Q T G P M R D Q P G
UniRef90_UPI00040797A2 V G V P E R L G V S P A E L R R I N P T I T L A S L S F G P E G P R A T D P G
UniRef90_C8WPU9 E K D M V K L G I D W D T L H A K F P A L I Y A N T T G Y G S T G P L A S R G G
UniRef90_UPI000427CC5B P G V R E K L G I T H E H L T G H L N D R L I Y A S F T G Y G E K G E E A N K P G
UniRef90_B1G4W5 P G N L D R Y G L G A Q D L T E L C P S L V Y C N L G A F G A T G P L R N K P G
UniRef90_F0FX60 A G T M D A M G L G Y D V L S A R D A R L V M G S I T A F G P R G P L R D W P G
UniRef90_I0S258 P A A L R A E L G I D S E A L L A R H P R L V I A H L T G W G R S G E W R D L K G
UniRef90_H0TN62 P S V R N K L G L T Y E T L A R H P R L I Y A S F T G Y G E K G E E A D K P G
UniRef90_I8QEU7 P R T A R R L R L G P G D L A Q R N P R L V S V A I T G W G S S G P W A D L K G
UniRef90_A0QTN1 P G V A Q A L G M D F G S L K K V N P G I V V V D S S A F G P T G P W A R R L G
UniRef90_F0GH12 I G T M E R W G L G F D T L H A R F P R L V H C R V I S G F G A D D G P L G G L P G
UniRef90_K8PB21 P G S M D K L G F T R E R L R K D Y P A L V I C T I S G Y G D D G P Y A D R K A
UniRef90_E3HRV5 P G V M A R L G L G Y D E A A L N P G L V Y V S I L S G Y G Q H G P N A Q R P G
UniRef90_H0E2F8 T N F P A R G W L D Y D A L R A R R E D L V M V A L T G N P D G T S E
UniRef90_C5KM51 P G T L A K Y G L D Y E S L R K F N P A L V Y G S I T G Y G D T G P D K D R P G
UniRef90_C1B5L6 P D A V E R M G L D Y D T L R G L S N R L I Y C S I T A F G E T G P R A H Q P G
UniRef90_UPI0003828248 P G A L A H G F G P E D L A R M K P G I V Y V S V C A Y G H T G P W A Q R R G
UniRef90_G2QRP2 P G V L E S L S L G P A Q L L A L N P R L I Y A R L T G F R R D G R F A P Q A G
UniRef90_G4HSL1 D S M A Q V Y G F Y D D L A A E R P N V V W C S I S G L G Q G A G G R A
UniRef90_G4MN30 P G A I E R L G Y G P R A M A R R G R G Y V Y V S E T C F G H V G W S N R P G
UniRef90_E3J6J2 P R V R R K L R I D L A D T R A H N P R I I Y A S G T G Q G E E G P E A D R G S
UniRef90_X0R6H9 P G V M N R L G M G F E D I R S N P G L V M V I E M S G Y G T T G P L R T H R A
UniRef90_A3W1Z0 G D Q P E K L G L D Y A T L K A A K K D I V C L H I T S A Y G R N N S R A N W P G
UniRef90_L8F2B8 P G A L A R Y G L D P A T T A A H P G L V H C S I T G F G S G A G A H L P G
UniRef90_R4T5N8 P G A A E R L G F G D L R A D H P E L V V V N L S G F G A G G P M E R R K A
UniRef90_C9YBV7 T E T M Q K L G L D Y A S L S K L N P R L I Y V S H K G F L P G P Y D H R T A
UniRef90_D0WJQ3 A K S L A K M G L D W E S L H A R Y P R L V M G H G L G Y G K K G P E K D N A G
UniRef90_U7Q743 P G V L E R L G L G Y D V L H A A N P R L I Y A R L S G F R R D G K Y K D M A G
UniRef90_UPI000262A766 P G T M E K F G L G Y D A V A A E N P G V V F C S I S G F G D A E G R D L P G
UniRef90_A0A010ZZQ1 A G T A D R L G L G Y S A C R E V N A S I I Y A A I S G F G A Q G A P G S G K A
UniRef90_UPI0003689E15 R T A D I L A S G P V P A V D H P A L V T V S I T P F G L T G P Y R D W V A G
UniRef90_UPI0003B4A8B3 P Q H R Q K Y K F D I E H I R A V N P D I I Y A R G S A W G D K G P E R E K G G
UniRef90_K0ZCE2 G P V W A R K G I T D E V L W E V N P D L V I V H V I S G F G Q D G D P E R V N A
UniRef90_UPI0003746298 P G D A E K L R V D Y H T L S Q L N P L I Y A H L T G Y G T H D S R A G
UniRef90_F9WZV5 P S V M E K Y G L A R E D I K D R G R G I H V K E N C Y G W N D P W Q G R S G
UniRef90_X0QPW1 S K S L A K M G L D Y D T L H K K F P K L I F A Q V L G Y G E N G D K R D A G

UniRef90_L0FYX0 Q D L L L Q A M S 130 G L M F A S G N Q K D G P M P F G L A I G D M L C G A Q A V V Q
UniRef90_UPI00037C25E1 Y D S P M F W C R G G S S F K P P S L K G A L N Q P G A A W G D T I G G L N I A
UniRef90_F6ILA4 V D G T G G A L S G R T F L T G Y P D G E P V T P G A V P Y G D F V I V P Y V M A
UniRef90_UPI00044081DD H D I N Y T J A G A L S G A L S M L P G T P D G E K P A F P V N L L A D F A G G L T C A
UniRef90_B1M3W1 Y D L L V Q A E S G L A G I T G H P A G P P G R V I G V S V C D V A C G M D A H
UniRef90_X8I2J1 Y D V V I E S E A G L M H L T G E P D D G P P C K V G V A V T D I L S T G L Y A H
UniRef90_E3J897 H D L S F A A H S G L L T G L S P E L G P W H P Q L L I L P I P I G A L M
UniRef90_A0A058YKL5 H D I N Y L J A A A G A L A L A G S D P A E P A P G A G L P V A D I L C G A M Y A L
UniRef90_D7WBR4 Y D M L I Q A S S G F M S M T G S P D G G D N E Q K A G Y A F I D V L T G L H T T V
UniRef90_G5HIK8 Y D N T A F W A R G G F L F S Q S I Y G D N E Q A Y P V Y M P M G F G D V T C A
UniRef90_G5ZWI5 Y D V N I Q A A S G L M D M T G T A E T G P T R T G A P I L D Y S T A L S A A
UniRef90_Q742X7 F A Y V I E S A S G L S W L T G Y P D R T P Y D P Y S I G D P C A G V H A L
UniRef90_U2E738 F D L V A Q A S A T G L M S M T G E P G R R P L K T G V A V Y D I G A G I T A V
UniRef90_X5LZH0 Y D S S Y F A R S G L I A D A L T P H D S P H L V D Q P S G F G D L M G G Q T L A
UniRef90_L0IWH8 V A Y T I V N A G I G F P L V T G P A E L A T P V N H V L P A W D V S C G I Y T A
UniRef90_A0A024QVS3 F A Y I L E D A T G L S W L T G F P D R T P F E P Y S V I G D P N A G I H A L
UniRef90_Q0CAZ1 Y D V I J A A G E A G L L H I T G E P D G P P T K L G V G I M D L C T G L Y L
UniRef90_C9SFG2 H D I N Y L J A V S G A L G V L G R D G S G A P H P P W N I L A D F A G G G A T L F
UniRef90_W0F1A3 Q D L L I Q S L S G L T Y T T G N S G A P V P F G L S V V D T I S G N H L V
UniRef90_UPI000373930E H E I H D L N Y M A V G G G L D S S G T P D R P S I S H P P V A D F A S A Q Q A L A
UniRef90_G8AJ19 I D A L I Q A E S G L L T G D T G A D G R P L L P A P T V V D A A A G H V L A Q
UniRef90_F4CVS1 Y D M A A Y W S R G G I G D S L I P H E G D W P A P Q R P A F G D T Y G G F A L
UniRef90_Q0RJY0 V D Y T V N A A G G I L P L M T G P V D G T V P V N H V L P A W D L T G V Q A A
UniRef90_M2Z046 Y D F M I Q G M V G I M D L T G E P D R E P Q K I G V A F A D I F T G L Y S V
UniRef90_G8T1P1 D E L L A M A R L G I C D E Q L P M D R E G P V F I R F P L I G S W G A V Y L J A A
UniRef90_UPI0003B68871 Y D L L I Q A V G G L M S I T G E P E G P Q K V G V A L V D V L S G L F A A V
UniRef90_UPI000262CC12 Y D Q I I Q G M S G V M D I T G D T M T P P Y R V G Y P I A D V I G G L T A A
UniRef90_UPI00035C4D9A Q D L L V Q S L S G L A Y T T G N G G A P V P F G L S A V D S I S G I H L V Q
UniRef90_A0R1R9 T E F T L Q A W S G G A I G I G R G V Q D R A P V T I G G Q V G G E W L T G A
UniRef90_A0A010QF86 H D I N Y L J A V S G A L S M L G R D G E K P P W N I L A D F A G G G A M L F
UniRef90_G7CLZ5 Y G P L V R A A I G V T R L W T T S G T G D D G V G S G R F F D A T T V F P D H
UniRef90_W9GJJ9 V D Y T V Q A G T G F P H V T G P A E H A G P V N N V V P A W D F A A G Y L A
UniRef90_UPI0003634E64 Y D Y P M Q A E A G Y F K L T G E P D G P T R C G L S L V D L S T G V A M A
UniRef90_K5BCW8 Y N A P D A A C A T A N L D E V M H Q A P R V T S A G T I P E L Q T D G L A A A
UniRef90_C4JLZ4 H D I N Y L J A V S G V L G M L G R A G E A P Y P P G N I L G D F A G G G A L C F
UniRef90_UPI00036D7DA7 G D L V V Q A L G G F L H A V T S A D R P P M G T A L E Q M E I T A A R N G A
UniRef90_UPI0003690452 Y D S L A F W A R V A V G I M R P E Y G H V P V P P G P G F G D S I G A M T I A
UniRef90_F5YRT3 F D Y V I Q A A T G L A A M T G D P N G P P T L P G Y S S A D N S T G L A A A L
UniRef90_UPI000471E575 T D S A I Q G Y S G W M S I T R D D N G L P M K C G M V V I D F L T G M A F Y
UniRef90_V4P5L2 V D G T G A A L S G R T F L T G W P D R D P V I P G A V P Y G D V I V P Y V M A
UniRef90_F7V0S8 F D A T S F A A R S G F V S A I P Q A N E H Y E P G N S P I A F G D W N C A L T
UniRef90_UPI00037695B0 Y D L L V Q A V G G L M S I T Q S D G E P T K V G V A L V D I L T N S V I G I
UniRef90_M2SCF0 Y D M A V Q A V S G M A D A Q S I A S G G R P T L M A D I V V D K V I T A L T A A
UniRef90_R6H961 F D A T C S A R G G L L M S I P Q A G E H F Q P G N M P A A F G D F N S C I A
UniRef90_G1X487 W Q Q I S D A C C G V S M A Y G K A M G N D E A V P V F P N S D Y C C G V C G S
UniRef90_A1SP88 H D I N Y L J A V I T G V L G C L G P A G E P A V P P I N L V A D M G G G L W A A
UniRef90_R7X1S0 H D I N Y L J A G A G V L D Q L G D T A D A P I V P N F Q I G D L Y G G Q A A A
UniRef90_D5P3W7 Y G P L V R A A T G V T R L W T A D D P E S F Y D A T T V F P D H V V G R I T A
UniRef90_J9WH86 Y D G V S Y W A R G G I A A M L T E D G D E L V R S R P A F G D L L G G M A I A
UniRef90_UPI00047E0E4A Y D M L I Q A E A R G L V S I T G T P D A P A K T G I P T A D I A S G M Y C V
UniRef90_Q07IJ2 F D S N A W W A R S G L M D L V R A D E H T T P A R S V A G M G D H P C A M A L
UniRef90_UPI0001DD0578 Y G P L V R A S T G L A L A W R Y P D D P T G F S D T I T I Y P D H V A G R I C
UniRef90_UPI0004675BC7 Y G P L V R A S T G V T R L W T S P D A E P G T F Y D A T T I F P D H V V A R L
UniRef90_Q47018 Y D P L M Q A F A G I M S V T G E D Q A P V R A G V S I V D F G A G M W A V I
UniRef90_J8S8J0 F D G T C F W S R I A Y S M T P E E L P G P I S Q G I P A F G D S I G G M F I A
UniRef90_A0A058U0H7 F G A I G E S M D G L R Y V S G H P D R A P L R V G I S I G D M A L R H R D A T
UniRef90_UPI00040797A2 F D M I Q A L L G M E R R A G G P D G E P L W F R A P Y L D Y G A G V V G A V
UniRef90_C8WPU9 F D M I A Y A T R T G L T T D V V P E G A H P Y M P Y Q A Q G D I P T G L Y L S
UniRef90_UPI000427CC5B F D S N A Y W A R S G L M D L V R A D E D T T P A R S V A G M G D H P C A M A F
UniRef90_B1G4W5 Y D P L V Q A Y S G M M S I V G H A D D A S T R V P V S I N D M G T G M W A V
UniRef90_F0FX60 F D Q I A Q G Y A G L M S I T G F P D G E P T R T G T A I G D L S S G M W V A
UniRef90_I0S258 Y E G L V L A K A G L S H A V R R M V N P P R P S Y V T P Y S F A A G H L A V
UniRef90_H0TN62 F D S N A Y W A R S G L M D L V R A D E T T T P A R S V A G M G D H P C A M A F
UniRef90_I8QEU7 Y E G L V M A K L G M F H A K R R L V S R P G P A Y C S V A F A T W G A H T A
UniRef90_A0QTN1 Y G P L V R A A A G F T D L W V Y P D A P G E F C D T V T V Y P D H V A A R I G
UniRef90_F0GH12 Y D A A V Q A A A G L M S V N G E A G G A P L R V G V P I V D L V T G L N A A
UniRef90_K8PB21 Y D L L I Q A E S G L A S I T G G P D A P A R V G L S I V D I A T G A T A H
UniRef90_E3HRV5 H D I N Y L J A T A G A L A L A G S D P A M P A P G A G L P V A D I L C G A M Y A L
UniRef90_H0E2F8 V D Y T V N P A T A G F W A T G P R N L S E P L N S V L P A W D I A M G E L A A
UniRef90_C5KM51 Y A L M V E G R C G M M A C T G I G D Q P V K I G V A W T D I L A G L H L H
UniRef90_C1B5L6 M D I L A Q A L S G L M G V T G E V G G G P V K V G V P I A D F V G S F L L G
UniRef90_UPI0003828248 F D S L V Q A S G I A W T E Q A A R T A M P K P L P C Q A L D H A T G Y L A A
UniRef90_G2QRP2 H D I N Y L J A A A G V L A L L G R A G V A G V A A G G G S P P T P P G N I L L
UniRef90_G4HSL1 I D M T L Q A I M G M T A L T G T A D G P P L R G A M P F V D I T T A L Y G A Q
UniRef90_G4MN30 W Q Q I A D C V T G L A W E Q G R F L G D E P V V P P F P I S D Y G T C M G A
UniRef90_E3J6J2 Y D A L A F W A R S G T A V S R P E Y G Q V V M P P A P G F G D S L G G M T I A
UniRef90_X0R6H9 Y G Q T M E A M S G I T S L I G Y A E D G V P L G S G S A Y V D P I G L S G A
UniRef90_A3W1Z0 Y D F L M Q A E A G L M S H L T G D P S A D P T R F G V S I I D F M T G T V G V
UniRef90_L8F2B8 Y D F V V Q A V G L M S I T G E P S G P P L K A G V A L V D V L T A K D A T
UniRef90_R4T5N8 Y D M L I Q A E A G L A J A L T G T P D A P A K T G I P T A D I A S G M Y C A
UniRef90_C9YBV7 L D E V V Q M M G L A Y M T G R P G D P L R A G S V N D I L M G S I F G A
UniRef90_D0WJQ3 F D V T C Y M G R G G V F G T T V N K G D A P M I P T N G Y G D F Q A S M F L A
UniRef90_U7Q743 H D I N Y L J A V S G V L S L L G R S D E K P P W N I L A D F A G G G L M L A
UniRef90_UPI000262A766 Y D L L V Q A V G G L M S I T G R S D E A G G E P V G V A L V D I L T G L N A V
UniRef90_A0A010ZZQ1 M D S I I Q A L S G L M Y T S G E P D S D P V R N L K Q P A A R E V F L D L V R
UniRef90_UPI0003689E15 T E E V L A Y L S G V L S R S G A P G A P L L P P A G L V E G T V G V H A A W
UniRef90_UPI0003B4A8B3 F D G T A F W S R I A D C M T P E E L E G P L S Q G I Q A F G D S I G G M F I A
UniRef90_K0ZCE2 Y D L T V A A Y A G I T A Q N G T Q E Q P M N I A P Y S V D Y F N S L M V V
UniRef90_UPI0003746298 Y D A V V Q A E S G F M Y M N G E H A G P P T K M P V A L V D L L A A H Q L K
UniRef90_F9WZW5 W Q Q I S D A C C G V S L A Y G K A M G D E A V T P V F P N S D Y C T G L I G A
UniRef90_X0QPW1 F D A T C Y M A R G G V L G T T M E K D E T P M N P S N G Y G D F Q V S M C L T

UniRef90_L0FYX0 G L A A L V H R K R T G K G S R I S L S L L E S L L D M Q F E V L T T Y F A S
UniRef90_UPI00037C25E1 G G I A A A L F A R R A Q T G E P S I V D V S L L J A S G A W A N A M S I D A L J A G
UniRef90_F6ILA4 G H V A A A L Q R R R E T T G Q G G H I D A S M Y E L C V I Q Q M R D F L A M A R A
UniRef90_UPI00044081DD L G I L L A L Q R R R N T T G K G Q I V E T D M V I S G S R Y V I S S F L I N D N A K
UniRef90_B1M3W1 A A V L E A L T A R G Q T G Q G G A L E V S L F S G A A D W M N V P L L Y F E G
UniRef90_X8I2J1 G A I M A G L L S R Q Q T G K G I L W L C N L F E T Q T A G L A N L A S N Y L L T
UniRef90_E3J897 S S T L A A L L Q R Q H T G R G Q W L D V A L A D C V M H W M N P R L G Q F A S
UniRef90_A0A058YKL5 G L L A S L L R R E R F G G G G E T L R T N L L S A A L S S M V N M T S A A V A
UniRef90_D7WBR4 M G M M A A T V S A V L J A R A R Q T G K G D R V S L S L Y G T A V W L A N L L V S
UniRef90_G5HIK8 F A V S S A L F Q S R R T G Q G S F I D V S M L E T A L T L M S S T V T D Y L K
UniRef90_G5ZWI5 N A I L L A L E H R R R T G E G V F V E A A M V D A A L S L A A E Q V L T E Y S A
UniRef90_Q742X7 Y S I L A A Y I H R R Q K T G E G Q Q V D V A I G E C G I P W F T W E A A Y F G
UniRef90_U2E738 G G I A A A L L A R E R G Q Q P P V V D V S L L G L G L W N L G F P V V A A K Y
UniRef90_X5LZH0 L A V V T A L R H R D A T G Q G Q R I S I P L E N V A L A T A G N L S L F T E V
UniRef90_L0IWH8 N A L L L A L E H H R R T G Q A V L V S E S A M A D A A L N A A E Q V I E F S A
UniRef90_A0A024QVS3 H G S I C A A L V A R A R T G Q G Q K I D A S L F E T T I S I L L N N V G M S W L
UniRef90_Q0CAZ1 Q G L L A A L V A R H A T G R G Q T P L G S
UniRef90_C9SFG2 Q A V L G A L I R R Q K K G V G A Y I E L S L L E S A I S L Q F E L F T T F F H
UniRef90_W0F1A3 P L J A G A V A A M A V S A S L A R V A H T G V G S F V D V S L D D V A T W M L S
UniRef90_UPI000373930E V L L V A A L F G R Q S G E G C F L D L S L M E T V L G W Q G F N L T A D A
UniRef90_G8AJ19 A L L A A L L A R E R H G E G D V V E V A L Y D V A V S L Q A P H I T R Q L H T
UniRef90_F4CVS1 A G G I A A A L F R R R E R S G E P S V V D V S L L A A A I W Q L J A P D I V G A G
UniRef90_Q0RJY0 L G I V A A L R R R D R T G E G A Y L E L A L E D V A V S A V A S M G W L A E A
UniRef90_M2Z046 I A I Q S A L I M R A R T G K G Q H L D M A L F D C M S G V L A N Q A M N Y L A
UniRef90_G8T1P1 A G V I A R L M V R L D T G R G G P A H T S L V Q G A L V P M G M H W A R S E T
UniRef90_UPI0003B68871 G V L T A L R S H A A H T G E G Q R V E V D L L S S L A A L A N Q G S A Y A V
UniRef90_UPI0003081526 L A I M A A L L H R R Q Q S G E G Q V V E A N M V D G S A Y L A T F P R F A L K N
UniRef90_UPI000262CC12 A I L G A L I R R Q R E G K G A Y I E L S L I E S A I G M Q F E L F T T F F H S
UniRef90_UPI00035C4D9A Y A A A M T L S F L T R R G H R D G H G E L L D L S K L E S Q I L G L T Y Y P V T
UniRef90_A0R1R9 Q G I L M A L A R E R N G E G Q V V E A N M V D G S A Y L A T F P R F A L K N
UniRef90_UPI0003634E64 L A A R V T A L A A L A A L I A R E H G R S G A H V H I S Q A E A A V H A L A P
UniRef90_W9GJJ9 T G L L S A E L R R R T G Q G S Q V R V V L E D V A L A A A G H L G Y L A D A Q
UniRef90_UPI0003634E64 L G L V S G I F S A R E T E K G R D I D L S L F D N A L Y N L N Y V A M W Q L
UniRef90_K5BCW8 S A I L T A L I G R D R G R P L T E L R T S M L A T A T H A L T D W V V D Y P G
UniRef90_C4JLZ4 L G I L L A L L S R Q T T G K G Q V V N A N M V D G S A Y L A T M P R L S R K T
UniRef90_UPI00036D7DA7 I A I M A A L L H R R Q Q S G E G Q V I D L S T M E A A V S T P S G M L H P Y S F
UniRef90_UPI0003690452 G G I M G A L F H R E R T G E A T T V D V S L L S A V W S M G Q A M A L S L L
UniRef90_F5YRT3 G L L A L I V S G R G G Q V E V S L L D V M L S Q L N Y R A S A Y L N
UniRef90_UPI000471E575 Q S I L K A I I S R S V K G K G T Y I D C S L M Q A A A F Q S A K I V E H H L
UniRef90_V4P5L2 A M A S A A L A R R H E T G R G G C H I D A S M Y E I C V I Q Q M R D E I L A A Q T
UniRef90_F7V0S8 A G I L G A Y A G A L R T G V G D K V T T S L Y H V G T W G M T C A L I A E Q Q
UniRef90_UPI00037695B0 Q A A L R A R D G A A D H P G T G V V K V T L L G S L A L A N Q A S T L E
UniRef90_M2SCF0 Q A V T A A L Y E R E R S G R G Q H I E L A M L D A A L A F H W P D G L W H E T
UniRef90_R6H961 L G L G I M S A V W R A Q R T G M G D H V T V N L H H M A L W G M Q V P V V S A
UniRef90_G1X487 T S V L H A L I E R A E K G G S Y G V D V S L N Y Y S Q W L V R S C G T Y D D E
UniRef90_A1SP88 F G V L A A L H E R S R T G R G R F V D A S M V D G V L S M M G T W M T A W G T
UniRef90_R7X1S0 Q A V L A A L V F A Q R T G R G R W L I S M T H E V F R A N L V P A V A L H R
UniRef90_D5P3W7 I A A L S A L I H R H R T G G G S H V D I S Q A E V V I N Q L D T L Y V T Q A A
UniRef90_J9WH86 G G I A A A L Y R K A T T G Q G S V V D V S L L G L A A W N L S P D V A V S Q I
UniRef90_UPI00047E0E4A Q A V L A A L R R E R T G E G A V E V S M L E A T V E W M G H S L Y T Q M Y
UniRef90_Q07IJ2 Y G A I V T A L Y Q R E R T G T G S E V K S N L M A N G L W A S V L A Q A K L
UniRef90_UPI0001DD0578 A I G V V A L L I R R L R T G R G G T A V A Q A E V A L K H
UniRef90_UPI0004675BC7 T A I A A L A L T R G R G G H V H I S Q A E A A L N Q L A A T F V A E S
UniRef90_Q47018 G I L A A L C R R R Q R K H V G A T V N S S L L E T A I A W M T V G I A N Y N
UniRef90_J8S8J0 G G I S A A L F H R E K T G E A V E L D V S L L S A A W A S G A V I A Q V A E
UniRef90_A0A058U0H7 G G R W N G K T G E E C Q S G Q G M L D V A L Y E S V F N V M E S L V P E Y D
UniRef90_UPI00040797A2 A A L M A L Y E R R V T G R V A D A W G S L L N T G M F L M S D Q I Q V G D S
UniRef90_C8WPU9 I G I M A A Y I N R L R T G L G D Q V S C S L Y G S G M M S A M V P I L I S G
UniRef90_UPI000427CC5B Y S A I V T A L Y R R E R T G K G H V S T N L M A N G I W A N G V L A Q A K L
UniRef90_B1G4W5 L G V L A A L R D K G R D D P E R G R I V D V S L Y E T A L A W M T V L S D C
UniRef90_F0FX60 T G V V A A L F E R E R T G R G Q H V G S S L L E S L V S L S V H G Q R Y L S
UniRef90_I0S258 H G I L A A L H E R D R S G L G Q V L V D A D L V R G V H S L D A W N W F G E M V
UniRef90_H0TN62 Y G A I V T A L Y Q R E R T G K G C H V A S N L M A N G V W A S V L A Q A K L
UniRef90_I8QEU7 V Q G I A A A L V E R E S S G L G Q H M I D T W S W F E H L V A V R F P D A Y R
UniRef90_A0QTN1 A L T A L T L L R R E R T G T G G A V S V A Q S E V M L S H L A G E I A E V
UniRef90_F0GH12 L G V L M A L R E R D R S G R G Q F V E A T L Q D C A L S I L H P H T P A Y F H
UniRef90_K8PB21 A A I L E A L I G R S H S G Q G A D I R I S M F D V M A D W L A V P L L N A E
UniRef90_E3HRV5 S S I L L A A L M Q R Q H T G R G Q H L D V S L T D C V A H W M N P R L G Q F S S
UniRef90_H0E2F8 I G L L A A E R R R T R T G E G T L V R L A L S D V A F A M V G N L G R I A E A
UniRef90_C5KM51 G G V L A A L Y N A K M T G Q G R H V K C S L L E S Q V S A M A N V A S G Y L I
UniRef90_C1B5L6 F G A V C A A L R L R D R T G H G D K I S I N L L D G Q V A T F A N Y I T V Y D K
UniRef90_UPI0003828248 F G A M A A L L R A N E G G S W H R V S
UniRef90_G2QRP2 A D F A G G A T L V L I G V L L A L L V R E R N G G R G Q V V E A C M V D
UniRef90_G4HSL1 A V T A A L M Q V Q R G R G F L D C A M L D A A A A L T A A P A A L A L S G
UniRef90_G4MN30 I A A L T G L Y H R A K S G G S W H C R A S L M H Y
UniRef90_E3J6J2 G G I M G A L F H R E R T G E A T E V D V S L L I G T G M W A M G Q A F A L S L L
UniRef90_X0R6H9 A A A L L T A L Y A Q I R S G R A Q H V D L A Q R E A A M H W I A D I L P S S A
UniRef90_A3W1Z0 L G L L A A L R K A G Q T G E G C D V D V S L F D V A L H Q L G Y A G T W Y L N
UniRef90_L8F2B8 T A V L A A L R H R D R T G Q G Q H V E V N L L S L L G S L V N Q T S G Q L A
UniRef90_R4T5N8 Q A V L A A L R R R W T G E G A T I E V S M L E A T V E W M G Y A L N T R M Y
UniRef90_C9YBV7 V G A M A A L M Q R Q Q T G K G Q E V Q S A L F E N N I F L V A Q H M M Q F A V
UniRef90_D0WJQ3 S G I L A A L I G R E K T G A G D Y V T C A L E H A A I Y A L S T G M V S A Q Y
UniRef90_U7Q743 V G I L L A A L A A R Q Q T G R G Q V V E A N M V D G A S Y L A S F P R F A L K T
UniRef90_UPI000262A766 I G I Q A A L R A R D A A A R G Q H V K V T L L G S L L S A L A N Q A S T L E
UniRef90_A0A010ZZQ1 H A D V V V E E V E Q S G V G Q Q V D V S M L G A L T S L L S I E P F D A F E
UniRef90_UPI0003689E15 A A L L A Y H Q R C D S G I G Q E V D V S A F E A M V H G F D P A F M T Q G T A
UniRef90_UPI0003B4A8B3 G G I S A A L F H R L R T G E A K E L D V S L L S T A T W A G A N M A Q E T G
UniRef90_K0ZCE2 S S S L A A L H K A R A T G Q G E S I D L A M Y E T M M R I G S Y Y L M D Y M N
UniRef90_UPI0003746298 E A I L T A L Y Q R T H S G K G Y V T V S L L E A A V S A L A N Q A T N Y L V
UniRef90_F9WZV5 T S V L H A L I K R A E E G G S Y G V N A S L L Y E A S Q W L I R S V G E Y P T S
UniRef90_X0QPW1 A G I C G A L V K Q M N Q G V G D K V T V T L H H A A L F M Q N V A M V S A Q Y

UniRef90_L0FYX0 G K R P L R S A V N S A H P L L L G A P Y G L Y A T K D S H L A I A M I P L A 210 220 230 240
UniRef90_UPI00037C25E1 G P I S S G S E P R S G V P G N P L V G M Y E T S D N R R H L N L C M L Q P G R Y
UniRef90_F6ILA4 G Q H P R R L G N A L D P A V P F Q D V F P A A G Q D R W V A I S A F T P E E H
UniRef90_UPI00044081DD E N W K N G R G T K A L D P G G A P Y D N V Y T C A D G D R W M T V G C L E A Q F F
UniRef90_B1M3W1 T G Q A P R R V G L A H P S I C P Y G A F P T A D G S L V L I S I Q N E R E W
UniRef90_X8I2J1 G N K E A S R H G T S H P S I V P Q D V F P C K D G F L M I G A G N D K Q F T
UniRef90_E3J897 S A D G T F D R G G T G R G V P I P Y D R R L Y A C A G G T W V A V T A A E P R T W
UniRef90_A0A058YKL5 A G L A T L A Q Q R H D V L C K P A Y G V F R T A D D A H V A I A A L E D H F W
UniRef90_D7WBR4 S D A E M T R T G N D H P S I F P Y G P F P A K S D R E L V I C V G N N K Q F A
UniRef90_G5HIK8 G S Q Y G F R L P K R R E D S S P F G A P F K C S D G R W F M P Q I V N F S R D
UniRef90_G5ZWI5 T G N E P K R R G N L A N S R S P G A G N F P C C Q R G I I S L G V N E E Q H F R
UniRef90_Q742X7 Y G A L L E R A G N R G P T A A P Q N L Y L S A D V D E W V A I A V A T D D D Q W
UniRef90_U2E738 E G R E P P T G W R H R V I S A P Y Q A L A T R D G Y F M L G C A N Q R T W E
UniRef90_X5LZH0 E G K T M P P H D P D N L P N P I A R A Y Y Q T A D K R H L T D R F W P D L C E
UniRef90_L0IWH8 M V N G L T A R E R L G N S V Y G Q Y G Q D F T S S D G T S F M I V A L T G R H F
UniRef90_A0A024QVS3 Y G A L L Q R D G N R G P A A P Q N I Y R C A D D E W V A I A V A T D A H W
UniRef90_Q0CAZ1 N L G K E G K R W G T A H P S I V P Y D A F K T K D S L L V I G A V N S R Q F K
UniRef90_C9SFG2 N G R G R N L L D G G C P Y Y D T Y E T S D G R Y M S V G A L E P Q F Y
UniRef90_W0F1A3 K Q E G L R R S K L N N G N P L L G A P Y G V Y K T A D H F L S L A M M D L Q Q
UniRef90_UPI000373930E G M P G R F S G V E S G M G W A A G R R L Y R C A D G R W V T V A A E P R T W
UniRef90_G8AJ19 R G E V P A R G E A L L S G G A A C Y R I Y R T A D G R F A T L S A L E A K F W
UniRef90_F4CVS1 A P E H A H L T E T G R A S L A V A P Y S G P F R A A D G W L M L F A Y V P R H W
UniRef90_Q0RJY0 V T G A P I P K F Q L E E M P N P V A N L Y R T G D G R F L A D R F W A D F C T
UniRef90_M2Z046 E D R G A G R E R Q G N A N L Y G S Y G S D F A T A D G R A V M V V G L T A G Q W
UniRef90_G8T1P1 S G K S P K R M G N A H P N I A P Y Q T L S V S D G Y F I I A C G N D G Q F W
UniRef90_UPI0003B68871 P S V P M A V G M P K H G R G S Q A T L V E C S D G V W V H L M K C P D M Q K
UniRef90_UPI0003081526 A G H V A G R M G N A H P S I A P Y E P L P T A E G E L V L A V G N D R Q F R
UniRef90_UPI000262CC12 N H N E P T R V G N E N M T S A P S G A F K T Q D G L I N I A A N Q D R Q W E
UniRef90_UPI00035C4D9A R N S I H R S K V N N G N P L L G A P Y G L Y K T A D H F L S L A M M E L R
UniRef90_A0R1R9 Y F E M L G R P W R T E R R P T V P G V A Q A A D G L V A L G C G T A Q Q W F D
UniRef90_A0A010QF86 P L G D N G R G R N M L D G C P Y Y D T Y E T K D G K Y F A V G A L E P Q W F
UniRef90_G7CLZ5 T Y V L E A A R S A G L P V P A V H G V Y P C A G D D E W C V I S L R G D D D R
UniRef90_W9GJJ9 L G A N P E R T R E G N F M Y G G F G R D F T S S D G R F M V V A L T P R H W
UniRef90_UPI0003634E64 A G H N P H R Q P R S A H F S L T P C Q L Y R T K D D W I Y L M C N K E K F W
UniRef90_K5BCW8 A P A A P E P A H D G N G L S A L Y R I Y D A G E G R V F L A A P Q P K E W V A
UniRef90_C4JLZ4 P M W N R P R G T N V L D G G C P Y Y G T Y E T K D A G N Y E A I G P L E P Q F
UniRef90_UPI00036D7DA7 T G R S P K R G S D G N V M D G M H L S T K D G E V T L T T R P M E A W S
UniRef90_UPI0003690452 L G V P W T P P P A D Q Q R M N P L S G N Y L T S D G R W L S F T C L Q A G K Y
UniRef90_F5YRT3 D G V E P Q R H P H G A H S Y Y V P A Q L F P T A A G Y L A L F V T H D G F W
UniRef90_UPI000471E575 E G G E P S K L Y V P A A T M E T S D G Y L G I A V M R E A H Y A
UniRef90_V4P5L2 G A P P Q R R G N D E A G V F W Q T V L P A R G D D
UniRef90_F7V0S8 G C K H P K D R M N N S Y S I S E D G V W F L M C F G N Y N K Y C Q L V F D T G E
UniRef90_UPI00037695B0 T G V S P G R M G N A H P S I S P Y E T L D A A D Q A I A L A V G T D I Q F
UniRef90_M2SCF0 F P G V I G A D Y P P Y A R L N R P V P A K D G A V I L G A M Q Y K E A Q A L A R
UniRef90_R6H961 P F G V P P F K S R K A V P C P T N N S Y M T A D G V W F L I C Y G T Y D S W Y
UniRef90_G1X487 I W K E L W S R H G S V P R H Y Q P M Q
UniRef90_A1SP88 S I M P A R G E G L M S G K A P F Y R C Y R C G D G E W V A V G A I E P R F F
UniRef90_R7X1S0 Q G H V S R A G T D L L N G G V P C Y Q V Y R T Q D D E R Y M A V G A L E L K F W
UniRef90_UPI00047E0E4A A A A G V P R I A D D T S L H A V Y P C A G D D E W C V I S I G S D E E W
UniRef90_J9WH86 H G G S S I P K Y S H A D A P N P L V G T Y R T K D D R Y V Q M M L Q L D K F Y
UniRef90_UPI00047E0E4A T G R Q P Q R M G V S H V S I A P Y D T Y P T A D G D L I G V I Q S D G G W R A
UniRef90_Q07IJ2 V G A E F P E R R P R E R A L N A V I A N H Y R C R D G R W L I L S L N E E K Q
UniRef90_UPI0001DD0578 F A A Q I A R G G D A G E S A A G R L V F A A A G D D E W C V I D P Q T E K Q R
UniRef90_UPI0004675BC7 A R A A G H S I D T G D T A F D G V F P C S G D D E W C V I S L R S P S H H
UniRef90_Q47018 A D G D T G G R H G S G V G F I V P H R A Y D T A D G H L V V S C A N D R L F A
UniRef90_J8S8J0 T G V L T R N P M P G S G A A R N P F M Y Q T S D N G T I N L C T I S P T G H
UniRef90_A0A058U0H7 V A G V I R E R T G G A L P G L V P S N T Y T A D G Q N I V I A G N G D A I F
UniRef90_UPI00040797A2 F A G V P E I D R D L L G T S P T H R L Y P V A D G W N I A I A R S D T Q A
UniRef90_C8WPU9 Q K P Y N N L W P K G R E N V L P F S C M Y R G S D D R W I M W H K D W P R F V
UniRef90_UPI000427CC5B C G A K F S K R R P R E H A L N A V I T N H Y K C K D G R W I L S L L N E E R Q
UniRef90_B1G4W5 L A G G P E P T R I G S G S P N I V P Y Q V F D C K T D G A I L V A G N D T L Y
UniRef90_F0FX60 L G D V P R R T G N A H A V I A P Y G V F E T A D G P L N L A P I T T D M W L
UniRef90_I0S258 G L R W P D A Y E N V E A W T E E G T P Q S P T K D G H W L Q F A Q V S P H L F
UniRef90_H0TN62 C G A Q F V E R R P R E R A L N A V I A N H Y K C Q D D R W V M L S L N E E K Q
UniRef90_I8QEU7 T V I E A T T P A G D P V I S A L I Y P L L A A P T R D G H W L Q F A Q V E P R L F
UniRef90_A0QTN1 L Q R Q G H A R S D E P V H D A P W G L F P A E G E D K W V A V T V R D T T D W
UniRef90_F0GH12 S G R T P V I R T G N A H P N I T P Y
UniRef90_K8PB21 A G T P P K R I G L A H T S I A P Y G V F T S K D D R D I L I S I Q S E R E W K
UniRef90_E3HRV5 A G L A S L A A Q R Q D V L N K P A Y G V F R T R D G A C V A I A A L E D H F W
UniRef90_H0E2F8 Q L G A R D Q A K D G N Y L Y G A F G H D F E T R D G R V M V A L T G R Q W
UniRef90_C5KM51 G G V E C A R M G T Q H P N I V P Y G A F P T A D G H I V N D A Q W K S F C N
UniRef90_C1B5L6 T R V P F R P Q G G G H P Q L V P Y Q P F L G S D Q K Y F V L A C L S D K F W Q
UniRef90_UPI0003828248
UniRef90_G2QRP2 F S Q P G A R N L L D S G C P F Y D V Y E T K D G G W M A V G A L E E R F F
UniRef90_G4HSL1 R R M G S E S D L F V P S K V F D T A D G Q Y I H V V A L S A A H W
UniRef90_G4MN30
UniRef90_E3J6J2 L N V P W V P P P I E M A R A N P L V A T Y Q T A D G R W L S L C C L Q A G H Y
UniRef90_X0R6H9 N G T E P S I T G N A A P G A F P H D A F P A N N D E W I A I A H T H E Q W
UniRef90_A3W1Z0 E G L E S R V J A R G S H M S V S P V Q T F T A Q D G W I Y V M C M T E R F W
UniRef90_L8F2B8 T G R D P G M G N R H P S I A P Y E T L A C R D G E P L A V A V I G N D R Q F
UniRef90_R4T5N8 A G T E P E R M G L S H S I A P Y D A F P T R D G E Q M L I G V Q N D T G W R
UniRef90_C9YBV7 T G K A A A P M P E R I S P W G I Y D V F S V K D H E Q I F L A V V G D G Q W
UniRef90_D0WJQ3 G N Q Y P K S R R E V N N P L N N V F H S K D D K W V L C L P E Y N R D
UniRef90_U7Q743 P L G D H P R G Q N L L D T G C P Y Y D T Y E T S D G G F M A I G P I E P Q F F
UniRef90_UPI000262A766 T G V A P G R M G N A H P S I A P Y E T F A A D Q P I A L A V I G T D G Q F
UniRef90_A0A010ZZQ1 L L G A P T R T G R T L P R L A P F G M F P A K D G W V A L C A P T D T F A
UniRef90_UPI0003689E15 A A G R A E D F P R G R P D A A N F Y P V F R C R D G H V R I C R Q W R A M F S
UniRef90_UPI0003B4A8B3 I V T R N S M P R S G G S R N P F M G N F R T S D G R T I N L C I E D T F H
UniRef90_K0ZCE2 E G I V W P R P G N R H Q N L C A I G E W E C K D G Y I G L C V Y G V P Q N K
UniRef90_UPI0003746298 A G H N P Q R M G S A H P N I V P Y G S V F T D K N G Q P L V L A I G D R Q F
UniRef90_F9WZW5 I W R E V W S R H G S P Q F H N Y H A M S Y
UniRef90_X0QPW1 G N T Y P K S R K E I A N P F N N T Y K T K D D R W L V M C V P V Y E R D

UniRef90_L0FYX0 P L R E A L G C G E L E R F D Q S M V F T H R D A L K Q V L A D F L K S A T T D
UniRef90_UPI00037C25E1 W A D F V Q H L D R P R F D S A E N L M T N W E P A S E L V A A A L G S K P L A
UniRef90_F6ILA4 S R L L E L E A G P D
UniRef90_UPI00044081DD R V F I E K F G D W R P T M E M L T N E E H W P R F R A F L D G G F R T K T R D
UniRef90_B1M3W1 A S F C P D L A R A E G F A S N N A R V A N R A A V D L R V G A E L V R L S R D
UniRef90_X8I2J1 L L A D K V L G K P E L A T D A K F S S N G Q R V K N R A I T D A L M Q E N R D
UniRef90_E3J897 G A L C D G L G L P D L K G S L H R W D D P D G V T R R L A A V F L T R P A E
UniRef90_A0A058YKL5 Q A L R P L A G L A G P L A T Y R E R E A Q A G E P I N D A L A R A V R G R T C Q
UniRef90_D7WBR4 T L V N P E L A G D D P R F A T N E Q R N A N R E E L R P L T E L L A S K N A D
UniRef90_G5HIK8 A V F Y K L L G A D D M A D D F N R V A E V C G P V I R R F E G I F A A K T A E
UniRef90_G5ZWI5 N L G R E D W L R D P R Y A D R Q Q R Q A H I D Q F V S E L E A E L I K Y D V A
UniRef90_Q742X7 Q R L C R A L G S P S W A M D P E G R R T H Q D F L D K Q L A A W C E C R G R D
UniRef90_U2E738 R F C N D V V N K P E W I D D
UniRef90_X5LZH0 H L D R P D L I D D P R F H N A D A R R A N N R E C I A V L R E I F G A R T L A
UniRef90_L0IWH8 R D L T E L T G T D A N F S D E G E R Y R H R G A L S G L F T E W F S Q R H T S A E
UniRef90_A0A024QVS3 K A L R E A L T G A P E W T A T H A G R V A Q H D L I D E H L A D W C A T R S G D
UniRef90_Q0CAZ1 T M C K Y I S K P E L A D D P R F S N N D A R V N H R E I L D N L F A A H T T R
UniRef90_C9SFG2 K A L T R G L G L E G Q W E A K R Q D P Q Q V W P A M R A L F T E V F L S K S R T
UniRef90_W0F1A3 L G E A L G S E A L K Y G P G D A F K K R D E I K A L V A A K L R T G T V
UniRef90_UPI000373930E Q A L C R V L G A E D L V E R L R A G A D E Q V A M A E R F E K V F V T R P A A
UniRef90_G8AJ9 Q G F C E A V G R P D W I A R Q A D P L P Q A A L I A E L D A L F A S R C L A
UniRef90_F4CVS1 T L L T E A L G R P D R F V D Q V E R A R H P V E L A A L E D A L F A G H T V A
UniRef90_Q0RJY0 R L G R T D L I D D P R Y S D A K V R F A N R R E C I A E L R A T F E S A P L S
UniRef90_M2Z046 R G L V E V T G T A E V F A A L E R H R A A R D E I T A I L R P W F A A R T L A
UniRef90_G8T1P1 K L S I G E L A K D E R F A T N S A R V A N R A A L T A L L K E R T K Q W K R D
UniRef90_UPI0003B68871 A F A E M G E A N V A A N E A A G A S N F G Y P N M G A N I V A M R T R P S Q
UniRef90_UPI0003081526 S L A A V L G R P E L A D D P R F A D N D L R V K S H R G E L R D A L A G R S P A A
UniRef90_UPI000262CC12 Q L V T V L E A P E L N E N P L Y Q S R E L R V K S N R Y T I E K L L M N R S T T
UniRef90_UPI00035C4D9A D L A A A L D W E L N A F D Q Q D V F Q K R D E I K T L I A K K L K T N T T R
UniRef90_A0R1R9 L C A M S G H D E W I D E T T E L T I T E Q A N L H A E E L Y A W L R E Q R V D
UniRef90_A0A010QF86 A A F I K G L G L A G W E E E R F D R S R W G E L R E L F T K I F K S R T R G
UniRef90_G7CLZ5 D R L A A L I G A P L P T D R A E L D A A I S A W T A G Q D N L
UniRef90_W9GJJ9 T E L L Q A M T G L A E D F S D E G E R Y R H R A V L A G L V A E W F S R H D G P
UniRef90_UPI0003634E64 T E L C K I T E H P E R F L D F K T R L K N R D Q L T E L D M I L S K K T T N
UniRef90_K5BCW8 A M R D F A D L A D E R F S T P Q Q G R A N D A D L A Q R L E A A F R K E P A E
UniRef90_C4JLZ4 F E A L L R G L E P P N S N G R R E D P A N W P H M R G V L E K R F K E R T R K
UniRef90_UPI00036D7DA7 E F L E E P R L L D P K F A T R Q S R M E N W E E L H S L V A P T L A R W N L
UniRef90_UPI0003690452 W A P M C E V I T D P R F A D H A S L L A N S G E A I A I L V E V F A A R P L A
UniRef90_F5YRT3 K S F A T E A G L D G F A T M E E R A S R R S E V L A V V T A A L A G D T A A
UniRef90_UPI000471E575 S L C N V L G R P D L I D H E D Y N S R E N E A P L M I E L R E V F L K K T T A
UniRef90_V4P5L2 R W I A I S A A T Q A E L D R L L A L A G G P L E A W T A Q H D A H
UniRef90_F7V0S8 M D P K Y Y T D P E Y N T L E A D P R A E N G K Y T E V D A A I H Q A C K K F P F E
UniRef90_UPI00037695B0 A R L C E V L G V P E L A A D P R Y R V A H R A E L R T A L E A P L R T R P A A
UniRef90_M2SCF0 A V G M P Q L M E E E R F S T L E K W R A N G G D F W R A L K A K V A E T P V A
UniRef90_R6H961 P F V A R L I G L E E Y A D D P R F T N C D N A T V V N M M A E A F A K H D W A
UniRef90_G1X487
UniRef90_A1SP88 R E L W R V V G L P G E P P D H L D P A G W P D L G A R L E A V F A T R D R D
UniRef90_R7X1S0 Q T L C D V L G R S D W K L R H W S L G Q V I G G D D A R A A A V F A S A S Q A
UniRef90_D5P3W7 R C D H H E W A D D S P R F A T G E A R L A N R R E L V E L V A A W T R K R T P V
UniRef90_J9WH86 P E A M R A I G E D E R F A S P A A R F A N R T E L I S L M D E V F A K R T L A
UniRef90_UPI00047E0E4A V L G T P D L V D D P R F D S N I H R V E H R H E C D A A V A G Q T R R W T A
UniRef90_Q07IJ2 W P V V A T C L D D P H F A S K A D R H A H S I D L I A L F D Q V F A S K D L A
UniRef90_UPI0001DD0578 L A L A E L L G V T D L D R L I G A L J E E W V A A R P P E
UniRef90_UPI0004675BC7 A A L A A L L G R T E L P T S R A E L R A T V S H W T S T R D K G
UniRef90_Q47018 R L C R P E W A T D P R F A T N D G R L R H R A Q I D G L I G G R L A E H P R A
UniRef90_J8S8J0 I R S M F E H L G V P E A A D D P R F S E P R A L F E N A G A A A F A S Q T P F E
UniRef90_A0A058U0H7 H R L M L A I G R E D L A R D N D G R A R A A E D G A I Q A W C D R Q T I D
UniRef90_UPI00040797A2 Q A L W T E L V I G N T P A R H A A D W G P A E Q E L L E A R L R E L P L A
UniRef90_C8WPU9 A R L G L D P E L V I T K Y P D Y M T A L A K S N E T I P M L D E L F A T K T V Q
UniRef90_UPI000427CC5B W P T L M R C L G R E R F A T K A D R H S R S V E L I R I F D E I F V T R P L A
UniRef90_B1G4W5 R R L C N V M A D D P R F S T N G D R V L N R K V L I P L L E A R F A Q K P A G
UniRef90_F0FX60 R L C E R E L P H D P R F A T N D A R V A N R D A L K A L L E S R L R T R G K R
UniRef90_I0S258 A A M L T E F G M M E L L A D P K W K G F Y K E F W S I M L A K V G E R T L A E
UniRef90_H0TN62 F P L L A R C L G M E R F F V T K A G R H A H S V E L I A E F D R V F A T R P L A
UniRef90_I8QEU7 A A M L A E F G L T P L D D P K W A G L P V L I E T Q E L R T E L W E I M I R K
UniRef90_A0QTN1 Q A L C G V I G R A D L A A D P A G R D A D R A R I D E A V R A W T S A R T A T
UniRef90_F0GH12
UniRef90_K8PB21 K L C A E V M A M P D L P N D P R F C N M V E R V R N R K L T D V F K T M T R D
UniRef90_E3HRV5 L R L V I Q A F L S T A E T S S Y H Q R V T L A T D I N H A I A G H V A G L D A P
UniRef90_H0E2F8 S A L Q D A T A I H E A C R T E S G R F E G R D L I A A L R P W F A A R D L A
UniRef90_C5KM51 V L G R P D L E Q D E K F T N E A R C N H R D E L N G I L N E I L K T K R T E
UniRef90_C1B5L6 K L L P M L D E Y G D F R D P R Y R T N E H R G E L C E R L Q T I F G K R P A D
UniRef90_UPI0003828248
UniRef90_G2QRP2 L E L V R R L G I R G W E Q G R R H D R R L W P A L R R E L E E V F K T K T R D
UniRef90_G4HSL1 R A I C T T I A R E D R F A S N S D R L G H R E F L H G E L A R E F R R E S A Q
UniRef90_G4MN30
UniRef90_E3J6J2 W P L L C A A V D R P R F A D H A A L M S N G V E A G E A L K A V F A A R P L A
UniRef90_X0R6H9 R A L C D V L G W D D W R D D S T D R R E L N Q D L I T D R I T H S T A T A A K S
UniRef90_A3W1Z0 E L M V D K L G R N D L K T D P R F V N Q H R D A L T E V L D A E F A K A P A E
UniRef90_L8F2B8 R A L A H A L G A P G L A D D E R F A R N Q D R V R H R E L E E R L A A D T P A
UniRef90_R4T5N8 T L V T D V L D A P E R F T N V Q R V A H R D E C D T A V A A R T S L W S N S
UniRef90_C9YBV7 R T F C E A F G Y A D L F A D N V T T N D R W L I P E L R T R L A Q F S R A
UniRef90_D0WJQ3 W P R V M K L I H R E D L A E H P D Y S D V I Q A V N T D I L D E G F A Q F T R D
UniRef90_U7Q743 Q V L V D K L G G Q Q W E T R R Y D R T Q W P S L R A A L T A F R S R S R A
UniRef90_UPI000262A766 A R L C D A L G L P E R F A T N P Q R V A H R V A R A E L E T A L R A R S A A
UniRef90_A0A010ZZQ1 A G V F R A M G T P E L A E D P R F R T R D Q R V G H A R L D E W T G T R T R D
UniRef90_UPI0003689E15 W L G E P A E F A D P K Y D T I P A R F A A D R L H P L I A R L F A G H T R D
UniRef90_UPI0003B4A8B3 H V I G R P E A A D P R F K D V L S L I E H A D A S E L I V Q A F G K S F D
UniRef90_K0ZCE2 Y L L W G T E D Y P E D T S A L W L N G P K A D L I Q K L T E Y L K T Q Y K K
UniRef90_UPI0003746298 K R L C D V L G T D A G Y A T N K A R V I Q H R D A V N Q E L A R Y L E Q Q D R E
UniRef90_F9WZV5
UniRef90_X0QPW1 Y N K V M T V L G R E D L I D N P R Y N H L N A E F V Q I M G E A F K K Q D L D

UniRef90_L0FYX0 H W L A K L R E K G L W A M D V K D W K Q L K A T Q G Y R Q S N L E Q I T K
UniRef90_UPI00037C25E1 H W I E K F R T L E G Q W G A V Q N A L I E A G N D V Q L R A N G T I I D V N G V
UniRef90_F6ILA4 A L A A Q L Q A A G I A A G A L Q D C E D L I E D P Q I A T R E V L W D L D H P
UniRef90_UPI00044081DD E W A S V F H G S D A C A G P V L Q S P E E A A K A A G S
UniRef90_B1M3W1 A A A A R L K A A G T A Y G F V N T L A D L J A A H P A L I R A E V R T P S G P A
UniRef90_X8I2J1 H W L Q K F Q G L G V P H G P I N N I E Q T F D S D P Q A K A R G V L T V E V E H P
UniRef90_E3J897 D W V A E L G P Q G A G S V V R V N R G P D L T S D H P H A T A R G V L Q Q V G D L
UniRef90_A0A058YKL5 A L M E V L T A A D V P V S R V E L P G E L G Q S A L A R Q R G L F D A G D G Y
UniRef90_D7WBR4 E W L D L F R A K G L P I A P I L S V R E A I G F A D D L E L E P V V E I G T D
UniRef90_G5HIK8 E W K R L F G E A G L C C E L L Y R Y D D L L T D P Q A L A N D F I Y Q M K Y P
UniRef90_G5ZWI5 E V E V V L Q Q H G V P A A R V R T M K E C L D S E Q I A Q R N Y I H P V T G L
UniRef90_Q742X7 D I V A T L W D A G V P V A K V M Q P H R Q S E L E Q L T F R G F F E E V D H P
UniRef90_U2E738
UniRef90_X5LZH0 D W T T R L R T L K G V W S P V R T A L E A H D D P Q V I A N G Y L P T V D T A
UniRef90_L0IWH8 E V I T A G L S G T S V L W E R Y M T F A E T A A D E R V L A N P M F S R L D Q P
UniRef90_A0A024QVS3 D I V E T L W T A G V P V A K V M Q P H R Q T E L P Q V L Q H R R F F E Y V G H P
UniRef90_Q0CAZ1 Y W L E V F E K S G L P H G P V N M L K E A F S H P Q L G A R H M V Q S V D H S
UniRef90_C9SFG2 E W E A I F D G T D A C C T P V L E Y P E L E S E A G R E R P A V T L V E T P
UniRef90_W0F1A3 Y W L E R L R E K G L W A S E I Y N W N D L R Q S E A G Y Q E Q L Q V G Q K T
UniRef90_UPI000373930E A W V A S D P E A T I G A V N E G P D L V D D P H A A A R G T L V D V A G T
UniRef90_G8AJ19 D W K A L L D P V D C C F E A L P T L T E M P D H P H I A A R G Q I R V T P G P
UniRef90_F4CVS1 E W V Q V L T A A G V M A S P V R T W R S V I R S A A F T E A A L A V T V G E G
UniRef90_Q0RJY0 H W E K A L A D F D G V W D A V R T A P E L H Q D P Q V I A N G Y L P K I T D G
UniRef90_M2Z046 E T E K E L S G S R V L W A P Y R T M D E V F A A R E Y V I E R G V E Q P G V G A V
UniRef90_G8T1P1 D L L A E L A K I G V P A G P I N T V A D L F A D P Q V I A R G M K I D P Q G V
UniRef90_UPI0003B68871 E W L A D F W A N D I A A Q P A M N F G D V L D D E Q S R A N S Y V I E V D D P
UniRef90_UPI0003081526 A W I R E L G D A G V P A G R V N D I A G A F A L A E S L D L A F L V E V D G T
UniRef90_UPI000262CC12 E W L D R L S T A N I P A G S V L S V K E S L E L Q Q V R E R E F L L A L D H P
UniRef90_UPI00035C4D9A H W L D R L R R N G L W A A V Y S W K D L D Q T E G Y Q V L K M E Q E L Q V G
UniRef90_A0R1R9 D V R D L A S A F R I P N S P V L G N E N V T R M D H F V E R G S F V H H D G F
UniRef90_A0A010QF86 E W E K V F D S G T D A C C T P V L E Y H E L E T E A A R E R P A V T L V E T P
UniRef90_G7CLZ5 A V A E A C Q Q A G V P A A P M L R A V D V P A D P Q I V H R G V F T D M E H P
UniRef90_W9GJJ9 A V E S A L A S R T R L L W S P Y R T F A E L A G D D A L R E Q P I L F S T I D Q P
UniRef90_UPI0003634E64 Q W L K L F S R V P A A P I Y D V E Q A L T N D P A V T E N G K I Q S M D N G
UniRef90_K5BCW8 F W E K R L T E A G V G C V E L Y E G A P I Q T D P Q L A A E Y A V T A V D E H
UniRef90_C4JLZ4 E W E A V F D G T D A C A T P V L T M D E L E D Q G Y D R G V V D L A G T
UniRef90_UPI00036D7DA7 D L M R E T M A R G L V I G L V Q N P Q Q V V G S P H L A E R G Y F V E M D H P
UniRef90_UPI0003690452 E W R E R L A T F V G Q W T V V Q D T L E A A A D P Q S I A N S Y V Q E A D G I
UniRef90_F5YRT3 G W E R R L R P L G I P A A A V R T M P E A L K E Y H H A L V T A G D F
UniRef90_UPI000471E575 E W S A L L N E A G L I H S P I H S Y S D Y L Q D E Q A K A V S S Y Q W V Q D G
UniRef90_V4P5L2 D L A H R L Q A E G F A A A P V Q D I E D L M E H P Q V I A A R Q S L V D I E H A
UniRef90_F7V0S8 E L E K R F R A N D I P F E K I Q T V A D V L A D E A F A N D Q F T E N D D Y
UniRef90_UPI00037695B0 E W I E A F T A A N I P A G R V N S I A Q A L E L A D S L G L D P V A E T D G E
UniRef90_M2SCF0 D L R E G F I R E E A I G A V I N P A A A V P N D P Q V R H R E L V Q T I D Q P
UniRef90_R6H961 Y W K E V F D A N D V P Y A V C N T M D D V L E D E A Y V N D M L R P I D H S
UniRef90_G1X487
UniRef90_A1SP88 E W A D L A S D E C C C L T P V L A P D E V R R H P H H R D R L P Q G
UniRef90_R7X1S0 D W T L R F A D A D A D C C V T P V L R L E E A M T H P
UniRef90_D5P3W7 R A A Q L Q S S G V A G T P V M N R P P D I L E D P Q L L E R K L Y A E M R H P
UniRef90_J9WH86 Q W R E Q L A E L S G A W G V V Q T P G E L C D D P A V T A N G Y V A N T A T Y
UniRef90_UPI00047E0E4A A L D A A L A A A G V P A A Q V N E L R A V A E H P Q L T A R G R W R T V A T R
UniRef90_Q07IJ2 Q W R T L L D G K G L V F G V V G L D D I A N D H P Q M L D N G V L V P F E D T
UniRef90_UPI0001DD0578 K A A Q A L Q Q A G I P A A P M L R V A D L P E H P F Y T E R Q F Y R V I E D H P
UniRef90_UPI0004675BC7 A V A D Q L Q Q L G V P A A P M H R A A D V A A D H P Q V F R T L F T D M V H P
UniRef90_Q47018 H W Q Q V L G A A G L P C A P V M Q T S E L V N H E Q T R A L G L I G K P S G D
UniRef90_J8S8J0 Y W R Q H L K T F S G Q W A P I Q S F H E L L T D E Q A L A N D M I V E V E G A
UniRef90_A0A058U0H7 E A L S Q L R R A D V P V S K L Y S V A D M F S D P Q F L A R G M I E Q H R F P
UniRef90_UPI00040797A2 D A L A R L R A G V W A E E C R P S S D L A S E T A R A T G F C A T R P D E
UniRef90_C8WPU9 E W S D I L T E E D I P N D I C L K F S E V A D D P A V L T G N L M K E V E M P
UniRef90_UPI000427CC5B E W R R L L D G N G L V F G V V G L D D I P T D Q Q M I D N D L V R T P N D T
UniRef90_B1G4W5 D W L N A L E A G S I P C G P L Q T V D R V T N E Q T A S L D I L R T P D G
UniRef90_F0FX60 E W T Q R F V E A G L P A G P I N T L D E V F A D P Q L A H C G L V E P V A H P
UniRef90_I0S258 W Q Q V F D N N P D L C A E L F R S G P Q V L D H P Q L V H R S T V V E V G P V
UniRef90_H0TN62 E W R K L L D G N G L V F G V V G L D D I P T D K Q M I E N E V L V P F E D T
UniRef90_I8QEU7 V G E R T L A D W Q H V F A V F N V G S G V L D H P Q I R H D G R V V E H G P V
UniRef90_A0QTN1 A A M E L L Q K A G V P A G A V L H A G E V P N F G Y Y A E R A F R E E L H P
UniRef90_F0GH12
UniRef90_K8PB21 D L L K R L T E A D I A F A E V N T M D D L S V H P H L R R I E V A T P N G P V
UniRef90_E3HRV5 D I I A R L E A A D V P V S L V Y E P L A L R G T P H A R A R G L F D G H A E A
UniRef90_H0E2F8 T I R E A F A G T S V S W G P Y Q T F R Q L I E D P R C T A N P M F A E V D Q P
UniRef90_C5KM51 E W M A L P H K E R L A H D K L Q N M Q G V F S D P Q V L A R G M K L T V E H A
UniRef90_C1B5L6 S W L I D L E A A G V P C G P I H R L E D A L E D P Q V I A N D A V I S L T H P
UniRef90_UPI0003828248
UniRef90_G2QRP2 E W E R V F E G T D A C C T P V Y E F G E M R G D E Q K G G D L R P P V T L R
UniRef90_G4HSL1 F W C D R I T E A G G F C A R V R E I D E A W T D P A L L S R G R L M H I D G L
UniRef90_G4MN30
UniRef90_E3J6J2 E W R E R L A D F A G Q W S V V Q D T L E A A A D P Q A V A N G Y I Q D A G A P
UniRef90_X0R6H9 D L A N A L Q N A G V P A A P V Q N G Q N L F E D P Q L R C R N M F A E I T H T
UniRef90_A3W1Z0 H W L E T F R G L L P V A P V L S V R D A L E N P F I E E V G M I S D V P H E
UniRef90_L8F2B8 A W T E R L T A A S V P C G P V N T V G E A L R L A G R L G L E P V V P V G A D
UniRef90_R4T5N8 E L D E R L A A A G V P A A Q L K D V G Q V A D H P Q L R A R D R W R K V G T E
UniRef90_C9YBV7 E L S Q R F E H V G L P F A P I T D P Q H L F D D P H L Q A T G G L A P M E L P
UniRef90_D0WYJQ3 E L L D M F G K N D M P C E P A Q T P L D V Y E D Q N A L V N E Y I K Q V G G R
UniRef90_U7Q743 A W E A V F D G T D A C C T P V L G F P E L E A G R T S G A R E G D
UniRef90_UPI000262A766 E W I D A C T A N I P A G R V N S I S Q A L D L A E S L G L A P V I A T A E H A
UniRef90_A0A010ZZQ1 E T V A V L A E H G V P A A P V R A P A E A I H D G L V R Q R G E V V D L E H P
UniRef90_UPI0003689E15 E L V A E G A A R G V P V G G V L G V R E V L A A D H F A E S G A L T D A P G V
UniRef90_UPI0003B4A8B3 Y W R E Q L R G M K G W A P I L T L J E L A E E Q I K A N D H L E V D A
UniRef90_K0ZCE2 D V E R D F T A H K I A A Q V V N E F E E V V K E E H M Y Q R G V F T E W E N E
UniRef90_UPI0003746298 A L L Q A L H Q Q H V P A G A V N S V A E V F S L P Q A R E M M L L H P D A K P
UniRef90_F9WZW5
UniRef90_X0QPW1 Y W V K A F D K N D L P L E P C Y V P T E I Y S D E E A L K N D E L R K I N E R

UniRef90_L0FYX0 L T N G Q S I K T N R C P I R R P A P T L G E H T A S I K Q E F
UniRef90_UPI00037C25E1 E R E L V P V Q F D E T P A A P G R A P Q F A E H T D E I L K E
UniRef90_F6ILA4 L H V A T P M R F S R D R M Q P F R A P S M G E H S H E I A R S L S G
UniRef90_UPI00044081DD P I P A P H P I L S E S Q P A P P K P G Q H T E I L N E L
UniRef90_B1M3W1 R L V A P P V L I D G E V R A L G P V P A I D E H G A R I R E E F
UniRef90_X8IZJ1 R M V A P A V H Y N G K R M P L T R P P P L S Q H T D E V L S K D L G
UniRef90_E3J897 L V P R T P I R I R D E D G P R Y P P P A G A H T R A V L E E
UniRef90_A0A058YKL5 A R
UniRef90_D7WBR4 R V P F V S N P L D M S S G G L K A A P G L D E D R G D V L E W
UniRef90_G5HIK8 N G Q E A A L V R S M G L P P F K R G P M L G E H T V G I L G E L
UniRef90_G5ZWI5 K T P G L P F R I D G E A I P S S P A P R H G E D T D D I I K W L
UniRef90_Q742X7 V N G P A R L S T V P M R T A P A P L L G Q H N Q E L L S G L
UniRef90_U2E738
UniRef90_X5LZH0 E V A A N P V R F N E T A A M P R A A P T H G Q H T E E V L L E
UniRef90_L0IWH8 R L P G L P L E I L S R G D Y P S A V A A P A L G D D T A A V L L G E W L G
UniRef90_A0A024QVS3 V N S A A P I A L S R G P A E F H R A P T L G E H H T A Q E I L L A Q L
UniRef90_Q0CAZ1 A V L G I P V K F S G T P G S I R A P P S L G L N T D E V L R E L
UniRef90_C9SFG2 C L A V V A A R Q G Q G P G V P G A P L R P G D G G E A M L Q E W L G
UniRef90_W0F1A3 T T T R C P I R L N G E K N S S K P A P A L G Q H T A I I K E L L
UniRef90_UPI000373930E L V P A A P F R F G D G E G R R A G P P V L G G D T D D V L R
UniRef90_G8AJI9 E T L M G L R V N G G T P P E R A P L R E S T A A A V L A G W
UniRef90_F4CVS1 A R T E L A V R T P A R P A G T T P T P R L G E H T D A V L G
UniRef90_Q0RJY0 S V A A S P V Q F D E K H L D L T A A P E H G Q H T E E I L L E L L G
UniRef90_M2Z046 P T A R S P L R W D G A Y T G A R P A P Q H G Q H T R E V L A E L L G
UniRef90_G8T1P1 P G L R T P I R F S D A D L K L D R S P K L N E H G A I R A E L D
UniRef90_UPI0003B68871 R I T V P G L P L T I D P P Q Q R P A P D P G Q H T A E I L A E W
UniRef90_UPI0003081526 S A P R N P I R L S A T P P T Y R A P P A L G
UniRef90_UPI000262CC12 V E R I D V V T N G K R L K P A S R V E T L G E S T D S I L Q E L
UniRef90_UPI00035C4D9A G K T I R T T R C P I T L V S A K A A P A L G A D R E A I I K
UniRef90_A0R1R9 T A P N H P Y R L D G V A L R P P A A P K L G A H T D A V R A
UniRef90_A0A010QF86 C L J A V A A P R G V I G G Y V G V P L T P G D G E A L E E W L G
UniRef90_G7CLZ5 L F D E P M P R Y R R I P A P L R P A P T A G E H T R E V C Q K V L G
UniRef90_W9GJJ9 G V P G S P V M V D G H R G G P R P A P Q V G Q D T R T V L T D V L G
UniRef90_UPI0003634E64 K Q L A P P I R C D K E M P E F K Q A P T M G Q D N F D I L S R Q L
UniRef90_K5BCW8 L R F T P L V A M S R S E V R A P G G C L A G Q H T A E V L R E F
UniRef90_C4JLZ4 P G R P F S A Q D G G W S P K A L R P S T G G E E T I L S R W L G
UniRef90_UPI00036D7DA7 G A P G P G F L M D G V N P G S K A A P A L G E H N S E I I G E L G
UniRef90_UPI0003690452 P F Q L V P V Q Y D E Q P A P P R R A P Q F N E H G D E I L A E L
UniRef90_F5YRT3 R L V G S P I R V A G Y E P A Y R P P A L
UniRef90_UPI000471E575 V G Q I P L P R I P G F D G F E E G S P H V I G E N S A E V L Q
UniRef90_V4P5L2 H L G V T P L I L S R D A F A P F R A P D I G E H N R D V L K E I G G
UniRef90_F7V0S8 I V T T P P F R L S I G D P V L H R S R P V G Y D T R K I L K E I G G
UniRef90_UPI00037695B0 R H V A T P I L L S D T P A R Y T P P A V I G E H Q T A D W L
UniRef90_M2SCF0 R A P R H P A R F G R T P V A G P K P
UniRef90_R6H961 I T T I P I R M K S Q G D P V I S R A K P V G Y D T R A V M E D L
UniRef90_G1X487
UniRef90_A1SP88 A D V A P A E L F P R V D W L S A N P V A D G D E T E A I L R
UniRef90_R7X1S0
UniRef90_D5P3W7 L V T A P A P F Q H I P R A P Q R P A P L P G Q D T V D V C R R V L G
UniRef90_J9WH86 S L P T N P V Q F D E R A V V P P G A P E H G Q H T E E V L M E
UniRef90_UPI00047E0E4A R A L L P P V T F A D V E A A M G D V P A L G E H T S A V L R E V
UniRef90_Q07IJ2 L L T I D S P I W G S A K T R P R H P A L G Q H T S A E I L R
UniRef90_UPI0001DD0578 W L Q R C V A K T E D I P A P T R P P L T G E Q S E E V L K D W L G
UniRef90_UPI0004675BC7 L L D R P I P A F T R L P A D L R P A P M P G E H T H D I C R R V L G
UniRef90_Q47018 D L A L V G L P L S K R P G P L S A A R D V G Q D N A D L
UniRef90_J8S8J0 D G G A P V Q W N G E A V E T T R S P Q A S E H T E I V L M E
UniRef90_A0A058U0H7 D G P A V V P K M S L T P G S T R W G P R L G E H T E A V L K
UniRef90_UPI00040797A2 R A V G Q L V T F G R S A L T L R G A P A R G R H T R E L L A E L
UniRef90_C8WPU9 S G E V I K M P R T P V Y F R E A P T V G A D T E V V L K E
UniRef90_UPI000427CC5B M L T I N S P I W I D G A N K V R P P P G I G E H S D E I L R
UniRef90_B1G4W5 R T T T V A L P V S R R P L P G N T P G L G E H S H
UniRef90_F0FX60 T V V T P L G A M D D T P R T H R A P L L G E H T V G V L R E
UniRef90_I0S258 R Q P S T L I H T A D G P L R Q P P A P R L G E
UniRef90_H0TN62 M L T I S S P I W G A R K V R P R K P P G V G E H S D Q I L R D V
UniRef90_I8QEU7 R R P T T L V H A D G A P L S P P R P P D E H G A E L R A A A A G
UniRef90_A0QTN1 H A A E P F I L H S D R V A P P L G Q A P L L G E Q T R E I A A E L L G
UniRef90_F0GH12
UniRef90_K8PB21 A Y P A P A S I V I G E Q R H Y G A V P A V G D S T G E I
UniRef90_E3HRV5 R Y V R Y P V R L
UniRef90_H0E2F8 L A P A S P L D F S A G R V A V G P A P R L G E H T D E I L L G V L G
UniRef90_C5KM51 T V V G P A V K F E P A P S K E E P P A L G E H T K W V L Q R C L G
UniRef90_C1B5L6 T H P N N P I R F A A A D T G P R G A P D L G E H T D E V L H E
UniRef90_UPI0003828248
UniRef90_G2QRP2 E T P L L A V R K G A S D V A H G Q G P E P G Q G G E E T L R E W C G
UniRef90_G4HSL1 D F A I P L A T L V P G E P R A V R G P R L G E H N A E L A E
UniRef90_G4MN30
UniRef90_E3J6J2 F R L V A A P R F G G S A A V P S R A P E F N E H G D E V L A E L
UniRef90_X0R6H9 Y P G L P L T T A G Q L L Q P T G S A P L L G E H T
UniRef90_A3W1Z0 M R P S N P I K F N G E R L S Q R P G S A F G A G R A E
UniRef90_L8F2B8 R I P R S P L R L S T P V A A P C A P A L D E H G E P L R A W L
UniRef90_R4T5N8 F A R V P V T F D D F E A C M G D V P A L G E H T R A L L V E
UniRef90_C9YBV7 D G R Q T Q V P L
UniRef90_D0WJQ3 W C P T V P V Q F E L N E T A E L E P G M M G S S T E A V M V E L
UniRef90_U7Q743 L R P A V A L R
UniRef90_UPI000262A766 L R S V S T P I L S E T P A R Y E P P P G I G E H
UniRef90_A0A010ZZQ1 A G P G L P I R F S E S A A G F D P A P R L G E H T D D I L R E L L G
UniRef90_UPI0003689E15 R A R V P S G Y L G E R A G L R T R A P A P G E H N D I V
UniRef90_UPI0003B4A8B3 D G S D K P L K L S R S P V E A T R S P Q P S E H T E L V L M E
UniRef90_K0ZCE2 D G Q G V F P K F K N N P G R Q W R P K L G E D T R Y L L
UniRef90_UPI0003746298 G V R Q V A F K G T G I A G A I T P P P A Y A Q D N A H V L E H L A G
UniRef90_F9WZV5
UniRef90_X0QPW1 F I P T N P V K F S I G K P E L K V S K P Q G S D T D A I L E E L

UniRef90_B5JUJ8
UniRef90_A1T762
UniRef90_X1LLQ8
UniRef90_QORJT0
UniRef90_D3RWQ5
UniRef90_D5PG49
UniRef90_B3R8J5
UniRef90_K9KFB9
UniRef90_X0RB49
UniRef90_B3Q8C8
UniRef90_V9D684
UniRef90_UPI0001F272A7
UniRef90_K0V1Y0
UniRef90_UPI00037A5026
UniRef90_X4QXW6
UniRef90_E9IAY6
UniRef90_Q0RGR9
UniRef90_V7NYT3
UniRef90_UPI00035C6C44
UniRef90_R5FRF1
UniRef90_K0UL19
UniRef90_K2SCB9
UniRef90_D0KQV8
UniRef90_K2RAN6
UniRef90_W2S776
UniRef90_K8R112
UniRef90_W6MDG7
UniRef90_Q0V0E1
UniRef90_J3KJ40
UniRef90_Q89QU4
UniRef90_UPI0002D39067
UniRef90_B7RZQ9
UniRef90_K2JE92
UniRef90_K8PR02
UniRef90_A9V5F7
UniRef90_X0PZ59
UniRef90_C7ZEB2
UniRef90_B9QZ09
UniRef90_UPI0003775A7F
UniRef90_I2IIZ7
UniRef90_B9KUK1
UniRef90_A3VLQ2
UniRef90_G0R6I6
UniRef90_B7RTX6
UniRef90_F7UUR7
UniRef90_W2SJL4
UniRef90_R4XUS1
UniRef90_UPI000380FC79
UniRef90_UPI0003636D91
UniRef90_UPI00036B81EF
UniRef90_Q2NDF6
UniRef90_UPI000470862C
UniRef90_A5VIT9
UniRef90_E1ID40
UniRef90_Q9KJF0
UniRef90_H1V451
UniRef90_Q2UQC1
UniRef90_A9WST5
UniRef90_D7GI42
UniRef90_V8QUF0
UniRef90_UPI0001FFE69F
UniRef90_G0R8N3
UniRef90_W4LSR0
UniRef90_UPI0002E8E549
UniRef90_A0A052IES4
UniRef90_K6VTZ5
UniRef90_A0A011P7J3
UniRef90_Q07IK3
UniRef90_W4L208
UniRef90_B2AFH5
UniRef90_R5JI1
UniRef90_X8AGT0
UniRef90_UPI00031B87CF
UniRef90_W4M5Y5
UniRef90_UPI000372FA53
UniRef90_J3A1K0
UniRef90_UPI000475C5FD
UniRef90_X8CKH6
UniRef90_V8D5G8
UniRef90_G9ZWD9
UniRef90_W7VVL1
UniRef90_E7C566
UniRef90_L0A9Z5
UniRef90_UPI000366908E
UniRef90_W4MES1

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



UniRef90_B5JUJ8 G D F A R L L P G F Y K A L N G K D P S D R E V L Y Q L A Q K A D V V I E S F R
UniRef90_A1T762 A A D Y K R W P L T E A G D S I Y W D M R S D T G Q E L V A R L I A D S G V F I
UniRef90_X1LLQ8 E M S R G V P W P H E I A L D Y T Q E K G R E L V Y K L A E R A D V I E L T N Y R
UniRef90_Q0RJT0 S A L R R R V D W P V L I G R G R R S D K G R D E L D A L L A D A D V L T T Y R
UniRef90_D3RWQ5 G M M C N A N K Y F V A I D M R K E E G K E L I R K L A A K C D V L M E N F K
UniRef90_D5PG49 I W Q A T N L N K R D L T L D L T S E R G L D L A R R L A A D A D V V V E N F S
UniRef90_B3R8J5 V Y A Q F N R G K R S V A L D L K T D A G R A A F L D L V R D A D A V V E G F R
UniRef90_K9KFB9
UniRef90_X0RB49 D P A R A F G E L F K A L N H G K T T E S H D A I K A H L K D A D V M L D S F R
UniRef90_B3Q8C8 Y F V W L N R G K E A V V D L A T K T E E G K A E L E K L I A S A D V L L Q N L K
UniRef90_V9D684 V D Y S M S W G K W Q C S L D L K T E E G K A K L R D L I T D A D V V V Q G Y R
UniRef90_UPI0001F272A7 L D I Y A L H A D L N W E Q G K E E L R L L I R E A D V I L D G Y R
UniRef90_K0V1Y0 T D E P N R H G L S T V V I D P S I A D D R R R W V H L L A G S D L L I E D T R
UniRef90_UPI00037A5026
UniRef90_X4QXW6 V K E M E R R N Q R S I S I H P F S D E G K E I I A K L I E D A D I F I E S S K
UniRef90_E9IAY6
UniRef90_Q0RGR9 P F V G C Q R G K R A V A L D L K S E A A R P A V E A L L R W A D V V H H N L R
UniRef90_V7NYT3 L R Q A R A G E A M S E S F A W T H R N N R T I E A R L V A E A D A V F A N F K
UniRef90_UPI00035C6C44 D F A R G Y D A V A A G Q S S Y F V W L N R G R L E E L I A G A D V L V Q N L K
UniRef90_R5FRF1 D P Q R T Q C Y G F W T I S L N L K T E E G M A I F M D L I S T A D V F V N G V R
UniRef90_K0UL19 P F A A G H R N K R S I G I D L R S A E G R D L A H R L V Q Q C D V V L S N F K
UniRef90_K2SCB9 P D L P V V D R D R T I Q L D I H S A A D K E E L L H L R S C D V F I Q G Y R
UniRef90_D0KQV8 G D D R R R V K P E I N V I N L K S D E G Y E I F Q R L V K T A D V I V T N Y R
UniRef90_K2RAN6 P D H G F L W G K R D A D I D L R S A E D E G R A S E S A L L K D A D V L I D G Y R
UniRef90_W2S776 P D Y D L N W G K W N C S L D F R K S D E D R D K L R A L L R E A D V V V N G Y R
UniRef90_K8R112 P N I P A I A D T S R G K R D L R S P S D R E T L W H L I D D A H V F A Q G Y R
UniRef90_W6MDG7 G L D Y H R W P V T H D A V D V S T P R G Q E I V T Q L I C A P G P N N G I F L
UniRef90_Q0V0E1
UniRef90_J3KJ40 P D V P F F Q I D V N M G K R T K S E E G R A K F E E L L A D A D I I L L D G Y R
UniRef90_Q89QU4 P A I P W L T L D T T F T E L K S E A G R A Q M R A L L K D V D I E S Q G Y R
UniRef90_UPI0002D39067 F G L H A H R G K S I L L N L R S E G G Q D V L A E A D V V I T M N G T
UniRef90_B7RZQ9 L Y H N V N R G K R S L A L N L K S E L G V E I I C K L A E Q V D V V L Q N F R
UniRef90_K2JE92 R I D Y N R W P Q T D D G K S L Y W A G L N K A K R S I R I L D L A R
UniRef90_K8PR02 P S I P W L V I D T G R F A D L K T E Q G R N V L R D L L A S A D I F S Q G Y R
UniRef90_A9V5F7
UniRef90_X0PZ59
UniRef90_C7ZEB2 S D V P F F Q V D G N M G K H A K S P E G R E I F E R L L A E A D V V V D G Y R
UniRef90_B9QZ09
UniRef90_UPI0003775A7F G A D R Q R W P K R S V A V D L R S A E G A A L V A D L V A A S G P D G G I V L
UniRef90_I2IIZ7 G D P T R T M M Q R E T R L D L K S E A G R N V L C A L A E A D V L I E S F R
UniRef90_B9KUK1 R F L T T G A N K R S L T V N I K T A E G R A I L E A L V R D G D V F V E N Y R
UniRef90_A3VLQ2 E P F R R S V P T V P T A Y G E E S G A W L A F N H G K C K T A D I V V T D W E
UniRef90_G0R6I6 Q N P I G L D T D Q T Y L N N F K N S P L H I Q I L K Q M I N K A D I L I D C F R
UniRef90_B7RTX6 P D G L R Q S L D N N P V P I S F A Q A N R N I F L R L A K D A D V V I S N F K
UniRef90_F7UUR7 D T Q R T Q G P C F W L S L N L K S E E G M A L A K K L I G E A D V F M N M R
UniRef90_W2SJJ4 I E Q R M A D K C T V E G L D L K S V E D C A K L R Q L C K K S D V L L D P Y R
UniRef90_R4XUS1 P N I A N L I D T S R G K L S V Q A D D G R I A L A N L R S A H V F V Q G Y R
UniRef90_UPI000380FC79 L V I D T G R G K R S C Q L D L R D P D D K R A L H K L L H G A D V L V Q G Y R
UniRef90_UPI0003636D91 D H E H L N R A K K T V A L D L H D P N D H G V F T E L L R T C D I L L Q N F T
UniRef90_UPI00036B81EF G D T V R D R T A W L K Q A E R R N Q R E G K E V L L R M L A G A D V F V E S S K
UniRef90_Q2NDF6
UniRef90_UPI000470862C A G Q D D G S R Q M G L T P Q D R M S D G V A E L L A L A R D A D V L I E G F R
UniRef90_A5VIT9 Y Y L Q L N A N K K S L T L D T K T P E G Q K I M Y D L L K K A D V F V E N I R
UniRef90_E1ID40 D P M R V M P K E H L A L D L K L E A D V A R L R E L A Q T A D V L V D G F R
UniRef90_Q9KJF0 D P L R R V P W F R F A V D L E H E A G R E V F R T L C S G A D L L V E S C R
UniRef90_H1V451 P G L P P L D R E F S R G K R T I Q L D D K A R L L E L L R T A D V F I Q G Y R
UniRef90_Q2UQC1 P D L P V L D R D G L G R G K R T V Q Q E G R E D L T R L E D A H V V I Q G Y R
UniRef90_A9WST5 L H S F Y A Q G K E H V A V D L K D P T G Q A K V L E L M R N A D V L V E G M R
UniRef90_D7GI42 V K E M E R R N Q R S L S M N P F S D E G K E I L F K L I E D A D V F V E S S K
UniRef90_V8QUF0 Q D P F R Q T I D T N I F C D L D R D E D R T R L Q T L I A N T D V M V Q S W R
UniRef90_UPI0001FFE69F Y F N Q M N H G K R S L A I D M G S P E G A E L I G R L A E V D V L V E N M R
UniRef90_G0R8N3 P S I P P R G K R T I Q L D I R N N P S D K Q T L L N L R T C D V F I Q S Y R
UniRef90_W4LSR0 H F W H Y N V N K Q G I T L D L T H A D G Q A L F R S L I P T A D V L I D A T P
UniRef90_UPI0002E8E549 N Y D P W N T V V F G M S S A R N K P E G R D V F N R L V R E V D V I V M N A P
UniRef90_A0A052IES4
UniRef90_K6VTZ5 L E H D A T Y G V R S A T I S P Y R A E G A E R I R Q L L A G A D V F Y A N R R
UniRef90_A0A011P7J3
UniRef90_Q07IK3 D F A R G Y D H A A N G Q S S Y F V W E G R N D L E D L I A T A D V L L Q N L K
UniRef90_W4L208 Q F T D T N A N K R G I T L N V R S E K G L A L V K Q L V A K C D V V I E N F S
UniRef90_B2AFH5 P D M S V L Q G K I T T C L D L R D P T D R D K L Q E S L A E A D V F I Q G F R
UniRef90_R5JI1 N I E H A N R R K R S L E G L D I S V P E G K E V L Y E L A R R S D J A V F T S F L
UniRef90_UPI00031B87CF G L D Y N R Y M L T A E G R S L S W E N L N R A G E L L V E L A G A V G Q C I
UniRef90_W4M5Y5 D W A R E N R N K E S L A V D M S T P E G R E V V Q H T A R L A D V V I C D Q T
UniRef90_UPI000372FA53
UniRef90_J3A1K0 A P T R A M G P F R D V L D V E N P D E R A L L R R L L D R A H A L V D D H D E
UniRef90_UPI000475C5FD A P D R G R W P L W T G L N R G K R G V I E V D L S R D E G R A L V S D L I V I E G
UniRef90_X8CKH6 R D D E A K Q Q I M R L V I D T A D V V L E G F R
UniRef90_V8D5G8 A A D Y H R W P V T D E A V D F R D P E A I A L I R D L I T E A G V L V T N
UniRef90_G9ZWD9 D T A R H Y D K A A Q G V S A Y F A W L N R G L A E R M I A K A D I F V Q N L A
UniRef90_W7VVL1 A D V L I E G F R
UniRef90_E7C566
UniRef90_L0A9Z5 T F P Y L N Y N K K S I S L D I F K E K G K E A F K R L I K T S D V L I D N L S
UniRef90_UPI000366908E K D V T R T W K K E Y L F L D L M N Q E D K A S F L K L I A D A D L L I M N F K
UniRef90_W4MES1 Y W H A M N T S K R S V T L N L E T D K G R D L L H R L L A T T D I V V E S Y N



UniRef90_B5JUJ8 P G V V K R L E L D Y E R L K R G N P R L V Y C S I S G Y G Q E G A I A S V P A
UniRef90_A1T762 T N V A G R Q W H S Y D A L R Q I R P D L I H V E V S G R H D G G T G
UniRef90_X1LLQ8 L G T M E R H G L D Y D T L K A G L N P R L I Y A R G T P F G P R G D K A Y W P G
UniRef90_Q0RJT0 P A T L A A L R L T A A D L A A D H P R L V I S A S I T G F G P G G P W R D L P G
UniRef90_D3RWQ5 P G T F D R W G I T A Y R Q L S A K I N P R L I Y V I S M Q G F G N W G E L W E R P S
UniRef90_D5PG49 P R V V E Q F G L D Y D A L A A L N P A V I A V R M P G Y G L R G P W R D Y V G
UniRef90_B3R8J5 P G V M A R M G L G F D A L A A V N P A I V L C S V S S F G Q T G P Y A S H A G
UniRef90_K9KFB9
UniRef90_X0RB49 P G V L K G M G L D A K T L H A I N P K L V M V S I T G Y G I N H D W A D K A G
UniRef90_B3Q8C8 P G S M D K L G F A R E R L R K D Y P K L I I C T I S G Y G D E G P Y A H R K A
UniRef90_V9D684 P G V L D K Y G F S Q D L V T D R E R G I I S V R E N C Y G W N G P W E Y R S G
UniRef90_UPI0001F272A7 P G V L E K L G F G R D A V L E L V K D R P Y V R E N C Y G W H G P W Q G R S G
UniRef90_K0V1Y0 P G S D A E K A L A A R T I R A E H P G L V I L S I S D F G R D T S Y R G W Q A
UniRef90_UPI00037A5026
UniRef90_X4QXW6 G P A W A R K G I T D E W M W E I N P K L V I V H V S G F G Q W G D E R K V N A
UniRef90_E9IAY6
UniRef90_Q0RGR9 V P A A R R L G L D E Q A V R A V N P D V V F C H T S S Y G P D G A R A N W P G
UniRef90_V7NYT3 P G T L A A L G F S Y E R L R A I N P R L I V L A E S S A F G D I G P W S T R M G
UniRef90_UPI00035C6C44 H G A M A R L G F A R E R L R K D Y P K L I I C T I S G Y G D E G P Y A H R K A
UniRef90_R5FRF1 D K A L K R M G L D Y E T L H E K F P R L V W A Q M R G Y G E F G E M R D E P G
UniRef90_K0UL19 P G V A E A L G M D H A T L R E I N P G I V V D S S A F G P T G P W A E R L G
UniRef90_K2SCB9 P G S L A A Y G L T P E Q L V K V N P N I I A N M S A F G P R G P W S E R R G
UniRef90_D0KQV8 P S A L K R L K V D Y E S V K R I N P K I I Y C S I T G F G N L T E E A D R P A
UniRef90_K2RAN6 P G V L S R L G F D T E T L R K I S P R L I V V R E N C Y G W K G P L S H R S G
UniRef90_W2S776 P G V L D K Y G L G F D E L R K R G R G F I Y V R E N C Y G W N G P M K H R S G
UniRef90_K8R112 P G G I A S L G F G P D E V A R H R P G I V Y T S L S A Y G A E G P W A A R R G
UniRef90_W6MDG7 T N L R V R G W M D Y E H L K K I N R E D L I M L T V L G T R D G G P A
UniRef90_Q0V0E1
UniRef90_J3KJ40 P G T F E K L G Y G P E A A V K R G K G Y V Y V N E N C F G Y E G E W A Y R P G
UniRef90_Q89QU4 P H A L A G L G F S P E E A A E I N P G I V Y V T L S A Y G H A G P W A E R R G
UniRef90_UPI0002D39067 D A Q R D A L G L S P E E M A E I N P Q L I L V Q L D A F G G Q G P K S N H L G
UniRef90_B7RZQ9 P G V A K R L G V D Y E S L R E Y N P N L I Y L S A S G F G D Q G P Y K D K P A
UniRef90_K2JE92 P E G Q E L A A A L I A G K E G D G G G I L M T N L P S R G W M S Y E A L K Q R
UniRef90_K8PR02 P Q S I A A L G F S A E D A A R I S P G I V Y V S M C A Y G H A G P W A G R R G
UniRef90_A9V5F7 P A T A K K L G V D Y D T L G A L N S R L I Y C E L T G Y G S S G P L A N R P G
UniRef90_X0PZ59 T G V L D R L G F T T E R L A E L N P R L V V L S I S G F G H D G P E G G R A G
UniRef90_C7ZEB2 P G A L E K L G Y G A T A K E R D K G F V Y V N E N C F G Y E G E W A G R P G
UniRef90_B9QZ09 P G T A K K L G I D Y E T V R K A N S D V I Y C S I S G Y G Q T G P R A S E K A
UniRef90_UPI0003775A7F T N A R P R P G L S P A D L R R R R P D L I H V Q L H G T R D G G P T A
UniRef90_I2I1Z7 P G V M E R L G I G Y E T L H A I N P R L V Y C A I S G Y G A S G P F V D H A G
UniRef90_B9KUK1 V G S F E A L G L G Y E D L K K I N P R L I Y C S I T A W G Q E G P R R G Q T S
UniRef90_A3VLQ2 R L T L A Q M D R L G A A A R D A N P A L V F A E I L P F G R G A P Y Q D Y A A
UniRef90_G0R6I6 P G V L E K V G I G P Q D I Q N D K L I Y A R V T G Y G Q K G P L S K L A G
UniRef90_B7RTX6 P G T M E S L G L G Y E A L R E I N P G I I C A E S S A M G S T G P Q A R T M G
UniRef90_F7UUR7 T G A L E K L G L D Y P T L S K E E F P S L I W A Q M R G Y G E F G E F A H A P G
UniRef90_W2SJJ4 P G V L E K M G L P V N L L S E N K G L V V C R L T G Y G Q T G P L A Q E A G
UniRef90_R4XUS1 P G G M A A L G F G P Q D A A R L R P G I V Y V S L S A Y G A V G P W A N R R G
UniRef90_UPI000380FC79 P Q G L A E L G V G P E A A A R A R P G I V Y A T L S A Y G H V E G P W A G R R G
UniRef90_UPI0003636D91 L G G V E R I L G T D D A T V R G Q S A D V V H L Y L N A F G T E G P W A R D R G
UniRef90_UPI00036B81EF G G T W A K K G L T D E V L W S V N P K L V I V H V S G F G Q T G V P E M V T R
UniRef90_Q2NDF6
UniRef90_UPI000470862C P G V M A K L G L G W D V L H A A N P K L V V C A I T G Y G Q R S A W A H R A G
UniRef90_A5VIT9 P G A A T R A G F G W K K V H E L N P R L I M A S L K G F N K G S R F A N V K A
UniRef90_E1ID40 P G V L E R L G L G A A T L C A A N P R L I Y C A I S G F G A A P G D S L L A G
UniRef90_Q9KJF0 P G Y L D G L G L S Y E E L S R D N A R L V Q T S I T P F G R T G P L A A Y P G
UniRef90_H1V451 P G S L A A H G L S P A E L A A N P G L V V A N L S A F G P D G P W S G R R G
UniRef90_Q2UQC1 P G S L A S R G L S P D V L A R R H R G I I C A N L S A Y G P S G P W S D K R G
UniRef90_A9WST5 P G V M E R L S L P E Q A L E A N S E L I F A R V T G Y G Q G G P L A Q D P G
UniRef90_D7GI42 G P A W A R K G I T D E M L W E R N P K L V I V H V S G F G H T G D P V R V N S
UniRef90_V8QUF0 P G S L E R G R F G A Q Q A A A N P G I I Y V S V S A Y G D S G P W A T R G G
UniRef90_UPI0001FFE69F P G A L S R K G F D Y E S L Q A A H N P G L V M I S M S M L Q Q S G P L S G I R G
UniRef90_G0R8N3 P G S L A A H H P Q D V I Q Q D I N P H I I Y A N L S A F G P Y G P W A T R R G
UniRef90_W4LSR0 I D F L A S H Q L D E P H L Q S L R P E L I M V S I T P F G Q T G P H R H L K T
UniRef90_UPI0002E8E549 D R Q L A P L G L D E A S L Q A V N P G V I F C Q C F G G P R R G P R T D Y L G
UniRef90_A0A052IES4
UniRef90_K6VTZ5 P G Y L A K I G L S P Q E A A Q T R P G I V Y A T A S L N G E T G P W S Q W V G
UniRef90_A0A011P7J3
UniRef90_Q07IK3 P G S M D K L G F A R E R L R K T Y P A L I I C T I S G Y G D D G P Y A H R K A
UniRef90_W4L208 S R V M Q N W G L G Y E E L C Q I R N P D I I Y V S M A G F H T G P Q H S Y T T
UniRef90_B2AFH5 P S A L D K Y G L S Q H D I L K R N K G V V Y V T E N C F G P A G V Y A S R P G
UniRef90_R5JI1 L K S L V R S G L D Y E S L K D R F P K L I Y G L V T G Y G Q T G P D V D A P G
UniRef90_X8AGT0 P G H R K K F G I D V D D L R A V N P K L I Y A R G S A F G P R G A E S K G G
UniRef90_UPI00031B87CF T N L P E Q S F L S H A A M Q A R R A D M I S L R V M G W H D G R Q A M D F T
UniRef90_W4M5Y5 A K Q A Q A D C D Y A A L V E L N P S L I Y G L L T P F G E H G P W A E H T A
UniRef90_UPI000372FA53
UniRef90_J3A1K0 T G V R R L G L D P E Q V A A R H P A L V H T L V T P F G Q G A P E Q F Q N L
UniRef90_UPI000475C5FD D G A E R R G T L G V D A L S E R R P D L V H A T L V G R R D G G T A
UniRef90_X8CKH6 P G V M E R M G L G P D E L Q S R N P K L I Y A R L S A Y G G N G P E G S R P G
UniRef90_V8D5G8 A A G R D W L D Y D S L A A I R P D L I H V Q V L G R A D G S G A
UniRef90_G9ZWD9 P G A S A R L G L G A Q D L I R R Y P G L I A L D L V G Y R Q S T P A R E K R A
UniRef90_W7VVL1 P G V M E R L G L G P A P C L A H N P R L V Y G R M T G W G Q G G P L A H T A G
UniRef90_E7C566
UniRef90_L0A9Z5 R G T L Q N A G L G Y E E L K K I N P R L I Y A S I K A Y G Y G P Y E N R K S
UniRef90_UPI000366908E K G D E V K L H V E D E Y L H S I N P R L I I G K I N G Y G E D S D R V A
UniRef90_W4MES1 P G T L A R W G L D F D T L H A Q Y P S L I M A S I T P F G Q T G P Y R D Y R A

lupas_21
lupas_14
lupas_28
jnet



UniRef90_B5JUJ8 H D I N L Q A N A G L I G F S G R R Y K N S D E E C P I P I A D M V T S L Y A H
UniRef90_A1T762 V D Y T V N A A I G F P L V T G P P E L T T P V N H V L P A W D V T C G L I Y A A
UniRef90_X1LLQ8 F D L L G A A T S G L M T T T R W D D E T R P H P I G A A I C D Q V G S M L L A
UniRef90_Q0RJT0 Y E G L V L J A K L G V F H V K E A I T A R R G P A Y V S V P F A S W G A H T A
UniRef90_D3RWQ5 Y D A Y A Q G I T G L A E I T G F E E A I P V K S Q A W I G D F L S G T V I A A
UniRef90_D5PG49 W A L N F E Q T S G M S A V T G Y P D G P P C N P Q G P A D P L V G V H A A V A
UniRef90_B3R8J5 H D L N Y L J A L J A G Y W A T P V Q V H D A V S R P R V R V S D Y A A S G Y A A
UniRef90_K9KFB9 P L N L L A D F G G G G L M C A
UniRef90_X0RB49 H D I N F M A M S G V L D Q L K T A S G E Q A M P N V Q F A D L A G G S D T A V
UniRef90_B3QC8 Y D L L I Q A E S G L A S I T G G P E S A S R V G M S I V D V A T G A T A H
UniRef90_V9D684 W Q Q I S D A C V G I S A G T G R A M G L K D D E P V T P V F P N S D Y M T G T
UniRef90_UPI0001F272A7 W Q Q I S D A V C G V S Y Q Y G R A T G H D E P V P I F P N S D Y C T G V A G L
UniRef90_K0V1Y0 T T P V L H A L T S E L S R S G I P G R E P L V P P A G Q L P Y H V I A A Q A A
UniRef90_UPI00037A5026 Y D Y L M Q G Y A G W M S I T G E P D S P P Q K T G L S L V D L S A G V M A A L
UniRef90_X4QXW6 A A Y D L T V A A Y A G L V A Q N G T P E L P T N L H P Y T A D F G V N S L M V V
UniRef90_E9IAY6 R Y N E K P I P A N L J A A D F G G G L M C A
UniRef90_Q0RGR9 Y D Q L F Q S S L G W E Q M G G G E G N P P M W H R F G F M D H Q C A L S S A
UniRef90_V7NYT3 Y G P L V R A T T G V T R L W T S D D A R E H D D D G R H A F Y D A T T L F P D
UniRef90_UPI00035C6C44 Y D L L I Q A E S G L A S I T G G P E S A S R V G M S I V D V A T G A T A H
UniRef90_R5FRF1 Y D A V C W G S R G G V N A V F R Q A G E S P A T A P Q G F G D F N A A T F A
UniRef90_K0UL19 Y G P L V R A A V G V S Y Q Y G R A T G H D E P V P I F P N S D Y C T G V A G L
UniRef90_K2SCB9 F D S L V Q T C S G M N V S E A E H Y G G G R I L P C Q A L D H G S G Y F L A
UniRef90_D0KQV8 Y D P I L L A L S G L M D M T G E E N P V K F A T S I S D I T T G L L A T
UniRef90_K2RAN6 W Q P I S D C L V G H S W L Q G F L G L D E P V P P L P N S D M Q T G Y T G A
UniRef90_W2S776 W Q P V S D A H T G V S W R F G Q A M G L Q P V P V F P H S D F I T G L A G T
UniRef90_K8R112 F D S L V Q T A M G F N A A E G E A A G E S K P R V L P M Q M L D M A S G F L M
UniRef90_W6MDG7 V D Y T V N P S M G F P Y A T G V E G S T D P T C H V L P A W D C I T G Q M A A
UniRef90_Q0V0E1 Y D V M V N E A E F G L M H I T G E P D G P P A K T G V A I T D V V T G L Y T S
UniRef90_J3KJ40 W Q Q T A D C V I S G V A W A Q G K F M G L N E P V V P P P I S D Y G T G A M G A
UniRef90_Q89QU4 F D S L V Q T T T G F N H A E G K A A G D G P K E L P A Q L L D H A T G Y L L A
UniRef90_UPI0002D39067 Y D D L A Q A T G V M L R F E G G M D T P E E H A H F G T L D V L T G Y C A C
UniRef90_B7RZQ9 Y D A V I Q A F A G V S R S Q E D P H T G E P V I Q Y Y Q L F A D K L T A L T A S
UniRef90_K2JE92 R D D D Y T V N C A S G F P M V T G D G T Q P L N H A I P M V W D I A T G L Y L A
UniRef90_K8PR02 F D S L V Q T S T G F N H A E G K A A G I D G P K E L P M Q L D H A T G Y L M A
UniRef90_A9V5F7 Y D L I A A S L S G L M H I T G E P D G P P A K T G V A I T D V V T G L Y T H
UniRef90_X0PZ59 Y D Q I A Q G E A G L M S L T G P S P D D V Q R V G V P I A D L L A G M Y G A F
UniRef90_C7ZEB2 W Q Q I A D C V I S G I A W E Q G R F M G E P V V P P F P I S D Y G T G C I G A I
UniRef90_B9QZ09 Y D S A I Q A D S G M M S L T G F P E T G P T R I G F M L V D V T T G V S A A Y
UniRef90_UPI0003775A7F V D Y T V N A A C G F A D L T G P E D R T G P V N H V L P A W D V A T G L Y L A
UniRef90_I2I1Z7 H D L N Y I G Y A G V L D Q L A G R D G A P I L P N F Q I A D L L G G A L S A V
UniRef90_B9KUK1 Y D Q V I Q S Y S G I M S I T T G T E A T G P L R C G P Q L V D I G A G I A T A F
UniRef90_A3VLQ2 T D T T L Q A L G G H L Y L N G D V D R P P V R I S L P V G L I Q G G A E A A S
UniRef90_G0R6I6 H D L N Y L G F S G I L S T F S P F Q Y R H D P P N N I L A D F A A G E G F A
UniRef90_B7RTX6 Y G P L V R A S T A L S G L W R Y P E K E M F G D C V T I F P D H F A A R V I S A
UniRef90_F7UUR7 Y D A V C W A A R G G V A G T F P E K G T S P A I P P Q A F G D Y N A A I M M A
UniRef90_W2SJL4 H D L N Y V A I T G L L P T I S G H C Q R P W P P V N L L A D F A A G G L T A A
UniRef90_R4XUS1 F D S L V Q A A G F N Q A E A A A A G Q E A P K P L P M Q L L D H A S G Y L M A
UniRef90_UPI000380FC79 F D S L V Q A T G F N H A E A Q A A G S A E P L P L P A Q A L D H A A G Y L L A
UniRef90_UPI0003636D91 Y E I A N V A T G L T N H V L G D G A E I P S G A L P T V D F P R W F Y T D Y A
UniRef90_UPI00036B81EF A A Y D L T V M A Y S G Y M A Q N G T P E Q P M N P G P Y A G D Y F N S L M I L
UniRef90_Q2NDF6 H D I N Y I A L S G A L W Y A G E P G A L P M A P P G L V G D I G G G A L Y L A
UniRef90_UPI000470862C H D L N Y I A M A G V L E Q I A T A D G E L A L P N F Q I L G D I M G G T Q A A V
UniRef90_A5VIT9 F E P V J A Q S A G G A S A T G W N E G D A N I P T Q S A A G D S N S G M H L T
UniRef90_E1ID40 H D L N F V J A R S G F L A M T G V A G E P A M P G A Q L A D L T S G L M A A
UniRef90_Q9KJF0 S D L T C S A L S G F L W L A G I D G D K P V R A P D N Q A Y R M A E Y A A V
UniRef90_H1V451 F D S L V Q T C S G M N V S E A E H F G E P A R P M P C Q A L D H G A G Y F L A
UniRef90_Q2UQC1 F D S L V Q T C S G M N V S E A E H Y G E P A R P M P C Q A L D H A A G Y F L A
UniRef90_A9WST5 H D L N Y I A Q S G A L N A F R R G S G K P M P P I N V A G D F A G G S M H G V
UniRef90_D7GI42 A A Y D L T V Q D Y A G Y V Y Q N G T P D Q P M T A A P Y T G D Y F N S L M V V
UniRef90_V8QUF0 F E Q V L G S I V S G I A M D E G Y D A D R P R L V P T Y L L N D Y L T G Y L G A
UniRef90_UPI0001FFE69F Y A P V M S G L J A G L D S V V G Y D P A H L I G T Y N P A L G D P N G A G H A L
UniRef90_G0R8N3 F D S L V Q T C S G M N V S E A A H F G E T A R A L P C Q A L D H A A G Y L L A
UniRef90_W4LSR0 S D L L H L J A L G Q M S L C Y G D P D A N G K Y D T P P I A P Q M W H H F A M
UniRef90_UPI0002E8E549 Y D D L I Q A T T G I M L R F G G M E T P E E H A H V G T I D V M C G F A A A
UniRef90_A0A052IES4 F D Q I V Q G M G G L M S V T G L P G Q G P V R A G L A V A D S S T G L Y A A
UniRef90_K6VTZ5 F D Q T A G S L J A G M M L L E G G G E V P A L P P I M V V N D Y I V I S W L M T
UniRef90_A0A011P7J3 M Y A Y
UniRef90_Q07IK3 Y D L L I Q A E S G L A S I T G G P E S A S R V G M S I V D V A T G A A A
UniRef90_W4L208 M G P S A Q A C L S G L T Y L S G L P D K P P A G W G W S Y L D D T G G M Y G A M
UniRef90_B2AFH5 W Q Q M A D C A S G V A Y V M G R G Y G E P V L P S L P V S D M T C G L V C A V
UniRef90_R5J11 Y D G V A F F S R S G M L A D M A E P S G Y P A S A P G C I G D G A T G A I L F
UniRef90_X8AGT0 Y D M T A F W C R A G T A A T I T P M D G M I G P P G P A Y G D T I S G T N L A
UniRef90_UPI00031B87CF V N A A A G Y P L M C G P E D W P A T A P V N Q V L P A W D F I T G A Y G A
UniRef90_W4M5Y5 S E L V V Q A S G Y P R Y L G T Y G G D P V R I G A D V A S T M G G V F L L
UniRef90_UPI000372FA53 F D Q I A Q G M G L M S I T G A P E T G P M R V G I P V A D L T A G L Y C A M
UniRef90_J3A1K0 R P L N V I N A G G W A Y H S P S E T P R G K P P L K G A G R F L S D Y E A G I
UniRef90_UPI000475C5FD V D Y T V Q A A T G F P L A S G P T D H E G P V N S P V P T W D L A A G L Y L A
UniRef90_X8CKH6 V D L M V A A E S G M T G M P T P T G K P Q I I P F Q L V D A A S G H V L J A Q
UniRef90_V8D5G8 L D Y I V N A A T G F P L V T G S T T A G P V N H V L P A W D V A C G L Y A A
UniRef90_G9ZWD9 Y D M L V Q A E S G M C S V T G T A E E A V K V G V S V G D I G T G M N A H
UniRef90_W7VVL1 H D L N Y L J A L S G A L H A I G R A E G G P V P P L N L V A D F G G G A M L L A
UniRef90_E7C566 M T A L
UniRef90_L0A9Z5 L D Y P I E V H S G L A Y M T G L N D R P M R L G A S I V D I G A A M F A V
UniRef90_UPI000366908E Y D L V L Q G E S G F M S M N G T G D S G P V K M P I A L I D V L A A H H L K
UniRef90_W4MES1 T E M E T L J A L G G F M S V C G D P D R P P T R V G Q P Q V T V F S S I N A Y T

UniRef90_B5JUJ8 S A I V S Q L L A R G K R R K G A Y I D M S M N D G L E H M V S V W E H T T P R
UniRef90_A1T762 L S V V T A L R H R D A T G H G Q Q I S I P L E N V A L A T A G N L S L L T E A
UniRef90_X1LLQ8 Y A I L V T A L F V R E R D A V G L G Q V D V S L F G A M L C L Q S W E V D S A S I
UniRef90_QORJT0 V H G I L A A L L E R D A S G L G Q Q V A A D W N F Y T E I V G I R W P D A F T
UniRef90_D3RWQ5 F T T L A A L Y W R N K S G K G Q F I D V S Q A E V L M R A M D W T W L Y I S L
UniRef90_D5PG49 L L S A A L E H R R R T G E G Q Q L E I A Q T K V A A C V A A E P V I E Y S M
UniRef90_B3R8J5 L S L A V A I M S A R A N G G Q G Q H L D V S I H D A V L S W T A H G A W T A R T
UniRef90_K9KFB9 L G I M M A L F E R T R S G K G Q V I D A N M V E G T A Y L S T F L W Q T Q E M
UniRef90_X0RB49 I A L L A A V F A A Q R T G K G R H V A V S M T H S L Y Q H M I M P K A T K S F
UniRef90_B3Q8C8 A A I L E A L I G A R G R T G Q G A D I R I S M F D V M A D W L T V P L L N A E A
UniRef90_V9D684 T G I L C A L M R R A E E G G S F K V D V A L N Y Y N Q W L A D S V G E Y P D D
UniRef90_UPI0001F272A7 C G I F D A L I K R A E S G G S I Y V D T A L N Y Y S Q W L V N S V G E Y P A D
UniRef90_K0V1Y0 V M T V S V Y L D R L R T G E A D L I D F S I L D G A M Q T L D P P H G T V G T
UniRef90_UPI00037A5026 G L M S A I L R A R D T G L G C D V D V S L F D T A L S Q L G Y V G A W H L T
UniRef90_X4QXW6 S S A L L A A L H K A Q A T G Q G Q S I D L A M Y E T A L R V G T Y Y M M D Y L N
UniRef90_E9IAY6 F G L I L A L Y E R T K S N A G Q V V D A S M V E G S A Y L G S W L F R S Q K T
UniRef90_Q0RGR9 A A T L W A V L A R D R T G R A S V A A S L L G A G V L T T S E T Y L Q P D G
UniRef90_V7NYT3 H V V G R V T A I A A L A L H R D R A G A G A H V H I S Q A E V V V N Q L E D
UniRef90_UPI00035C6C44 A A I L E A L I A R G I T G E G A D I S V S M F D V M A D W L T V P L L N H E G
UniRef90_R5FRF1 G G I V A A L F D R T N K V I T T N L Y H V A L W G H S H G I Q S R Q F G A Q Y P
UniRef90_K0UL19 T L A A L A L L L R R E R T G T G G A A S I S Q A E V M L S H L A A D I A A E A
UniRef90_K2SCB9 T G V L A A L Y K R A V E G G A Y R V D V S
UniRef90_D0KQV8 V M I L W A L N K G G P T F I D V P M I Y T Q F Y L T L E D A Y M Y L N
UniRef90_K2RAN6 A A T I Q A L Y M R T K S D V T F D V D V S L T Q Y N T W L Y R L G Q Y T E E Q
UniRef90_W2S776 C A V L Q A L I Q R S E A G G S F L I D T A L N Y C N S W F V K E V G E Y P E D
UniRef90_K8R112 F G A A A L W K Q Q R E G G S W H V E V S L A Q T G H W
UniRef90_W6MDG7 L G L L A A E R H R R L T G E G Q S V E I A L K D V A L A M L G N L G I I G E V
UniRef90_Q0V0E1 N S V M A A L L A R M K T G R G Q H I D V A L S D C Q V A T L A N I A S S C L I
UniRef90_J3KJ40 I A A L T G L Y H R A T K G G S W H G R A S L M Q Y
UniRef90_Q89QU4 F G A M M A R A R Q R R E G G S W H V R V S L A Q T G R W L W N
UniRef90_UPI0002D39067 V A L G G A L K L R R T G E G S I A R A A L A G A G N L I Q A E F M Y D F N G
UniRef90_B7RZQ9 Q A I S A A L F A R E R G A G G Q H I K L S M V D A V I G F L W A D V A G T A A
UniRef90_K2JE92 T G T L A A V Q H R L A T G K G Q E V S I A L S D V M L A T V G N L G Y I A E V
UniRef90_K8PR02 F G A M M A R L R Q A R E G G S W H V K V S L A Q T G R W L W N
UniRef90_A9V5F7 G A I L A A L Y E R E H S G L G Q K I E T S L L E A Q L S V M A N T G V N A L Q
UniRef90_X0PZ59 G V V A A L Q R E R E T G R G R V V R T S L L A G V V G V H A F Q G T K W T V
UniRef90_C7ZEB2 T A L I G L Y H R A T Q G G S W H
UniRef90_B9QZ09 A I A A A L Y R R A M T G K G Q F L D V A M Y D T A L Q L M C C Q G A D Y L V
UniRef90_UPI0003775A7F V G L L A A E R R R R T G E G A C L T V A L E D V A L A T A G N L G Y L A E A
UniRef90_I2I1Z7 T Q I L L A A L W H V S R G E G R F V D V S M T H V T Y A H N V V A Q V A L A N
UniRef90_B9KUK1 A I S S A L F Q R E R T G R G Q R I D A C L T D V A F M M M G A Q I T D A L R T
UniRef90_A3VLQ2 A A L M A Y H H L K T G E G Q R V D V S V Q E C I V W T L F N S T M A W Q L
UniRef90_G0R6I6 L G I L L A L Y E R V K T G K G Q T V D I S L T H C V A Y M G S L H N M Q I K
UniRef90_B7RTX6 T A I L A K L I Q R K T T A V G G F I D T S Q A E C I I N A L A S E F L G E S I
UniRef90_F7UUR7 A G I L G A L V N K L R T G K G D K V V V N L Y H A A L W A G G I G I C A Q Q F
UniRef90_W2SJL4 F G I V A A L L K R E K N G H G C
UniRef90_R4XUS1 F G A Q V A L A R Q A T E G G S W H V R V S L A Q T A H W
UniRef90_UPI000380FC79 L G V M A A L Y R R A T E G G S W H V R V S L A Q T G Q W
UniRef90_UPI0003636D91 T G V L G A F G A I L G L Y W R Q K T F V E T S L T R A T M L E Q I L W I V E A
UniRef90_UPI00036B81EF S S T L G A L H K V A Q T G R G E A I D V A M Y E T L L A I G Q Y Y L V D Y L N
UniRef90_Q2NDF6 V G L L A A I L S A R E S G K G Q V V D A A I V D G S A H M M N L L L S L K A T
UniRef90_UPI000470862C S G V L A A L V G A Q R T G K G R L V D I S M C H E V L R H H V L A S V A L K A
UniRef90_A5VIT9 I A I L A A L L Q R E H T G K G S Y V Y Q S M Q
UniRef90_E11D40 T A I L G A L Q A R Q R T G R G G V V D V P M D A A M R W L M E P W Y A V E Q A
UniRef90_Q9KJF0 G S A I A L F S A Q R T G K G Q L V D V A C I E A E A M A L E N A A Q F W D L
UniRef90_H1V451 S G I S A A L Y K R A T E G G S W V N V S
UniRef90_Q2UQC1 S G V Q A A L Y K Q A T E G G S W E V N V S
UniRef90_A9WST5 I S I L L A L W K S D Q G I P L S K C W I L R W W
UniRef90_D7GI42 S S A L L A A V F R A Q K T G K G E S I D L A M Y E T M L R M G A Y Y M I D Y L N
UniRef90_V8QUF0 T G V M M A L M R R A R E G G S Y H V K V S L T R T S M W
UniRef90_UPI0001FFE69F A A L L A A L V G R Q R T G R G S Y V D L S Q V E A L L S V L P G P I L L E W E T
UniRef90_G0R8N3 T G I L A A L H R R T T E G G S W V D V S
UniRef90_W4LSR0 M G I Q A A L F E R L D S G L G Q F I D L A I H D C C A L L T E M S V P Y Y L H
UniRef90_UPI0002E8E549 L G V A T A L Y R K H H S G Q A Y R A R T S L A S L G N L V Q I P F C Y D Y S G
UniRef90_A0A052IES4 I G I L T A L L E R E V I S G E G Q W V H A S L L H A Q I A M M D F Q A A R Y L N
UniRef90_K6VTZ5 A G I V E A L A R A V D G G S R V H V S L T R A A L W I G M G V F D K G Y
UniRef90_A0A011P7J3 S S I L L A A L L Q R A R S G G C Y R I E V S M L E S M V E W M G Y P L Y A C D
UniRef90_Q07IK3 H A A L L E A I I A R A R F G D G A D I R I S M F D V M A D W L T V P L L N A E
UniRef90_W4L208 C
UniRef90_B2AFH5 G A M M G L L N R A R E G K S W
UniRef90_R5JI1 G G I C A A L F D R V R T G K G D F V E I S L F G N A V W L C G T M F E Q Y G Y
UniRef90_X8AGT0 G G I L A A L L K R E R T G E P S L V D V S L L G S G L W S L G H T V A L T V H
UniRef90_UPI00031B87CF F A M L A A L R H R D R T G E S E V R L P L G D V A I G T M A N A G L L A E V
UniRef90_W4M5Y5 Q G L L A A L W Q R Q R H G G Q C V A V S F A I K T I Q I T A Q Y N P D A W E
UniRef90_UPI000372FA53 G I Q T A L L E R E K S G L G Q W V N T S L L Q A Q I F M L D F Q A A R W L S
UniRef90_J3A1K0 D A A L C A S L L R L R R T G Q G Q S I D I S E V E V Q L N R I D C V L D R M L
UniRef90_UPI000475C5FD T G I L A A V H H R S A T G Q G R R L R L A L E D V A L A T A G T L G H L A E A
UniRef90_X8CKH6 A V L A A L L N R E R H G V A D V V R V A M Y D V A V S L Q A S Q L T I H L N K
UniRef90_V8D5G8 L S V T A A V I R R S E T G G A R V R V L P L E D V A L A T T G H L G Y L A E A
UniRef90_G9ZWD9 A A I M Q A L Y E R E R T G R G Q A I E I A M F D T L A E W M A V P F L H Y E Q
UniRef90_W7VVL6 V G V L A A L L H A R Q T G E G Q V V D A M T D G C A L L Q A M N L S F Q A M
UniRef90_E7C561 S S I M Q A L F V R E R T S K G R H I S L S L F H A L S D W M N P Y L S Q Y V Y
UniRef90_L0A9Z5 I G I M Q K I L E R E K T N E G G V V D I G L F E T A L F F V G Q H I S T Y Q I
UniRef90_UPI000366908E E A I L L A L Y T R E K S G K G T S V S V S L Y D A A I S S L M N Q A S N Y L M
UniRef90_W4MES1 G A M L A Y Y H R L R G G Q G Q H I D A S M Q E G A A N L H Y A Q L I W N A Y G



UniRef90_B5JUJ8 T E M V M 210 220 230 240
UniRef90_A1T762 M I N G T S R Q R I G N A V Y G T Y G Q N F T S S D G I S Y M V V A L T G R H F
UniRef90_X1LLQ8 N N A L V P Q A G R G H P Y I R G L W S V F E A K D G W I A I A G V R Q D V W H
UniRef90_QORJT0 V V K A F N A A G E V G Q P L V Y P L L T A P T K D G T W L Q F A Q V E P R L F
UniRef90_D3RWQ5 T G E N R R R Y G N R D P A V V V S C I A K A K D G F V A I A A V R D D E Y L A
UniRef90_D5PG49 T G V V S P R R G N R R R G Y L Q G V Y P T A E D G V W V A L S L P D D
UniRef90_B3R8J5 H E A S P Q A S P T V M P E N D L F E T R D G R H L A M G L E N K F W
UniRef90_K9KFB9 G L W E Q P R G Q N M L D G G A P F Y T T Y R T A D E E F M A V G A I E P Q F Y
UniRef90_X0RB49 S G Q Q P A P Q N D F L G G L L P C Y R L Y K T S D A R Y M A I G S L E L K F W
UniRef90_B3Q8C8 G N P P K R L G L A H P S I A P Y G V F T S K D G K D I L I S I Q S E R E W
UniRef90_V9D684 V W Q D V W E R N G K Q V F R C Y H N M N Y
UniRef90_UPI0001F272A7 V W E D V W Q R H N R L S F R H Y D N M P V M
UniRef90_K0V1Y0 A S V A L S R Q R R D W N A E R L R Y P I I A C K D G H V R I C L L A K R Q W H
UniRef90_UPI00037A5026 K G Y Q P Q R M P D S S H P S Q V P F Q V M P T K D S W I V V A C A K E N F Y R
UniRef90_X4QXW6 D G V K Y P R P G A R H Q N L C A I G L Y E C C C Y G V D Q N K Y L L E T I G L
UniRef90_E9IAY6 G I W E N P R G K N I L D T G S H F Y D T Y E T K D R Y M C V G A L E P Q F Y
UniRef90_Q0RGR9 A L A P V P M L D Q A Q L T T P G R R L L A C A Q G W V A M A A T A D S D V A
UniRef90_V7NYT3 T L Y V T Q G V A Q I R P D T G L H A V Y P C A G D D E W C V I S I R S D D E W
UniRef90_UPI00035C6C44 H S P P R R V G M A H P S I A P Y G V F E T S D G V Q V L I S V I Q S D R E W
UniRef90_R5FRF1 G S R A K A N N P F N N T Y Q S K D G I W F L I C L P D Y N R Y F P S M M R M L
UniRef90_K0UL19 L Q R A G H T R T E P R M P D A P W G L Y P S A G E D Q W V T V T V R D E A D L
UniRef90_K2SCB9
UniRef90_D0KQV8 T G K V P K R M G S A H R Y L V P Y Q A F K V V D G Y I Y V A V F N D E Q Y L K
UniRef90_K2RAN6 Q R E L R Q R N S V F H A R H S D R V Q A L L A K T Y Q A V A H T R P D I F E H
UniRef90_W2S776 V W R A V W A K S G K Q V F R H F N N T G M
UniRef90_K8R112
UniRef90_W6MDG7 M V N N F D R P K Y G N Y L Y G A Y G N E F D T A D G R K V M V V G L T R R Q W
UniRef90_Q0V0E1 S G Q K D T G R W G T S H P S I V P Y K A F K T S D G D I L G N D R L Y G V L C
UniRef90_J3KJ40
UniRef90_Q89QU4
UniRef90_UPI0002D39067 R A P F D E P A G R E A L G W D A F Y H C Y K A A D G W M F F A A P K E R Q T A
UniRef90_B7RZQ9 F L G K G K Q G E E V K E G L S V S K G A R L T K D G Y G I A S P V T D A Q F Y
UniRef90_K2JE92 Q M T G R Q R P A I G N H L Y G G F G R D F A T K D G R A V M V A A F S D R Q W
UniRef90_K8PR02
UniRef90_A9V5F7 A Q Q P G R R H G S A H P S I V P Y Q S F P A K Q G H I S I A A T S E R Q F Q H
UniRef90_X0PZ59 A G E V G E A Q G N H H P S I S P Y G L F R T A D G A V Q I S V G S E G L W K
UniRef90_C7ZEB2
UniRef90_B9QZ09
UniRef90_UPI0003775A7F R G H L P P L M G N E S P M T Q P T A G T F E T L D G M I L L A T L T S D Q Q E
UniRef90_I2IIZ7 Q L R D D P R G R I G N Q V Y G D F G R D F R T A D G V R I M V L V L T P R H W
UniRef90_B9KUK1 D G A V P A A G S L L N G G V P C Y N L Y R T L D N R W L A V G A L E L K F W
UniRef90_A3VLQ2 G R E M T Y E G L E H G S P T Y N Q F Q A S D G K V M L A A A K H R Q Y A
UniRef90_G0R6I6 L G L N E M R G G A I R K E R A N R F T W E T K D G Y I F F G P V I G G S G G A
UniRef90_B7RTX6 G L W N K R G Q N T L D G G A P F Y R T Y K C L D N K Y L T V G C I E S T F Y
UniRef90_F7UUR7 A P G S L K S T G N Q S A F D A P N S L Y P C A G N D E W C V I S V T N D D Q W
UniRef90_W2SJL4 G A D Y P K S R R D V P S P F N N T Y K T A D D K W I Y I C Q P E H N R Y
UniRef90_R4XUS1
UniRef90_UPI000380FC79
UniRef90_UPI0003636D91 S T H P E S R G T N E R R A Q G W G P N Q R L Y E A S D G W V F V G A T E N Q F
UniRef90_UPI00036B81EF A G V I W P R P G A R N Q N L C A I G E Y K C C V Y G V P Q N K Y L L E T I G L
UniRef90_Q2NDF6 G H F V N E R G R S I L D G P H W Y S T Y R C A D D R Y I S L G S L E P K F Y T
UniRef90_UPI000470862C T G R M P A P G R D L L S G G A P C Y A V Y R T A D G R H L A V G A L E L K F W
UniRef90_A5VIT9
UniRef90_E1ID40 G V P V R H E H G H I L A G E L A C Y R I Y R T A D G R H L A V A A L E A H F W
UniRef90_Q9KJF0 E G K I R R G R G R T L H P C A D G Y I A L V A I M G R N K D M W T P F V R W M
UniRef90_H1V451
UniRef90_Q2UQC1
UniRef90_A9WST5
UniRef90_D7GI42 A G I E Y P R A R N Q N L C A I G Q Y K C R N G V I G L C V Y G V P Q N K Y L L
UniRef90_V8QUF0
UniRef90_UPI0001FFE69F A G S V P V P G N G H R R F A P Y G T F A C R D E D T W V S L A A R T P R E L
UniRef90_G0R8N3
UniRef90_W4LSR0 T Q Q L L V R Q T N R H A Y Y P M L P A S F P T R D G K H I W L V R F L G N I G
UniRef90_UPI0002E8E549 R A P F N E P S G R D V V G Y S D L S R F Y K T A D G W I Y L D A C E Q E L H K
UniRef90_A0A052IES4 D G D V P V Q E G N D H P T S S P M G L F R A R D G A F N L G A S G E G N W K
UniRef90_K6VTZ5 A A E V A G Q T H G D H H Y L D P E T F T A D T P L G
UniRef90_A0A011P7J3 G A A P P R A G A A H A T I Y P Y G P F A A G D G K L L V L G V Q N E R E W
UniRef90_Q07IK3 A G N P P Q R L G L A H P S I A P Y G V F R S K D G K D I L I S I Q S E R E W K
UniRef90_W4L208
UniRef90_B2AFH5
UniRef90_R5JI1 H Y P K K R S E M G A L Y T F Y K C K D G E W L H L A V T Q H D R Y W K P L A E
UniRef90_X8AGT0 L G Q R L E A R P G V H G A P N N P L V G Y T T A D N R Y I S F V M M Q P T K F
UniRef90_UPI00031B87CF L Y R G G D R E R L G N A I W G A F G R D F R S R D G V R F M V A A L T P K Q W
UniRef90_W4M5Y5 G Y H C W G P Y D S P D T G W Q T K D R P L V F S F G E F T G G G P D K Q S Q W
UniRef90_UPI000372FA53 E N H V A G Q A G N N H P T S V P T G V F K T S D G S I N G E T L W K R F A E
UniRef90_J3A1K0 A G D A D P S E E R T A Y D M G S P G T S F A C A D G H V F L F M T T S Q H W K
UniRef90_UPI000475C5FD Q C P E S P R E P D G N H V Y G S F G R D F T S A D G E R F M V V A L P P R H W
UniRef90_X8CKH6 P N A E P K P S D S T P K P K R K G V G F A T Q D G Y L V I S A Y V P K H W D
UniRef90_V8D5G8 Q L G G D R R P R V G N G I Y R T Y G C D F A T A D G E R L M V V A I T P R H F
UniRef90_G9ZWD9 A G H V M P R T G L S H A S I F P Y H V A S C S D G D I V V V Q N P A E W R
UniRef90_W7VVL1 G Q W Q D P R R Q S N L T D G A A P F Y D T Y A C A D D G H L A V A A L E E R F Y
UniRef90_E7C566 G G K T P P R N G L S H P T I A P Y G V F E C A D K R A I L F S I Q N E R E W A
UniRef90_L0A9Z5 L G K P I K P I N E E G F A W G I Y D F F K T K D D K S I F I A V T T D K Q W
UniRef90_UPI000366908E T G H L P Q R I G S Q H P N I A P Y G E T F W T A D N A L L T F A I G S D R H F
UniRef90_W4MES1 V V A P R M G T T L M F G A G K A I P I S F A C K D G H V Q A I P A L S W E T F



UniRef90_B5JUJ8
UniRef90_A1T762
UniRef90_X1LLQ8
UniRef90_QORJT0
UniRef90_D3RWQ5
UniRef90_D5PG49
UniRef90_B3R8J5
UniRef90_K9KFB9
UniRef90_X0RB49
UniRef90_B3Q8C8
UniRef90_V9D684
UniRef90_UPI0001F272A7
UniRef90_K0V1Y0
UniRef90_UPI00037A5026
UniRef90_X4QXW6
UniRef90_E91AY6
UniRef90_Q0RGR9
UniRef90_V7NYT3
UniRef90_UPI00035C6C44
UniRef90_R5FRF1
UniRef90_K0UL19
UniRef90_K2SCB9
UniRef90_D0KQV8
UniRef90_K2RAN6
UniRef90_W2S776
UniRef90_K8R112
UniRef90_W6MDG7
UniRef90_Q0V0E1
UniRef90_J3KJ40
UniRef90_Q89QU4
UniRef90_UPI0002D39067
UniRef90_B7RZQ9
UniRef90_K2JE92
UniRef90_K8PR02
UniRef90_A9V5F7
UniRef90_X0PZ59
UniRef90_C7ZEB2
UniRef90_B9QZ09
UniRef90_UPI0003775A7F
UniRef90_I2IIZ7
UniRef90_B9KUK1
UniRef90_A3VLQ2
UniRef90_G0R6I6
UniRef90_B7RTX6
UniRef90_F7UUR7
UniRef90_W2SJL4
UniRef90_R4XU51
UniRef90_UPI000380FC79
UniRef90_UPI0003636D91
UniRef90_UPI00036B81EF
UniRef90_Q2NDF6
UniRef90_UPI000470862C
UniRef90_A5VIT9
UniRef90_E1ID40
UniRef90_Q9KJF0
UniRef90_H1V451
UniRef90_Q2UQC1
UniRef90_A9WST5
UniRef90_D7GI42
UniRef90_V8QUF0
UniRef90_UPI0001FFE69F
UniRef90_G0R8N3
UniRef90_W4LSR0
UniRef90_UPI0002E8E549
UniRef90_A0A052IES4
UniRef90_K6VTZ5
UniRef90_UPI0001P7J3
UniRef90_Q07IK3
UniRef90_W4L208
UniRef90_B2AFH5
UniRef90_R5JI1
UniRef90_X8AGT0
UniRef90_UPI00031B87CF
UniRef90_W4M5Y5
UniRef90_UPI000372FA53
UniRef90_J3A1K0
UniRef90_UPI000475C5FD
UniRef90_X8CKH6
UniRef90_V8D5G8
UniRef90_G9ZWD9
UniRef90_W7VVL1
UniRef90_E7C566
UniRef90_L0A9Z5
UniRef90_UPI000366908E
UniRef90_W4MES1

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

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

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

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

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

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

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

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

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

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

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

UniRef90_B5JUJ8
UniRef90_A1T762
UniRef90_X1LLQ8
UniRef90_QORJT0
UniRef90_D3RWQ5
UniRef90_D5PG49
UniRef90_B3R8J5
UniRef90_K9KFB9
UniRef90_X0RB49
UniRef90_B3Q8C8
UniRef90_V9D684
UniRef90_UPI0001F272A7
UniRef90_K0V1Y0
UniRef90_UPI00037A5026
UniRef90_X4QXW6
UniRef90_E9IAY6
UniRef90_Q0RGR9
UniRef90_V7NYT3
UniRef90_UPI00035C6C44
UniRef90_R5FRF1
UniRef90_K0UL19
UniRef90_K2SCB9
UniRef90_D0KQV8
UniRef90_K2RAN6
UniRef90_W2S776
UniRef90_K8R112
UniRef90_W6MDG7
UniRef90_Q0V0E1
UniRef90_J3KJ40
UniRef90_Q89QU4
UniRef90_UPI0002D39067
UniRef90_B7RZQ9
UniRef90_K2JE92
UniRef90_K8PR02
UniRef90_A9V5F7
UniRef90_X0PZ59
UniRef90_C7ZEB2
UniRef90_B9QZ09
UniRef90_UPI0003775A7F
UniRef90_I2IIZ7
UniRef90_B9KUK1
UniRef90_A3VLQ2
UniRef90_G0R6I6
UniRef90_B7RTX6
UniRef90_F7UUR7
UniRef90_W2SJL4
UniRef90_R4XUS1
UniRef90_UPI000380FC79
UniRef90_UPI0003636D91
UniRef90_UPI00036B81EF
UniRef90_Q2NDF6
UniRef90_UPI000470862C
UniRef90_A5VIT9
UniRef90_E1D40
UniRef90_Q9KJF0
UniRef90_H1V451
UniRef90_Q2UQC1
UniRef90_A9WST5
UniRef90_D7GI42
UniRef90_V8QUF0
UniRef90_UPI0001FFE69F
UniRef90_G0R8N3
UniRef90_W4LSR0
UniRef90_UPI0002E8E549
UniRef90_A0A052IES4
UniRef90_K6VTZ5
UniRef90_UPI0001P7J3
UniRef90_Q07IK3
UniRef90_W4L208
UniRef90_B2AFH5
UniRef90_R5JI1
UniRef90_X8AGT0
UniRef90_UPI00031B87CF
UniRef90_W4M5Y5
UniRef90_UPI000372FA53
UniRef90_J3A1K0
UniRef90_UPI000475C5FD
UniRef90_X8CKH6
UniRef90_V8D5G8
UniRef90_G9ZWD9
UniRef90_W7VVL1
UniRef90_E7C566
UniRef90_L0A9Z5
UniRef90_UPI000366908E
UniRef90_W4MES1

290 300 310 320

E V A A A L S A T S V L W E R Y Q T F G E T A A A P R V T D N P L F T E L D Q P

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

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

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

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

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

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

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

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

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

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

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

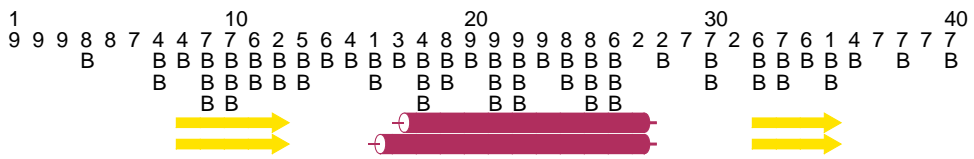
E L I A R L D A A R I A N A R I N D M H E V W Q H P Q L A A R G R W T E V E T P
D L L Q H L J A D A D I A F A E V N S M A D L S T H P H L R R I E V A T P S G P V

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

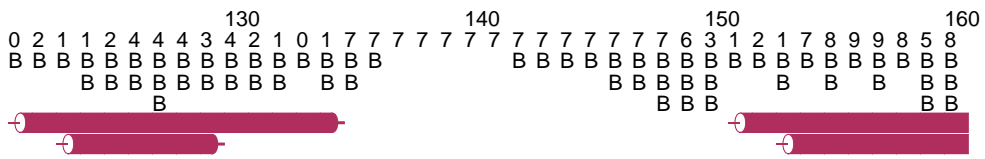
UniRef90_B5JUJ8
UniRef90_A1T762 R V A G L P L S I N G A Y P A A V P A P A L G D D T A A V L G D W L
UniRef90_X1LLQ8
UniRef90_Q0RJT0 V Q P S T L V H A D G H P L R L A P A P R L G Q
UniRef90_D3RWQ5 I Y E E L A L H F S N A E L K V W S M R P V G F D N E H V F K R I L G
UniRef90_D5PG49 I H R Y P G W P L R I T P G P R S A P P T L G G Q H N D E V L A G L
UniRef90_B3R8J5 I A V D F P V K F S G L P E G E D F V A G V G E H
UniRef90_K9KFB9 V S P R P A P L L S N T P P S S K R D P F V E H T E E I L R E F
UniRef90_X0RB49
UniRef90_B3Q8C8 S Y P A P A A I F V G D E R R Y G A V P G I G
UniRef90_V9D684
UniRef90_UPI0001F272A7
UniRef90_K0V1Y0 S A P V P A
UniRef90_UPI00037A5026 R Q V A G P I K I S D S K T E H H R G P K L G E H T D E V L R D Y L
UniRef90_X4QXW6 R G L N T V P K F A R N P G G F W R P A L G A D T R D I L
UniRef90_E9IAY6 I I P N P S P R L S R T P G G T H K N P Q A G E D T I Q I L T E L
UniRef90_Q0RGR9 E Q P G A L W D L G D T T Q L H L A P P V L G E H T I E V L T E V
UniRef90_V7NYT3 L I D N P L P A E T G P A P F R H I P P A
UniRef90_UPI00035C6C44 S Y P A P A A R V A G E A R R Y G P V P L G
UniRef90_R5FRF1 R V F N T A P R F G S Y G D P P L V G Y H T E R F L R D
UniRef90_K0UL19 Y G A A P F I H C D H V A P P L G Q A P L L G E Q T A E I A A E L L G
UniRef90_K2SCB9
UniRef90_D0KQV8 K Y I D F P I N I T S N K S K A P R L G E N T K E V L L E L
UniRef90_K2RAN6
UniRef90_W2S776
UniRef90_K8R112
UniRef90_W6MDG7 L M P G T P F E F G Q F E R S A P P A P T L G E H T D E I L S D L L G
UniRef90_Q0V0E1 A L V N T P V K W S E S P G V R M P P P T L G Q H T D E I L S D V L G
UniRef90_J3KJ40
UniRef90_Q89QU4
UniRef90_UPI0002D39067 Q H P M G A V R P E R S R I A I P L L P K Y G Q H T R E I L T R L
UniRef90_B7RZQ9 L E P N S P A S F L G T P P P L R P A A T L G Q H T D E I L K E
UniRef90_K2JE92 L T P H I P L S F G A A P G N I V P A P A L G Q H S E A V L A D V L G
UniRef90_K8PR02
UniRef90_A9V5F7 S V P G L A V K F A R T P A T L H G P P D L D Q H R H S L I A E F
UniRef90_X0PZ59 T L P G P P L R F F E T R T Q H T A P V L G A D N D T V S E W L
UniRef90_C7ZEB2
UniRef90_B9QZ09 V T L L G A P F V A N E D G P H Q P P F Q V G Q H S R E V L E E L L
UniRef90_UPI0003775A7F L A P G P P L V L D G R Q A G P S P A P E L G A H T G E V L A E L L
UniRef90_I2IIZ7
UniRef90_B9KUK1 S V P L A P F T F A E G G P R I D P P P P L R R D T Q D I L S A L
UniRef90_A3VLQ2 A R G L S V A N L S E T P A D P R P A P A P G A D T D A I F A
UniRef90_G0R6I6
UniRef90_B7RTX6 T V G R G P V A F S D P P P Q I Q P A P A L A E H T R E L M S
UniRef90_F7UUR7 T T P I R Y G N F G D P P M I L S K P I G Y H T A E Y L Q K L
UniRef90_W2SJL4
UniRef90_R4XUS1
UniRef90_UPI000380FC79
UniRef90_UPI0003636D91 V M P G P V A R L T R T P M V P G A P G P F G S D F D E V M A T F
UniRef90_UPI00036B81EF D G L G V F P R F S E H P G R T W R P P E H G Y D S S D V L T R L
UniRef90_Q2NDF6 I Q A M P S P R F S N T P P P E P T V K S A G
UniRef90_UPI000470862C
UniRef90_A5VIT9
UniRef90_E1ID40
UniRef90_Q9KJF0 T Y P G A P Y E F G E L Q W Q L G R A P R I G E H T R E I L V E
UniRef90_H1V451
UniRef90_Q2UQC1
UniRef90_A9WST5
UniRef90_D7GI42
UniRef90_V8QUF0
UniRef90_UPI0001FFE69F K G L N T V P V F K N R P G Q F W R P P P L G Y D T A D L L A
UniRef90_G0R8N3 V V T V P W K V D G H G F R A M G P A P S L G Q H T D V V L T E V L G
UniRef90_W4LSR0
UniRef90_UPI0002E8E549 G E P L P A L P Y A V T P W I A P P A P H L G E H N A T V Y G A L
UniRef90_A0A052IES4
UniRef90_K6VTZ5
UniRef90_A0A011P7J3 T L I T Q P V T L T R T P A E I R T A P G W G E H T D E V L R E
UniRef90_Q07IK3
UniRef90_W4L208
UniRef90_B2AFH5
UniRef90_R5JI1
UniRef90_X8AGT0
UniRef90_UPI00031B87CF A G P I P A L L N S G F T P R M D A I P A L G Q H T A A I L G E L
UniRef90_W4M5Y5 S Y P A P A A I F V G E G R R Y G A V P A I G E S Q D D
UniRef90_UPI000372FA53
UniRef90_J3A1K0 F M M P P V H M S V G E T G P G R G P K P G E H T D E I L K Q L
UniRef90_UPI000475C5FD E L V A N P V Q F D V T A P E S G P A P
UniRef90_X8CKH6 P A P A N P S G F G R D A G D P A P A P Y L G E H S E E V L A E K L G
UniRef90_V8D5G8
UniRef90_G9ZWD9
UniRef90_W7VVL1
UniRef90_E7C566
UniRef90_L0A9Z5
UniRef90_UPI000366908E
UniRef90_W4MES1
T L P G A C Y R M S A T P A R V R P A P T L G A D Q R E V
L A P A A P V A L D G E H T P P A P A P R V G E H T H A V
E D A V T V I R T P A R Y D P P P A L G Q H T E E Y L G
R I P T T P M T F E G A H P P A R P A P A N G D D A H V L A E Y L
K S C T L P T S P M L C A K K A G R V P G L G E Q G A I I R K E F
P V T M L A P G F D G K L P E F G R V P A L G E D T D A V F A E F
E I V V P K P P F Y T S I K S N V A P D L G E N T Y E I L R E L



conf
sol25
sol5
sol0
jhmm
jpssm



conf
sol25
sol5
sol0
jhmm
jpssm



conf
sol25
sol5
sol0
jhmm
jpssm

8 8 7 5 3 0 7 7 7 7 7 7 7 6 6 6 7 7 3 3 1 3 4 7 8 9 9 9 9 7 4 0 8 8 6 6 8
B B



