

QUERY 1 10 20 30 40
UniRef90_UPI00047D04A1 A A G A G V F E A V I T G K T I D P V V A A S S I V L S L Q Q H I V S S R E N T D P L L D D N
UniRef90_D8GN81 A A V D R F F E I T V I H G R K G T V D P I V V A A S S Q V V T N L L Q Q T T I V V S S R R N N M H D D P L L D D N
UniRef90_A7GR07 A G V D R F F Q I T V I K G K G V D P P I V V A S S Q I V M A L L Q Q T T I V V S S R R N N M H D D P L L D D N
UniRef90_R9N2X5 A A V D R F F V V T V I K G N G V I D P P I V V A A S S I V V Q A F L Q Q T T I V V S S R R N N M H D D P L L D D N
UniRef90_V4LJX4 A G T G F F E F A V I T G K G Q T I D D A V V A A S S Q V V L S L L Q Q H I V V S S R R N N M H D D P L L D D N
UniRef90_F8CWF9 A A P D R F F H A A L T P H Q K T I D D A I A I G A Q V V T N L L Q Q H I V V S S R R N N M H D D P L L D D N
UniRef90_A4IT76 A A P D R F F I R I P H Q T I D D A I A I G A Q V V T N L L Q Q H I V V S S R R N N M H D D P L L D D N
UniRef90_I0JKA2 A G A D R F F E I V I K G G K G K D A I V V A S S Q V I T S L L Q Q S I I V S S R R N N M H D D P L L D D N
UniRef90_UPI0004640E52 A A S D R F F H I T I K G R G I D D A I V V A S S A Q V I N A L L Q Q S I I V S S R R N N M H D D P L L D D N
UniRef90_UPI00046E18A0 A G C G S F K A K I H G K G I D D P I V V A A S S A S V I S L L Q Q N I V V S S R R N N M H D D P L L D D N
UniRef90_E8T348 A S A D V F K V V V T K G K G I D D S I L I A A A Q V V T N L L Q Q H I V V S S R R N N M H D D P L L D D N
UniRef90_M8ECG4 A A P D T F Y I T I T K G K G V D S I L I A I A A Q V V T N L L Q Q H I V V S S R R N N M H D D P L L D D N
UniRef90_B9IIQ5 A A S G R F F I A T I K G K G R D P P I V V A A S S F A I L A L L Q Q T T I V V S S R R N N M H D D P L L D D N
UniRef90_B1QWGG A A V D R F F E I K I I G K G S V D P P I I V I S S T N I V I N A L L Q Q T T I V V S S R R N N M H D D P L L D D N
UniRef90_UPI00035F9B0E A A C D T V K I T I H G K G V D P P I V I A S S L V M A L L Q Q T T I V V S S R R N N M H D D P L L D D N
UniRef90_UPI0002899EA1 A A S D R F F D I T I K G K G I D P P L V I A S S Q V I T H L Q Q S I A S R R N N M H D D P L L D D N
UniRef90_C1D3V4 A A P D T F E V T V V V G K G I D D P I V V A A S S C H V V T A M Q Q S I V V S S R R N N M H D D P L L D D N
UniRef90_I0YV64 V I R F F H A A M P H F T V D P P I V V A A A N T I S A L L Q Q S I V V S S R R N N M H D D P L L D D N
UniRef90_W7X777 A S S N D F R I T I T R G R G I D P P I V V A C Q M V Q A F Q Q T T I I V S S R R N N K K K L V D D D
UniRef90_I4Z5X0 A S S N E F R I N I R G K G I D P P V V V A C C M V Q A F Q Q T T I I V S S R R N N K K K L V D D D
UniRef90_J0QY52 A S V D T V Y I T I R G K G I D P P V V V A S S S T V M A L Q Q T T V V S S R R N N K K K L V D D D
UniRef90_V4TELO A G C G S F K A K I S G K G I D P P I L A V S S S V S L L Q Q N I V V S S R R N N K K K L V D D D
UniRef90_S9TCH1 A S S N E F R I T I T R G K G I D P P I V V A S S S V V S A L L Q Q G I V V S S R R N N K K K L V D D D
UniRef90_J2VIK6 A A G D T V R I T I K I K G R G I D P P I V V A S S Q V I V M S L L Q Q T T I V V S S R R N N K K K L V D D D
UniRef90_L5MTP7 A S V D G F E I A I P H A G I D P P I V V A A S S Q I V T A L L Q Q S I V V S S R R N N K K K L V D D D
UniRef90_A4SV59 A S S N T F E I T I K G R G A D P P I V E A G A Q V V L A L L Q Q T T I V V S S R R N N K K K L V D D D
UniRef90_B2JN52 A A G D K A T I T I P H L T V D P P I V I A S S S I V M A L L Q Q T T I V V S S R R N N K K K L V D D D
UniRef90_Q65LR8 A A A D R F T I T I P H K T K D A V I L I G S Q I V T S L L Q Q G I V V S R R N N K K K L V D D D
UniRef90_Q1LIJ5 A S S N E F K I T I V G K G G A D P P I V E T G A Q V S A L L Q Q G I I V S S R R N N K K K L V D D D
UniRef90_A0A059A5Q7 A G A G R F L V T I V Q Q K G V D P P V L A A A S A I T A L L Q Q H I I V S S R R N N K K K L V D D D
UniRef90_K9ZY11 A A P D T F E L T V P H E T V D P P I V I A A H I V T A L L Q Q T T I V S S R R Q R D P L L E E
UniRef90_T0P428 A S C D E L F I T V K G K G I D D P I V L A T A H I I T A L L Q Q T T I V S S R R Q R D P L L E E
UniRef90_M5WSC9 A G S G F F E A T I S G K G I D P P I L A A S N V I V S L L Q Q H I V S S R R E A D P L L E E
UniRef90_D4KV11 A A V D R F F E L N I T G E G V D T I L V A A S S V I Q A F Q Q S I V V G R N N L N P F H
UniRef90_Q851L5 A G S A R F T A T I N G K G V D P P I V A V S S A V L S L L Q Q T T I V A R N N L N P F H
UniRef90_UPI0003738F72 A S A D F F L A I I G R G I D P P I V V A S S H V I S A L L Q Q T T I P V A R N N L N P F H
UniRef90_C8WXF5 A A P D T F F H I R I P H L T V D P P I A I G A Q I V V S L L Q Q Q L A S R R R V D S P F F E
UniRef90_A8F9X8 A S V D R F F E I D I K G H T V D P P I A I S G Q I T S A L L Q Q T T I V S S R R R N A D S P F F H
UniRef90_UPI000465EAC0 A A T D E F R L I R G K G S V D P P I I G S Q I L V N A M Q Q T T I V S S R R N A D S P F F H
UniRef90_UPI00042B5061 A A T C F F E A K I P H S T V D P P I V A A S F A I L A L L Q Q S L T S R E A D P L L H
UniRef90_Q1LSG9 A A C D T V A I T I V R G K G I D P P I L V A A G S L V M A L L Q Q S I V V A R N V A P P H E
UniRef90_B3QN87 A A A D E L Y I T I V P H K T R D P P I L A S A H I I T A L L Q Q H I V S S R R V A P P H E
UniRef90_UPI000473CB32 A S S N E F E V T V T P H K G I D P P I M V A V Q I A Q S W Q Q T T I I V S R R N T N P N D E
UniRef90_W5FLH7 A A S G R F L I T I T G K G V D P P I V M A S S A I T S L L Q Q I V V A R R E I D P L L E K
UniRef90_UPI0002E55E29 A A A D R F D I T I N G K G V D P P I A I G T S L V Q A L L Q Q H I V V S R R R V D P L L E K
UniRef90_C3KV69 A A S N P F T L K I K G K G V D P P I I I A S N V V V A L L Q Q N I V V S R R E L D P L L D
UniRef90_B4WKK5 A A T E F F H C I Q G R G I D D A V V V G S Q V V T A L L Q Q T T I V A R N N I D P L L K D
UniRef90_E4KNT9 A S M D R F K I T I L G K G Q D P P L V V A A A Q L I T T I Q Q T T I H A S R N N I D P L L K D
UniRef90_A4ENB5 A A A D Q F E I T I E G K G I D T T V V A S S H I V I A L L Q Q T T I A S R N N I D P L L E R
UniRef90_A8LIR6 A A T D Q F D L V I K G K G V D P P I L A A S S Q V V L A L L Q Q T T I A S R N N A D P L L E
UniRef90_F6HKP0 A G A G L L A T V P H Q T R D P P I L A A S S L A I V A L L Q Q T T I A S R R E T D P L L E
UniRef90_U2CTR5 A A V D R F V I T I K G T G I D P P I P A A A A M V Q A L L Q Q T T I V S R R N V N A F H
UniRef90_I4BWM8 A A V D S T F L I T V R G Q G I D P P I V C A S S I V M N L L Q Q Q T T I V S S R S A N P Q K
UniRef90_L0LRF0 A A T D E F H A A M P H K T I D P P I A I G A Q I V S N L L Q Q T T I A S R S A N P K K
UniRef90_UPI00036F4E65 A A A D R F E I V T P H K T K D A V A I G S Q L V M N L L Q Q Q I V S R R R V N P L K E D
UniRef90_Q0FKC1 A S A D E F R I D I E G E S V D P P I P A A S S A M V Q A L L Q Q S I V S R R N V A I D D
UniRef90_A1WS16 A A C D T V K I D I I G K G I D P P I V T A S S L V M A L L Q Q T T I V S R R N I D P M D
UniRef90_G4D203 A S M D K F T L K V K G K G I D P P V V I S A E I L A V Q Q K I V V A R E I A P T S
UniRef90_C5WTX5 A G S A R F T A T I T G K G V D P P I V V A S S A V L S L L Q Q L V A R E I A P L V D
UniRef90_UPI00028A3B1C A A A D M F D L T I N G R G I D P P I V V A S S Q V V S A L L Q Q T T I P S R S T H P V D
UniRef90_G8MIY0 A S E D N F V I H I K G R G V D P P I V I A S S Q I V M A L L Q Q T T I V S R R N L D P S L
UniRef90_E4TRM3 A S T D E L Y M K V I G K G V D P P I V I T A H I L V A L L Q Q T T I V S R H A S P K I
UniRef90_K9QXW5 A A T D E F H G A I P H Q T V D S V V V A A Q I L V T A L L Q Q T T I V A R N V N P L D
UniRef90_UPI0002C30C5B A G S G R F S A T I T G K G R D P P I I A A A S A V L A L L Q Q Q I V S R E T D P L L E D
UniRef90_U5L9M0 A A A D R F E I T V P H K T K D A I V T A S S L V V N L L Q Q Q I V S R E T D P L L E D
UniRef90_B9HBW0 A G V G L F E A K I P H L A R D P I L M A S S A V V A L L Q Q Q I V S R E T D P L L E D
UniRef90_Q2K3K5 A A T D E F T V T I P H R T I D P P I A I G A Q I V G N L L Q Q M I A S R T A D P L L S Q
UniRef90_A0NVY8 A A V D S F C K I T I V I G Y G S D P P V C G A S L I M A L L Q Q T T I A S R R N V H H S Q
UniRef90_UPI00046A1EA7 A A V D S F T I T I P H E T A D P V V A A C G M V T A L L Q Q T T I A S R R N V H S G A
UniRef90_UPI000288BE9C A S V D R F E I S V S G K G I D P P V V V S S A T V T A L L Q Q S L V S R R N V S L D K
UniRef90_K2H7R7 A G A D A F E I K I K G K G K D A I V V A S D I V A S L L Q Q V V A R R N V D P L L K D
UniRef90_J0U394 A S V D Q I T I T I R G K G V D P P V V A S A H I I T A L L Q Q T T V V A R R N V D P L L D
UniRef90_UPI0004678488 A C M D R F E I V V K G K G I D P P I S I A C H I V T E L L Q Q T T I V S R E M N P V S L
UniRef90_UPI00028A2098 A A S N P F T I K I K G K G V D P P V V V A C C N V V N A L L Q Q T T I V S R E V D P P V S
UniRef90_L0LYG3 A A A D T V E L T I I G K G V D P P V V V A C C N V V V S L L Q Q T T I V A S R V D P T Q
UniRef90_F9DQC9 A A P D R F F H F T I P H Q T K D A I V I G S Q L V M N L L Q Q T T I V S R R V D P I E
UniRef90_W6WQA0 A S A D G F R I R I E G K G V D P P I L V V G A N I V L A L L Q Q T T I V S R R N I H P R Q
UniRef90_A9BSG3 A S S N E F R L I V R G K G I D P P L V V A A Q I L L G L L Q Q T T I V S R R N V K P I E
UniRef90_K9T260 A A A D M F E M R T I T G S G I D P P I P C G A A I V Q S L L Q Q T T I V A R R N V N P I D
UniRef90_UPI00037F479D A S A D T F D I Y I K G L A V D P P I V A G S M V N A L L Q Q T T I V S R R E N D P L L E
UniRef90_UPI00035E88FB A S T D E L Y I T I V R G K G V D P P L V V A A H I I V A A Q Q T T I V S R R A N P K L
UniRef90_K9PSW5 A A A E T F H I R V V Q G K G K D A I V I G S Q I V T A F Q T T V V S R R A N P I D
UniRef90_F9ZYF6 A A F D T F R I V V K G K G L D P P I V V A A Q I I M A F Q T T I L T R T A N P S E
UniRef90_UPI00037BB134 A A A D G F S I V I Q G K G I D S I V I G S Q V V S S L Q Q H I V S R H V N P L K E
UniRef90_L4UWV4 A S M D Q F H I T I P H K A I D P P V V V A A H I T T A L L Q Q S I V V S R R N V D P L L E
UniRef90_W8X8E4 A S S D K V C I T I P H K A A D P P V V A A S L V M A L L Q Q T T I V S R R N V D P Q D
UniRef90_B7G2N0 A A C E R F E I A M P H L T I D P I V T A S A L V M N L L Q Q T T I V S R T L S P L E
UniRef90_UPI0002375030 A S T S E F R I T I H G K G I D P P V L I A C Q M V I Q A F Q Q T T I V S R N K K P V D
UniRef90_W1UK90 A S P D I F T I K I H G K G V D P P I P I M A Q V I T A L L Q Q T T I V S R K N D P T N
UniRef90_I3WYR8 A A V D E A R L T V H G R G A D P P I V C G A S I V M A L L Q Q T T I V A R N N H P M D

QUERY S K V V T V S K V N 50 D S T T L G G T L R R A F T G F Q R R V E K I T K 80
UniRef90_UPI00047D04A1 P V V L S V T V T Q F I P P E K A T F E E G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_D8GN81 N A I V V S V T H M I P P E K A T F E E G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_A7GR07 P A V V S V T R M I P P E S A V L L E E G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_R9N2X5 S G L I S V T V T N V I P P D S S V E I I Q Q G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_V4LJX4 S K V V T V T V T N V I P P D S S V E I I Q Q G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_F8CWF9 P L V V S V T Q F F V P G G E V E I I Q Q G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_A4IT76 T A V L S V T G T F I P A D E E V F L L D G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI0004640E52 Q A V I T V G M I I P P E S A T L S E G T F R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI00046E18A0 S Q V V S V T A M I I P P E S A T L S E G T F R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_E8T348 P A V L S V T G T F I P D E S V S F E G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_M8ECG4 N L V I S V T Q F I P P E T A T V R F E G G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_B9IIQ5 A R V V S V T G F V I P P E T A T V R F E G G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_B1QWGG K A L L S V T H V I P P E T A T V R F E G G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI00035F9B0E T A V V S V T G S M I P P D R A T L E L S V R S T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI0002899EA1 R L V L S V T M V I P P D T A T L T G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_C1D3V4 P A V V S V T N V I P P D T A T L T G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_I0YV64 T A V V S V T N V I P P D T A T L T G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_W7X777 A G V L S V T M I H P D S C E L Q Q G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_I4Z5X0 A A V L S V T M I P D D T C C M V L E G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_J0QY52 A A I V S V T G N V I P D E V K L E L T V R S F S S E V R L E E E R R I C N Q I V H A H Q Q Q
UniRef90_V4TELO S Q V V S V T A M M I P D S A T V A G G T F R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_S9TCH1 T A V L S V T Q F I P P N E A W I A G G T V R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_J2VIK6 T A V V S V T G N V I P D Q A E I G G T V R S F S S E V R L E E E R R I C N Q I V H A H Q Q Q
UniRef90_L5MTP7 N A V V S V T N V I P P D K V A L I G G T V R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_A4SV59 A A V L S V T Q F I P D S S A F L E L S V R S F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_B2JN52 P A V V T V G T M I P D S S A K L E L S V R S F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_Q65LR8 P A V I S T G S F L A D K A V L I G T A R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_Q1LIJ5 A A V I S V T Q F H P D S A W L I G G T V R S F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_A0A059A5Q7 A R V I T V G F I P P E M V R F G G T F R S T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_K9ZYI1 P A V V S V T T F I P P N S A V L T G T V R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_T0P428 P T V L S F G K I P D D S V Y L E G G T F R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_M5WSC9 S Q V V T V K F I P D D S V R I L E G G T F R A F T R E M Q L E E R R I K E V I A M G Q Q
UniRef90_D4KV11 T G V V S V T R I I P P D K V E L E G G T V R S M E K G D D R I E Q R R I R E V I A H H T Q Q
UniRef90_Q851L5 G A V V S V T N V I P P D S V R I L E G G T L R R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI0003738F72 S V V I S V T N V I P D S S V R I L E G G T V R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_C8WXF5 P F V L S V T K F I P P S E V E L C G T V R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_A8F9X8 H A V V S I T R E F H A G E A E L G G T V R S F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI000465EAC0 P L V V S I T R E F H A G E A E L G G T V R S F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI00042B5061 S Q V L S V T N T I P P Y V I E F G G T L R S F T T D H K L E Q Q R I L K E V I A T K S Q Q
UniRef90_Q1LSG9 T A V V S I G N V I P P D S A R M E L S V R S F T T D H K L E Q Q R I L K E V I A T K S Q Q
UniRef90_B3QN87 P A V L S I T N I I P P D E A A L I G T V R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_UPI000473CB32 A A V L S I T F M I P P E A A C F G G T F R S T T E E S Y L K K R I L E Q R R I E A H H T
UniRef90_W5FLH7 A A V V S I T F M I P P E A A C F G G T F R S T T E E S Y L K K R I L E Q R R I E A H H T
UniRef90_UPI0002E55E29 P A V L T V S S F I P P Q K A T I R G G T V R T F T K N Q P E L R V Q R R M E Q M I I S E N G I
UniRef90_C3KV69 P G V L T I G N I P P E E A T I S G I I R V M K T E H R I V K K R I L E Q R R I E A H H T
UniRef90_B4WKK5 S A V V S I G E F I A D S A F L E G G T V R Y F D P D Y L I P Q Q R I L E Q R R I E A H H T
UniRef90_E4KN19 P S V I S I T R I I P D D A V E I E G G T V R T F D E Q V R I K V R F A E I C Q G V L
UniRef90_A4ENB5 Q A V V S V T S F I P P Q T V H L R G T V R T L S A A T R A E K R R L A D I V C Q Q G T
UniRef90_A8LIR6 Q L V V S V T S F I P P Q Q V A L K G G T V R T L S A D V Q S A E R R I L T E I A T A Q Q G T
UniRef90_F6HKP0 A R V V S V T G F I P P E S V A L E G G T Y R S L T S Q S Y L R E G R I Q E I I E S S Q
UniRef90_U2CTR5 P S L L S V T R I I P P E T A E L E G T V R T M D K N D R Y R E R L C Q Q L A E N T
UniRef90_I4BWM8 S A V I S F G N I P P D V K L T G T V R T F D E G L R I E G W M K R Q I V T G T
UniRef90_L0LRF0 S V V V S V T K F I P P N D A S F A G T V R T F D E P E M R A E Q R F K Q I V T G T
UniRef90_UPI00036F4E65 P A V V T V F N V I A D T A K L Q G T V R T F S E D V R I E Q E I E A V V K G T Q
UniRef90_Q0FKC1 K L V V S V T Q I I P P G T A F L A G G T V R S F R P E I V R A E K R I L R E A E M Q
UniRef90_A1WS16 A A V V S V T G N V I P P E H A T M E L S V R S F R P E I V R A E K R I L R E A E M Q
UniRef90_G4D203 S A L I S I C Q I I P P D E V V L V G T A R T L N E K D R V E S R I L T A I C K G V
UniRef90_C5WTX5 G A V V S V T F I I P P D S V T L G G T C R S M T T E S Y L M K R I L R E V A Q Q G Q
UniRef90_UPI00028A3B1C S V V I S V T Q L I P P D S V R M H G S V R T F L P E T Q M P S S M L R V A E G V I
UniRef90_G8MIY0 Q A V I S C T E F I P P S N V V T K G D T R S Y S R D V Q L D T R M R E V C E G I
UniRef90_E4TRM3 P S V L S F T N V I P P N E V Y L E G T F R T M D E E F W R A Q K K M R Q M A E S G M
UniRef90_K9QXW5 S A V V T V G N V I A D T A T L K G T V R Y F N P A F Q F P Q R I R E R I I S G I
UniRef90_UPI0002C30C5B A R V V T V G Y F I P E S V K F G G T Y R S L S P E I Y L K E R I R E R V I T E L Q
UniRef90_U5L9M0 S A V V T V G S F I A D T A K L E G T V R T F S E Q V R I E E E L R E V I K G T
UniRef90_B9HBW0 A A V V T V G Y L I P E T A K F G G T F R S L S N E S Y L Q K R I L Q E V I E A H H
UniRef90_Q2K3K5 S V V V S V T K F I P N D A T F A G T V R S L D D K M R A E T R F R Q I V E A G V
UniRef90_A0NVY8 S A V I T V G N V I P P D T A E M I N T I R S L E P E V R I E R R I L R I A E G Q Q
UniRef90_UPI00046A1EA7 E K V I S V T Q I I P P D T A M I N T I R S L E P E V R I E R R I L R I A E G Q Q
UniRef90_UPI000288BE9C S A V V S V C N V I P D S A I L E G T V R T F Q P E T R I P A L M Q R I A E G V I
UniRef90_K2H7R7 T A V V T V G N I I P A D Q A E L E G T V R T F F E P E V Q I R E R I E M E T R R A G
UniRef90_J0U394 M G V V T V G N V I P E S V E L K L T A R A F K P E V R L K E R I P A I A R A Q
UniRef90_UPI0004678488 P A V I S I G N I I P G E C R I S G T V R A L T N D T R L A D R I E T I A Q T V
UniRef90_UPI00028A2098 T G V V T V G Y I I P E E V K L G G T V R T M K T E H R I V Q K R I L R E I T A S G I
UniRef90_L0LYG3 T A V V T V G N V I P E S A K M L T V R S F D P K V R L E A R I R K L T A S G I
UniRef90_F9DQC9 S A V L S V G S F I A D Q A V I V G T V R T F T Q E L R M E Q E I R R V A E G T
UniRef90_W6WQA0 C A V V T V G F V I P Q F A E M G G T V R T F D P A V R V E T R V C A A E K S I
UniRef90_A9BSG3 A G V V S V T M V H P D S V E L Q G T V R T F T L E V L I E R R M K T L A E S I
UniRef90_K9T260 S A V V T V G N V I A D T A R M S G T V R Y F N P E D Y I G K R I D E I I A G V
UniRef90_UPI00037F479D P A V V S V T F I P P G S A R L G G T A R S F S N D V R L E D S I H E I A A G T
UniRef90_G4D1H2 P Q V I S V T N V I P P E M A H L E G G T T R S F S N E L R A K E Q I E R I L A G V
UniRef90_UPI00035E88FB P S V L S F T N V I P N E V Y L E G T F R T L N E E W R A H Q H L R R L C E G L
UniRef90_K9PSW5 S A V V S V T G E F I A D T A E L S G T V R Y F N P E L R I R D Q R L E A I N G V
UniRef90_F9ZYF6 V G V L S V T N V I A D T C E M T G T L R T F N S A E L M I Q R R M R D I A Q H T
UniRef90_UPI00037BB134 S A V V T V G V F I A D K A K I E G T V R T F D P E V R I E D D I R T M V H G I
UniRef90_L4UWV4 A A V I T V G N V I P Q S A E M K I S V R S L S R D T R L T R I P A L A Q A Q
UniRef90_W8X8E4 T A V V T V G N V I P Q S A R L E L S V R T L D P E V R V E T Q R I E A L H A Q
UniRef90_B7G2N0 S G V C S I T N V I P H S V L L R G T L R A L R T E T L L R D K V E H I V E S T
UniRef90_UPI0002375030 A G V I S V T M M I P D R C E L I Q G T A R S F T G V L I E K R M Q V A E H C
UniRef90_W1UK90 P L V I S C C N V I P T E A L I Q G T V R T L N N D T R A E E T I E K Q V A K G I
UniRef90_I3WYR8 P A V V T V G N I I P E R A E I V V G I R S F D P A V R L E R R I R T F A E A Q

QUERY	90	100
UniRef90_UPI00047D04A1	A A V H R C N A S V N L T P N G R E P M P P	
UniRef90_D8GN81	T E A H G A T Y T F R Y E Q G Y R P V V	
UniRef90_A7GR07	A E A Y G A K A N F N W Y E G	P P P
UniRef90_R9N2X5	A D A L G V E V E L H W	Y P G P P P P
UniRef90_V4LJX4	A K A Y G A E A E V K W L P G	P P P
UniRef90_F8CWF9	A A V N Q C N A S V N L T P N S K E P V P P	
UniRef90_A4IT76	T E A H G A T Y E F E F E Y G Y R P	
UniRef90_I0JKA2	T E A H G A S Y E F E F N Y G Y R P V V	
UniRef90_UPI0004640E52	C T G Y E A D Y S F N Y E K G Y P V V	
UniRef90_UPI00046E18A0	A E A L G A E A I V D Y K F G Y P	
UniRef90_E8T348	A A V H R C S A E L E F L G N E H P S L P P	
UniRef90_M8ECG4	A A A Y G G E C E F E F Q W G T P P	
UniRef90_B9IIQ5	T E A H G A T Y E F K Y E Y G Y R P	
UniRef90_B1QWGG6	A A V H Q C T A S L D F M E E K M R P Y P	
UniRef90_UPI00035F9B0E	A Q S Y G G N A E L I W H S G	
UniRef90_UPI0002899EA1	V A A Y G G K V E I E V L R G Y P V L V	
UniRef90_C1D3V4	T E A H G A S Y E L D Y R H G Y K S V V	
UniRef90_I0YV64	T E A F G A T Y E F R Y E Q G Y R	
UniRef90_W7X777	A Q S H K C S A T V D W L E K K E P Y Y P P	
UniRef90_I4Z5X0	C D A Y G A G C E F E F H R K Y P P T V	
UniRef90_J0QY52	V A A F G A E C D F E F H R N Y P P	
UniRef90_V4TELO	A Q S Y R A E A E I N Y S R G Y P V T V	
UniRef90_S9TCH1	A A V H R C S A E V D F S G R E H P T L P P	
UniRef90_J2VIK6	A S A Y D C T V D F A F H R N Y P P T V	
UniRef90_L5MTP7	A E A H G A T A E V E Y E L G Y P	
UniRef90_A4SV59	A A A Y G A K A S V R W F K G	P P
UniRef90_B2JN52	A S A F D C Q T E I T F S R N Y P P	
UniRef90_Q65LR8	A A S Y G G K A H V D Y V E G Y P V V V	
UniRef90_Q1LIJ5	C G M H G A D C D Y S F E R G Y P P	
UniRef90_A0A059A5Q7	A Q A F D C T I E F E F S R N Y P P	
UniRef90_K9ZY11	A A M H R C N A T V S F M E E K M R P Y P	
UniRef90_T0P428	T D G F G A S Y Q L N Y T F G Y R A T V	
UniRef90_M5WSC9	A E S M G A V C D F D V R K G Y P F	
UniRef90_D4KV11	A S V Q R C S A T V N F L E D E K P L S P P	
UniRef90_Q851L5	A A A Y G A N A E L L W Y P G	P P
UniRef90_UPI0003738F72	A A V N R C T A A V D F M E D K L P P Y P	
UniRef90_C8WXF5	C N A F G A T C E L N Y M K G Y P	
UniRef90_A8F9X8	A E A Q G A S Y E F R Y E R G Y R P V V	
UniRef90_UPI000465EAC0	A E G F G A K G E V K W H P	
UniRef90_UPI00042B5061	A L S H G G L A E V T Y T R N Y P P T V	
UniRef90_Q1LSG9	A A V H R C N A S I D M K E E E F P P Y P	
UniRef90_B3QN87	A E G Y G A T A D I E Y V R G Y P V L V	
UniRef90_UPI000473CB32	A E A F E V E A D V E I R F G Y P V L Y	
UniRef90_W5FLH7	A S A F N A E L I Q F E F K R N Y P P	
UniRef90_UPI0002E55E29	A V V S R C T A S V D F M D E E R P Y P	
UniRef90_C3KV69	C Q Q G G A S Y D F A Y Q K G Y P	
UniRef90_B4WKK5	C K A M R G E C E I D I E E S Y P C L Y	
UniRef90_E4KNT9	C A A H G A S Y T L D Y	H K L Y P P
UniRef90_A4ENB5	G Q A L H V T C E L D Y S D K Y P P	
UniRef90_A8LIR6	A T T F G A T A E V N Y T R G Y P V M V	
UniRef90_F6HKP0	A Q A M G A E A E V Q Y H K G Y P V M V	
UniRef90_U2CTR5	A A V H R C T A V V E F R E E P L P Y P P	
UniRef90_I4BWM8	A L A Y G A K A Q I Q W L P G	P P
UniRef90_L0LRF0	A S S L G C R V E F N Y R R D L P P V V	
UniRef90_UPI00036F4E65	A T S H G A E V E I E F H R N Y P	
UniRef90_Q0FKC1	C L A N G C G Y D F N Y H R G Y P A V V	
UniRef90_A1WS16	A Q V Y G C T A T V T Y E R G Y P P T V	
UniRef90_G4D203	A A G Y G A K A E I E Y L C G Y P V L V	
UniRef90_C5WTX5	A R T H G G D A E V D Y N R M Y P V L V	
UniRef90_UPI00028A3B1C	A A V G R C T A V V D F M E E K M K P Y P	
UniRef90_G8MIY0	C A A F G A S C E L N Y I K G Y P	
UniRef90_E4TRM3	C R T H G A E C A F D Y T H E F A P T V	
UniRef90_K9QXW5	A E S M G A K C E F E I R K G Y P F L V	
UniRef90_UPI0002C30C5B	C Q S Y G A E Y D F Q Y	R S L Y P P
UniRef90_U5L9M0	A L V H R C N A T L D F K E E Q P L P Y P	
UniRef90_B9HBW0	C Y	T A D S T Y S Y T R H R G Y P
UniRef90_Q2K3K5	A A V H R C N A T V N F M D Y R H L P H P	
UniRef90_A0NVY8	V A A H G A E A E I S F N R N Y P V T V	
UniRef90_UPI00046A1EA7	A A S Y G M R A E V D Y Q R G Y P P M	
UniRef90_UPI000288BE9C	A A S Y G V E A E L D Y E E G Y P	
UniRef90_K2H7R7	A Q G Y G A A E L K W L P	
UniRef90_J0U394	C E A A G A	D Y H F S Y N I G Y P P
UniRef90_UPI0004678488	A E S F G A T A E V Q Y R P G Y P	
UniRef90_UPI00028A2098	A Q G M R G E I E F R Y G W E G P S P V	
UniRef90_L0LYG3	V T S M R G S C E I E I E S Y P C L Y	
UniRef90_F9DQC9	A D G Y G A S A E I D Y V H G H P V V V	
UniRef90_W6WQA0	A I A N D C Q I K V E Y T R G Y P A V V	
UniRef90_A9BSG3	A E A Y G A N A T V S Y R R M F P P T V	
UniRef90_K9T260	C A A H D T R C E F E F V R N Y P P	
UniRef90_UPI00037F479D	C H G H G A T Y E L D Y	W R L Y P P
UniRef90_G4D1H2	A K A Y D C E I K I D W Q P G Y P P T V	
UniRef90_UPI00035E88FB	A L T T R A E I T L D Y H D G T P A T V	
UniRef90_K9PSW5	A E S M G A S C E L E I R R G Y P Y	
UniRef90_F9ZYF6	C H S Y G A T Y E L D Y I	R M Y P P
UniRef90_UPI00037BB134	C L A H G M T C D I E F N K G Y P P T V	
UniRef90_L4UWV4	T L A E R A T Y T I D Y I H G Y P A V V N P	
UniRef90_W8X8E4	A A S F G A T A E V T H V N G T P V L V	
UniRef90_B7G2N0	A Q S F G V T A R I D Y R R G Y	
UniRef90_UPI0002375030	A A T H G C N V I T L S Y S P D Y Y P P	
UniRef90_W1UK90	C A A H D A R C T F E F V R K Y P P T V	
UniRef90_I3WYR8	V E S Q G A S Y E F E F I R Q F P P L V	
	A A S F G M R A T V D Y Q R S Y	

UniRef90_K9YF64
UniRef90_UPI000372D111
UniRef90_M5P9G5
UniRef90_G4D676
UniRef90_UPI000255D2E9
UniRef90_I5BS05
UniRef90_R8ZWC0
UniRef90_U2F2B9
UniRef90_K9YMQ0
UniRef90_H7CUA7
UniRef90_T0DH94
UniRef90_UPI00041AA90C
UniRef90_A4A6H8
UniRef90_D2Z502
UniRef90_UPI0004105536
UniRef90_M0WFT1
UniRef90_K0SIF6
UniRef90_K9E229
UniRef90_G2IG75
UniRef90_A0A024Q847
UniRef90_V6M3F5
UniRef90_UPI0003B75DCB
UniRef90_U1HMN8
UniRef90_UPI0004752884
UniRef90_I1JYG0
UniRef90_K9F3K6
UniRef90_W2D3M0
UniRef90_D7GR25
UniRef90_UPI00037A753F
UniRef90_W4RWT9
UniRef90_A0A031WAG0
UniRef90_E7NX04
UniRef90_B9QTA5
UniRef90_Q5UFQ3
UniRef90_I0A0F3
UniRef90_M8DHF0
UniRef90_A2SKF6
UniRef90_C8WUM2
UniRef90_H8DR11
UniRef90_A0A037Z635
UniRef90_UPI00032A931A
UniRef90_K2LL34
UniRef90_UPI0001850CD6
UniRef90_UPI000376634D
UniRef90_UPI00046453DB
UniRef90_A7GMR2
UniRef90_Q49V59
UniRef90_E0REV8
UniRef90_QOYQV4
UniRef90_U2KFH7
UniRef90_UPI00046E9F17
UniRef90_F2LR12
UniRef90_UPI000373FD4B
UniRef90_UPI00037E582D
UniRef90_UPI00047D0708
UniRef90_J1F574
UniRef90_W7BGW6
UniRef90_A3VLV5
UniRef90_C3WFK7
UniRef90_UPI00036ECCCC
UniRef90_UPI00037BB003
UniRef90_UPI0003B3B94A
UniRef90_A9C077
UniRef90_D3G010
UniRef90_K9VJB6
UniRef90_R6IA05
UniRef90_R5XP22
UniRef90_E7NWX1
UniRef90_G9QMA0
UniRef90_UPI000363760B
UniRef90_UPI00037E406F
UniRef90_B1Z5G6
UniRef90_R7ANU3
UniRef90_K9SGP6
UniRef90_A0A059A5Q3
UniRef90_T3HN06
UniRef90_B6AXT8
UniRef90_UPI00037B78B6
UniRef90_UPI000415C6E8
UniRef90_W3AGI5
UniRef90_X6GLD1
UniRef90_J3GTT3
UniRef90_F2IHW5
UniRef90_C9KJ21
UniRef90_I5C7U9
UniRef90_V6M3V3
UniRef90_K9B0X8
UniRef90_F8EL99
UniRef90_UPI0003F869ED
UniRef90_G7FKM4
UniRef90_U1BWA6
UniRef90_F8AIW5

UniRef90_K9YF64 S A V V V T V G N V I V I 50 D R A Y L S G T V V R Y F D L E N Y I G Q R V L E S I L T S G I 80
UniRef90_UPI000372D111 P A V V I S I G N V I I P D D Q Q A T L S E G T V V R H F N Q L H V Q V V H K R R L A S D L L S A G E I
UniRef90_M5P9G5 N A V V V S I T I G N V I I P A G E Q V A E M E G T V N R Y F F N Q K E A R R I P K H M R R E M A L L A K G G V
UniRef90_G4D676 S V T V L S F T N I I I P E K V E I L A G T L R R T L T D K E E W R I L K S R D R M R K E I I A E G G T
UniRef90_UPI000255D2E9 P T V L S F T N I I I P E K V E I L A G T L R R T L T D K E E W R I L K S R D R M R K E I I A E G G T
UniRef90_I5BS05 S V V V L S V T K F I P D D S V E L A G T V V R T Y Y L L K K S D V D A E N K M K Q I I A E G G T
UniRef90_R8ZWC0 P C V V V T V G N F I V P S D C V L L Q G T L R R A F D Y P E V R A K G R R M E E I I L V H S T
UniRef90_U2F2B9 P V V L T F G N F I V P S D C V L L Q G T L R R A F D Y P E V R A K G R R M E E I I L V H S T
UniRef90_K9YMQ0 S A V V T V G K F I P A D T V K M G G T V R T F N D E E K F I G E R I I E A I I A E G G T
UniRef90_H7CUA7 S Q A I L T V I G T M I P A D T A T M G G T V R T F N D E E K F I G E R I I E A I I A E G G T
UniRef90_T0DH94 P F V L S V T K F I P G S V E M C G T V R T F K D E L R D E A S W M E R I I A E G G T
UniRef90_UPI00041AA90C I S V G R I N N I I I P G E A K I L G T I R T L S P E T L I K S R Q I L V K L T A E H I I
UniRef90_A4A6H8 A A V T S V G N I I I P D S A T I K G T I R R A F D P A V R L A K R R M E E T A V A I A I
UniRef90_D2Z502 M A L I T V G N F I P Q T A V L L G T V F R A F L T R E N M R L A E R R I I K E A L V I A A Q Q
UniRef90_UPI0004105536 S Q V V T V G K F I P D S V T I L G G T V F R A F L T R E N M R L A E R R I I K E A L V I A A Q Q
UniRef90_MOWFT1 S G V I S V T N V I P G D A V L L K G T I R A F L S T E T L L R D R K V Q A M V E S T
UniRef90_K0SIF6 T A V L S V T Q I I P E K A E L E G T V R T F T T E V L V E R R L M Q E M A N G I
UniRef90_K9E229 P S V L T V G N I I P E K V E L E G V I R T L S K E E T R I K S R R I I E E A I I A E G G T
UniRef90_G2IG75 S A V V S V C N F I A D S A E L V G T V R T F K E E T R I E K S R R I I E E A I I A E G G T
UniRef90_A0A024Q847 S A V I T V G N I I A E E K A R L K E G T V R S F N K G V R L A K R R I I E E A I I A E G G T
UniRef90_V6M3F5 S G V I S V G N I I A E E C R M L K G T V R S F N K G V R L A K R R I I E E A I I A E G G T
UniRef90_UPI0003B75DCB S A V L S I T M F I P E T V T L G G T V R S L D P G V R V L E R R I I G E E V A S S I
UniRef90_UPI0004752884 V Q A G K A N N V I P N T A V L L G L S L D D R N E Y H F R Q R L K E I I A A G Q
UniRef90_I1JYG0 N Q V L S V T F V I P S Y V K F G G T L R S L T L S E E T R I K S R R I I E E A I I A E G G T
UniRef90_K9F3K6 S A V L S V G E F I A N S A R L S G T V R Y F N P A Y R L P E R M E R I I A E G G T
UniRef90_W2D3M0 P A V I S C T E F I P T H V V L K G D T R S Y A P E V Q L A K A M R I I S E G G T
UniRef90_D7GR25 P G V L T V G N I I P E T T R I T G T V R T F D E E S T R I A A R I I E E M S R Q G T
UniRef90_UPI00037A753F P A V L S V G T I N A E T T R I T G T V R T F D E E S T R I A A R I I E E M S R Q G T
UniRef90_W4RWT9 S A V V T V G S F I A D K A K L I G T V R T F D E E S T R I A A R I I E E M S R Q G T
UniRef90_A0A031WAG0 P V V L T V G M F I P A D K A K S M S G T L R T F D E Q F V R L K A N R I I E I S T G T
UniRef90_E7NX04 T T T L T F G N I I P E T A R M Q G T M R T Y D P D V R M K K R M G E I I L E S G I
UniRef90_B9QTA5 S L V V S V T V F I P Q E T V T L R G T V R L S P Q M R A E E R M N K E I I L E S G I
UniRef90_Q5UQF3 S R V V T V G F V I P E T V T L K G T V R S M T S P E Y Y L Q Q R I I R R I I T E M Q
UniRef90_I0A0F3 P F V I T V G N I I P D K V E M L G T V R T L S K E E L R M E E R L R R I I T E R G V
UniRef90_M8DHF0 Q L V V S C S F I P D S A K L K G T V R T Y N T E V L R A E K A R Q I I A E A A T
UniRef90_A2SKF6 T G V I S V T M I H P D S C E I R G T V R T F T E V L I E Q R M R T I A D A T
UniRef90_C8WUM2 S A V I T V G N I I A E E R A R L E G T V R A F L N A A T R L L K N R I I E A V V A G I
UniRef90_H8DR11 N A V V S I T Q I I P E S A W L E G T V R S F S P D I L M P R K I I E E A I I A G I
UniRef90_UPI000372635 S A V V T I G N V I A D E S V L E G T V R S F S P D I L M P R K I I E E A I I A G I
UniRef90_UPI00032A931A S Q V L S V A T V N A D S V T F G G T Y R A F S K K S F L R K R I I E E A I I A G I
UniRef90_K2LL34 T A V V T V G N V I P E A N A R L A L S V R T L H P E T R I K S R I I E S L V K G V
UniRef90_UPI0001850CD6 S A V L S F G N V I P D E V Y M E G T F R T L T D E N W R A H V R M K K M A E T I
UniRef90_UPI000376634D P T V L S F G N V I P D E V Y M E G T F R T L T D E N W R A H V R M K K M A E T I
UniRef90_UPI00046453DB S A V I S V C E F I P Q T A E L M G T V R T F Q T P E V R A E E R I I G E V A G G V
UniRef90_A7GMR2 S Q R V V S V T F I P N T A F L M G T V R T F Q T P E V R A E E R I I G E V A G G V
UniRef90_Q49V59 Q A V I S F G M I I P D S A F C K G T V R T F D T E E T R M K E R L H E R Q T V M H T
UniRef90_E0REV8 P A V L S V T N V I A E T C R L S G T V R T F D E E T R M K E R L H E R Q T V M H T
UniRef90_Q0YQV4 P A V V S I T N V I P S Q V T M S G T M R T M N E E V R L H H R R L R Q T V M H T
UniRef90_U2KFH7 G A V V T F G N V I A E E A K L H G T I R T L T Q E M N L Q K R L R Q E I A K G V
UniRef90_UPI00046E9F17 N A V V S V T Q I I P D S A W L E G T V R T F S P A T R I E T R L R R H I L N E A Q
UniRef90_F2LR12 A A V V T I G M I P Q R A R L E L S V R S F S E T V R L K R R I I H A L T E G T
UniRef90_UPI000373FD4B P A V V T I G N I I A D R C K L S G T V R C F Q S E E T R I R R R I I H A L T E G T
UniRef90_UPI00037E582D A L V I S V T Q I H P D S A Y L N G T V R T F D R A V Q R Q R L A E T I V A T N G Q
UniRef90_UPI00047D0708 P A V V T V G N I I P D S V W M L G T V R T F D P A A R I V G Q R M K I I L A T N G Q
UniRef90_J1F574 S G V V T L G H F I A G K A Q I D G T L R A L T Q E M L I Q K R V R K I A E S V
UniRef90_W7BGW6 M G V V T I T M I K D H V L E G D M R Y M T N E V K L D E R I R E A I A E G I
UniRef90_A3VLV5 H V V V S V T T M I P Q R V H M K G T I R T H D A D N E V R A P E R V K A L A E G I
UniRef90_C3WFK7 S A V V T I G S F I S N Q A T L E G T V R T F S K E T C I E N A I R R I I V K S T
UniRef90_UPI00036ECCCC P S I L T V T N V I P E T A E M R L S V R A L R P E V R E Q R R I I T E V A T G Q M
UniRef90_UPI00037BB003 P S V D G V T N V I P N E V K I E G T F R C M N E E W R E E R M Q R V A T G M
UniRef90_UPI0003B3B94A P T I L S V T N V I P E H A R L E G T F R T M D E D W R A H D L I R R Q R V A T H T
UniRef90_A9C077 M A V V T V G S V I A H S A V L E L S V R A L D A D V R L E Q R I I R D L V S A Q
UniRef90_D3G010 S A V L S V G S F I A D S A K I V G T V R T F E T D V Q M I E R M E Q V T K G V
UniRef90_K9VJB6 S A V V T V G Q F I A D T A Q I G G T V R Y F N P A Y R F D K R I I E Q V I A G T
UniRef90_R6IA05 S A V V T V G K M I P S E V V L E G S M R Y L L P E T R I H E R I I A A G T
UniRef90_R5XP22 S C V G T V G N I I P E T A V L E G T I R T N K P E S R L V R R M K E V A E R V
UniRef90_E7NWZ1 T L V I T V G K M I A G E A F L E G T A R S F S K E E V W I P D M M K R V V D N T
UniRef90_G9QMA0 S A V V T V G K M I A E T A R L E G T I R T L S P E E K V K E R I I E A L H G I
UniRef90_UPI000363760B P S V L T F G H I I P G E V V L R G T V R T F T T E T Q I E S D M H R I V T S L
UniRef90_UPI00037E406F P A V L S I T Q I I P G E V V L R G T V R T F T T E T Q I E S D M H R I V T S L
UniRef90_B1Z5G6 S A V V T I G R I I P G E V E L S V R T F D A E V R L K E R I I G R V I H A Q
UniRef90_R7ANU3 T C V I S V C K F H C G E S A E L E G T V R T F S P E L R L P I E R V I K N T
UniRef90_K9SGP6 S A V V T V G M V I A D T A K F A G T V R Y F Q S P A E M I P K R M E Q V I A G I
UniRef90_A0A059A5Q3 A Q V V T V G Y I I P E S V K F G G T F R S L S P N L F L Q K R I I K E I V E M Q
UniRef90_T3HN06 S V V I S L G N I V C D K V V I R G T L R T L T P E T R E K K R I I R E I I C D F M T
UniRef90_B6AXT8 D L V V S V T Q I I P D T A Y M N G T V R T F D P K V Q V E R R L N E I V A G Q
UniRef90_UPI00037B78B6 A P V L S V A V F I P A N T A R L A G T L R T H N A E V R V P Q L E Q K T V M G T
UniRef90_UPI000415C6E8 S A V L S V C N I I P A N T A K I A G T V R T L N E E S R M E Q E M E R V I M G T
UniRef90_W3AGI5 Q L V I S V G N V I P T E A V M T G T I R S Y E P E V R A A E R L R T G I A T Q V
UniRef90_X6GLD1 A V V V S V T K F I P E S A E L A G T V R L K K N A V R L E Q K A E Q C I E G V
UniRef90_J3GTT3 M S V I T V G N V I P D S A H M L S V R S L K N N A V R L E Q Q I R A K I H A Q
UniRef90_F2IHW5 P C V L S F G H F I P E K A I L K G T F R T M N E D W R K E A L E M I A K H V
UniRef90_C9KJ21 P S L V S I T H I I P E S A W L E G T V R C L T A D R I K Q A I E R V A E G Q
UniRef90_I5C7U9 A A V V T V G N Q I P D S V T L E G T V R S Q N P A V R V I K A I E R V C I E G Q
UniRef90_V6M3V3 S V V V T V G T F I A D S C R L T G T V R T F M P E V R A Q E R L T E I A Q G T
UniRef90_K9B0X8 E A V I S F G N V I P D K A T L R G T V R T F S P E T Q V Y H R K M D K I L Q G G
UniRef90_F8EL99 P A V V T V G N I I P E S L E M L G T I R T F G D T Q V Y H R K M D K I L Q G G
UniRef90_UPI0003F869ED S A V V S V T Q I N P E T V V L E G T Y R C L D T K V Q V K M L I K E L S S G V
UniRef90_G7FKM4 P A I V S F G N I I P E K V E M V G T I R N F D M N N R A Q E S R L R E L V S L Q
UniRef90_U1BWA6 P A V V S I G N V I P D C A R L E L T V R T Y N P Q Q Q V E K R I R E L V S L Q
UniRef90_F8AIW5 S A V V T V G N I I P E S V I E L E G T Y R F F E P K V L V E K R I R E L V S L Q

UniRef90_K9YF64 C H S H G A S Y D L 90 N Y W R M Y P P 100
UniRef90_UPI000372D111 C L S Y G A K Y E L D Y S Y G D P P
UniRef90_M5P9G5 A A G F G A Q A E F R W F P
UniRef90_G4D676 C D A Y G A D Y E L D Y T Y
UniRef90_UPI000255D2E9 A A A M G A H C H V D K D G Y P V V Y
UniRef90_I5BS05 A A A H G A T V E V D Y D S N Y P
UniRef90_R8ZWC0 G L G F G A K L D L E Y K R I D K P
UniRef90_U2F2B9 A A T F R A T A E I S Y E S E T P P T V
UniRef90_K9YMQ0 C E S H G A T Y D L D Y W Q L Y P P
UniRef90_H7CUA7 A K S F R A S A E V I W G S G C P T L V
UniRef90_T0DH94 T E A H G A S Y Q F V Y E K G Y R P V V
UniRef90_UPI00041AA90C C S A F G A K A K V D F I T G T P P L V
UniRef90_A4A6H8 A A S A G A T A E V S I I K G Y P
UniRef90_D2Z502 C S G L R C Q A E F E Y K
UniRef90_UPI0004105536 A D S F G V R A E I D Y R R G Y S V L V
UniRef90_M0WFT1 A S V Q R C S A V V D F L D K D R P F F P P
UniRef90_K0SIF6 A L L H G C N S T I T Y S P D Y Y P P
UniRef90_K9E229 A T G F G A S I D F G F K R N Y P P L V
UniRef90_G2IG75 A T S M R V D I D V E V T D G Y P C L Y
UniRef90_A0A024Q847 C D V S G A D Y V Y T Y T R G Y P T L V
UniRef90_V6M3F5 E A G F E C R A E I D Y G C G Y
UniRef90_UPI0003B75DCB C H M F G A D Y Q F Q Y G W G Y P P
UniRef90_U1HMN8 A K A Y G G S A E T D Y G R M Y P
UniRef90_UPI0004752884 A S S F G V R A E V D Y R Q G Y S V L V
UniRef90_I1JYG0 A A V H R C N A Y V D F K E E Y F T P Y P
UniRef90_K9F3K6 C Q A H G A S Y Q F D Y I R L Y P P
UniRef90_W2D3M0 C R L H G A S C E F E Y T H E F A P T V
UniRef90_D7GR25 A E S M R G T A E V E W E I G V P P L V
UniRef90_UPI00037A753F A E A Y G A S A Q V D Y L V G Y P
UniRef90_W4RWT9 C L A T D C T Y D Y Q Y E K G Y P A V V
UniRef90_A0A031WAG0 A K S F G G N A K V E F K M G
UniRef90_E7NX04 A K T T G C K I E I D Y F S G V P S L Y
UniRef90_B9QTA5 A D A F G A S A E L T F L R G Y P
UniRef90_Q5UFQ3 A S V H R C T A T V D F M L E K M R P Y P
UniRef90_I0A0F3 T S A F N G D F S L E Y L Y G Y P
UniRef90_M8DHF0 C Q A S G A S C E V V Y R R G Y P
UniRef90_A2SKF6 C A A F E T R C R F E F S R N Y P P
UniRef90_C8WUM2 E R M F N C Q A E I D Y G A N Y Y Q V Y
UniRef90_H8DR11 A S A F D A Q V R F N W H A G P P
UniRef90_A0A037Z635 C A A L D C H Y E F K Y I K G Y P L T Y
UniRef90_UPI00032A931A V E V H R C A A E V E F F G R E H P T I P P
UniRef90_K2LL34 A E G Y G A T A E I D Y Q H G Y P V V V
UniRef90_UPI0001850CD6 E W Q F D C Q A R L D Y G S N Y Y Q V Y
UniRef90_UPI000376634D A E S M G G S C D F K I V R G Y P Y L V
UniRef90_UPI00046453DB A Q M T G A K L D L D L K R G Y P V T V
UniRef90_A7GMR2 T E A H G A T Y E Y T Y R Y G D P
UniRef90_Q49V59 A L J A N D I T Y T L D Y V K G Y L P
UniRef90_E0REV8 A A T Y G T T A Q V R Y I M G Y P P V V
UniRef90_Q0YQV4 A E A L G V T A E L E I R N G Y P V L Y
UniRef90_U2KFFH7 A Q S F E L E L D V E L I Q G G Y L P V
UniRef90_UPI00046E9F17 A T G F E A K L S L D W Q P G P P P V
UniRef90_F2LR12 A A S Y G A K A I V D Y V D G Y P V V V
UniRef90_UPI000373FD4B A Q A Y G A D A V I D Y M S G Y P
UniRef90_UPI00037E582D A A A Y G V T A D L R Y N V E Y P
UniRef90_UPI00047D0708 A A A H N A T A E V T V D L G Y
UniRef90_J1F574 A E A F E C E V D L D L H Q G G Y Y P V
UniRef90_W7BGW6 E A E F G V T C E L E L T R D Y P P L Y
UniRef90_A3VLV5 A A G F G A R A Q F T Y L P G Y P V M V
UniRef90_C3WFK7 C E A Y R A E G E V F Y T Y G T T P
UniRef90_UPI00036ECCCC A A V F G A R A E V D Y Q R R Y P V L V
UniRef90_UPI00037BB003 A E A M G G S C E F T R V K G Y P F
UniRef90_UPI0003B3B94A A E A H G A T A D V E V R V I G Y P
UniRef90_A9C077 A E S F G V Q A Q L E W R P G Y
UniRef90_D3G010 C D A M G A T Y D F L Y K K G Y P
UniRef90_K9VJB6 C Q S H G A D Y Q L D Y C S L Y P P
UniRef90_R6IA05 A L A L R V H A E T E I P G C G P
UniRef90_R5XP22 A A V Y G G S A E V E M L S E V P P
UniRef90_E7NWX1 C A A Y G A S A E I D F T R
UniRef90_G9QMA0 E I A F D C E A S I D Y G C R Y Y Q
UniRef90_UPI000363760B A A A L G G S A Q L D L H G Y P F
UniRef90_UPI00037E406F P Q V Y G A T G E L Q F T R A Y P P V V
UniRef90_B1Z5G6 A D S Y G L T A V V D Y V E G Y P M
UniRef90_R7ANU3 C S A F R A D Y E F F E Y T F G
UniRef90_K9SGP6 C Q A H G A S F E F D Y Q R I Y P
UniRef90_A0A059A5Q3 A A V Q R C T A V V D F G E D K V P L H P
UniRef90_T3HN06 C K T F G G S I S V E I E E G Y P
UniRef90_B6AXT8 A A S Y G V T A E L R F E R G Y P
UniRef90_UPI00037B78B6 A Q A H G A Q A E V K W T R G Y
UniRef90_UPI000415C6E8 C E L S G A D Y E F N Y E R G Y P
UniRef90_W3AGI5 A Q A L G A Q A D V V I D K G Y
UniRef90_X6GLD1 G A A F G A T I E V D Y K A N Y P
UniRef90_J3GTT3 A E A F G A T A E I Q Y S A D Y P L L V
UniRef90_F2IHW5 C E Q F G A T A D L E I S K G Y P Y
UniRef90_C9KJ21 A A S F G G H A E L T W Y A G P P
UniRef90_I5C7U9 A L T H R V T C E P T F L T G V P P V V
UniRef90_V6M3V3 A A M M G A S A K V S Y I R D Y P
UniRef90_K9B0X8 A L J A N D I T Y E F E Y D K G Y L P V Y
UniRef90_F8EL99 A E S A G A K A D V E I G T G Y P A T V
UniRef90_UPI0003F869ED C A T H G V E L N M E F F D G Y
UniRef90_G7FKM4 A K S S G A T A D V H I H E G Y P V T V
UniRef90_U1BWA6 A Q S F G V T A E I E W T P V T R V L V
UniRef90_F8AIW5 A R A H N T K L E L S T I E L G P P T V

UniRef90_A3AVM8 1 A A V C F Y E A K I E G K T V D P I V I A A S F V I L S L Q Q S I V S S R E R N D D P L H 40
UniRef90_B8IH01 A A A D F F D Q T R I L T G R K G I D D P V V I Q A S A Q L V V Q A L L Q Q Q A V V S S R R N N T D D P L H
UniRef90_H5SFN6 A G A E W F H G V R L M P H H K A A D P V L V A G S A I V V L S A G L L Q Q S I V V S A R R N N V V P P L L Q Q
UniRef90_H0BV75 Q G A M P H H A A D P V L V A G S A I V V L S A G L L Q Q S I V V S A R R N N V V P P L L Q Q
UniRef90_K9UQ96 A A V E R F T L K T I Q G K G V D A I V V L G S Q I V V N S L L Q Q S T I V V A S R R N N V V N D D P L L Q Q
UniRef90_F4AP11 A S A D S F E I T I H G N K S I D P I S A A A Q V V V T G V L L Q Q N Q H I V V S S R R N N Q I V D S P T K T E S
UniRef90_T0PHT7 A A S N P F E N I A I P H K G S I D P I V I G S A N V V V J A L L Q Q S I V V S S R R N N Q I V D S P T K T E S
UniRef90_J4YLE7 A S N S E F H V T I R I R G K G I D P I P A A A G Q M I E A F Q Q T T I V S S R R N N K K P L E
UniRef90_J3HQB4 A A C D T V K L R L P H L S V D P V I V A A S Q S L V M A L L Q Q T T V V S S R R N N T D D P L M E
UniRef90_UPI0002DA8DBB H G A M P H H Q T V D S V I L V T A Q A I N A L L Q Q T T V V V A T R S R R N N T D D P L M E
UniRef90_UPI00041E28B0 A S S N R F H A A M P H H K G H D P L L A G A A Q T V T A L L Q Q A I L L T R S R R N N K R D P L I D Q
UniRef90_UPI000472043A A S A D E F H A G M P H H R T I D S V I A A G A A L V T Q L L Q H S I V S S R R N N V V S P T T Q
UniRef90_A9CF81 A G A D F F D I R L K P G R G R D D P I P A T G E L I V Q A L L Q Q T I V V S S R R N N V V S P T T Q
UniRef90_C2WBB5 H A A Y P H T A N D M I V A A S H L V T T Q L L Q Q S I V V S S R R N N V V N D D P L D R
UniRef90_K9W3C0 A A A D H L E S I T T I P H E A I D A I W I A A S Q E V I T T T Q Q A I S S R R T Q N D P L R K
UniRef90_D3QG22 A S P D E F E V T I K G R G I D P I V I M A E F I L S A Q Q K I V S S R R N N V V D P L V K
UniRef90_G8T754 A A N D E V N I T I K G R G V D P V I V A A Q T L L S M Q Q S T I V S S R R V A N D P T E
UniRef90_Q5L145 H A A F P H L A N D M V V A A C A L V T Q L L Q Q S I V V S A R R N N V D P L D D
UniRef90_B2A2X1 A A A D F I E I E I P H L L A N D M V V V A A G E V L S S L L Q Q R L I V S A R R N N V D P L D D
UniRef90_C6WDZ5 A S A D T F R V L V R G R G L D P V P A A A A M V G A L L Q Q T M V S A R R R V S V H R D
UniRef90_A8LHV6 A A V D T F H I H I K G R G A D P I M A A V I G I A Q A L L Q Q T I V V A R R N N H I A T D D
UniRef90_UPI0003609410 A S E D N F A I H I T G R G V D P L V I G A Q I V L A L L Q Q S I V V A R A V D P G D
UniRef90_A6LVL4 A S S D W F E V I R I R G K G V D P L N V I A H L H L A L L Q Q G I V S H E I D P T D
UniRef90_G2J2G4 A S S D T V T I R I P H R S I D P V V V C A S L T M A L L Q Q S I V V A R R N A D P L E R
UniRef90_UPI00037XVB6 A A P D K F S L T V P H R R T I D P I T I G A Q I V G N L V I V A R R N A D P L E R
UniRef90_T0BPQ9 H A A F P H R A N D M V V A G A Q F I G A I Q S S I V S S R R N N T D D P L D D
UniRef90_B4STH8 A S V D W A R E I K V I T G K G V D P I L V A A H I V T A L L Q Q S I V V S S R R N N V D D P R Q
UniRef90_F5Y4Y1 A A T N R F L I R V R G Q G V D P I P V A C A I V Q L L Q Q S I V V S S R R N N V D D P R Q
UniRef90_A0B1H5 A S S D S V T I T V T G K G S D P I V A A A N I V T A L L Q Q S I V V S A R R N N L D P A K E
UniRef90_S7VRA8 A A V E R F V L D V K G K G V D P I L S A K L I D G L Q Q T I V S S R R E S D T P N E
UniRef90_G0UFV2 H A A F P H R S Q D V I V A A A A F V M Q V L Q Q T I V S S R R N N V D D P V H
UniRef90_UPI000472CD27 A S A S E F V T R I T G K G T D P V M T A V I Q M A Q S M Q Q T I I T R R N R A P L E E
UniRef90_A0A016XL66 A S T N E F K L V V T G K G V D P V V V A A S Q V L V Q A F Q Q S I V S S R R E V A D P L E E
UniRef90_B4FUS9 A G C G F F E A V I T G A G V D P V V A A S V V L S L Q Q S I V S S R R E A D P L E D
UniRef90_UPI00037FABC6 H A A F P H Q A N D M V V C G A E F V S Q L L Q Q T I V S S R R R T D P L V K E
UniRef90_V6Z0X0 A G T C T I E I T F K G K G N D A L V A A A Y F I V M S A V A Q Q S I V S S R R S L D P L E E
UniRef90_UPI00047E2CA7 A A T D R F T I E I P H K T I D S L V L A S Q I V T M S A V A Q Q S I V S S R R S L D P L E E
UniRef90_UPI000467F914 A A A D Q F D I I I E G K G I D T N L G A A H V L T A L L Q Q S I A S S R R N V D P L V K R
UniRef90_UPI00030DA61D A A A D D L E I I P H E A V D A I W I A A S Q V I T T T Q Q A I S S R R N Q N D P L R Q
UniRef90_W6T710 H A A F P H N A N D M V V A G S A L V Q Q L L Q Q T I V S S R R N V D P L I Q
UniRef90_A3JPF7 A A V D T F S I A M P H E C V D P I V A A V S I S T A L L Q Q T I V S S R R N H Y T L D D
UniRef90_UPI0003053BB4 A S S N T F E I T I R G K G A D P V M A A V I Q L L A Q A F L I I T R E T V D P L D D
UniRef90_D6XX07 A A A D R F E I K V P H T T R D A V L I G A K L T D A L L Q Q T H H I I S S R R T V D P M A
UniRef90_UPI00034B4836 A A A D S F E I N I Q G K G V D S I V V A S S Y V Q S V L Q Q S I V S S R R N I D P L K
UniRef90_A8U395 A A G D T F E I R I P Q G K S I D P V V V G S A V V L A L L Q Q S I V S S R R R L P A Q Q E
UniRef90_A6T3C9 A S F D T F E I T L Q G R S I D S L V C A S Q L V L A L L Q Q S I V S S R R R L P A Q Q E
UniRef90_M7NI58 A A G D F F H A A Y P H Q T V D P I M I A A Q T L V T M Q Q T I V S S R R Q T D P L D
UniRef90_G9PZY6 A S C D N F K T I T V P H L G R D A V V A A A S I V M N L Q Q T F V S S R R V N D P L N
UniRef90_Q12IG4 A S E D S F T I K V T G R G V D P I V A A A Q I T G V L Q Q T I V S S R R Q V D V T K
UniRef90_W0SHK2 A G A D R F E I E I P H Q A V D V V L A G S S L V Q A T Q Q S I V S S R R T V D P L A
UniRef90_UPI0003B69A46 A S A D R F T I K V I T G K G V D P V V T A A Q E I M G L L Q Q T I V S S R R N V D P L D D
UniRef90_UPI000465FFA5 A S S D R L R V T V P H L A N D P V P A A C E M V T A L L Q Q T F I S R R R V D P F D
UniRef90_A0A037Z459 A S A D L F S L K V K G K G I D A V L A S S A T V M N L Q Q T I V S S R R E L N D P L Q
UniRef90_UPI00046406F9 A S A D E F H A A V P H Q A I D L V L V G S Q V V Q A L N A L V T R E I D V F K
UniRef90_E8W487 A S S D A V E I V R G R G A D P V P A M C A M V T A L L Q Q T A V T R E I D V F D
UniRef90_H3ZQX7 A G V G R F E V E I E G K G I D P I P I A A Q V I L A F Q Q T I I S S R R N L N P L E
UniRef90_R4RWC3 A A V D Q F K V T F K G V G K D P L I A L A G T V S A L L Q Q T I V S S R R N E D P Q K
UniRef90_UPI000469C543 A A T D L K L E V E G E T I D T M V V T A H I I T A L L Q Q T I V S S R R N A D P I D
UniRef90_UPI00037EB945 A A V E T F D F T I V G K G I D S V L V G A Q I V N T L Q Q T I V S S R R N V D P I D
UniRef90_U2SK18 A S V D N F V I K V P H L G V D A L V A A A I V S N I Q T F V S S R R T N D P L S
UniRef90_Q1Q4B0 A S T D R L I T I P H K G V D P I V I A A E I V L A I Q T I V S S R K L N P L N S
UniRef90_R6H792 A N C D W F R L A M P H H K G V D A I V V G A A V I D A L L Q Q T I V S R D V D P F D
UniRef90_D0J8C1 H G A M P H V A V D P I V V A S H L V L A L L Q Q T I R S R R E I D P N D
UniRef90_UPI00031C54B0 A A P D G F W I N I K G K I D S I A I G A Q V V T N L Q Q Y I V S S R R N V D P L E
UniRef90_K0NZ78 H A V F P Q K A K D S V V A L A S L I L Q I Q Q T I I S S R S I D P L E
UniRef90_C8NH40 A S C D I E K I K I T G K G H D A L V T A S E T V V A L L Q Q T I V A R E I N D P G D
UniRef90_H1QT05 A A S D A V T V T L T G R G A D P V Q A V C E M V T A L L Q Q T M V T R T V D V F D
UniRef90_UPI00037DBCF9 A A A D G F R V E I E G K G S D P I V T A A H V I T A L L Q Q S I V S S R R D V S A L Q
UniRef90_UPI00037A9BE4 A A A D R I E L T V T G K G V D P V L V A A H I I T A L L Q Q S I V S S R R N V S P F D
UniRef90_R9CD16 H A A Y P H L T N D M V V A A C S L V S Q L L Q Q S I V S S R R N V D P L D D
UniRef90_M1Z065 H A A Y P H H T K D M I V A A S Q L V T A L L Q Q T I V S S R S M N T D D
UniRef90_UPI00035FCF34 A A V D S Y A I K I K G K S V D P I V T S A Q V L L G L L Q Q T I V S S R S M N T D D
UniRef90_UPI00037266B7 A N G D I F E I E I S G K G V D P L V V G G Q L L L N L Q Q Q I V S S R R Q V D P L D
UniRef90_X2GY55 A A A D D F E I K I Y G R G I D P L L I G S E M V V A L L Q Q T I V S S R K V P S I H
UniRef90_S0EUZ2 A S A D T F D I V I E G R G I D P V V V G A Q T L L A L L Q Q T I V S S R E I N P L E
UniRef90_UPI0003B695EC A S Y D V F E I V V E G K G R D P I T A A G Q V L L A L L Q Q T I V A R R N V D P L Q
UniRef90_B6A2A4 A S V D Q A V V K I P H R A V D P V L A S A S F I T A L L Q Q S I V S S R R N V D P Q D
UniRef90_I3ZS79 A G A G I F S A R I P H Q T V D P I P I S A E T I L L A L L Q Q S I V S S R R N V D P L E
UniRef90_M7P1P3 A A E N T I R S I T V T G K T D P I L A A A H I M T V L Q Q S I V S S R R N A D P L G
UniRef90_G9PZY5 A S C D M F T L T V P H L G R D A V V A A S A V I M A L L Q Q T I V S R R V N N P L N
UniRef90_UPI00037M5WZ8 H A A M P H H Q G V D T L V V S S F L V L A L L Q Q Q L I V A R R E V D P L C
UniRef90_UPI00037M5WZ8 A A V C F F E A K M P H L S A D P I L A A S F A I L A L L Q Q Q L I V A R R E V D P L H
UniRef90_V8A3W3 A S S D T V R I T L K G K S H D P V V A S A Q L V L A L L Q Q S I V S S R R N V D P F A
UniRef90_B6A0H5 A S I D A V T L T I R G K S I D P V V V G S S I V M A L L Q Q T I V S S R T V S P H S
UniRef90_UPI00035D64BB A A A D E F F I D I E G R G V D S V L V G A A L I M N L L Q Q T I V S S R S V D P L D
UniRef90_UPI00028887B0 A A A D G I Y L T M K G K G D A V L I A S Q F I V N L Q Q T I V S R R R V N P L Q
UniRef90_UPI00046827D2 H A A Y P H E A N D A V V A A N F I T Q V I I S S R R I D P T K
UniRef90_H3ZPD5 A S A D A F R V I I K G K I D P I A A S A V I M A L L Q Q T I V S R R V N N P L N
UniRef90_UPI00045EA2FF A S A D H I E I V V D G R G V D V V L T G A I V M A L L Q Q I V S R R N V D P L E
UniRef90_R9NDU7 A S S D L F K I T I K G H G V D P L N V M A H I H T A L L Q Q A R E L S R A G E
UniRef90_D4W8R5 A G C N R F R I V V K G T G V D P I N I A A H I Y I S L Q Q E I A R E L S T Q
UniRef90_I4BWH7 A A V D V F D I T V Q G K G V D A V V V A S N M V M A L L Q Q T V V S R E L S P L E

UniRef90_A3AVM8
UniRef90_B8IH01
UniRef90_H5SFN6
UniRef90_HOBV75
UniRef90_K9UQ96
UniRef90_F4AP11
UniRef90_T0PHS7
UniRef90_J4YLE7
UniRef90_J3HQB4
UniRef90_UPI0002DA8DBB
UniRef90_UPI00041E28B0
UniRef90_UPI000472043A
UniRef90_A9CF81
UniRef90_C2WBB5
UniRef90_K9W3C0
UniRef90_D3QG22
UniRef90_G8T754
UniRef90_Q5L145
UniRef90_B2AX1
UniRef90_C6WDZ5
UniRef90_A8LHV6
UniRef90_UPI0003609410
UniRef90_A6LVL4
UniRef90_G2J2G4
UniRef90_A0A037XVB6
UniRef90_T0BPQ9
UniRef90_B4STH8
UniRef90_F5Y4Y1
UniRef90_A0B1H5
UniRef90_S7VRA8
UniRef90_G0UFV2
UniRef90_UPI000472CD27
UniRef90_A0A016XL66
UniRef90_B4FUS9
UniRef90_UPI00037FABC6
UniRef90_V6Z0X0
UniRef90_UPI00047E2CA7
UniRef90_UPI000467F914
UniRef90_UPI00030DA61D
UniRef90_W6T710
UniRef90_A3JPF7
UniRef90_UPI0003053BB4
UniRef90_D6XX07
UniRef90_UPI00034B4836
UniRef90_A8U395
UniRef90_A6T3C9
UniRef90_M7NI58
UniRef90_G9PZY6
UniRef90_Q12IG4
UniRef90_W0SHK2
UniRef90_UPI0003B69A46
UniRef90_UPI000465FFA5
UniRef90_A0A037Z459
UniRef90_UPI00046406F9
UniRef90_E8W487
UniRef90_H3ZQX7
UniRef90_R4RWC3
UniRef90_UPI000469C543
UniRef90_UPI00037EB945
UniRef90_U2SK18
UniRef90_Q1Q4B0
UniRef90_R6H792
UniRef90_D0J8C1
UniRef90_UPI00031C54B0
UniRef90_K0NZ78
UniRef90_C8NH40
UniRef90_H1QT05
UniRef90_UPI00037DBCF9
UniRef90_UPI00037A9BE4
UniRef90_R9CD16
UniRef90_M1Z065
UniRef90_UPI00035FCF34
UniRef90_UPI00037266B7
UniRef90_X2GY55
UniRef90_S0EUZ2
UniRef90_UPI0003B695EC
UniRef90_B6A2A4
UniRef90_I3ZS79
UniRef90_M7P1P3
UniRef90_G9PZY5
UniRef90_A0A011NWG3
UniRef90_M5WZF8
UniRef90_V8A3W3
UniRef90_B6A0H5
UniRef90_UPI00035D64BB
UniRef90_UPI00028887B0
UniRef90_UPI00046827D2
UniRef90_H3ZPD5
UniRef90_UPI00045EA2FF
UniRef90_R9NDU7
UniRef90_D4W8R5
UniRef90_I4BWH7

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

	90	100
UniRef90_A3AVM8	A A V H R C K G V V Q I	K R D D Y P M Y P
UniRef90_B8IH01	A A A F G A E I T V E I	
UniRef90_H5SFN6	S Q A M G C Q A E I N L K R	
UniRef90_H0BV75	A Q S Y G V R A E V D F R G G Y	P V L V
UniRef90_K9UQ96	C T S H G A T Y Q L D Y T K	L Y P P
UniRef90_F4AP11	A A A S G A T A E V E I N E G S Y	P
UniRef90_T0PHS7	V K A F R G S C K I D I Q E S Y	P C L Y
UniRef90_J4YLE7	A A M F G A E C D F V F T R H Y	P
UniRef90_J3HQB4	V D G Y G A R A E I D Y L R G Y	P V L V
UniRef90_UPI0002DA8DBB	C H S H G A T Y D L D Y W R L Y	P P V V
UniRef90_UPI00041E28B0	A T A F G C I A R V S F I	R V Y P P
UniRef90_UPI000472043A	P A A Y G A E S K L D Y L M G Y	P P L V
UniRef90_A9CF81	A A A H G L T A E V D I R	
UniRef90_C2WBB5	E A A F Q C A A V I D Y G A M Y	H Q V Y
UniRef90_K9W3C0	C H T Y G A T C E V K Y E R G	
UniRef90_D3QG22	A L A N D I T Y D L E Y I K G Y	L P
UniRef90_G8T754	A E A M G A S C E V H I	
UniRef90_Q5L145	E V A Y E C E A S I D Y G A M Y	H E V Y
UniRef90_B2A2X1	T Q A H G L D Y K F K Y T Y M Y	P
UniRef90_C6WDZ5	A A A H G C A A E V E I T P G Y	P V I T V
UniRef90_A8LHV6	A A S F D V M A E L D Y E K G Y	P P T V
UniRef90_UPI0003609410	C A A H G A H C T V E Y T H E F A	P L V
UniRef90_A6LVL4	A E T F N A K A E V I Y T R G	
UniRef90_G2J2G4	A E G F G A K A E V D Y R R G Y	P V L V
UniRef90_A0A037XVB6	A L A N G A E A E V V Y E R	
UniRef90_T0BPQ9	A R M F D C T Y A L D Y G A N Y Y	Q
UniRef90_B4STH8	A A A F G A R A E I E F P R G F	P
UniRef90_F5Y4Y1	A Q A H R A S A E V I I K P G Y	P A T V
UniRef90_A0B1H5	A R A Y G T V A Q V D Y Q A I S R	V V V
UniRef90_S7VRA8	A K A Y G G E A S I T F	
UniRef90_G0UFV2	A T V Y G V E F D L Q L E Q G G Y	W P V
UniRef90_UPI000472CD27	A A A M N C E V I E F E F V R N Y	P P
UniRef90_A0A016XL66	C A A Y G A S C D F E F V R N Y	P
UniRef90_B4FUS9	S A V H R C A A S V D F G A G S	P L L P P
UniRef90_UPI00037FABC6	A Q S F A C Q V D I D L H Q G G Y	F P V
UniRef90_V6Z0X0	A A S F G M T V D I K L Q P S G Y	L P V
UniRef90_UPI00047E2CA7	A K I Y G A A I R L D F Q K G Y	P A V V
UniRef90_UPI000467F914	A A A H H C T A E I D Y E R G Y	P V I T V
UniRef90_UPI00030DA61D	C N S Y G A K Y E V N Y R Q G V	P
UniRef90_W6T710	A L A Y D C N I D L D L H Q G G Y	P V
UniRef90_A3JPF7	A A S Y G V I T A E L D L E V G Y	P
UniRef90_UPI0003053BB4	C Q A L N C S V I Q F D F H R R Y	P P
UniRef90_D6XX07	A E T Y G A S A T F E Y I P G Y	P
UniRef90_UPI00034B4836	C D A A G A S Y S F D Y R K G Y	P
UniRef90_A8U395	C A T Y G A T S E I D Y R Q	
UniRef90_A6T3C9	A Q S N G A S A T V S Y R Y A Y	P
UniRef90_M7NI58	A G G L G G S V I T L T Y H Y G	
UniRef90_G9PZY6	A E A L G C E A E L Q Y D R	
UniRef90_Q12IG4	A K T L G A T A T T I E E G Y	P V I T V
UniRef90_W0SHK2	E A T Y R V I S I D L R Y E R G Y	P P T V
UniRef90_UPI0003B69A46	A E S A G A T V E V G F E A Y V	P V I T Y P P
UniRef90_UPI000465FFA5	A A A H G L D V E V D Y A E Q Y	P L T V
UniRef90_A0A037Z459	A A T F R A E A E L Q Y S Y	
UniRef90_UPI00046406F9	A A S H G A V A H I D Y A R G Y	P P T V
UniRef90_E8W487	A A A H G V T A D I D Y V E Q Y	P P T V
UniRef90_H3ZQX7	T L A N N A S Y G L K I E E V G	P P
UniRef90_R4RWC3	A A S F G V D V E I E W I E G	
UniRef90_UPI000469C543	A A T F G A K A T V D Y T R N Y	P
UniRef90_UPI00037EB945	C Q A H G A T Y E F N Y D V	L Y P P
UniRef90_U2SK18	A K A F G A T A T V E Y D Y Y A N	S L Y
UniRef90_Q1Q4B0	T S Y N N A S Y E F E Y L G G Y	P V L Y
UniRef90_R6H792	A L S Y G A T A K F E W T Y G	
UniRef90_D0J8C1	A A V H R A T A E V D Y K W R Y	P P
UniRef90_UPI00031C54B0	T A A H G A D Y E F K Y E C G Y	D P
UniRef90_K0NZ78	A L S Y G V K V I T P E F N Q G G Y	W P V
UniRef90_C8NH40	A E I N R C E F E I D W	
UniRef90_H1QT05	A A A H G V Q A E V D Y E D L Y	P P T V
UniRef90_UPI00037DBCF9	T T A F G T S G G V R W I E G	P P P V
UniRef90_UPI00037A9BE4	A M G L G A S A T L D Y Q R I Y	P A T V
UniRef90_R9CD16	E I G Y D C E C T I D F G S G Y	Q V Y
UniRef90_M1Z065	E V A F E C K G E I D F G S S Y	
UniRef90_UPI00035FCF34	A E S A G A K A E V K I D I M Y	P V I T Y
UniRef90_UPI00037266B7	C G G L G A S V D Y K Y T R G Y	P A V V
UniRef90_X2GY55	A S M H G A R V D I K W E L G	
UniRef90_S0EUZ2	C S A L R A K Y R E T Y D F G	
UniRef90_UPI0003B695EC	A N A F D C Q A R V S Y Q R R Y	P
UniRef90_B6A2A4	A E S F G A A A E V N Y R L G F	P A L V
UniRef90_I3ZS79	A M A H G A S Y E L S I E E	L V P P
UniRef90_M7P1P3	A K A L G C T A E A D V E Y G Y	
UniRef90_G9PZY5	A A G Y G C T A E L D Y K Y	
UniRef90_A0A011NWX3	A S A F G A Q I S V R F D H R Y	P A T V
UniRef90_M5WZF8	A V V H R C N A Y V D M K D E E F	P P L P
UniRef90_V8A3W3	A A A N D C A A M V E H L N G S	P V L V
UniRef90_B6A0H5	A E S F R A T A E F E W I V G Y	P
UniRef90_UPI00035D64BB	C A M Y G A D V H L N Y L M G Y	P T L V
UniRef90_UPI00028887B0	C A F M D A D Y D Y Q F L R G Y	P A V V
UniRef90_UPI00046827D2	E L S F N D K I D L E F N Q G G Y	P V
UniRef90_H3ZPD5	S K G M R T E G K F E L T M E Y	L P P
UniRef90_UPI00045EA2FF	A A A Y G A T A T V S F K E G Y	P
UniRef90_R9NDU7	A E V F R A E A I I E F S D N Y	T L P
UniRef90_D4W8R5	A K M F R G E A E L	
UniRef90_I4BWH7	A A G F R A E A K V N Y T	

UniRef90_E6X1F5 1 S V D T W E V K I P H R A V N P I L V A A H L V Q G I K E I S A T S I V D P A K
UniRef90_H1S7B6 A A G D R V Y I K I P H L A H D P I V A A S S L V M G L L Q Q T I V V S R R N N V I D D P P R K
UniRef90_Q7CSF2 A S V D K A S V R I P H E T V D S P V L V A G S A S F I M T A Q L L Q Q T I V V S R R N N V I D D P P R
UniRef90_UPI0003F84FF7 A A A D D F Y L E I K G K G V D S P I V L A G S A S F I M T A Q L L Q Q T I V V S R R N N V I D D P P R
UniRef90_UPI0003AB23E7 A S A D E L Y F T I K G K G V D P I L T J A A H V V V A L L Q Q T I V V S R R N N V I D D P P R
UniRef90_C2CYN7 A G C Y R F L V I H G K G K G D P I V I T A Q A A I I S Q L L Q Q T I V V S R R N N V I D D P P R
UniRef90_UPI00038028D6 A S A D D L H I D V Q G R G V D P I V I T A Q A A I I S Q L L Q Q T I V V S R R N N V I D D P P R
UniRef90_F7SMT6 A S S D D F E V T M P H L T T D P I V I A A S L F T T A I Q Q T I V V S R R N N V I D D P P R
UniRef90_UPI000403AC80 A G A D F F D I T Q G R S K D A V I V A A T T Q L T Q A A L Q Q T I V V S R R N N V I D D P P R
UniRef90_L8D737 A S A D S F E I T L T G R G V D P I V I A A A Q Q V V M A L T Q Q T I V V S R R N N V I D D P P R
UniRef90_F5ZKB3 A S S D D F E H A A F P H H S N D A L I V A A A Y F L T Q L V Q Q T I V V S R R N N V I D D P P R
UniRef90_Q13J80 A S F D T F H A A M P E E G I D A L V C A S H I V L T G L L Q Q T I V V S R R N N V I D D P P R
UniRef90_UPI00011PG89 A G T C A F E I T V T G K G V D T L V V A S S Q L V L A L L Q Q T I V V S R R N N V I D D P P R
UniRef90_K2AES3 A A A D Q F E I T V T G K G V I D T T V V A A A H I I V A M Q Q T I V V S R R N N V I D D P P R
UniRef90_W7CU05 A S A D V V E I K F T G R G I D A T V V A A A F V M G A Q Q S I V V S R R N N V I D D P P R
UniRef90_UPI0002EC89D1 A S V D R F E I D V I G V G I D S I V T A S I V T S A L L Q Q T I V V S R R N N V I D D P P R
UniRef90_UPI00047A7679 A S S D W F T L K V K G R G I D P I L T T A A Q I I E G L V L Q Q H I V V S R R N N V I D D P P R
UniRef90_I4BY00 A S S D I L W E A E I K G K G K D P P T I A A A N I I M S A L L Q Q S I V V S R R N N V I D D P P R
UniRef90_X6FP57 A S V D Q A V I R V P H N T V D P I V L A A A H I V A L L Q Q S I V V S R R N N V I D D P P R
UniRef90_C7LFP2 A R P D V F S I T L P H Q C I D P I V L A G S H L V A A L L Q Q G I V V S R R N N V I D D P P R
UniRef90_X4Z2G7 A S S N R W F I V I K G L G V D P I V I T A S E M V Q A T V Q Q I V Q T R E I N A L L T
UniRef90_A6TM12 A H D N F K I V I K G K G V D P I V I T A A N I I Q A T V Q Q I V Q T R E I N A L L T
UniRef90_H3SPP7 A A V D D F F L T V P H L C T D A V V I G A Q L V Q Q W Q T I V S R R N N V I S P A L L T Q
UniRef90_U1XC42 A A V D E A F L R V N G K T A D P I T A G A S H I V T A L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_W4QQZ3 A S A D F H A A Y P H T A N D M V V A S S I V T A Q L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_UPI0003FCDA8F A G A D V F R K V K G K G V D P I V V S S Q I I Y G L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_UPI00037EF9B0 A S A D F H A A M P H E C V D P I P V I A C A H I V T A L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_G4RAA9 A G T D Q F H A A M P H L A V D P I V I V S A H I I S G L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_W6W319 A A G D R F H A A Y P H L T H D P L L A G A A H M V T A L L Q Q S I V S R R N N V I S P A L L T Q
UniRef90_UPI000329C62F A S A D T V K I T I T G R T I D P I V V A G A A L V M G A L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_R8VTG4 A G K C H F T I T L P H K C T D V I V T G A A I V N A V L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_W7ZVW1 A A V D K F R L H I Q G K G L D S I V V I G S Q L V N E L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_V6J051 D F F H A A Y P H L T H D P I V I A A H F V V I G L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_G0TRC0 D N F D I V I K G T C V D P I V I A A E V V T A L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_G6YAY6 A A V D D F E I A M P H L G D D P L L A A A S F V T A I L Q Q R I V S R R N N V I S P A L L T Q
UniRef90_C6X527 A A V D N W E I E V T G K G I D P I V C G S A L V M A L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_UPI00031WEQ0 A A V D T K I E I N G R T I D P I V V A S S A I I M G I L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_U6BAA1 A A A D K F E L T L P H E T I D A V L L G A T I V K E L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_UPI0004744F96 A N A D Q F T I R V I K G K G K D A V L L A S M I V M S L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_W0LBR9 A S S D N V T I T V H G K G V D A V V V G S S I V M A L L Q Q T I V S R R N N V I S P A L L T Q
UniRef90_I8AIW0 A A A D K F D I E I Q G K G K D A V V I G S Q L V V N L L Q Q Q I V S R R A V N G A P L L D S
UniRef90_G8TL12 A S A D E Y I I T K G K G V D T V L V A S H I V V A L L Q Q S I V S R R N T D P L L S E
UniRef90_L7ZMI9 A S T D Q F V V T V P H L T V D P V L V A S H I V V A L L Q Q S I V S R R N T D P L L S E
UniRef90_UPI00046A5B1A A S S D W F T I Q V N G K S V D P I V T A S Q I V L G L L Q Q T I V S R R N V I N T E N
UniRef90_G9PYP3 A S F D R F A V T V K G G I D P I T I A A N I I S L L Q Q S I V S A R E S F A G T K D
UniRef90_X1XM61 A N A D K F V V R V P E Q Q G V D A I L V S S Q I I Q A L L Q Q S E L T S R S F N T
UniRef90_E8KD74 A S S D F F R I V V H G R G V D P V V A A A A L V N G L L Q Q S V V S R S V N P L I E
UniRef90_W0RFH7 A G R T Y F K L V I K G K G N D S P V V A G A Y F I T A L L Q Q T I V V S R R L N P F E
UniRef90_M7P7U8 S Y D I F E V T V H G K G S D P M T A A G H L L T T L L Q Q T I P G R S R L H P L D D
UniRef90_G8B0K2 A G A D R F E L T I Q G K G D A V I V I G S Q L I S Q L L Q Q T I V S R R L N P F E
UniRef90_A0A024QFG7 A A G S R F R I K I T G K G A D P I P L A C S M V L Q C Q Q T I A A R H K D P V D
UniRef90_G0A891 A S A D E F T V T V R G R G R D P V V T L A H V V A L L Q Q S I V S R G I D P M S
UniRef90_UPI00037B8396 A T P D A F K I I V H G K G I D P I F L S L Q I A N A I Y G I T A R Q L D P V V Q
UniRef90_P80092 A S T D H V D L E I P H K A I D P V L A G S Q L I V A L L Q Q T I V S R R A A D P L L D
UniRef90_D6V5A2 A S S D R L K M S I L G K G V D A V V T S Q V I S A L L Q Q T I V S R R N V S P L L D
UniRef90_G7V8K2 A S S D R F K I T I K G N S K D P T L A A C H L I L A L L Q Q T I V S R R N T D P Q Q
UniRef90_V1XB56 A G L D E F D I T V R G R G I D P I V I G S Q L I L G L L Q Q T I V S R R N T D P Q Q
UniRef90_UPI0002E99EDE A S S D M F D I N V P H K S V D P I V I A S A N I I N M I L L Q Q V L V S R E T D P L L E
UniRef90_Q8H3C8 A N V D R F T I R V H H K G I D A V I V I A S H I I T A L L Q Q T I P A R V F S A L L D
UniRef90_I3VYH6 A S S D R F E I T V K G R G V D P I V A A A D I V T S V Q Q T I V S R R V N V T K
UniRef90_D4GN02 A G A T F F D I T P H H A R D P I V T A T A L V Q N L L Q Q T I V S R R N V Q L T Q
UniRef90_K2K919 A S S D V F S I K V K G K A I D P V V T A A Q I I L G L L Q Q T I V S R R Q A E P T E
UniRef90_UPI00035DC302 A S A D L L K V K F K G R G V D A A V V A S A F V M N V Q Q A I V S R R E T S P L L Q
UniRef90_U2LQC1 A S F D I F E I T M P H L G A D P I A A A G A G A L I T N I V S R R R I V S P L L Q
UniRef90_UPI0004769BA8 A A A D R V T I E I A K G G V D P V L V A A H I I T A V Q Q S I V S R R N V K A M D
UniRef90_Q12F17 A S S D D Y V I T V R G R G V D P I V A G S A I V L A L L Q Q S V V A R R N V P T R
UniRef90_I3TVY4 A A A D T F R I T M P H H M G R D P I V A A C H L V T A L L Q Q S I V S R R V D P L L D
UniRef90_UPI00040756DA A A A D R F E L T I P H H T I D S L M V G V N V A S Q L L Q Q T I V S R R V D P L L D
UniRef90_W7SUS3 A A A D V F R V R V P H K A L D P V P A A A A M V G A L L Q Q T M I T H R V V A T T E
UniRef90_UPI00047C9964 A N V D A V E I T I K G K A K D P I V L A S Q T V L A L L Q Q E I V S R E I S P L L Q
UniRef90_D9SV35 A G S D W F K V T I K G T G V D P L N V M V H V Y L G L L Q Q E I V S R E I S D N P L L D
UniRef90_B1CAY4 A A S T E F T V F I P H N G M D C I V I A A Q Y I N G I Q Q S I V S R R N L N P I R
UniRef90_M7N518 A A A D I M R L T V K G N G T D P I V V I A Q I I N G L Q Q T I V S R R N T E P K E
UniRef90_UPI00047E58B3 A S S D F H G A M P H K G I D S I V I A S E M I I G M Q Q S I V S R R N I N P I Q
UniRef90_A4CKZ5 A A A Q E F T I R V K G K G V D P I L I S A K T I D G L Q Q T I V S R R E A N T N E
UniRef90_UPI00037B96D6 A S A D A F E I T I K G K G K D S I V L A A S Q L V D N L L Q Q S I V S R R R V D P L L D
UniRef90_W81W41 A S V D Q C N I T I V G K G V D P V L A T A S L I T A L L Q Q S V V S R R N V D P Q E
UniRef90_C4LIA1 A A C D S I T V T I P H Q S V D P I Y V A A H V I L R L L Q Q G I V G R R E V D P G E
UniRef90_X2GJV0 A A A D K A E I L I Q G K G I D A V V L A S Q F V I N A L L Q Q L V A R R R I D P L L K
UniRef90_W3AC42 A A A D S F E I K I Q G R G K D A V V I A S Q L V T N A L L Q Q Q L L V A R R R V D P L L K
UniRef90_Q7NHJ5 A A A D S L V I E V P H E A V D A I W V A A N V V T A L L Q Q G I S R M H N P L L R
UniRef90_K9VNH6 A A A D D L E L I V P H E A I D A I W I A S Q L I T T L L Q Q Q A I S R T Q N P L L R
UniRef90_UPI00021919A8 A S S D D F H A A Y P H E A D A V V A G A M F V N Q V L Q Q T I V S R R N V D P V H
UniRef90_H3KFV1 A S G D R F T I K V T G K C A D A T V I G A A I V Q N L Q Q T I V S R R E I S P L L E
UniRef90_W8X254 A C D W F R I R I P H Q G V D P I V A G A A L V Q A L L Q Q G V V S R R G V D P L L D
UniRef90_N1UR19 S S D G L V V T V H G A G K D P V V I A A E M V M A L L Q Q S M V T R Q G V D V F D
UniRef90_A3XIN5 A A V E R F V V N L K G K G V D P I Y I A S K I V D G F Q Q S I I S R R S N L V E
UniRef90_M4BGC4 A S S D D F P Q Q C V D P I L A G S A V V Q A L L Q Q S V V S R S L S P M D
UniRef90_W0BSL9 A A S I R F E I T V R G K G I D P I P V I A C A F I V S Q L L Q Q S Q V S R C T D P L L D
UniRef90_U2RB65 A A V D R F E V K I N G N G N D P I V T A S Q L V M S I Q S I V S R Y V I S P A D

UniRef90_E6X1F5 A H V V T V A N V I P D T C R I G G S 60 R A F D D P E V Q V E Q R I R E L A S S 80
UniRef90_H1S7B6 A A V I T T V G N V I P G Q V E L S Q L S V R R A S F D D P A V Q R L K E E R R I V A L V N A M Q
UniRef90_Q7CSF2 M A V L T T I G T M I A E S V E L S Q L S V R R A S F D D P A V Q R L K E E R R I V A L V N A M Q
UniRef90_UPI0003F84FF7 P A V L T T I G T M I A E S V E L S Q L S V R R A S F D D P A V Q R L K E E R R I V A L V N A M Q
UniRef90_UPI0003AB23E7 P T V L S I T N V I P D E V K L K G T F R R A F M S D E E N W T F E A H I R S F S E A G V
UniRef90_C2CYN7 A V V S T I T N V I L G V A T L E G G T V L R T A F F D D E D E N T V K K R R F Y S T V N Q L
UniRef90_UPI00038028D6 P A V V T S I G N V I P D K V E M Q G T V L R T A F F D D E G M R A K Q R R I N T A Q K L
UniRef90_F7SMT6 I A V I S L G T N I I P A T A R L T G T A R A F C K P E L R R I K E R R R I T D T V A E G I
UniRef90_UPI000403AC80 S A V L S V T Q I I P G D A R L L G G T V R R A F D D Q G V M R I K E R R R M S F T A C A G T
UniRef90_L8D737 S S V I S Y G N I I P D D V K M I G T V I R R A F D D Q G M R I K E R R R M S F T A C A G T
UniRef90_F5ZKB3 G A V V T F G S M H A E R A D L H G T I R R S F D D Q G M S I Q K R I L S Q T E I A E S G V
UniRef90_Q13J80 A A V I S V T Q I I H P D D R V L R G T V R R S F D D Q G M S I Q K R I L S Q T E I A E S G V
UniRef90_A0A011PG89 S A V V S V T Q I I P D D D A V L R G T V I R R S F D D Q G M S I Q K R I L S Q T E I A E S G V
UniRef90_K2AES3 Q V V S V Y G N V I P Q V V K M K G T A R R S F M D F G V Q V E R A L V K E R L A E S G T
UniRef90_W7CU05 P A V E T I G R M I A E H A I L E G T V V R T F H P R V R M E R R Y T A E Q Q G V
UniRef90_UPI0002EC89D1 N A V V S I G N I I H P D D K V K L E G T V V R T F Q D D A R I P E A F M Q R R T V E G V
UniRef90_UPI00047A7679 P V V S V I G N I I P E T C E M I G T V I R T L D S K M Q V H E R I I K R N T A K R A G I
UniRef90_I4BY00 T A V L S I G N V I P D D K A F L Q G S V R T T T N S P K V R L P E R K I I P A L A R A S G L
UniRef90_X6FP57 M A V V T V G N V I P D S V E L K L G T V R T Y R P D L R L Q Q A E M Q R R I A T T S V
UniRef90_C7LPF2 R A V L S V T R F I P D T A F L Q G T V V R T L N E S T L V E Q A E M Q R R I A T T S V
UniRef90_X4Z2G7 P A V L S V T G N V I P G E S V L E R G T V R T Y T L G E E Q P E A R L A D M R R I A T T S V
UniRef90_A6TM12 P T V L M F G N V I P E S V T L E G T V I R Y L D G E E Q P E A R L A D M R R I A T T S V
UniRef90_H3SPP7 P A V V S V G N V I A D R A V L K G T I R S F D D P A A R L I R V R F E T I L Q H T
UniRef90_U1XC42 P A V V T V A N I I P E S T A E I V G I R T R S P P A R D Q I E Q R I I K R V L A V H G Q
UniRef90_W4QQZ3 A G V I T V G N I I A E T A T L E G T V I R T R S I E T K I K E R I I E A L A T A T N G I
UniRef90_UPI0003FCDA8F A A V I T V G M I I P E E V Q M E G T I R R T L D S K E M Q I H D K I E A L A T A T N G I
UniRef90_UPI00037EF9B0 S A V L S V T Q I I P R S E T A R L M G T L R T L S D E P A T R M R A A F R Q I C A S V L
UniRef90_G4RAA9 S A V L S V T N V I P R T A R L T G T V R R T L D S D E D V R M E A G I K H L A P S Q L
UniRef90_W6W319 P V V S V T Y V I P A S T Q L G G T V I R R A L N P E T R V E Q R F R D I L A V N S T
UniRef90_UPI000329C62F T A V V S V G T F L P S V E M E L S V R A S H S P A E I R L T Q R R I H E L A D A C G L
UniRef90_R8VTG4 S L V C S L S I H P D V L T M T G S V R A S H S P A E I R L T Q R R I H E L A D A C G L
UniRef90_W7ZVWV1 P A V V T V A S F I A D T A T I E G T V R T F D A G V R V E D E L R A L V K G K
UniRef90_V6J051 S A V L S I G N V I A E T H A R V E G T I R R T L N Q E T M I K D D I V E E Q V S K A G I
UniRef90_G0TRC0 A P V L S V T N V I P E N T H A R V M R G T I R C L H N Q E V R V P G L V E E I V S S G I
UniRef90_G6YAY6 P A V L S V T Q I I H P G E V K V E G T C R R F Y D R A D H C A A E I E R T V A Q A C
UniRef90_C6X527 S S V I S V G N V I P S E K A I L K L G T R R S F M D P N E D R V L D K V L T C K A Q
UniRef90_A0A031WEQ0 S A V I S I G N V I S E K V D M T G T C R R S F S F S V R I S E N L E K I T C E A Q
UniRef90_U6BAA1 P A V V S V G N V I A D Q A T L T G T V R T F D E A T E I I T E R M E R T I I K G T
UniRef90_UPI0004744F96 T A V V S C G N V I A E T A E I T G T V V R A L N S K P I V Q V L Q E R I H I A K T A T Q
UniRef90_W0LBR9 S G V I T V G S F I A D S A V L K L S V R A L N S K P I V I R L E E R I K A V I V S T Q T
UniRef90_I8AIW0 A A V V T V G N V I A D K A K L T G T V R R A F K E E V R L E E R I E I Q L A T S E T L
UniRef90_G8TL12 P S V G H T V G N V I P S D S A E M R L S F R A L N G E E W R A H E L I R K L A T A T L
UniRef90_L7ZM19 A A V I T V G N V I P D S S A E M R L S F R A L N G E E W R L L T R I P A L I T A Q E Q
UniRef90_UPI00046A5B1A A A V V S V G Q I I P E S S L T L S G T I R A R L D S E Q T Q I H G R I L K T E I A T N I
UniRef90_G9PYP3 P S V L S I G M I I P S V R L E G T V R A R L E E P V R L A K R I L E E I S Q N I
UniRef90_X1XM61 S L V L S V T R I D P R E A E F G G T V R T H D K Q V R L E A Q R A R Q I V E H I
UniRef90_E8KD74 G A V V T F G N V I A E T A F L H G T I R S L T D Q E M L V Q K R R V T T L A E A V
UniRef90_W0RFH7 P A V V T V G N V I P D S A V E M I G T V V R F D P G M R I G K R L E R T A K K I
UniRef90_M7P7U8 M G V V T I G S F I K D S A V L E G D V R Y M N E D T Q I S E E I H R T T R G L
UniRef90_G8B0K2 S A V V S T T N V I P A E V T L R G T V R A F K E G V Q V E A R L R A L A E H T
UniRef90_A0A024QFG7 T V V V T V G F I P A D K A R L V G T V R Y L N S P Q D K I T S E M E A M I K G V
UniRef90_G0A891 P V L S V C M F I P D R A E L R G T V R Y T L S S T L Q L Q R E D I Q R M C E G L
UniRef90_UPI00037B8396 S V V L S V T N V V P G S A E A S G T L R A M R S T A D R L H E R L V E T A E G L V
UniRef90_P80092 P F I I S I T N I I P Q D D A E M Q G T V R S L D E N V R A K D Y M R R I V S S I
UniRef90_D6V5A2 A A V I S V C Q F I P Q T A T L G T V R T L T P Q M R V E K R V R E I A A S G I
UniRef90_G7V8K2 S A V I T F G N I V A D R V D L D G T V R T F N P D T R V A E K I S Q L A E G V
UniRef90_V1XB56 A V V I S V G N I I P Q Q V E I L S V R T L S N K P E V R K K K I G E T V E H C
UniRef90_UPI0002E99EDE A L V I S V T N I I P Q H A V I C G L V R T L S P A L R A E K G I L E A A Q G I
UniRef90_Q8H3C8 A A V V S I T N V I P E S A S L G G T F R S M T D E A Y L M K R I R E I T E A Q
UniRef90_I3VYH6 P L V I T I G N V I A S K V R M S G L T V R M L N E E N R I A S R V E D I A K N T
UniRef90_D4GN02 T V V L S V T R F T P Q Q V E L E G T V R T H N A A I R I F E Q L K L T A G K V
UniRef90_K2K919 P A V V S F G N I I P D Q Q V T L G T I R R N F D M A I R I F E Q L K L T A G K V
UniRef90_I5C6R3 P A V L S V T Q I I H P D K A V I S G T I R Y F S D E V R D L H R R T V A K G L
UniRef90_UPI00035DC302 D A V V V R H N I I P E Q Q V E L T G T I R Y C L N K M Q M V W A V I R R T A T G L
UniRef90_U2LQC1 S A V V T I G K M I A E N A V L D G T V R C F N V E E R I K A A I R E R Y A E H T
UniRef90_UPI0004769BA8 S G V V S V T Q M L P D Y A I L K G T V R S F D M A I R Q M Q M L T E M V K T S V
UniRef90_Q12F17 S A V I S V C A M H A G S A T L V G T V R T F R P D V Q V E R R L Q D L C A T S V
UniRef90_I3TVY4 Q A V V T V G N V I P E T A V L K A S V R T T D P E T R I E M R I R E L V A S G Q
UniRef90_A0A011UA83 R A V V S V G R I I P H S A E I S G T V R T F S A Q T V Q V E K R L P E I A C P I
UniRef90_UPI00040756DA P A V L T I G T F I A D E A R L S G T V R T F D T Q T R I A S I E M D M E R I I A S T
UniRef90_W7SUS3 P A V L T V T N I I P E E L A E L E G T I R T F S E T T R V H T E A K R I C A E S T
UniRef90_UPI00047C9964 N A V V T V G N I I P E E V K L Q L T L R T S Y S D E V R T A S I L K R I C A E G M
UniRef90_D9SV35 P T V L T V G N I I P D K A E L R G S T L R T F S K N N R I J K R I R E V A E S T
UniRef90_B1CAY4 E G L V T I G N I I A E E H V E M E G T I R T L D K E T Y I D K R M H T L A E G L
UniRef90_M7N518 A A V V T V G N I I P E E V Q M E G T V R S F H Q E V Y I K A R M V D F A S G L
UniRef90_UPI00047E58B3 P A V M T I G N V I A K E A I L E G T I R S F H Q E V Y I K A R M V D F A S G L
UniRef90_A4CKZ5 A A V I T V G N I I P E S A E M I G T I R T L D Y D M Q I N R R M E E M I T G E I
UniRef90_UPI00037B96D6 S A V L S V C S F I A N S A K L T G T V R L N E E T R M E D E R I K R I L E G T
UniRef90_W814W1 M A V V T V G N V I P E S V A L K L G T V R A F N E A T R L M E D E R V P A L A C A Q
UniRef90_C4LIA1 F A V V S V G Q I I P D T A T L T L N C R F Y N T N V R V Y R A I E R V I R A E T
UniRef90_X2GJV0 S A V L S V T H F I A E R V A L T G T V R T F F E E Q V R M E Q E A V L K A T
UniRef90_W3AC42 S A V L S V T N I I A D Q A L L G G T V R T F T E A N R M E K E M A R V I E G T
UniRef90_Q7NHJ5 P V V L S I G Q M I C D H V V L K G T V R S L D P Q T R L P T W I E Q I V A S Q T
UniRef90_K9VNH6 P L V L T I G N V I A D R V K L L G T V R S L H P Q T R L P A W I E Q I V S S V
UniRef90_UPI00021919A8 G G V L I V G N V I A E T A H L D G T V R A F H Q Q D M M Q R V R D I V A G V
UniRef90_H3KfV1 T G V V T V G K F I S G E A T L I G T I R C F S P E V R F P E A M E R V A K E T
UniRef90_W8X254 A A V L S I C Q F I P D T A W L E G T V R T L S R D A Q R V L D G L R M C D G A I
UniRef90_N1UR19 P V V I S V G M V I P D G T A R F E A T I R S F S A D A R L K A S I L P R R L G A I
UniRef90_A3XIN5 P A V I T V G N I I P E S A E L I G T V R T L D P D M R I I K R M T E M S E G L
UniRef90_M4BGC4 T V V L S V T Q F I P S R A Y L A G T V R D F T D E E K I K D R V A K L V H S T
UniRef90_W0BSL9 S V V L T I G D I I P D E A R I F G T C R S F T D K S Q L L D G V E R A H H T
UniRef90_U2RB65 M A I I S V T R I I P E S V V M E G T M R T F S V Q E R I K K L F A Q V V K N Y

90 100

UniRef90_E6X1F5 A A G F G A E A E V D Y E Y R Y P P

UniRef90_H1S7B6 A K S F E V D A I I D Y V E G Y P P

UniRef90_Q7CSF2 A E S F G A T A D V L S Y S R G F P P

UniRef90_UPI0003F84FF7 G A I Y G A E T Q L N Y I I G Y P P V V

UniRef90_UPI0003AB23E7 V K G M G G E L D L H I D I G Y P S V Y

UniRef90_C2CYN7 A D A Y E Q T A D I D W S V G A Y P

UniRef90_UPI00038028D6 A E S S G A K A E V R F G P V I S Y P

UniRef90_F7SMT6 S K T T G C D V T L D Y V P

UniRef90_UPI000403AC80 A A T Y Q C E L T A D I R D T F S V L V

UniRef90_L8D737 A K A G G A H A H V K I N H G Y P

UniRef90_F5ZKB3 A A S F N L E V Q I E L K Q G G Y L P V

UniRef90_Q13J80 A R A H G A I A A L S Y H Y G Y P

UniRef90_A0A011PG89 A S A F G A Q I S V R F D H R Y P T V

UniRef90_K2AES3 A L J A L G A K A E V V Y T R G Y P

UniRef90_W7CU05 A A T Y G A T A E V H Y R Y G T H

UniRef90_UPI0002EC89D1 A A G Y G A K A E F R W Y P Y L P

UniRef90_UPI00047A7679 A A S C G A T A E V T I E

UniRef90_I4BY00 G S A L R C E V E T N Y I H V Y P V T V

UniRef90_X6FP57 A E S F G A T A E V H Y R L G F P

UniRef90_C7LPF2 A A S M N V R A E L D Y Q R G Y P V V V

UniRef90_X4Z2G7 P Q V Y G G S G E L D F V R A Y P P L V

UniRef90_A6TMI2 C E G H R A E Y E L E V R P

UniRef90_H3SPP7 C A M H G A E Y E L E Y R V G Y P A L V

UniRef90_U1XC42 A E S F G L T A E V E Y L R S Y

UniRef90_W4QQZ3 E V G F D C S I S I D Y G A N Y C Q V Y

UniRef90_UPI0003FCDA8F A E S A G A T A E V E I E E

UniRef90_UPI00037EF9B0 A A A H D C T A E V N L D E G Y P

UniRef90_G4RAA9 A R A F G A S A T V K W M R G Y P V T V

UniRef90_W6W319 A K L F E A E A E I E W R A G Y P V T V

UniRef90_UPI000329C62F V K S Y G A T S Q V E V Y D S Y P

UniRef90_R8VTG4 A A A Y G C T A E V E F H P G V P A T V

UniRef90_W7ZVW1 E Q S T H V T T D V D Y L N G Y P T L V

UniRef90_V6J051 E I A Y Q C K G Q I D Y G A N Y Q V F

UniRef90_G0TRC0 A S A H G A Q C E V S W L E S T Y A T V

UniRef90_G6YAY6 A A M H G A S A A L T Y K R G Y P P V V

UniRef90_C6X527 A E A F S C K V E I R E G V P

UniRef90_A0A031WEQ0 A R G Y Q A T A K L D Y L F D

UniRef90_U6BAA1 C E A V I G A T Y H F T Y E K G Y P

UniRef90_UPI0004744F96 A A L Y G A E A T V S Y Q Y G Y P

UniRef90_W0LBR9 A A A F G A Q V S I D Y V H A Y P V L V

UniRef90_I8AIW0 C K G V I G A S C K V H Y Q R G Y P A V V

UniRef90_G8TLI2 V H S M G A E L D L H I D V I G Y P T V Y

UniRef90_L7ZMI9 A Q S F G A T A I V N H I N G A P V L V

UniRef90_UPI00046A5B1A A E S A G A T S E V T I T

UniRef90_G9PYP3 A A A F R G S V D F L M D W G A P P

UniRef90_X1XM61 A A A N G A T A T F S W H Q G P P V

UniRef90_E8KD74 A A A F D M D V E I E L K Q G G Y L P V

UniRef90_W0RFH7 A E S Q G A T A D V T L Q R

UniRef90_M7P7U8 E E E F G V E C E L N Y V P D Y P P L Y

UniRef90_G8B0K2 A A A F G C T A S V R Y E R R Y P A T V

UniRef90_A0A024QFG7 C T S N D A T Y S F D Y I K G Y P P

UniRef90_G0A891 S L J A Y G A Q A E V E Y F Q Y P A T V

UniRef90_UPI00037B8396 A Q A Y G C T A E V R I T R G E P

UniRef90_P80092 C G I Y G A T C E V K F M E D V Y P

UniRef90_D6V5A2 A T Q S G A K I A V D Y R R G Y P

UniRef90_G7V8K2 S S S M G G D C I V D Y K W G Y P P

UniRef90_V1XB56 S N L F G L K S E L E Y F

UniRef90_UPI0002E99EDE A G G F G A D I D F T Y R R

UniRef90_Q8H3C8 A G V N R C A A A V D F L E E E L R P Y P

UniRef90_I3VYH6 A E A M G G K A E F N R V E G Y P

UniRef90_D4GN02 A A G F G A R A E L E W I A G P P

UniRef90_K2K9I9 G E A H Q A E V E T T I F E G Y P

UniRef90_I5C6R3 C A G F A A S Y E V E I V P D L R P V F

UniRef90_UPI00035DC302 A E S A G A T A E V D L T P Y A P V T Y

UniRef90_U2LQC1 A A I Y G A T A Q V E Y T Y G T L P

UniRef90_UPI0004769BA8 P L L Y G V K G E I D Y Q V C Y P

UniRef90_Q12F17 A Q G F G A T A T V T Y E R I Y P

UniRef90_I3TVY4 A A A W G A T A T V Q V D R G Y P

UniRef90_A0A011UA83 A A A F G S Q A E A A Y S R E

UniRef90_UPI00040756DA C A G A G A D Y D L T Y I Q G Y P

UniRef90_W7SUS3 A A A Y G C S A T F Q L E R G Y P I T V

UniRef90_UPI00047C9964 A K A A G

UniRef90_D9SV35 A K A Y R A E A I V E M S N Y T P

UniRef90_B1CAY4 S E A Y D C K I T Y D W R P F Y G I T Y

UniRef90_M7N5I8 A E S A G A T A E V V F V P M T P I T Y

UniRef90_UPI00047E58B3 E K M Y H C Q I E V V F R D M Y P A V V

UniRef90_A4CKZ5 A K A Y Q G E A T L T I R

UniRef90_UPI00037B96D6 T H L S N S D F E Y T Y D K G Y P V

UniRef90_W8I4W1 A E S F G A T A E V D Y R R G F P

UniRef90_C4LIA1 C E A S G C P A E P D I E Y

UniRef90_X2GJV0 C L J A F G A S Y E Y R Y T R G Y P P V Y

UniRef90_W3AC42 S I J A T D S L Y E Y N F M R G Y P A V V

UniRef90_Q7NHJ5 C A A F G A D Y R L H Y G N G

UniRef90_K9VNH6 C A T Y G A K Y E L T Y K R G

UniRef90_UPI00021919A8 A L J A T G V T A D L Q L I Q G G Y M P V

UniRef90_H3KfV1 A R A M R G D A E L I Y E E L V P P

UniRef90_W8X254 A A S H G C E I R F E H L Q S S P T V

UniRef90_N1UR19 A E G H G L E A T V D Y I L E E Y P

UniRef90_A3XIN5 A K A Y G G S A T I E F Q S N T A I T Y

UniRef90_M4BGC4 C A A Y G A T A R V H F L D G Y A P V I N P

UniRef90_W0BSL9 A E A H L A Q T E V V I K N D G Y P

UniRef90_U2RB65 T E A F E Q K Y E L L W

UniRef90_B9L8Q5 1 A S A D M F E I E I P H E G V D A I L T A S M A V N S I V N H I V S R R R I V D P L H 40
UniRef90_B1KN63 A S E D S F T L T V N G K G V D D P V I V T S A Q T V I N S I V N Q A T L V V S S R R R I V D V T A
UniRef90_UPI0004233213 A S D R F T H A A M P Q G R G V D D P V I V A A A D L V G S A A Q T V V S S R R R T S D P A H Q
UniRef90_UPI000426F9E8 A A S D R F T I T V P H H G V D D P I V A A A S H I M V J A L Q Q T S I V V S R R N A D P L K
UniRef90_M3D021 A S E D V V K I I V P H H G V D D P I V A A A S H I M V J A L Q Q T S I V V S R R N A D P L K
UniRef90_A3SH36 A A T D L I E I E I P H H D T I R P V I T I S G A D T I V A L L Q Q T L V A A R R E V E A P T R Q
UniRef90_D9QQW4 A S A D D L K E L T I P H Q G R D D P I V T I G A D T I V A L L Q Q T L V A A R R E V E A P T R Q
UniRef90_X6EJZ7 A G L D E F D I V I R G K G V D D P I V I G G Q V I V G L L Q Q A L V V S R R N T S D P Q E D
UniRef90_D4MAB8 A S D R V Y L T V I K G R G V D A V I M I A G Q V I C G L L N N V V S R R R I V D P L I D
UniRef90_E6X2L5 A S A D T F H G A R P H E G I D A V L V A A M V I N S I V N H I V S S R R R I V D P L I H
UniRef90_V7I9E9 A S P D V F D L E V T G R G V D D P I M V S A S I I T A F N N M M V G R R R I V D P L V
UniRef90_Q1V685 A S S D R L F V T V P H T T Q Q D P L V V A T H L Y Q G L Q Q T L V S R R N Y D P F D
UniRef90_X6L099 A G V D E F T V T I P H A T R D P V L V A A A S T V M A L Q Q T L V S R R N Y D A L D
UniRef90_UPI0004681764 A A F D V F H A A M P H L G K D T I V L A A C Q L V T Q V L Q Q T L V S R R E T P A H K
UniRef90_A1K5W7 A S A D R Q F D I T V P H L G T D P I V T A A A A L V Q A V L Q Q T V V S R R N L D P V V
UniRef90_Q03ZV8 A A V D R F K V I T F R G Q G N D P I V A L T S T V N T L V L Q Q T I V V S R R K T D P Q S
UniRef90_UPI00034911AF A A A D D L E I F I P H E A I D A I W I A A Q V I T T L Q Q T A I S R T Q N P L R E
UniRef90_I3U9Q9 A A A D Q F W V D V K G R G V D P I V V G S Q I V M G L Q Q T L I A R E V Q S N A L E
UniRef90_R6ZJT1 A A A D Q F W V D V K G R G V D P I N I A C H I Y Q G F Q N T L I A R E V Q S N A L E
UniRef90_UPI00031139F8 A V D R F F L Q T I K A K G N D P M I T L G Q L L T S V L Q Q S I V S R R N V S A F D E
UniRef90_U7PF15 A G C G F F K A V I K G K G S N A F L A A S A V I T S V L Q Q G I V S R R N V S D P L E
UniRef90_S8EDD8 A S M D T F E I T I S G Q G K D P L I A A S Q L V M Q L Q Q T I V V S R R N V I D P L I D
UniRef90_UPI0003B658A0 A S A D W F E I K I E G V G I D P I N V A S T I V M M L Q Q T I R S R R M I D A S Q Q
UniRef90_M4U7L9 S C D R F T I T V P H R G V D A I V V A S T I V M M L Q Q T I R S R R M I D A S Q Q
UniRef90_S0S853 S S D T L H A E L P G R G I D P I A I A C L A V T A L Q Q V V V S R R D M S P S K
UniRef90_G2LJT1 A N T D W F R V A M P H K G V D A L V V G A A I E A L L Q Q V V V S R R D M S P F D
UniRef90_E9BMN8 A S N D K L R I V I T G R G L D P V P I A C E I A L A L L Q Q T F V T R R N A D P V G
UniRef90_UPI0003B4515D A S F D K F L I C V K G K G V D P V N I A A H L L J A L L Q Q T I Q T R E I S V G T A
UniRef90_E9YQ8 A N V D R F Q I L I T G K G V D T I V T A S Q I V N A L L Q Q T I P S R S F S S L E
UniRef90_S4YFB9 A A D T F S I D V K G K G V D P I V T A A A E M V T A L Q Q V M I T R Q F N M F D
UniRef90_UPI0001A442AA S S D G L V V T V P H S A K D P V T A A A E M V T A L Q Q V M I T R Q F N M F D
UniRef90_B1PDJ0 A S A D E L R I K I V T G K A V D P V T T A S Q I V L G L Q Q T V V G R N I P A V E
UniRef90_UPI000410C804 A N S D S F T L K I Q G K G H D A L T V G T Q I V T N L N L Q Q L I T S R R M T D P V K
UniRef90_I4YR68 A S A D Q F I R V K G K G V D P I I S A E I I N G L Q Q S I T R E D D K S S E
UniRef90_UPI00037F190C A A V C F F E A K I E G K A V D P L V A A S F A I L S M Q Q L I T S R R E D D P L H
UniRef90_R5L6D4 A S A D Q F I R V K G K G V D P I I S A E I I N G L Q Q S I T R E D D K S S E
UniRef90_M0SX99 A S A D I I Q I A S M P H D T I D A V I A S S F I M N L Q Q A I V S R R E T D P L I D
UniRef90_S2X8P8 A H E Q E F S I S M T G K G V D P I V I A T S Q L V T A L L Q Q A I V S R R N T A P H D
UniRef90_W4H894 A S A D I I Q I A S M P H D T I D A V I A S S F I M N L Q Q A I V S R R E T D P L I D
UniRef90_G2K553 A S S D N F K I I I N G Q G I D P I N V G V H I H L A L L Q Q E L I S R E S D P S D
UniRef90_UPI0003146194 A S A D S F T V S M P H N S V D P I P A A A E I V T A L L Q Q T R V T R T V D V F D
UniRef90_B2TJQ5 A N A D K F V I H V I T G K G V D A I V V A S Q I I Q A L Q A L L T S R F N A L D
UniRef90_I1D7I7 A A S D R I R L T V R G R G L N P I P V A C A I T Q A L Q G L V P A T V D A C
UniRef90_G7UEZ8 A S S D M F D I V P H K S V D S I V I A A N T I V N M L Q Q T V V S R R K A N P L S
UniRef90_U9W3K9 A S S D L F N L T I K G R G I D P I T I G T E I I Q S I N N M I A R R V A P D E
UniRef90_M5DYZ9 A S S D M F D I V P H K S V D S I V I A A N T I V N M L Q Q T V V S R R K A N P L S
UniRef90_B0K3R1 A S S D L F N L T I K G R G I D P I T I G T E I I Q S I N N M I A R R V A P D E
UniRef90_UPI0002191707 A C L D R I D V K I K G K G V D S I S V A A H A I S A V I V V S R R V N P L E
UniRef90_I4BXB8 A C L D R I D V K I K G K G V D S I S V A A H A I S A V I V V S R R V N P L E
UniRef90_C2D2Q7 A A V D N F E L T F E G L G A D P I L A A G A F V Q A V Q R I V S R S V D P Q S
UniRef90_X5QEZ2 A S A D R F H A A Y P H E S N D M I V A A S Q F I N Q I Q M I A A R T V D P M E
UniRef90_UPI00035CFBEC A S A D R F H A A M P H Q G T D T V L A G C Q L V S S L Q Q I V A R E I D P L Q
UniRef90_K3ZTJ4 A N N R F T I R K G E G V D P V M S A G S L M L A L Q T L V A R E I D P A Q Q
UniRef90_K9EVC9 A S C D R V T I A M P H M A R D P M S A A G S L M L A L Q T L V A R E I D P A Q Q
UniRef90_F2LMY5 A A S D T F R V E I T R G R G I D P I P A G C L F V E E L Q Q R A L A R E F D P Q T
UniRef90_H1HU26 A S S D R F T I T I H K G H D T I V A A A A T V M G L Q Q T L V S R R V N D P A Q
UniRef90_A6FLQ7 A A V Y G F R I K L T G L G I D P I N T G V H I Y L A L Q Q E L I A R E M N P S E
UniRef90_U2UFL7 A S S D R F T I T I H K G H D T I V A A A A T V M G L Q Q T L V S R R V N D P A Q
UniRef90_R9NE61 A A V Y G F R I K L T G L G I D P I N T G V H I Y L A L Q Q E L I A R E M N P S E
UniRef90_UPI0003485840 S I L D D I D V R L T G Q G I D P I N I A C H I V Y Q G F Q N T I I A R S V D P T Q
UniRef90_G2KTU2 A Q D D F N I V I H K G V D P L V T G S Q L V V N L Q Q Q I V S R R L T D P L L Q
UniRef90_P45493 A T D E F T I T V P H T T L D P V L A L S A V V V N L Q Q Q I V S R R V D P T V
UniRef90_UPI0001FFF14C A G A D E H I H V E G K G V D P L V V S Q I I L G L Q Q T L V S R R Q L N S Q E
UniRef90_UPI00036CDC12 A C D S W T V K H L G Q G H D P T V A A A Q L I C A L Q T F V S R R E L D P L K
UniRef90_K6U8E2 A A M D R F E L A V P H L C V D A L E T A T Q V V G A L Q Q R V V S R M T D P L E
UniRef90_W51WN4 A A F D I F H A A M P H L G T D L L A A C Q L V T Q A L I S R E T S P D Q
UniRef90_U51WN1 A S D R A T I A M P H S A K D P V V A A A E L V J A L Q Q S I V S R R N V S P A S E
UniRef90_W7IP11 A A A D A F R V A M T G R G L D P V P A A A A M V G A L Q Q T V L T R R I S V F E
UniRef90_R5IPY6 A S S D C I E L H I H G K G I N P I L J A A E T I N S L Q Q G L V S R E S T Y N V
UniRef90_Q01B36 A G A G E F H A A V P H K N V D V I V A G S A I V T A L Q Q T L V S R R L T D P L L Q
UniRef90_UPI000426B923 A Q D D F N I V I H K G V D P L V T G S Q L V V N L Q Q Q I V S R R L T D P L L Q
UniRef90_I4F161 A T D E F T I T V P H T T L D P V L A L S A V V V N L Q Q Q I V S R R V D P T V
UniRef90_C5D0C5 A G A D E H I H V E G K G V D P L V V S Q I I L G L Q Q T L V S R R Q L N S Q E
UniRef90_D1Y1J4 A C D S W T V K H L G Q G H D P T V A A A Q L I C A L Q T F V S R R E L D P L K
UniRef90_E3ILD4 A A M D R F E L A V P H L C V D A L E T A T Q V V G A L Q Q R V V S R M T D P L E
UniRef90_S2KFR7 A A F D I F H A A M P H L G T D L L A A C Q L V T Q A L I S R E T S P D Q
UniRef90_UPI00047813DA A S D H F Y I D I T G K I D A L V A A A N W I V A A Q A I S R E V S P M E
UniRef90_R5EBF4 A A C D L F S I R V V G V G K D P L P V A T E T Y N A L Q Q S I V S R T L D P L K
UniRef90_Q65K84 A A C D L F S I R V V G V G K D P L P V A T E T Y N A L Q Q S I V S R T L D P L K
UniRef90_D5U961 S Y D K F I I N V K G K G I D C V L T A S Q I A Q A L Y N I K A R E I T A T D
UniRef90_UPI000368343B A S V D W A R I R V P H S A V D P V V A A A H I V T G L Q T I V S R R N A A P L D
UniRef90_U4HIZ1 A G A C F F D I T V P H Q S K D P I V G T A L V Q Q L Q S V S R R N T P P T K
UniRef90_UPI00036C42E3 A S A D T F S I R V P H N A V D P V P A A A E M V T A L N T M V T R K V N V F D
UniRef90_A3PJZ9 A A V D T A T V R V P H E T V D P V V A I V G M V S A L Q Q T I I S R N L Y T L D
UniRef90_D5RPE1 A A P D R W V I T F P H L S T D V V T L Q A Q F I L A L Q Q T V V S R R N I S A I D
UniRef90_K2JQ63 A A V D P F K I E V H H K S V D P V V T S A Q M V M A L Q Q T I V S R R E V K V D N
UniRef90_UPI00034603D4 A A A D T F V A T V T G A G I D P I P L A A Q T V L G W Q T I P S R Q M D A L P

UniRef90_B9L8Q5 P A V I S F G N I I I P D D E V E L L I G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_B1KN63 P A V V S F G T N I I I P D D Q V E L L I G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0004233213 P L V M S F G T N I I I P D D Q V E L L I G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI000426F9E8 P A V V S F G T N I I I P D D Q V E L L I G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_M3D021 E L V V T I G K F H A G K A V L L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_A3SH36 Q L V V S I V T G N F I P D D S V T L K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_D9QQW4 P T V L S S I V T G N F I P D D K A V I L K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_X6EJZ7 A L V I S S I V T G N F I P D D Q A E L S G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_D4MAB8 A A V V T S I V T G N F I P D D R F V T E M A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_E6X2L5 P A V I S M G N I I C D D F V T V A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_V7I9E9 P C V V S V T Q A L I P A D S A V L L N G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_Q1V685 P L V V S V T Q A L I P A D S A V L L N G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_X6L099 R V I L S V T Q F H P E H V E L L R G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0004681764 T A I L S V T Q F H P E H V E L L R G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_A1K5W7 S A V V S I T Q F H P E H V E L L R G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_Q03ZV8 P V V V S V T H I L P D D V A W F E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00034911AF P V V L T I G Q I I A D R V R L V G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_I3U9Q9 P A V L T V G T F H P E D S A S M T G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_R6ZJT1 T C V A T F G N V I I P E S A S M L G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00031139F8 Y A V V S V G F V I P E C V K F G L N V R A T Q S R N E D T R V E E Q R I R E Q R M V A L T
UniRef90_U7PF15 S A V V T I G N V I P D S A R L Q G G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_S8EDD8 S Q V V S T F L T P D S A R L Q G G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0003B658A0 S A I I S T I G K M I A G E A R L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_M4U7L9 A A V I S V T Q F I I A D K T Y A Q G G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_S0S853 R F V L T I G E F I P S S A Y M K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_G2LJT1 P M V L T I G R M V A D E V V M E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_E9BMN8 C P I E T G N V I I P G D V A R L K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_R7CJ31 P V V L T I G E F H G D R V A R L K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0004650E63 Q L V V S I T G S F I P Q R V S I K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0003B4515D P A V I T I G Q I I P D D T A L L F G T M R A L L S A A T R L K R D G L P R K L A V A G G I
UniRef90_E9RYQ8 S S V I T I G N V I P D D Q V L L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_S4YFB9 S L V V S V T R I L P Q T V E L L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0001A442AA P A V I T V G N I I P E E A R K M T G S I R T F S N E D M R I H H R L Q H T L V G H I
UniRef90_B1PDJ0 P V V L T V G N V I P E T V A R I E A T I R T F S E E S R M M D V V P K L L Q G G I
UniRef90_UPI000410C804 P G V I S V G H I I P E V V V A G T A R T Y S P K V R I E R D L R E T A E G L
UniRef90_I4YR68 P T V V S S T I N P E T V E M S G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_A0A011RQK2 P A V L T F A N I I P A A A E F E A T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00037F190C P V V I T V G N V I P A A A E F E A T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_R5L6D4 N V L L S V L C N I P D M V E F E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_M0SX99 S Q V L S V T Y E T P P D M V E F E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_S2X8P8 E A V V T I G Q V I P Q D A M I E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_W4H894 S A V V S T N V I P S T A T L G E G T M R D F D N T A V T L R R R M E T Q I V H D Q T
UniRef90_G2K553 P V V V T I G K M I A E N A R L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI0003146194 S A V V S I T T F H P H E A R L S G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_X5WU63 A L V V T I G N V I P E K A I L L A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_B2TJQ5 T A V I T I G T F I P E K A I L L A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_I1D7I7 P A V V T V T R I I P E S A E L L E G T I R T L S E R T R L R A R E V P R V S E R I
UniRef90_G7UEZ8 S L V L S I T N V I P E T V E F G G T A R T H D L Q L R L E K V R R T L V S E N I
UniRef90_D9W3K9 P A V V T I R F I P E R A E L H G T M R T L T P D A R V R T A V R R T L V S E N I
UniRef90_M5DYZ9 P V V F T L G K M I P D K S E L V G T L R C F N E K T R N E E A I K R Y A D K L
UniRef90_B0K3R1 P L V L T I G N I I A N K V R M S G L I R M M E E E K R I V E M V E K I C D N T
UniRef90_UPI0002191707 P A L V S W G F I P H T A H I K A S V R S R N P Q V R M E R M I R D I I K H V
UniRef90_A0A024Q1F8 S A V V T I G K M I A E T A R L E G T I R T L N P D T I V K D K I E K M A K G F
UniRef90_I4BXB8 P V V V T I G N I I S Q D V T F E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_C2D2Q7 G G V I T F G N V I A G Q A R I E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_X5QEZ2 A L V V S I T Q I H P G K V W L Q G T C R R F F E H S D H C E R L I G E I A Q G G I
UniRef90_A8UDC7 G A V I T L G T M H A G T A S L S G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00035CFBEC A A V V S V T Q F H P E R A A L A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_K3ZTJ4 G T V V S I T F V I P E S V T F G G T L R S M T N E L Y L K K R I E E S V
UniRef90_K9EVC9 S A T L T M G K F I P G E A V L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_F2LMY5 A A V I T V G N F I P E T V V M K L S V R A L D A A V R L E T R I G E L V S Q K H
UniRef90_H1HU26 A A L L G V T S F I P D R A V L L G T G R A S F D T E V R F P A L L Q R I A R S G T
UniRef90_A6FLQ7 N G V V S V T E F L A G K A T L S G D A R A L T P E T N I E A A M R Q L V E N G I
UniRef90_U2UFL7 T F V L T V G M M I P D G K A T L S G T T R A L D F F R K I I P G L I E N S K N L
UniRef90_R9NE61 E A T L T I G R F I P E R A V L L E G T L R T F K P E L R M I G R I R E T I T S I
UniRef90_UPI0003485840 T C V A T F G R I I P D S A S M L G T L R T Q D A Q V R A K E H A Q R M V A G I
UniRef90_G2KTU2 G G V I T F G N F I S G S A H L K G T I R G T T Q M H L D E R I Q Q E V T N G I
UniRef90_P45493 S A V V S I G N I I P D I A T I K M S V R A L T D N E T R T E E K I Y K I C K G I
UniRef90_UPI0001FFF14C A A V L T V A R I I P E T A E L T G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00036CDC12 A V V L S M G N I I A D Q V E I R G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_K6U8E2 P T V I S F A N I I P D I V E I K G T V R A N T D N E I R V L Q R I E E I V S G L V
UniRef90_W51WN4 V A V I T V G N V I P E T A E L R L S V R A T R P E V R L K R I A E V T Q G V
UniRef90_W7IP11 P T V V T I A N I I P E T A E L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_R5IPY6 P A V L T V T N I I P N S A T I V G G L R T Q S L E V R L L K R M E E L S K Q C
UniRef90_Q01B36 S V V L S V T V F N A D K A T L R G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI000426B923 A A A V L T V G S F I P D K A I L K G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_I4F161 G A V L A V T Q V V P D T A R A R G G L R V M R D E E D R L R Q A L T D V A E H T
UniRef90_C5D0C5 P A V I S A G N I V P S E V K L L G T A R S F D E P M R A K A F I R A R T A N L
UniRef90_D1Y1J4 S A V L S A G N I V P S E A E L L G T A R S F D E P Q I D C A F I R R T A N E N I
UniRef90_E3ILD4 P V I L T I G N V I P G E A R M A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_S2KFR7 P A V L S I T S F L P E N V K L R G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00047813DA N I V E T I G T M N A E N V K L E G T C R T F N P A I R I E E R L L T R S R S Q G I
UniRef90_R5EBF4 S A V V S V C N I I S D S V K M I G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_Q65K84 S A V I T I G N I I A Q E A R L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_D5U961 P T V I S V C N I I P D E A V L E G T F R A F S E N E R I K K R I K E I S Q Y T
UniRef90_UPI000368343B L A I V T V G N V I P D R V D L T L T T R A F R P E I R L E K R V K T V A T L Q
UniRef90_W4HIZ1 P L V L S V T T F N P G S A T I T G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00036C42E3 P A V V T T R I I P E T A E L L G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_A3PJZ9 D L V L S V T Q I I P E D G W F C A T I R T T F P E V R V R R R F H E I V E G H
UniRef90_D5RPE1 P A V I S V T N V M P A E I R V I G G T A R S F T P A V R M E R M A R K L A Q G G I
UniRef90_K2JQ63 G A V V S V G M I I P A E V D L A G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I
UniRef90_UPI00034603D4 A P V I S V G N I I P A A Q V R L E G T V I R R T T F N D Q D M R I K K L R F L A E N S I A V E G M I

90 100

UniRef90_B9L8Q5 S K S M G A E Y K F H Y Y Y G

UniRef90_B1KN63 A Q S M G A S A T T K I D Q G Y P V T V

UniRef90_UPI0004233213 A A A H G C T A E V I A I E A G Y P P T V

UniRef90_UPI000426F9E8 A A A H G A T V T T E I P A G T G N P V

UniRef90_M3D021 A I A M G A T A D V S L E A G Y

UniRef90_A3SH36 A Q G F G A E A R V R Y E R N Y P V M V

UniRef90_D9QQW4 T Q A L Q A D Y E L E Y N C Q L P T V

UniRef90_X6EJZ7 A G G F G A H V D F R Y R R

UniRef90_D4MAB8 A R S L R G S C E V R Y V K G Y P L V

UniRef90_E6X2L5 C A A M D A K Y H F R Y E F G P P

UniRef90_V7I9E9 A G S M G A T A N F I Y G K R F P V

UniRef90_Q1V685 A K A H G M Q A E F K L G P I S H P P

UniRef90_X6L099 A R S F G Q S A V L D Y V E G Y P P

UniRef90_UPI0004681764 A S F H G L K V N F D Y Q P R Y P

UniRef90_A1K5W7 A A A F G V E V E F E Y R R G Y P P T V

UniRef90_Q03ZV8 A A T F G L A V D I S W I E G

UniRef90_UPI00034911AF C N A Y G A R Y E V N Y K R G

UniRef90_I3U9Q9 A T S A N A S A K V K V V E L Y N A V V N P

UniRef90_R6ZJT1 A E A F G G T A T V D F L R G V P N T Y

UniRef90_UPI00031139F8 A Q A H G V E A L I D Y R Q L T P P V V

UniRef90_U7PF15 A S A F N A E I E L E Y I H

UniRef90_S8EDD8 S E V Y G C S A T V D F F G G S D A V Y P P

UniRef90_UPI0003B658A0 E Q G F A C Q A T I D W G A N Y

UniRef90_M4U7L9 A I A F D V E I S L N Y Q Q

UniRef90_S0S853 G Q A F G A K V T I D F T N G

UniRef90_G2LJT1 A A G S G A S C D I R Y E R L V P P

UniRef90_E9BMN8 C R S Y G A T C N L S W L P G Y

UniRef90_R7CJ31 A R S Y S A K A D F E W Q S G

UniRef90_UPI0004650E63 A A T F G G T I N L D Y F R N Y P V M V

UniRef90_UPI0003B4515D A A A H G A S A T V E I T P G F P

UniRef90_E9RYQ8 S A M F G G S C E C E L I W G A P P V V

UniRef90_S4YFB9 A A S L G A Q A E L R W Q P G P P

UniRef90_UPI0001A442AA A E S A G A K G V I N D I M E L Y

UniRef90_B1PDJ0 A A A H G L E V D V D Y Q Q E Y P

UniRef90_UPI000410C804 A A T Y G C T A K I E Y Q R R Y P P L V

UniRef90_I4YR68 A E S A N A K A E V E V I E L Y D P L V

UniRef90_A0A011RQK2 A A A Y D A T I D L I Y T R G Y P

UniRef90_UPI00037F190C A A A H G L T A E V E Y D V I Q Y P P T V

UniRef90_R5L6D4 A E S M L G E C E I E L V E

UniRef90_M0SX99 A A V H Q C T A F I S M L E E D F P F Y P

UniRef90_S2X8P8 A L Q F D A Q V E L D Y Q R

UniRef90_W4H894 C H M H G A E G T V T L V E S Y P

UniRef90_G2K553 A A I Y G G T A E M I Y K Q G T Q P

UniRef90_UPI0003146194 A R M H R V D V E L G Y D R R Y P P T V

UniRef90_X5WU63 A R G F G G D A E L D Y R R D

UniRef90_B2TJQ5 A K T F R A E A R L E

UniRef90_I1D7I7 G E A H G C R V V A D L R P G F P V T V

UniRef90_G7UEZ8 A L A N G A Q A S L H W H A G P P V

UniRef90_D9W3K9 A A V H G A H A E T D L T E G Y P P

UniRef90_M5DYZ9 A K S Y R G E A E V E I R K G T P P

UniRef90_B0K3R1 A K A M G G E V E F K R T I G Y P C L V

UniRef90_UPI0002191707 C A M Y G A E Y D L D F Q K G Y

UniRef90_A0A024Q1F8 E V I S S D C V T E I D Y G S N Y Y Q V Y

UniRef90_I4BXB8 A S G M R A E V E Y T Y T Y G Y P P

UniRef90_C2D2Q7 A T S Y G A T V N I A F N Q G G Y L P V

UniRef90_X5QEZ2 A A A H S L K A R L D Y R K G Y P P

UniRef90_A8UDC7 E L S Y N C K I Y L D L D Q A G Y Y P V

UniRef90_UPI00035CFBEC A A A Y G V G I E L S W K G G Y P

UniRef90_K3ZTJ4 V H H C T A T V D F M E D K M R P Y

UniRef90_K9EVC9 A E A Y R G S A E F E

UniRef90_F2LMY5 A A A Y G L G V E I D Y D H G Y P V L V

UniRef90_H1HU26 G E S T G T E L S V R Y E P G P P P

UniRef90_A6FLQ7 C A A H G I S A T V S Y E T I F P P

UniRef90_U2UFL7 V K A Y G C T A D L T Y F F G

UniRef90_R9NE61 A S A Y R T N V I E I E V L S D V P P V V

UniRef90_UPI0003485840 A Q A F G G T A E V S F L R G V P N T Y

UniRef90_G2KTU2 A T S Y G C K V D L K L N Q G G Y L P V

UniRef90_P45493 A Q A N D I E I K I N

UniRef90_UPI0001FFF14C A L A H G C T A E V T L V P G Y P V T V

UniRef90_UPI00036CDC12 A A G L N A R A D V R Y E F G Y P P T V

UniRef90_K6U8E2 A K I M R A D F E L D F Y G G C P A V

UniRef90_W51WN4 A A V H G I E A Q L D Y E E

UniRef90_W7IP11 A E A H G C T A E V F V D R G Y P V T V

UniRef90_R5IPY6 A A M Y G A T A E M K V P S G C P P V

UniRef90_Q01B36 A V A H G C E A S T S F E P E Q Y V P Y P P

UniRef90_UPI000426B923 C S A N G A H V D Y E Y I K D C P S I Y

UniRef90_I4F161 A T A Y G C T A T V E I E D N E P

UniRef90_C5D0C5 A E S A G A R A K V N F G P

UniRef90_D1Y1J4 G A A F R C T A E L D Y R R N L P P

UniRef90_E3ILD4 C A A M G A T A T L D F H Y

UniRef90_S2KFR7 A G F H G L Q A S L D Y R R C Y P

UniRef90_UPI00047813DA D N F F G T K S S L D Y Q R G Y

UniRef90_R5EBF4 A A A Y G I K A E T V Y E R

UniRef90_Q65K84 E T A Y Q C S G K V S Y P A A Y Y Q

UniRef90_D5U961 A L A N R A N A E V N I E W G S A V V

UniRef90_UPI000368343B A E S F G A L A D I E W K E G F P S V V

UniRef90_W4HIZ1 S Q A Y G V E I D V D I R

UniRef90_UPI00036C42E3 G A A H G C R V V A D V E P G F P

UniRef90_A3PJZ9 A A A Y G V R V E I D Y E L G Y P P T V

UniRef90_D5RPE1 A A S F G C T A E V A Y R R N G T P L V

UniRef90_K2JQ63 A D S M G A T A T L T M P Y G D S Y P

UniRef90_UPI00034603D4 A E S A G A S A S I D V T P T Y P A G Y

UniRef90_S6K1T0
UniRef90_T2LAM5
UniRef90_J7SVK2
UniRef90_UPI00030F9563
UniRef90_A2TP34
UniRef90_U5C317
UniRef90_UPI000377FA32
UniRef90_UPI000465E5F6
UniRef90_C2CFA0
UniRef90_S2Y931
UniRef90_UPI000479F30D
UniRef90_UPI00040F1D90
UniRef90_UPI00023754D8
UniRef90_S6INR9
UniRef90_G4QEK3
UniRef90_W9AI83
UniRef90_W9GWW2
UniRef90_V7EJR0
UniRef90_K9AFB9
UniRef90_D0R4B5
UniRef90_K0D6G9
UniRef90_H8MX46
UniRef90_I4BWG1
UniRef90_H6C8K6
UniRef90_B9E8P8
UniRef90_UPI00028806E4
UniRef90_UPI000380EEC5
UniRef90_R7CAR6
UniRef90_V3TW51
UniRef90_UPI00036D22BC
UniRef90_U7UQ90
UniRef90_A6G8U8
UniRef90_UPI000422DE68
UniRef90_W7C8Y3
UniRef90_Q4GYS3
UniRef90_G4EM69
UniRef90_C2BF98
UniRef90_R5X552
UniRef90_W8IFP5
UniRef90_C2VQZ6
UniRef90_I7IWL4
UniRef90_F6CV49
UniRef90_E6WJ35
UniRef90_J7T9T9
UniRef90_C1AEA3
UniRef90_S6F7D8
UniRef90_C6ZDH3
UniRef90_S6IGI2
UniRef90_H7F693
UniRef90_W9R2F0
UniRef90_R5EYR7
UniRef90_D5RJM5
UniRef90_W5C1P8
UniRef90_A0A024PHF2
UniRef90_A0A011NH58
UniRef90_A8FCN2
UniRef90_D1ARH1
UniRef90_D3R0F4
UniRef90_UPI0003B3DC92
UniRef90_UPI000360EF91
UniRef90_I5BXD4
UniRef90_UPI000369DECE
UniRef90_K2RF99
UniRef90_E3QVU6
UniRef90_UPI0002E4DEDD
UniRef90_UPI00046FACD2
UniRef90_I1GNQ3
UniRef90_H7F466
UniRef90_F2JKH1
UniRef90_R5XS50
UniRef90_UPI0003B5E4DA
UniRef90_E7GH38
UniRef90_R7KNX8
UniRef90_E3PWE0
UniRef90_K0WGY8
UniRef90_W6KSE3
UniRef90_UPI000467EE31
UniRef90_G4Q5U5
UniRef90_UPI0004650352
UniRef90_UPI00047AE126
UniRef90_H1PUQ6
UniRef90_I0H6U9
UniRef90_V6Q7L1
UniRef90_M1ZGM0
UniRef90_M5AMX4
UniRef90_W9AV28
UniRef90_H0DHE2
UniRef90_UPI00037A3289
UniRef90_C2CQM6
UniRef90_N1V8E1
UniRef90_UPI00037096B6
UniRef90_C6BYN1

UniRef90_S6K1T0
UniRef90_T2LAM5
UniRef90_J7SVK2
UniRef90_UPI00030F9563
UniRef90_A2TP34
UniRef90_U5C317
UniRef90_UPI000377FA32
UniRef90_UPI000465E5F6
UniRef90_C2CFA0
UniRef90_S2Y931
UniRef90_UPI000479F30D
UniRef90_UPI00040F1D90
UniRef90_UPI00023754D8
UniRef90_S6INR9
UniRef90_G4QEK3
UniRef90_W9AI83
UniRef90_W9GWW2
UniRef90_V7EJR0
UniRef90_K9AFB9
UniRef90_D0R4B5
UniRef90_K0D6G9
UniRef90_H8MX46
UniRef90_I4BWG1
UniRef90_H6C8K6
UniRef90_B9E8P8
UniRef90_UPI00028806E4
UniRef90_UPI000380EEC5
UniRef90_R7CAR6
UniRef90_V3TW51
UniRef90_UPI00036D22BC
UniRef90_U7UQ90
UniRef90_A6G8U8
UniRef90_UPI000422DE68
UniRef90_W7C8Y3
UniRef90_Q4GYS3
UniRef90_G4EM69
UniRef90_C2BF98
UniRef90_R5X552
UniRef90_W8IFP5
UniRef90_C2VQZ6
UniRef90_I7IWL4
UniRef90_F6CV49
UniRef90_E6WJ35
UniRef90_J7T9T9
UniRef90_C1AEA3
UniRef90_S6F7D8
UniRef90_C6ZDH3
UniRef90_S6IGI2
UniRef90_H7F693
UniRef90_W9R2F0
UniRef90_R5EYR7
UniRef90_D5RJM5
UniRef90_W5C1P8
UniRef90_A0A024PHF2
UniRef90_A0A011NH58
UniRef90_A8FCN2
UniRef90_D1ARH1
UniRef90_D3R0F4
UniRef90_UPI0003B3DC92
UniRef90_UPI000360EF91
UniRef90_I5BXD4
UniRef90_UPI000369DECE
UniRef90_K2RF99
UniRef90_E3QVU6
UniRef90_UPI0002E4DEDD
UniRef90_UPI00046FACD2
UniRef90_I1GNQ3
UniRef90_H7F466
UniRef90_F2JKH1
UniRef90_R5XS50
UniRef90_UPI0003B5E4DA
UniRef90_E7GH38
UniRef90_R7KNX8
UniRef90_E3PWE0
UniRef90_K0WGY8
UniRef90_W6KSE3
UniRef90_UPI000467EE31
UniRef90_G4Q5U5
UniRef90_UPI0004650352
UniRef90_UPI00047AE126
UniRef90_H1PUQ6
UniRef90_I0H6U9
UniRef90_V6Q7L1
UniRef90_M1ZGM0
UniRef90_M5AMX4
UniRef90_W9AV28
UniRef90_H0DHE2
UniRef90_UPI00037A3289
UniRef90_C2CQM6
UniRef90_N1V8E1
UniRef90_UPI00037096B6
UniRef90_C6BYN1

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

UniRef90_S6K1T0 A E A S G A K A Q V I E Y L P G G Y R 90 100

UniRef90_T2LAM5 A H A Y G G E V F L E Y Q R

UniRef90_J7SVK2 V L I Q G G A K Y R F D A T E G V Y P

UniRef90_UPI00030F9563 A A A Y G V I E A E V K I S D G Y P C V V

UniRef90_A2TP34 A A A Y R T E A T I T I P E G Y P

UniRef90_U5C317 A K A A G L S E D K L P T Y W L R N P Y T P

UniRef90_UPI000377FA32 S T S L R L E C R L D W E R G T P P L V

UniRef90_UPI000465E5F6 A K T Y G V I E A Q V I E T R P R Y D A T V

UniRef90_C2CFA0 A K A Y R A D A D F E I L L S D

UniRef90_S2Y931 A A T Y R C E V I E L E

UniRef90_UPI000479F30D A A A H G L E V H V Q Y D E E Y P

UniRef90_UPI00040F1D90 A E A H G C T A E L T F

UniRef90_UPI00023754D8 A L A S G T E V Q V S Y Q R Y Y P

UniRef90_S6INR9 P T A F G V I S G K L A Y T V I G Y P

UniRef90_G4QEK3 A D S M R A E A E V I L P L D Y S Y P

UniRef90_W9AI83 S L A Y E C E I D V D Y G A N Y Q V Y

UniRef90_W9GWW2 A E S A D A N A A V S I S R G Y D T T V

UniRef90_V7EJR0 A L A Y N V I T A R I D Y D W G Y P A T V

UniRef90_K9AFB9 E T S F G V I T A D L D Y K Y D Y P

UniRef90_D0R4B5 A R S Y N M N I G L Q L N Q G G Y W P V

UniRef90_K0D6G9 A L A N D V V I D V S L E S G S Y L P V

UniRef90_H8MX46 A M A S G A

UniRef90_I4BWG1 A K G W G C N S S F E L F R A P Y P P

UniRef90_H6C8K6 C L A G N C P K E P T L E P

UniRef90_B9E8P8 V T T M G I T Y D L K Y S K G Y P P V V

UniRef90_UPI00028806E4 A G F H D L R V I E L D Y Q S R Y P P

UniRef90_UPI000380EEC5 V H A M G A E A D V L T D V I G Y P F

UniRef90_R7CAR6 A V Y N G S I E Y T V L S A V P P

UniRef90_V3TW51 P A S F G V I S G E L H W Q Y G Y P

UniRef90_UPI00036D22BC A L A H E L E I V A D I R

UniRef90_U7UQ90 D T I Y G T E S E L A Y E K G Y G A V V

UniRef90_A6G8U8 G A T Y G V I E V D L A L I E A G Y P V L V

UniRef90_UPI000422DE68 T K K R G A T A D M K Y T F G Y P

UniRef90_W7C8Y3 E E A F Q C E V I T F R P G S D Y C Q V Y

UniRef90_Q4GYS3 T S A H G A K H T V I S W L E

UniRef90_G4EM69 C S I Y G A E Y D W Y F Y E G Y P P

UniRef90_C2BF98 G E T F K V I G V I E I E Y T D D Y P V L Y

UniRef90_R5X552 G E M Y G T T V I E Y E V L S D V P S I Y

UniRef90_W8IFP5 A D A Y G C E V I E V I T Y T R E F V P

UniRef90_C2VQZ6 T K A H

UniRef90_I7IWL4 C E A S G C P E K P R F E Y

UniRef90_F6CV49 V A S Y G L K V I S L I S F Q R G Y P

UniRef90_E6WJ35 A A G F A G D A E L E W Q P G P P

UniRef90_J7T9T9 A A A Y G A T V I E T D W Y E G P P

UniRef90_C1AEA3 A R S A G A T A I V K I D K G G

UniRef90_S6F7D8 A K M F R G E A K L

UniRef90_C6ZDH3 A E A F D V I E I E T L Y H R

UniRef90_S6IGI2 A L A H G C Q I D M S L A N S T P P V V

UniRef90_H7F693 E E A Y Q C E I T F T K G S D Y C Q V Y

UniRef90_W9R2F0 A L V H R C S A E V D F M E E K P M P H P

UniRef90_R5EYR7 C Q A M G G S G E V T V T P G Y

UniRef90_D5RJM5 A A A H G C T A E V T Y S R E F V P

UniRef90_W5C1P8 A A V H R C T G V T E I L G A S H P M Y P

UniRef90_A0A024PHF2 E I A N D C G I T I D Y G S N Y H Q V Y

UniRef90_A0A011NH58 A E S A G A T A E V V I D K K T P V T Y

UniRef90_A8FCN2 E I G Y E C K A T V R Y P S S Y E

UniRef90_D1ARH1 A K A Y R A D I D Y N Y I Y G A P V

UniRef90_D3R0F4 A K A Y R A E A E V K I L S D V P A L V

UniRef90_UPI0003B3DC92 C L T H R C T C D I D I I H E

UniRef90_UPI000360EF91 P Q P F G V I S G S L E W L P G Y P

UniRef90_I5BXD4 A A M F G I E A E Y R F I R R P P V V

UniRef90_UPI000369DECE A L V T G A K I D L K I E

UniRef90_K2RF99 A E M H G C Q A E V I Y G Q H Y P M

UniRef90_E3QVU6 C A A S G A T A A P L F K M T R H L P V

UniRef90_UPI0002E4DEDD A D A H G C R T E V T F D R V Y P V T V

UniRef90_UPI00046FACD2 A F T A G L E P E L E I R N E Y T P A V

UniRef90_I1GNQ3 A A V G R C A A A D F M E E E L R P Y P

UniRef90_H7F466 E V M F G V I T C E L D Y K N D Y P

UniRef90_F2JKH1 A K L F R G E A K L E E L A S V P P

UniRef90_R5XS50 A K M L R G E A E L

UniRef90_UPI0003B5E4DA C Q A A G S P L D P A F A Y Y D Q F P

UniRef90_E7GH38 A A A Y R G T T G V T I E D G Y

UniRef90_R7KNX8 A Q A F G A K A H L T F T R Q Y A P

UniRef90_E3PWE0 E L A H N C T I T V N T N D D Y P

UniRef90_K0WGY8 A E S G G A K A D V T I I E K Y D P

UniRef90_W6KSE3 T K A H G A G Y E L S W

UniRef90_UPI000467EE31 A K A Y G V I E I T L D

UniRef90_G4Q5U5 G E A T R T T L E A C Y H Y G T P V M V

UniRef90_UPI0004650352 T E A F G G S Y E L D R Q R S Y P A L Y

UniRef90_UPI00047AE126 A L A H G C T A E V R F T R A S P P L V

UniRef90_H1PUQ6 E L T Y N V K I D E D L V I L Y P P

UniRef90_I0H6U9 G A A H G A R C E V I T Y T H E F E A T V

UniRef90_V6Q7L1 A S A H R T E I E F E

UniRef90_M1ZGM0 P Q P L G G K G E L M R T E S Y

UniRef90_M5AMX4 A Q I T G A K I D L I T F

UniRef90_W9AV28 A A A S N A P R E P D F D W T V T A P V

UniRef90_H0DHE2 A E R F G G S V D I E Y I N G H S P P V

UniRef90_UPI00037A3289 C E A G N C E K E P D I E V Y D S F P

UniRef90_C2CQM6 A A A G A P E P S F E Y S E R F P V

UniRef90_N1V8E1 A A A S G A P E P E I E E L Y T F P

UniRef90_UPI00037096B6 V E G L G G E A V L S Y R R G

UniRef90_C6BYN1 A T M Y G V K A E L D Y V R K H P V L V

UniRef90_C4ZKY2 1 AAVDNDWEI V LIT GK S I D P V V V A G A S L V M A L L Q Q T I V V S S R N D V S A K F E D
UniRef90_R7BQV8 ANTDFWFRV V A M P H K G V D A I V V I G A S M I E A L L Q Q T I V V S S R N D V S A P F E D
UniRef90_HOUJC9 A S S D T F S V T I P H L A N D M V V V A A A C R A V D A L L Q Q T I V V S S R R T S R P S S E D
UniRef90_R7CSH0 H A A F P Q D A K D D A V V V A A A S T L V M Q V L Q Q T I V I S S R S S I N T L E D
UniRef90_UPI00037B6D1C A N A D R F I T I N I H G K G N D T I V V L A S Q V I Q A N L Q Q A I A S S R S S F N T L E D
UniRef90_UPI00047C164A A A V D R F A V R L I G N G K D P I V V T A S A D M L G A A Q T I V I S S R R A N S P T K Q
UniRef90_Q5GV32 A A S D R F A I K M I G R G I D P I V V A S A D M L G A A Q T I V I S S R R A N S P T K Q
UniRef90_R9MRB5 A S N D K F D I T I T E G K V N D T V L A A V R M A E A L N T Q T L V V P R C V I D P A S S
UniRef90_UPI000478102A A G N G T F Q L T V Q G L C R D P V L V A G S A I V L A L Q Q T L V V S R R R L S P A F F E
UniRef90_UPI0002F2E056 A N V D S V D I T V H G R G I D P I V V Q A A E L V M S L L Q Q T I V V S S R R E I K P V D D
UniRef90_A3ZYD9 H A A Y P P H L A N D M V V V A A S A F V G Q M Q T I V I S S R R N I D N P L D
UniRef90_W7DCH1 A A D S F R V T V P H M T I D P V V L A A H I I V R L Q M Q T I V I S S R R E V N S P R E D
UniRef90_S3E331 A N V D S V D I T V P H T T K D P V V L A S Q I V L A L L Q Q T L V V S S R R E V N S P L D E
UniRef90_UPI00037047DB A A D M F T L T I E G G V G S I D P I V V A S A F I L N L L Q T L V V S R R G M N S T Q
UniRef90_B8C8V4 S S D N F I D I Q G K G L D P I N I A A H M I L A L L E S L V V A R R L S P T Q
UniRef90_R6F7V2 A S T D N I V I L I H G K T Q D P V V I G A S L V M A L L Q Q T L V V S S R R N A P P S E Q
UniRef90_U6ZRU7 A S S D T L H V I E V G R T G D A I V V A A C H I A V A L L Q Q T I V V S S R R N T D P F Q
UniRef90_UPI0003709F67 A G A F F D V I E V H G R G A D P I A V V G A G L I N E L Q Q K I V V S R R N T D P T H
UniRef90_AONZA2 A A T E K F T I D I S G K G V D A V C I A A A T V M N I Q Q A I V V A R R Q I S P L D D
UniRef90_G9YHP7 A S A N N F R I V V K G K G V D S V Y I G S Q I V V S V P E I I V A R R L S P F D D Q
UniRef90_A0A011NE30 A S S D R F T I D I H G K G V D P M L I V S G A I I S G A I V S R R N T S P L D D
UniRef90_UPI000474F25A A G A T F F D I V I N G H A R D P I V I A T A L V Q S L Q Q S I V V S S R R N V P P T E
UniRef90_K2MPS0 A S A N N L E I T V R G R G I D P V V Q V G A T I V G Q L Q Q S I V V S S R R H F F A W D Q
UniRef90_D4YLQ9 A A D V F K I T F I G K G V D S V V M A G Q F I S N A L Q Q S I V V S S R R A V N D P Q Q D
UniRef90_E4KQY3 A A D S F R L T V Y G K G I D L V F M A A N T I V R L Q Q S I V I S S R R E V N D P Q Q D
UniRef90_W9CWL3 A A A G K L E L E P H R A A D P S L W I A A K L I S G I Q Q S E A I V S R R Q L D A L P L D
UniRef90_Q7V9Q6 H G A M P H R A A D P T L L A A S T V V A L Q Q S I V I S S R R N V S P V D D
UniRef90_UPI000472FVL6 A G T D R F E I D V K G H C V D A L V A G A A I V D G L Q Q T L V V S S R R E V N S P V D D
UniRef90_K1KK89 A S S D V F E I K I Y G E G T D A I V V A A S Q L I S Y I N Q V I V V S S R R V N D P V D N
UniRef90_D1AJF5 A A A S A R V V T I N G E G I D P I M T A S Q F I N Q V I N T V V S S R R V N D P V D N
UniRef90_J5KID6 A G S N Q L F I T V P H Q T L D P V P A A A E I V L A L Q Q S F V T T R S F D A F D E
UniRef90_U2YJP8 A N V D S V D I T V V K G G K D P V V L A S R I V L A L Q Q T I V I A S R L S P L E S
UniRef90_A8H6Q8 S I L D K F N D T I E G Q G T D V I V A L T D I V G A L L Q Q T I V I S S R R N V L E P T S
UniRef90_UPI000474CZZ1 G N G T F H I T L K G K G H D P V L A A A A V T L N L Q Q I V V S S R R R L P P Q A R E
UniRef90_Q31J58 G C E T F A V K V R G K G L D P L Y C A A Q I L C G A N A I V G R E V V S A R H E
UniRef90_D1Y885 G C E D T I T I D L R G S V D P T Y L A A S I V L R L Q Q I V V S S R R E V S H A D E E
UniRef90_UPI0004791C21 S S D E F Q V V F I G K G I D A I A M A S S F V T E I V Q Q K L I V S S R R S H A D E E
UniRef90_UPI000476F134 G R G F F K L T I P H L A N D P I V V A G A H F V S E I V Q Q T I V V S S R R S V D N P F E E
UniRef90_Q39HT3 A S S D R F K I R I P H L A N D P V I A I G A H L V A M L Q Q T I V A S S R S V D N P F E E
UniRef90_A8S417 G S F E I Q V T G R G V D P I A V A N Q I Y S G L Q Q Q I V V S S R R L D P E T A
UniRef90_Q5B9F6 A A A D S M K L T V P H T T V D P V L V A A H I V V R L Q Q G V I V S S R R L D P D D D
UniRef90_E4SIQ4 H A S M P Q L S N D A I V V A G S Y F V T E L Q Q T L V S S R R L N P F D D
UniRef90_F8FLD2 A S V D G F K I R V S G K G I D P I V V A A S A I V G G L Q Q T A V S S R S I S P H H
UniRef90_L8XP41 A S C L D F I L K V Y G K G V D A I V V A S K L I N D L Q Q T I V I S S R R N I A A E D
UniRef90_T0U3Q3 H A S M P Q L A N D A I V V A G S Y F V T Q L Q Q T I V S S R R I D P F D
UniRef90_B1C3N3 A Q N G E L D V V T K G K G I D A I V I A S Q I I C Q Y Q S I I S R R V L S P V I D
UniRef90_J5H4U3 A S V D H F R I E I E G K G I D A L Y I A A Q T V A L Q A L V T R T T S P I I D
UniRef90_UPI00046AD5A0 A G A A F F D I K V T G K G K D A L I J A A S I A T E L A L Q Q T I V V S R R N T S P M E
UniRef90_UPI00036E42FD A A T D A L H V R M F G R G V D P V V M A A S T V M R L Q Q T V V S S R E I A G N E
UniRef90_UPI00047829A3 A S A D R L T V E V H G R G L D P V P A A C E M V T A L Q Q T M V T R R E F D V F D
UniRef90_UPI00034D03CC A S S S Y R V R V H G E G V D P V L I A A N I V T R L Q Q G V V V S R R E V D P Q A
UniRef90_F9JIM4 S R D P I V A L T S L V N S L Q Q T I V V S S R R V D P Q A
UniRef90_X5X7C7 H A A M P Q L G D D P V L A A G A F V Q A V Q Q R I V V S S R S V D P Q A
UniRef90_UPI0003B4E26F A A S D R F R I V V K G R G V D P I V T A A D L I V G A Q T I V V S S R R T D P Q A
UniRef90_T0TB49 A A V D K F K V T V S G V G T D T V L A I T T I V N N L Q A I V V S S R T V S P F E
UniRef90_UPI000364D71D A A G D T W E V A A M P H M A T D A T V A A A G H F I S M L S S I I A R R N V S P A N E
UniRef90_UPI0004648462 H A A R P H W G N E V L V A A C A L V M N L Q Q S T I V A R R L S P T D
UniRef90_D4YEI9 A S A L N F R I T I K G N G I D P V F V A S Q I I N G A N G I L A R E L S P S N K E
UniRef90_UPI000349B87 H A S A P H T T V D P V L I A A N I V T R L Q Q S V V V S R R E V S P A E
UniRef90_UPI0004781766 A A G E L E V E V P H Q S T D A I W I A A R V V S G L Q Q E A I S R R L D A L H
UniRef90_J5QDI3 A E D N F E I V L P H S G N E V L V A A C A L V T N L Q Q T I V S R R L D P T D
UniRef90_UPI000050FF97 A A F S K M S I T V R G K G T D P I Q V V G A M L V G Q L Q Q T E Y V T R R F D F D
UniRef90_UPI0004781766 A A T D S L R V R M F G R G V D P V V M A A S T V M R L Q Q T V V S R R E V A A G D
UniRef90_B2GJL7 A G A N Y M R V T F H G E G K D P V P A L L E F G T A L Q Q T M V T R R F S V F D
UniRef90_B4FSQ2 A G C G F F K A V T R G R A S D P V V A A A S T V S L Q Q I V S R E A D P L D
UniRef90_R7PNS2 S C D G F K I T V P H M G I D P I N V S F H I Y S A F Q N L I A R E C V P C S E
UniRef90_L8JCE7 H S S V P H K C V N P I T I S A K I I T A W Q S I V S E C V P C S E
UniRef90_F0E148 A S S Q R V S I R I T E G K G V D P I M A L H S L I G A L Q Q T I K S R N L S V D D
UniRef90_B9IDG8 A A V S F F Q V K I E G K G V D P L L A A S F A I L A L Q Q T I L S R R L D P L H
UniRef90_UPI00046A15CE A A A D E L R V T V R G R G A N P I G V L A Q I V V G L P E V L Q R S V S P M H
UniRef90_UPI0003B691FC A A A D N L R V T V Y G K G I D P V V L G A S M V T R L Q Q S I V S R R V A P R D
UniRef90_UPI00036D3A85 G N G T F E I E L H G L C R D P V L A A S A V V Q A L Q Q I V S R R L S P Q Q
UniRef90_E2MTT8 S G I V S I A I R G R G I D P V L I A S E V T L M L N T I V S R D V D P K H
UniRef90_UPI00031C374B A A D S L Q L R L F G R G I D P V V M A A A T V M R L Q Q T I V S R R E I N P A G
UniRef90_R7Z3U5 A A D S F H C T L P H Q T I D P V V M A A S T V M R L Q Q T I R S R R I N P F D
UniRef90_F2F1C7 A S S D S W D V I T F P H L A N D A I I A A S S F V M N L Q Q T I V S R R I N P F D
UniRef90_Q28MA4 A S C D E V V I R I D L G K T R D P I T A A G Q F L A S I H A I V A R R V D P L E
UniRef90_Q39M20 H A A R P H E G I D T A V A V S S M V M N F O S L I V S R R L N P L D
UniRef90_UPI0004665CDF H A G L Y H L G V D A I V I A S S I C Q Y Q N I I S R R V L S P V E
UniRef90_Q2LWIO H A A R P H E T R D P V V L A A Q M I L A F Q T V V S R R E T D P M E
UniRef90_D4MVS5 P H E G I D T A V A V S S M V M N F O S L I V S R R L N P L D
UniRef90_U2HXT8 S S S N L T I T V T G K G I D P V L A L A E I Q T S L Q Q L A I T R R F D A L D
UniRef90_UPI00036F482D D D F T V K I P H N T I D P L A A A S F C T Q M Q S Y A V T R K S K P M E
UniRef90_A3DH51 A S P A E F D I V I K G C V N P I S I G A N I I N M F S S I P K T L S P F K
UniRef90_UPI0003B3D10E A N V D S V D V H V P H T A K D P I A L S A Y I I T G L Q Q T L V S R D I N P L D
UniRef90_UPI0003B480A6 A Y P H T T K D P V L V L A S K I V T S L Q Q T L V S R R L S P Q T
UniRef90_UPI000476281F A A T D A L R V T L H G R G V D P A V L A A S V V L R L Q S V A R R E V S A T E
UniRef90_I9C7Z4 H G A Y P H M T K D P I V L A S A I V M K L Q Q T L V S R R Q N P R D
UniRef90_A1ARR3 A A A D I F S I T R G R G I D P I V V A T R V I H S L Y A I P A R R N I G A L E
UniRef90_J4KFT4 A S T D K F E I A F T G R G C D P V V M A A Q F V T A Q I A A R R N V P L H
UniRef90_N9XJR0 S C I K F K I T I T G T G I D P L N I A S H V Y L A L Q E I P S R E L S A T D

UniRef90_C4ZKY2 S A V V V S V G N V I P Q T A T L R L S T 60 R T S K P E T R V L A K L M K S I T A A F Q
UniRef90_R7BQV8 P V V L T T V G E F H A G S D A Y L T D G T V R R T S F N S P K L V R L A G K A M E R M V A N F A Q
UniRef90_HOUJC9 G V V V T T V L T G N F I P A E D H A R F F E D G L T I R R T L T G L T S R Q D V M K I K E R V R Q E V I A E Y G T
UniRef90_R7CSH0 S G V I T T V L T G N F I P A E D H A R F F E D G L T I R R T L T G L T S R Q D V M K I K E R V R Q E V I A E Y G T
UniRef90_UPI00037B6D1C S L V L S V T T R I L P D E K V M F F E G G T L R R T T H D V K V R V V Q Q R V V T H L V K S L T
UniRef90_UPI00047C164A S A V L S V T T H I I P P S D D V F D M V G G T I R R T T F D D E T G M R I V K Q F A D L K N D T I A E H T
UniRef90_Q5GV32 P A V L S V F G N I I P P S D D V F D M V G G T I R R T T F D D E T G M R I V K Q F A D L K N D T I A E H T
UniRef90_R9MRB5 S A V L S V T T K L I H P D K V M I G G T L R R T L T D D E S R I L K E R I L K S D S A E E G L
UniRef90_UPI000478102A A T V V T T V S F I P E K A I L E V G S Y R R L T D D E P D D R I D R L K E R I L K S D S A E E G L
UniRef90_UPI0002F2E056 T G V V T T V G N V I S D R C D L K L T V R R S Y G S E K E T V R L R E A L T R K R A N A I
UniRef90_A3ZYD9 P A V I T T V G N V I S D R C D L K L T V R R S Y G S E K E T V R L R E A L T R K R A N A I
UniRef90_W7DCH1 S A V I T T V G Q I I A G E E A Y L D G T V R R T L T S K E T M V W A S A I K K R I L A K G A E
UniRef90_S3E331 A A V V T T V G S I I I A G E E A T L K L N V R R T V T T P E T R V L W A S A I K K R I L A K G A E
UniRef90_UPI00037047DB P A V I T T V G N V I S D K A V Q L Q L T V R R A L S D D Q S E L L E L R R L V S E V A T H T
UniRef90_B8C8V4 S G V V T T V T Q V I P A K A V Q L Q L T V R R A L S D D Q S E L L E L R R L V S E V A T H T
UniRef90_R6F7V2 A S V L T T V G N V I P D Q A A V M Q G T L R R A L S D S E E E R I L R R L K R L V S E V A T H T
UniRef90_U6ZRU7 T A I V T T V G N V I P D Q R A E L R L S V R R A L Q D P A V R L R Q R I K S L A E L H
UniRef90_UPI0003709F67 P V V V T V G N I I N S E K A L M K L S V R R A L D D E D V R V L R Q R I H D A I A V S Q
UniRef90_AONZA2 A A V V T T V T E F I P S E K A L M K L S V R R A L D D E D V R V L R Q R I H D A I A V S Q
UniRef90_G9YHP7 S V V V T T V G T V N A G E A H I E G T V R R H F N S D E I K V K D S I R S I L A E N T
UniRef90_A0A011NE30 S A A I T T M G N V I P A D E V V L E M G T V R R S F N S D S R A I K K R L P E L V A Q
UniRef90_UPI000474F25A A A V L S T F T N V I P D N A T M M G C I V R S F N S D S R A I K K R L P E L V A Q
UniRef90_K2MPS0 P A V V S V T Q I H P D R A V T S G T I R R Y F A S D E T V R I L D R V L T K L C A G F
UniRef90_D4YLQ9 P V V L T T V G K F I P D S A Y L A A S V R T F S E N E D K M E A V A A Y T D H I
UniRef90_E4KQY3 P A V L T T V G K V I N C E E T V L E G T V R R T F H S E N E D K M E A V A A Y T D H I
UniRef90_W9CWL3 S A V I T T V G N I I A D E A V L K L N V R R N F N P E T R V L N S I A K R V V K A E
UniRef90_Q7V9Q6 P V V I S F G Q I I P D R V K L L G T V R R A T V A E V R L E T R I R E V T J I K G T
UniRef90_A0A022FVL6 A A V I S V T Q M I P E T A T L K L S V R R A T V A E V R L E T R I R E V T J I K G T
UniRef90_K1KK89 T A V V T T I G T F I A G E A R L T G T V R R T L S P E T R M P E A V G R L A A T T
UniRef90_D1AJF5 E A V I T T V G N I I C D L V A L K G T I R R T F S P D I R I L D S K M R N S V V K F
UniRef90_J5KID6 P A V V S V T G M I I P D T A S L M G T I R R T F D P K L R I V S G L P R Q I A S G L
UniRef90_U2YJP8 P V V L S V T N V I P E K V E I A A T V R R N M S P T S L L Q S G L P R V D G G V I
UniRef90_A8H6Q8 P S V I T T V G N I I S N E V K L Q L T L R R S Y N P E V R L Q Q A L K K E L T S Q
UniRef90_A0A023CZ1 S A V L S V T N I I P R T A T F S G T V R V L G K K E R I R T R F K E L V S Q
UniRef90_Q31J58 N A V V S V T S I I P E H V K L E G S I R R L S Q S P Q W R I N Q L I E D I T H A T
UniRef90_D1Y885 A A V L S V C N F I P D E C R M E G S I R R F F S E Q V D L H A L L E R Q V A A G
UniRef90_UPI0004791C21 F A V V S V G N T I P G T A R I V L N I R R F Y D N D V R L V N A I E R V A R G E
UniRef90_V7FUN9 A S V I S I G R F H C D R V V L D G T L R R T R S P E H R L R V R L E E L A S H T
UniRef90_UPI000476F134 S G V V T T I G S F I K D Q V V L E G D V R R A M G S D R T K L E G E I K R I A S S G L
UniRef90_Q39HT3 S V V I S I A R F I P H E A V L G G T V R R A S N D R A L E R M R A I C S G V
UniRef90_A8S417 P R V L S V C N I I P D C C T M T G T L R R A D K L E V Q M E D D I K R I A Q G I
UniRef90_Q5B9F6 V G V L T T V G N V I S D K A E I G L D F R R S V S L E T R I V G A V K R I V K A E
UniRef90_E4SIQ4 V G S V T T V G S F I K G Q V K L K G D V R R V M N E D T R I R Q Q I E V N G V
UniRef90_F8FLD2 S A V L S V C R F I P D E A V L D G T I R R T F N A E V R
UniRef90_L8XP41 S A V V T T V G N I I K D Y V E M T G T I R R A L S I E T D R V I K S R I K K R I A K F A
UniRef90_T0U3Q3 T A S L T T V G S F I K E T V E T K G D V R R V M K E T T R I H Q S Q I K R M A E G L
UniRef90_B1C3N3 S C V I N I G N I V A D R V E F K G T L R R T Y N E F T K I T D T M Q A I N K G M
UniRef90_J5H4U3 P V V I G V T L N S G T G V T E G T V R T T S A K T R V A R D K V G E T A E N T
UniRef90_UPI00046AD5A0 S C V I N I G N I V A D R V E F K G T L R R T Y N E F T K I T D T M Q A I N K G M
UniRef90_UPI00036E42FD T A V L T T V G N V I P D E A E L E I S I R T Y T S E D V R V L A A V E R I V K G E
UniRef90_UPI00047829A3 P V V V G V G R F I P D E A E F E A T L R A S F S P Q E R V R R A A A R V V R A E
UniRef90_UPI00034D03CC M A V L T T V G N I I P D E A Y F E I N T R A L N D N V Q L E A A L E R I V R A E
UniRef90_F9JIM4 V V V L S V T H I I L P E T A S F E G T V R S F S K A G R A K Q R F M E I V K A G
UniRef90_X5X7C7 A L V V S L T Q I H P S K V W L Q G T C R F F E P A D H C E R L I G D I A Q G I
UniRef90_UPI0003B4E26F P V V V T T F G N I I P D E V E L L G T I R T F D E G M R Q R A D L K N V S E H I
UniRef90_T0TB49 P A V L S V T H I M P E S G Y F E G T M R S F S A E T R L R D S F T K I I E N T
UniRef90_UPI000364D71D R A V I S V G H I I P S R V I V R G T A R S Y V P D V R L E R R L G E I A S G C
UniRef90_UPI0004648462 I G V V S V T E L I P G I A R I L G D A R S F R P E V E I E R Q M R V I A S E G T
UniRef90_D4YEI9 G A S L S M G Y I I P D K V V L E G T S R A L S F P E E H V S K R L P E I V E H I
UniRef90_UPI00034C9B87 T A V L T V G N I I P D E A F L E I N T R A L N E G V Q L P E E A I G R L V R A E
UniRef90_A3YXV4 P V V V S F G R L I A D H V R L L G T V R R A L D T T V H L P G W I E D T V H A E
UniRef90_J5QDI3 I G V V S V T N A L P G L A R I L G D A R S F R P E V L I E K Q M R L I A E G T
UniRef90_UPI000050FF97 P L V I T T V G Q F I P D F A E H L V V S V R T F S D E V R A R E A E L P Q R I V T E L
UniRef90_UPI0004781766 A A V V T T V G N I I P D E A E L Q I N V R F S D T K V R A R E A V T R I V K A E
UniRef90_B2GJL7 P V V A S I T Q V I P D R A S L G A S V R T L S S D E A F P A A V R E L A H G I
UniRef90_B4FSQ2 S Q V V S V A V V N G G E L V L G G T F R A F S N A Y Q L R R R I E E V V T A Q M
UniRef90_R7PNS2 K A S L T L G N I I P D S A V L M G T I R T Y N K D L R A R K R M H E I T E Y Q M
UniRef90_L8JCE7 M G V L A V T K I I P E S A E A G G T I R Y Y Q R E V T M R H K M Q L L A S S I
UniRef90_F0E148 H A V I S I G M I I P D E A C M L L S V R S D T A E T Q I N S Q R L E A L A R G H
UniRef90_B9IDG8 K L M F C F L N V I P S Y F E F G G T L R T T A E T Q I N S Q R L E A L A R G H
UniRef90_UPI00046A15CE P A V L T T V G R F I P E E G S F S G T L R T M D R A E D R V H E A V R R Y V E G Q
UniRef90_UPI0003B691FC P A V V T V A N I I P E T A E F T V N I R R T L T E S V R V L A A V R R I S R A E
UniRef90_UPI00036D3A85 A T V V S V T S I I P A K A T I G G S D E R D Q V N Q I Q S I S S Q V
UniRef90_E2MTT8 M N I V N V G N V I P D T A N L E V S I R S V D E A D W V C Q R I E A V V N G V
UniRef90_UPI00031C374B A A V V T T V G N V I P D E A V I K L N V R S Y D E G V R V L A A I D R I V N A E
UniRef90_R7Z3U5 H A V V S V G N I I P D R A E L K L N V R T M D A K T R V L G S L K R I I E A E
UniRef90_F2F1C7 T A S V T T L G N V I K D S V T I E G D V R T M T P E T R V E S E V R A F T E G L
UniRef90_Q28MA4 P A V V S A C N V I P D I A R V A G T A R A Y S A E V R L E A E I G I V A H G I
UniRef90_Q39M20 T A V L S I G N V I P S H A E L T G T L R A F D E T V R A K S R I D T I C A G V
UniRef90_UPI0004665CDF S C V I N I G E I N G G T V I T F K G T V R T Y S E A V K I V D T M Q A I N H G M
UniRef90_Q2LWIO P A V L T T V G N V I P E T A T L Q S L R A F S R E A E R M I S A L K R I A E G I
UniRef90_D4MVS5 P A V L T T V G S F I A G E A T L E G T A R T F S R Q A Q I E H R V K R I A E K A H
UniRef90_U2HXT8 P I V V T T V T N V I P D T A T L G A T V R V L R D E D A V R Q M I A E V A G N V
UniRef90_UPI00036F482D P V V L S V T M F I P D M V E V G G T I R T F N S D A Q M I S E L K K C L E G L
UniRef90_A3DH51 S A V L S I T C F I P S Q A V V K G T V R A F D R E T H I Y N K M Y S C L I A S L
UniRef90_UPI0003B3D10E T G V V T T V G N I I P E E A H L Q I T V R S F K D E V R L L E G I E R V A V G Q
UniRef90_UPI0003B480A6 P A V V T T V G N I I P N E A T L L T V R S Y S D E T R A K D G I K R I A E G E
UniRef90_UPI000476281F S A V V T V G N V I A D H A T L E I N I R T F D E Q T R V L A A V R R I A R G E
UniRef90_I9C7Z4 P A V V T V G S F H A D Q A K L E L T V R S Y S D A T R L L D G I R R I A R G E
UniRef90_A1ARR3 P V V I S I C S M I P D Q V V L Q G T A R Y L S P E A L L P E L F E Q V L K A E
UniRef90_J4KFT4 A A V V S I A H I L P E R V W M E G T I R L F D A D D R V K K R M E E L A A G I
UniRef90_N9XJR0 P V V L T I I G K F I P E K V V M E G T I R T L S E D V F T F D R V K D L A M N V

UniRef90_C4ZKY2 A E A F G V R Y E L
UniRef90_R7BQV8 A N T F G A K A T F E W T P G
UniRef90_HOUJC9 A N S C G A S A A V S F V E S Y P
UniRef90_R7CSH0 E R S F E V E V R L G L N Q G G Y F P V
UniRef90_UPI00037B6D1C V E A S G G T A E V S W T A G P P V
UniRef90_UPI00047C164A T A L Y G G S F E I E W I P G T P A L Y
UniRef90_Q5GV32 A A A H G A K V E V
UniRef90_R9MRB5 E K A T G C R V N V K I E E G
UniRef90_UPI000478102A A Q A Y G T T C M V E V H P R Y Q P
UniRef90_UPI0002F2E056 E E T F G V T C E L D Y N D D Y P A L Y
UniRef90_A3ZYD9 A Q A Y N A E P T I H Y S E G
UniRef90_W7DCH1 E E A Y Q C E V N F I P G S D Y M
UniRef90_S3E331 C E A S N S P K E P L W E P T S S F P F
UniRef90_UPI00037047DB A I A F G
UniRef90_B8C8V4 A L A H G C K L S L S S F S K D H Y P V
UniRef90_R6F7V2 A K M Y R G S A K I T M L A G T P P
UniRef90_U6ZRU7 A S S F G A R A E V I F G E G Y P V L V
UniRef90_UPI0003709F67 A A S F N A T V T L T H V N G S P V L V
UniRef90_A0NZA2 A T A H D V R I D V D V R R
UniRef90_G9YHP7 A A A Y G G S A T L Q Y E R
UniRef90_A0A011NE30 A Q S Y R G K A T L E F
UniRef90_UPI000474F25A A A A Y G A T A T L A F R P G S Y P
UniRef90_K2MPS0 A E S Y E V E I V P D L R P
UniRef90_D4YLQ9 A Q A H G L T A E V N
UniRef90_E4KQY3 A A M H G G Q V E V D Y T R
UniRef90_W9CWL3 C D A S N T T K E P L F E P T S N F P F
UniRef90_Q7V9Q6 A T S C G A E V V I T Y T P
UniRef90_A0A022FVL6 A A S C G V T V D I A Y E R
UniRef90_K1KK89 A A S R R A E A V V R Y E Q K A L P T V
UniRef90_D1AJF5 V E I L G G K A E I F I R N G Y
UniRef90_J5KID6 E I S S G T K I N V E F D V G G F Y P V
UniRef90_U2YJP8 A S A H G L T A D T R F E T M Y P V T V
UniRef90_A8H6Q8 A M S A G
UniRef90_A0A023CZZ1 S A A Y R V N A K I D W Y V G D P A V Y
UniRef90_Q31J58 S S S Y G V V A E V D I R A R Y
UniRef90_D1Y885 A M A D G C T A E V H W R N W C P P S V
UniRef90_UPI0004791C21 C Y A S G A P V E P V I T Y S D H
UniRef90_V7FUN9 A A M H R G E A D F K L V S G E P P V V
UniRef90_UPI000476F134 E E T F G V T N V L E Y K D D Y P T L Y
UniRef90_Q39HT3 A L A N R T R I E F E L L D G T P A I V
UniRef90_A8S417 A A A N G A F A R V T T G H G
UniRef90_Q5B9F6 C M A S G S P K D P I F T P T R R F P
UniRef90_E4SIQ4 D A T F G V E S Q L D Y D D N Y P
UniRef90_F8FLD2
UniRef90_L8XP41 A N S F D G D A E F
UniRef90_T0U3Q3 A Q T F A V E T S L E Y D D N Y P V L Y
UniRef90_B1C3N3 E N T Y G C K I D F S C P P M Y P P
UniRef90_J5H4U3 A K I Y G G S A K V I W T
UniRef90_UPI00046AD5A0 A I A H D V T V T L D
UniRef90_UPI00036E42FD A A V A G A E R E P E I T P L D S Y P V
UniRef90_UPI00047829A3 A E A H G L R A D A E Y E L S Y P V T V
UniRef90_UPI00034D03CC A A A S G A T R E P D V E R F Q S A G V
UniRef90_F9JIM4 A A T F D V T A E I E W I K G
UniRef90_X5X7C7 A S A H A L T A K L A Y K K G Y P P L V
UniRef90_UPI0003B4E26F A A A N G A T V
UniRef90_T0TB49 A D Q F A A Q V S I E W
UniRef90_UPI000364D71D A A A Q G V E A H L I Y T R R Y P P L V
UniRef90_UPI0004648462 A Q A Y N V G A E V T Y T R E F V P L V
UniRef90_D4YEI9 G K A F R A E T E Y E
UniRef90_UPI00034C9B87 A A A S G A T R E P E V E P F Q K V G V
UniRef90_A3YXV4 C R G Y G G E A R V S Y R
UniRef90_J5QDI3 A L A H T T S A E V N Y T R E F I P
UniRef90_UPI000050FF97 V A A H G L E A E V D Y E R V L P P
UniRef90_UPI0004781766 A A A S G A D R E P E I T P F N A F P
UniRef90_B2GJL7 A A A H G V R A E V D W T V L Y P
UniRef90_B4FSQ2 A R V H G C A A S V D F F E G Q S F Y P P
UniRef90_R7PNS2 G K V F G V T V E Y E
UniRef90_L8JCE7 A E A Y N A E A E V I F E
UniRef90_F0E148 A Q A F G V E I D V Q F T Q
UniRef90_B9IDG8 A A V H R C R A Y I D I N V I E G F P F Y P
UniRef90_UPI00046A15CE A S A F G L E G T L E I V T G E P
UniRef90_UPI0003B691FC A Q S A G A P D P V I E H Y G H M P
UniRef90_UPI00036D3A85 S A S Y G V E C E V N I L F P R Y H
UniRef90_E2MTT8 C Q A H G A Q A T F D W Q I P Y P M V V
UniRef90_UPI00031C374B C A A S G A P K P P E I T T L D S Y P
UniRef90_R7Z3U5 S T A S N A P K P P E L K E I T R Y P F
UniRef90_F2F1C7 E K S F G V T C H L D Y L N D Y P
UniRef90_Q28MA4 A Q A F G V T A D Y R F I R R I P P
UniRef90_Q39M20 A T L S E C D I A V E F R
UniRef90_UPI0004665CDF E E S Y G C K I E F S C P P M Y P P
UniRef90_Q2LW10 A R T G G
UniRef90_D4MVS5 E Q M Y G V D V S V D F Q Q S S H
UniRef90_U2HXT8 A A A H R C S V D I D F Q V L Y P
UniRef90_UPI00036F482D V T T T G L S Y D L D Y M K G Y P P
UniRef90_A3DH51 T S A E G A D F S F D Y N L G Y P P V V
UniRef90_UPI0003B3D10E A Q A F G V P D D L M P V V E V I E P Y T P
UniRef90_UPI0003B480A6 A M A S G
UniRef90_UPI000476281F A A V A G S P Q P P D F E S L G V F P V
UniRef90_I9C7Z4 A I A S G
UniRef90_A1ARR3 C D Y A G A S Y H L E Y Q R P Y I P
UniRef90_J4KFT4 A G L G G H V E I S W K S G A P A V V
UniRef90_N9XJR0 S K A F R G S A L V I E E V V S V P P

UniRef90_U7KQS9 1 A S S S N L T I T V L G K G L D P V I A A L A E I Q M S L Q T T A L T R R R F D A L E E
UniRef90_J1K1S7 S S D T V R I Q I N G K G G H G A V P G A S I I T A L L Q Q T T I V V S A R R N E V I P P L E E
UniRef90_M1MUy9 S A A S I R V V V V H G V G V D P V V L A A S A I V T M R S L L Q Q T T V V V A R R N E V I P P A R E E
UniRef90_UPI00036D4B33 A A G D R V F V K L L G V G G H A L V V L A A A A I V V T S L L Q Q T T V V V A R R N E V I P P A R E E
UniRef90_UPI000423A87A S A D N F V L T L A R G K G G N D P V L V L A A A A D L I V Q R S L L N Q Q G I V V S A R R E V I I N N Q Q D D
UniRef90_T1XAL5 A N V D R F F H A A R P H E G Q D A P L L L A S A Q L I V G A L L Q Q Q I V A S R R E V V V D A P L K E
UniRef90_UPI00032980B9 A A T D F F E T K V I Q G R G G H A T L A A A Q L I V A L L Q Q Q I V V A G R R E V V V D A P L K E
UniRef90_Q5LPN9 A G C D S F K V T I Y P H K G I D P T Y T A A M I V T R L L Q Q S A I V V S R R E V V V M P D G E
UniRef90_U2G9P1 A A D S F D V R I Y G R G I D P I V I G A T I V T R L L Q Q S A I V V S R R E V V V M P D G E
UniRef90_Q2UMV3 A S N D N F D V T I L G Q G A D P I V T L G E L I V S N L L Q Q T T I R S S R R E V I A S P D A
UniRef90_C6VQ20 A N V D S V D I L V K G V G K D P I V L A S R I V V T A L L Q Q T T L V V S R R E I L A S A P L E
UniRef90_N9USI8 A S T D V D I V V H G R G V D P V V T A A H R I V V R L L Q Q T T L V V S R R E I L A S A P L E
UniRef90_S5VJ14 A A S I E I T L H G K G V D P I V L G S A L V T R L L Q Q T T V I V S R R G I A A S A S E
UniRef90_R9SW52 A G C V K F K V T L P R Q R G G T G P I E A L A S M I L A L Q L H T T I K S R R M I S D S F K H
UniRef90_E3EMF6 A S S T T I N I K V R G R G G D V I S A S A S I I C Q L H T T I K S R R M I S D S F K H
UniRef90_J9FVM3 A S S T T I N I K V R G R G G D V I S A S A S I I C Q L H T T I K S R R M I S D S F K H
UniRef90_C6VKL3 A S S T T I N I K V R G R G G D V I S A S A S I I C Q L H T T I K S R R M I S D S F K H
UniRef90_UPI00034C3BE5 A G V E K F K V I T V D G L G V D T V V V T L T S M V Q N L Q Q S R V V A R R T F V S P F E
UniRef90_A6TSC3 A S A D I F E I I I P G Q A I D A V V A A S A V V M D L L Q Q S R V V V A R R E V V S P F E
UniRef90_I3TT82 A S F D E F K V A M P H T T R D P A L A L A E A T C S L L Q Q G L V V S R R E V V N A N S
UniRef90_D4M717 A S S D T F S V T V K G S G A D A L L A S A N C V M S L L Q Q G L V V S R R E V V N A N S
UniRef90_I4Z3L8 A E D N F E I V L K G V G H A L V A A C A T V M N L L Q Q T T L I V S R R R L D A P T D
UniRef90_F4CS46 A A A D T V T V T V T G R G G H A V P A A A M V G A L L Q Q T T M L T R R R V D A H Q
UniRef90_M2NFV5 S A D S M R I T L H G R G V D P I V M A A S T V M K L V V S R R E V V P W D D
UniRef90_X5ZAF2 S S D Q F T L V V P H L G V D T I A I A A A F I N E V L Q Q K V V S R R E V V P W D D
UniRef90_Q1NFP4 A N V D S V D I D V K G T A K D P I V L G S R I V G T L L Q Q T T L V V S R R E Q D P Q D
UniRef90_X2GQ39 A A A D G I Y R I K I K G K G K D S P I V L A A A Q F I T N L L Q Q Q V V A R R G I N A P L R E
UniRef90_C7R4S9 A G D D S L R L T L H G V G V D P I V M A A N V V Q R R L L Q Q Q V V V A R R G I N A P L R E
UniRef90_B8JH16 A S S H Y F N L K L Q K G I D P V V C A N T I M Q S Y S T M Q A R R E I N A V L K
UniRef90_M5DZL4 A S S H Y F N L K L Q K G I D P V V C A N T I M Q S Y S T M Q A R R E I N A V L K
UniRef90_C3WFI7 A S S D G L T V T L L G R G I D P I V M A A A T V M R L L Q Q T T I V S R R E V V D P R D
UniRef90_UPI00035F2D82 A N V D S L D I T M H G R G I D P I T Q A A E L V M S L L Q Q M I I A R Q V D I T A
UniRef90_UPI000479FB45 A S A D E W T L T S G R G V D P L T V A A Q V L L G T Q A I I A R Q V D I T A
UniRef90_Q5LRD4 A S S D R I T I T V K G R G I D M A S V A A D I I Q A T N Q Q I A A R Q V D I V L S
UniRef90_B8GZL6 A S S D R I T I T V K G R G I D M A S V A A D I I Q A T N Q Q I A A R Q V D I V L S
UniRef90_UPI000424CC02 A S S D R I F I D I K G K T Q D P L L V A T H I Y Q G V I N Q G L V A R T I D P L S
UniRef90_R7WJG9 A S A D T F S A F P H E G T D P I E I A S A F I Q L L L Q Q S I V A R R Q T D A N E
UniRef90_T2L3V6 A S T D R F H A A R P H E T V D P I L A G A H V I V T A L L Q Q S I V A R R N A P L A
UniRef90_UPI00041189B5 A S T D R F H A A R P H E T V D P I L A G A H V I V T A L L Q Q S I V A R R N A P L A
UniRef90_A3UDF5 A T S A M F R L T I N G K G D P I V L A S Q I V T N L L Q Q T L V S R R E L D P F E
UniRef90_D0GLG5 A A C D Q L M V R L P H L T S D L V Y A L G K V V T E L P A A L S R R R I D P R A
UniRef90_D7B6R5 S A D A F E V T I T G N G T D A T L A A A Q T V V S L L Q Q I V S R R N A N S E G
UniRef90_H3KHP8 A S G G R V T I T I P H L T R D P V M A A G H L I V A L L Q Q S I V S R R V D P L D
UniRef90_UPI00037C90A3 A G N A E L K V V V R G K G A D P V P V A A E M V L A L L Q Q N L V T R A A S V F D
UniRef90_UPI000367C781 S S D N F K I T V T G R G I D S L D A A V K I Y Q A F N D L I A R E V P A Q D D
UniRef90_K1LKP0 S S D N F K I T V T G R G I D S L D A A V K I Y Q A F N D L I A R E V P A Q D D
UniRef90_A0A010ZW07 A S C D D F T I T L H G H A V D P V P V A A E I V Q S V Q N F A A R C H A D G D
UniRef90_R7MXU5 A S C D D F T I T L H G H A V D P V P V A A E I V Q S V Q N F A A R C H A D G D
UniRef90_A5VJ57 A G S D A L D V T L H G H T V D P V V L G A R S V M A Y Q T I V S R R V D P Q Q
UniRef90_K0C7K8 A G S D A L D V T L H G H T V D P V V L G A R S V M A Y Q T I V S R R V D P Q Q
UniRef90_J9IEZ4 A N V D S V D I T V K G T T K D P I V L A S Q L V L A L L Q Q T T I V S R R E V A A Q D E
UniRef90_UPI0004151A9E A A S G R F H A A M P H N A G V D P I V M V S S A I I S L Q Q S I V A R R E I D P L E
UniRef90_W5F4E8 A A V D Y F D I D V L G K G I D A V L A A A H I V T A L L Q Q S I P A R R N V H P L D E
UniRef90_A1WQQ4 A S G R F N L K V I G K G T D P I T T I C Q L V D G I Q T T V V S R R E V S P L E E
UniRef90_R5Q284 A G N S L K V K I V G R G I D P I M A A A A T M R L L Q Q I V V A R R E I A P L E E
UniRef90_UPI00047A91B4 S V D L Y D V T V T G K T D D P I L A A C Q M I V D M Q Q L V A R R I D P L E E
UniRef90_G4KUA3 S D G G H T A R P H E T Q D T V H A L A Q T V L G L G S A I D R R T D P R S
UniRef90_UPI00029B143D G V D S V D I H I P H R G K D P I V L G S Q I V L A L L Q Q N I V S R R E I A P K E
UniRef90_F7NULO D L F K Y K I L I Q Q S D P I V A S S I I M N L L Q Q T I V S R R N I S P F S
UniRef90_Q8EW51 A A S G R F L I T A T G K G V D P I V M A S S A I I S L Q Q I V V A R R E I D P L Q
UniRef90_M0W3R8 A A S G R F L I T A T G K G V D P I V M A S S A I I S L Q Q I V V A R R E I D P L Q
UniRef90_XOPAR9 A S C N E F T V K I V G K G I N A I N A A Q V Y Q Q F Q T T I P T Y D L P S A H
UniRef90_R5JH48 A A V D T M E V T L H G R G I D P V V M A A S A V M R L Q T T V V S R R E I A P Q D
UniRef90_U2RLJ7 A A C D K V Y V K V P H L T A D L V Y A L A K I V T E L P S A L S R R R V D P R S
UniRef90_UPI00047DFD28 A C D S L R L R V P H L T V D L V Y A L K I I T E L P A A L S R R R V D P R S
UniRef90_W2ENP9 S C D S L R L R V P H L T V D L V Y A L K I I T E L P A A L S R R R V D P R S
UniRef90_UPI00046E9317 A A D A F D V R I P H T T V D P I L L G A S I V T R L L Q Q T I V S R R E V A P G E
UniRef90_A0A017S524 A S S D Y A T I A V P H R C A D P I V A A A S I V M L Q Q T I V A R R E I P P M Q
UniRef90_K2EG49 A G C G F F K A Q I R R A G G D P V L A A S S T I I S L Q Q S L V S R E A D P L D
UniRef90_F2DXS7 S G T S F K L T V I G K G I D P I A I G S E I Y S A I Q Q K L A Y R K I N N P K E
UniRef90_UPI000466D0CD A D S M R I T V Y G R G V D P V V L A A M I V I R L L Q Q T V V S R R E I A P A E
UniRef90_I2AG72 A D S W K V T V H G K S I D P I V A A A A M V L R L Q T T V V S R R E I A P S T D
UniRef90_UPI000464BA6E A G A N T L H V T M H G K G T D P I R P L L E F G Q A L Q T S M I T G S F S V F D
UniRef90_UPI000050FC90 A G A D Q L D V T F H G V G I D P I V M A A N A I L Q Y Q T I V S R R N I D P Q A
UniRef90_UPI00034231E5 A S D C L K V T F H G R G I D P I V M A S S A V V R L Q T T I A S R E V S V E G
UniRef90_C5GEB2 A G V E K F K V T V T G L G V D P I V A V T T M V Q N L L Q Q T T L V S R T V S P F E
UniRef90_F8DJU7 A A D G F F L H I Q G K G I D P I I G T Q I I T Q L Q T T V S R M V T P G E
UniRef90_E2SS38 A G N M G F K I V V H G V G V D P I R P A C E I L Q A I A A I P V N R H D P F K
UniRef90_U2DH60 A N V D S V D L V P H T T R D P I V L A S R I V G T L L Q Q T T L V S R R E L A P Q E
UniRef90_S9QU75 A A C D Q V H T A R P H L T A D L V Y A L S K I V T E L P A A L S R R R V D P R A
UniRef90_Q47LS5 A A C D Q V H T A R P H L T A D L V Y A L S K I V T E L P A A L S R R R V D P R A
UniRef90_U3HF86 A S S H Y F N L K L Q K G I D P V V C A N T I M Q S Y S T M Q A R R E I N A V L K
UniRef90_UPI00046AC739 A A A T Q F S I A V P H E T I D P S P T G V A A V V Q G L Y A I V A R E T S F T E
UniRef90_V5B4U7 A N N D E F H L Q I K G S G K D P V W M A T Y V L Q S L Y S L N G R K V I D P L D
UniRef90_A0A024PDK5 A N T D W F R V D V R G R G H D A I M Y A A E I V N A L L Q Q T I V A R R E I S P Y E
UniRef90_R7D515 A A D L I E I V F P H L T S D L I Y A M G S V I T S L P G T I V A G R R V D P R S
UniRef90_F6EGQ3 A S A L N F K I E I K G K G V D P V F V A S Q L I N G A N G I L A R E L P S S K
UniRef90_B0US47 A A S D C L K V T F T G R G I D P I V M A A S T V M R L L Q T T I V S R R E I A P Q E
UniRef90_UPI0002EB7120 G A D T V D I A I P H S G I D P V V L G S Q I V L A L Q T T L V S R R E L P P R E
UniRef90_F3L3W4 G A D T V D I A I P H S G I D P V V L G S Q I V L A L Q T T L V S R R E L P P R E

UniRef90_U7KQS9
UniRef90_J1K1S7
UniRef90_M1MUy9
UniRef90_UPI00036D4B33
UniRef90_UPI000423A87A
UniRef90_T1XAL5
UniRef90_UPI00032980B9
UniRef90_Q5LPN9
UniRef90_U2G9P1
UniRef90_Q2UMV3
UniRef90_C6VQ20
UniRef90_N9USI8
UniRef90_S5VJ14
UniRef90_R9SW52
UniRef90_E3EMF6
UniRef90_J9FVM3
UniRef90_C6VKL3
UniRef90_UPI00034C3BE5
UniRef90_A6TSC3
UniRef90_I3TT82
UniRef90_D4M717
UniRef90_I4Z3L8
UniRef90_F4CS46
UniRef90_M2NFV5
UniRef90_X5ZAF2
UniRef90_Q1NFP4
UniRef90_X2GQ39
UniRef90_C7RA59
UniRef90_B8JH16
UniRef90_M5DZL4
UniRef90_C3WFI7
UniRef90_UPI00035F2D82
UniRef90_M5TDI9
UniRef90_UPI000479FB45
UniRef90_Q5LRD4
UniRef90_B8GZL6
UniRef90_UPI000424CC02
UniRef90_R7WJG9
UniRef90_T2L3V6
UniRef90_UPI00041189B5
UniRef90_A3UDF5
UniRef90_D0GLG5
UniRef90_D7B6R5
UniRef90_H3KHP8
UniRef90_UPI00037C90A3
UniRef90_UPI000367C781
UniRef90_K1LKP0
UniRef90_A0A010ZW07
UniRef90_R7MXU5
UniRef90_A5VJ57
UniRef90_K0C7K8
UniRef90_J9IEZ4
UniRef90_UPI0004151A9E
UniRef90_W5F4E8
UniRef90_A1WQQ4
UniRef90_R5Q284
UniRef90_UPI00047A91B4
UniRef90_G4KUA3
UniRef90_UPI00029B143D
UniRef90_F7NULO
UniRef90_Q8EW51
UniRef90_M0W3R8
UniRef90_X0PAR9
UniRef90_R5JH48
UniRef90_U2RLJ7
UniRef90_UPI00047DFD28
UniRef90_W2ENP9
UniRef90_UPI00046E9317
UniRef90_A0A017S524
UniRef90_K2EG49
UniRef90_F2DXS7
UniRef90_UPI000466D0CD
UniRef90_I2AG72
UniRef90_UPI000464BA6E
UniRef90_UPI000050FC90
UniRef90_UPI0003A231E5
UniRef90_C5GEB2
UniRef90_F8DJU7
UniRef90_E2SS38
UniRef90_U2DH60
UniRef90_S9QU75
UniRef90_Q47LS5
UniRef90_U3HF86
UniRef90_UPI00046AC739
UniRef90_V5B4U7
UniRef90_A0A024PK5
UniRef90_R7D515
UniRef90_F6EGQ3
UniRef90_B0US47
UniRef90_C4JL91
UniRef90_UPI0002EB7120
UniRef90_F3L3W4

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

UniRef90_U7KQS9 A A S H R C T A Q V D F E V L Y P 90 100
UniRef90_J1K1S7 A E S F G A T A D I H Y R R M Y P C L V
UniRef90_M1MU9 C A A S R S P R E P E F T Y Y D T Y P
UniRef90_UPI00036D4B33 A Q A H D T Q A D I Q Y I E G Y P
UniRef90_UPI000423A87A A Q A N D C K A D L T F E
UniRef90_T1XAL5 A E S H Q L K V I E V K V G S G G Y D M V
UniRef90_UPI00032980B9 A R A F N A G I E V V W Y A G
UniRef90_Q5LPN9 A E A H G A T V E L K Y M Q
UniRef90_U2G9P1 V D A S G S T K E P E F H
UniRef90_Q2UMV3 C L A G G V
UniRef90_C6VQ20 A K M N Q Q T A T I D W D R G
UniRef90_N9USI8 A I A A G
UniRef90_S5VJ14 C L A A G C P S E P T V T V G S T F P V
UniRef90_R9SW52 C A A A R C P E P P E F K Y D Q Y P
UniRef90_E3EMF6 A E A Y G I A A D V D W
UniRef90_J9FVM3 A L M F G V S S E C D F D E K Y P P
UniRef90_C6VKL3 G A T F G V Q V A L D Y D D N Y P P
UniRef90_UPI00034C3BE5 A E N T G A K V S L T W D N T P P V T Y P P
UniRef90_A6TSC3 A A S Y R A E A T L K Y T P G T P P
UniRef90_I3TT82 A A A R G V T A A V D Y R R G Y P V L V
UniRef90_D4M717 V A G Y N C T H E L D Y V Y G V P P L V
UniRef90_I4Z3L8 A L T Y N V A A E V T Y T R E F V P
UniRef90_F4CS46 A L A H G C E A D V R I S S G Y P
UniRef90_M2NFV5 S L A S N A V K E P T Y L T T R T F P
UniRef90_X5ZAF2 A T M H R G S A E F R S Q F G D P P
UniRef90_Q1NFP4 A I A A G
UniRef90_X2GQ39 A T C Y L T K A D Y E Y E F R R G Y P P
UniRef90_C7R4S9 A G A A G S P T A P E V I Y E E R Y P V
UniRef90_B8JH16 A A A S G A P R P P E I T P L D R Y G
UniRef90_M5DZL4 A K A N R C E Y K L D L S L G
UniRef90_C3WFI7 E R A F G V K I N M N F M P F Y P P
UniRef90_UPI00035F2D82 A Q A S G A E
UniRef90_M5TDI9 A Q A H D A E P T F E I S E G
UniRef90_UPI000479FB45 A A A S G A T A Q L E
UniRef90_Q5LRD4 A A A H G V R V A V T F
UniRef90_B8GZL6 G D R Y G A K A E V A F T Q P Y P V T Y
UniRef90_UPI000424CC02 G A A F G M E A S I K L G P V S H P
UniRef90_R7WJG9 L A P T G V I E Y E I E Y R R G V P P
UniRef90_T2L3V6 A K S H G A K S T F T L L E G E P
UniRef90_UPI00041189B5 A A A F G A E A R L A Y E R G Y P V T V
UniRef90_A3UDF5 A M A A G L P E E L M P V M E V I E E T Y T P
UniRef90_D0GLG5 V E S L G G K A D I R L R E G Y A P
UniRef90_D7B6R5 A S A Y G A E A E V T Y R R G V P P
UniRef90_H3KHP8 A A A S G V K A E T R L I E I Y P V T V
UniRef90_UPI00037C90A3 A T S F G V K V S P E L V M G
UniRef90_UPI000367C781 A D G W G M T A D V D T R E G Y P
UniRef90_K1LKP0 A K A T R T Q I N L E Y V A G
UniRef90_A0A010ZW07 G E A H G C A V T V E Y V D S Y P V T V
UniRef90_R7MXU5 T T T Y G G T F D L D V V P
UniRef90_A5VJ57 G C S F N M D V S L I E L N Q G G Y W P V
UniRef90_K0C7K8 A K A A G V P E D P E Y T K G Y A E P V
UniRef90_J9IEZ4 A D T Y G C V A E V K F N D M Y P
UniRef90_UPI0004151A9E G R V A G L P E D V E I K D E Y T P
UniRef90_W5F4E8
UniRef90_A1WQQ4 A A A L G A K V R I R Y Q R N Y P A T V
UniRef90_R5Q284 A K A H R C S T E Y D L L I N G P A V V
UniRef90_UPI00047A91B4 C S A S N A P R D P E F T D I N D S Y P V
UniRef90_G4KUA3 E F V S G C K V D I Y H Y N G Y P
UniRef90_UPI00029B143D A A L Y K I R A E V D Y V Q G V P P V V
UniRef90_F7NULO G R V A G
UniRef90_Q8EW51 C K A Y E C N F E
UniRef90_M0W3R8
UniRef90_XOPAR9 E S T F G V K A D Y Q I T D V P V L Y
UniRef90_R5JH48 E L S T R A S I N L H F E D G Y P
UniRef90_U2RLJ7 S E A S G A P Q A P D V V W G E R Y P V
UniRef90_UPI00047DFD28 A S A Y D V E A S L E Y V R G V P P T V
UniRef90_W2ENP9 A G A Y G V D A E L D Y R R G T P P T V
UniRef90_UPI00046E9317 E I Q F G V K V K E I I T D Y Y P T V
UniRef90_A0A017S524 C H A G R A
UniRef90_K2EG49
UniRef90_F2DXS7 P R V H G C E A T V D F F E N Q S F Y P P
UniRef90_UPI000466D0CD T K A Y K A K Y K F H
UniRef90_I2AG72 C Q A S G S P K E P E F E L V D H F P
UniRef90_UPI000464BA6E
UniRef90_UPI000050FC90 A A A H E C T A E V V W T E Q Y P V T V
UniRef90_UPI0003A231E5 A V A N N L P K E L
UniRef90_C5GEB2 S M A S G A E R E P E I R R T L S F P V
UniRef90_F8DJU7 A K S L E V D V A F E W G V T P P V
UniRef90_E2SS38 C A A Y G A S Y D L D Y Q F S Y
UniRef90_U2DH60 A A A Q G C T V E V T S E A M A P Y P
UniRef90_S9QU75 A R I A R G E A I A A G L P E D H M P V
UniRef90_Q47LS5 V A A Y G V Q A E L D Y R R G V P P
UniRef90_U3HF86 A A S H G C R V A I E H R P A Y P V T V
UniRef90_UPI00046AC739 G A A H G V E V A V S F N T E F I E T V
UniRef90_V5B4U7 A Q A F R C Q A D V K Y G S V S Y V P
UniRef90_A0A024PK5 I T A L I G G E Y S L K V N R G E P
UniRef90_R7D515
UniRef90_F6EGQ3 M A P T G V D Y E I K Y R R G V P P
UniRef90_BOUS47 G K A F R A E
UniRef90_C4JL91 G Q A S G A
UniRef90_UPI0002EB7120 A A T Y G V T A E L E Y Q P L C I P T V
UniRef90_F3L3W4 G R V A G

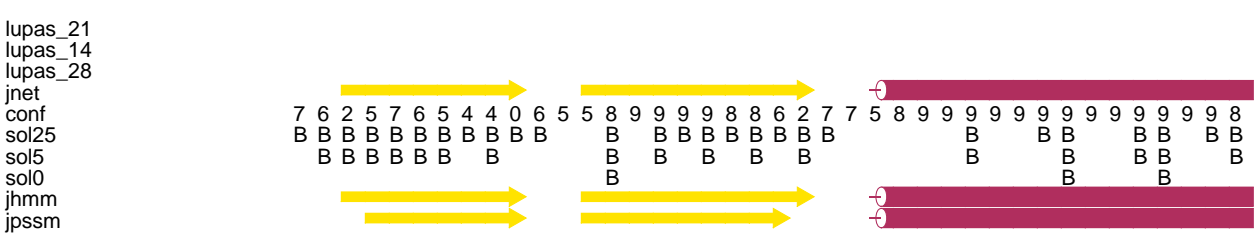
UniRef90_H3NV33
UniRef90_J2KFM5
UniRef90_A4AA81
UniRef90_UPI000307FEB4
UniRef90_R1GBI7
UniRef90_UPI00031DF326
UniRef90_UPI00036C6556
UniRef90_F0S4M6
UniRef90_UPI000248582F
UniRef90_UPI000369FC28
UniRef90_D2SBJ1
UniRef90_UPI00047D7952
UniRef90_W1N2L6
UniRef90_R6Q7Q9
UniRef90_UPI0003790EAO
UniRef90_R5AYI6
UniRef90_Q0SCK7
UniRef90_A3ZKZ2
UniRef90_Q2RH29
UniRef90_L7LLE4
UniRef90_D2SG63
UniRef90_UPI000476096C
UniRef90_J7GI15
UniRef90_H0SVD9
UniRef90_S3P286
UniRef90_W9C1L8
UniRef90_UPI0004738CB0
UniRef90_UPI00046866DC
UniRef90_J2JE02
UniRef90_A0A059G6K4
UniRef90_UPI00040367F3
UniRef90_UPI000371FB1C
UniRef90_UPI00038137B5
UniRef90_I7C4A1
UniRef90_UPI000367EB27
UniRef90_D9VUZ9
UniRef90_R9B237
UniRef90_UPI0003B7B680
UniRef90_N8QC32
UniRef90_D5VIA6
UniRef90_U6H5A3
UniRef90_C6PTD4
UniRef90_U1GTQ0
UniRef90_U2G8A5
UniRef90_R5B5E4
UniRef90_F2R1R4
UniRef90_UPI00021924D6
UniRef90_V9XDZ7
UniRef90_S3ZM40
UniRef90_UPI000370002D
UniRef90_UPI000363FBDD
UniRef90_G2IKD7
UniRef90_UPI0003B426B0
UniRef90_W5BH82
UniRef90_D0GM27
UniRef90_S3BK65
UniRef90_D9QL90
UniRef90_Q5WM10
UniRef90_UPI00039B05F7
UniRef90_R7Q6D8
UniRef90_G8WCJ5
UniRef90_U2F1J6
UniRef90_D7AV76
UniRef90_B8I9C5
UniRef90_D7GUE9
UniRef90_UPI0003803856
UniRef90_M1USI8
UniRef90_L7UD91
UniRef90_Q2YAR5
UniRef90_UPI00037FBFFB
UniRef90_M7MTC0
UniRef90_A3XE45
UniRef90_UPI0003624689
UniRef90_H1CGB2
UniRef90_E2SFU2
UniRef90_UPI00016C4BC6
UniRef90_R6VFG1
UniRef90_R6B9J5
UniRef90_UPI000255E566
UniRef90_UPI0004276C4F
UniRef90_U6GBQ1
UniRef90_A0A022MUC0
UniRef90_D9VVK5
UniRef90_Q3DHV5
UniRef90_L7L7G0
UniRef90_E2MUF6
UniRef90_G8S4F3
UniRef90_UPI00031F1224
UniRef90_C7R2B4
UniRef90_UPI00037E3193
UniRef90_UPI00036ED7C3
UniRef90_A4X360

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

UniRef90_H3NV33 P G V I T V G N I I S D A A K L Q L T V R S E S P E D R L L D G L K R V A V N M
UniRef90_J2KFM5 F G V V T V G N I I S D D R A L L L E L T V L R R S Y S Q P E V R L L S G I E R A I A V E K Q
UniRef90_A4AA81 P S G V V T V G N I I S D D R A R L L L E L A N V L R R W F S D P E V R L L S G I E R A I A V E K Q
UniRef90_UPI000307FEB4 S A V L T T V G N I I P A A A Q T L G L D L V L R T F S D N Q R R R L L S D A V R R I I V D A E
UniRef90_R1GBI7 A A V V T S V G N I I P E E A A T L K L K L H F S D N A T N Q A Q E E I T N R R A T G I
UniRef90_UPI00031DF326 V S V L T T V G N I I P E E A A T L K L K L H F S D N A T N Q A Q E E I T N R R A T G I
UniRef90_UPI00036C6556 P T I V L T T G N M L Q P E D A T I K L N L R T F S D A V R D R A A I E R E I V Q A E E
UniRef90_F0S4M6 N A V L T T G N I I P E D A T I K L N L R T F S D A V R D R A A I E R E I V Q A E E
UniRef90_UPI000248582F F G V V T S V G N I I P A T A T L V Q G T L R R F Y S D A V R D R A A I E R E I V Q A E E
UniRef90_UPI000369FC28 A T V L T T W G R N V I P A T A T L V Q G T L R R F Y S D A V R D R A A I E R E I V Q A E E
UniRef90_D2SBJ1 P A V V T V A N V I P D T A Y L Q G T L R T L S S P E R R V V A S V R R V A T H V I
UniRef90_UPI00047D7952 S G V V T V T Q F I P T A A T L L S I N T R T D G S S P E A R R L D Q E L R E W V I A Q I
UniRef90_W1N2L6 A G V I T V A S F I P G T A E L L V N V I R R S D S S E A R R L A G N L E A L V G G I
UniRef90_R6Q7Q9 P I A V M F G H I I T D S V K L G G T I R F L D S E E V K V L A A F E R V I A G T
UniRef90_UPI0003790EAO G A I L T T L N I I C P E E V V M T G T L R T F S S P E R R L L Q K V I R E V I A E G V
UniRef90_R5AYI6 D A L L T L G N V I A E E V V T S G T L R T V F S S N D L Y L S H K R I R A A L M E Q G L
UniRef90_Q0SCK7 P A V V T V A T F I A D R A E F T I N V L R T L D D P E V R V N A A L R R I I Y A E
UniRef90_A3ZKZ2 A V V L T F G R I I P E G E V E L L T G T L R T L D D T D V R Q R D H L H R I A S A G V
UniRef90_Q2RH29 P A V L T V G N I V A G E V T L T G T L R A L N N V M R L E K D M R Q V L A G V
UniRef90_L7LLE4 T A V L T V G N V I P T Q A L L K A N L R W Y D P A V R M L S A V E S V A D G I
UniRef90_D2SG63 G M S L V W G N A I P Q R G H L S G T V R V L D D R D A W A E T L L R E S L V E R V
UniRef90_UPI000476096C R A V L S V G N V I P E S V E L E G T L R T S F D P A V R V L A S V R E I A R A V E
UniRef90_J7GI5 S V V L S V T R I L P E S V E L E G T L R T S F D P A V R V L A S V R E I A R A V E
UniRef90_H0SVD9 F G V V T V G N I I P E D D A V V G T I R S F K P E V R I L A G V E R T A K A V
UniRef90_S3P286 M G V V S I G S Q L Q P E Q V V S M I G T I R S N H E D I R I Y K N L R T M I D H T
UniRef90_W9C1L8 H A V V T C A S F I S D D A T T I D I R A N D E T T R L Y N G V L R I V K A E L
UniRef90_UPI0004738CB0 P V V I T F G K I N A E K V N L I G T V I R Y F N K D E V Y A A A R M Q A I C D G F
UniRef90_UPI00046866DC T C V L S V T Q M I P E V A T L A G T I R Y F N K D E V Y A A A R M Q A I C D G F
UniRef90_J2JE02 S A V L T V G N V I A D H A V L Q L N I R T Y S D A T R I L G A I R R E V I A E
UniRef90_A0A059G6K4 F G V I S V G N I I P D T A R V R G T V R T W Y K S P A V K L L A G V A K R T A E A L
UniRef90_UPI00040367F3 P A V V S V G N V I P G E G R V F A T I R T T S P A E R L L A Q V A S F A E H Q
UniRef90_UPI000371FB1C P A V L T V G N S I P D R A E I A L N I R A F S E Q T R V Q E A V E R V V R A E L
UniRef90_UPI00038137B5 S T V M V W G N A I P Q E G R L R G T V R T G D H A T K I N R R L R E E I E G L
UniRef90_I7C4A1 H A V I S I G M I P D T A S M L S V R T D T P E T K I N R R L R E E I E G L
UniRef90_UPI000367EB27 S T V M V W G N A I P Q T G T L A G T I R T A S R D A W V E M E S I V R E I
UniRef90_D9VUZ9 Q V A V I T V G N V P E Q R A E L G T V A G E N A E L A R A A A V E R L V R A E
UniRef90_R9B237 M G V I S I G S F I P D E Q A V N M V G T I R S N N E D I R L K N I P I M L E H N
UniRef90_UPI0003B7B680 T A V L T V G Q F I S D E A V L G I S I R T V N D A V R V I E T M H R V I R A E N
UniRef90_N8QC32 M G V V S I G N V I P D I A R V N M I G T I R T S N S E N I R I L K D L P K M I E H N
UniRef90_D5VIA6 F G V V T I G N I I P D I A R V N M I G T I R T S N S E N I R I L K D L P K M I E H N
UniRef90_U6H5A3 A S S G F V F N V I P S E C T L K G T L R A F S N E R E L Q L R L R Q V V Q R T
UniRef90_C6PTD4 P I V I S V G K F T G G T T E L D G T M R Y F S D R K I R A H E A I K R S H A K A I
UniRef90_U1GTQ0 H N T L S F T N I I P D Q A E L L G G T M R Y F S D R T Q L F S V L D R S C K A A
UniRef90_U2G8A5 P A V L S V G N V I P G A G L I K A T V R T S S N R T I S K A V K K F A E Y T
UniRef90_R5B5E4 F A T L T V G N I I P G A A E M A L S I R T L D D P D V Y L L K R V P E V A N G Y
UniRef90_F2R1R4 P V T V S I G H I V G Q T V T L W G T V R C E S D M V R V Q Q R L T T L A E H S
UniRef90_UPI00021924D6 A G V L S I T H V N P E E A F F E G T V R T A S A S A R
UniRef90_V9XDZ7 G T V M V W G N A I P R T G M L A G T V R T G D H D T W L E P M V R E L V H G L
UniRef90_S3ZM40 G L S V T W G R I I P Q H A E L S G T I R C L D T W R Q A P D V V H A A I Q E I
UniRef90_UPI000370002D Q A V V T V G S F I P D R A V V R L S V R S F D Q N V R
UniRef90_UPI000363FBDD G L V M V F G N A L P N T G F A R A T V R A N N Q R D R L I D G I R R I A S S I
UniRef90_G2IKD7 P G V I T V G S F H A E Q A K L E L T V R A N N Q R D R L I D G I R R I A S S I
UniRef90_UPI0003B426B0 A A V L V W G N V I P A Q G E A L G T L R M L D P E L W V E P I F T E T V D A V
UniRef90_W5BH82 S Q V L S V T Y L T P G V V E F G G T L R S L T T E Y R L E K R L K E V
UniRef90_D0GM27 A V V V S V G K F N G P V T T E L E I S M R Y F N P E A R V H E A I I R H T K S I
UniRef90_S3BK65 G L A L T W G R I I P Q R A E L S G T L R C L D L P T W A P D L V H A A I D E V
UniRef90_D9QL90 T P T V S F T Y N I I P E E A T L A G T L R T F D I L A Q R L V A R A E A V D H V
UniRef90_Q5WM10 P A V I S I G Q I I P E I V E V E G T I R T Y N D D V R K K L T E E V A F A V
UniRef90_UPI00039B05F7 S L V W T V T N A I P R T G K L R G T I R T L S R E T W A P E L V E R L A E Q I
UniRef90_R7Q6D8 P A A V A F T S V I P S Q V R V C G F R T L D T Q T K I L K Q L R R H A A G A
UniRef90_G8WCJ5 S V V L S V T R I Q P E S V E L E G T L R T H S S A V R V K A R V S E I
UniRef90_U2F1J6 V V P L S I G N I I P E T C E F W G S I R Y F E V E T R C Q E I K Q V T E D T
UniRef90_D7AV76 M A V L T V G N I I P D E A Y L E I N T R A L N D N V Q L E A A I E R L V
UniRef90_B8I9C5 P V I L S V G K F N G G T T D I D I S M R Y F N T N V R V E A I K R H A K A I
UniRef90_D7GUE9 H A I I T F D Q I I C D E V E I N G I C R T F N P E T R L N R R I D E T L K G I
UniRef90_UPI0003803856 P A V L T V G N I I P D S A T L K V G L R T W Y T E A D R M K G I K S V T D N I
UniRef90_M1USI8 G T V L V F G T I I P D S G V V S G T L R T A D I G T W R E M R V H A E L V E Q V
UniRef90_L7UD91 G A V I S V G N V I P D E A V L E L T V R T P T D Q K Q V L E S I T R M A K A E
UniRef90_Q2YAR5 A A V V T I G N V I P D E A V I K L N T V R T F D A D V R V L A A I E R T V
UniRef90_UPI00037BF5FB H A V L T V G N V I P E T A E L L N T A R A F T D S D R L L A A A T R V V R G Q
UniRef90_M7MTC0 Q A V L T V G Q I I H A G T A T L G L S I R T F H E S V R A K S S I E R V V H G E
UniRef90_A3XE45 A G V I S F G N I I P E A V R L E G T M R T S T S V R A D A D L L Q D A V R A T
UniRef90_UPI0003624689 G L A V T W G N V I P Q R A V L A G T V R C L D I W R Q A P D L V H A A I D E V
UniRef90_H1CGB2 T A I L A I C S M I P E I C E M A G T L R C F D R A Q R L V E R I R E I V E R E
UniRef90_E2SFU2 G A S M V W G S I P A T G E L T G T L R M L D A W H Q A E H L V R G L I A D I
UniRef90_UPI00016C4BC6 P V V V T V G S I H G G T
UniRef90_R6VFG1 G R V A G A T N I V P D E V C M E G T L R T F D E R Q R I H R R I G I I A A D I
UniRef90_R6B9J5 T F V L T V G M M I A D E V E L V G T M R A F D K A F R L P Q L I E A C A A K E
UniRef90_UPI000255E566 A A V I T I A N I I P A T A E F T V N M R N L D A D V R L L G A L R R I V L A J A E
UniRef90_UPI0004276C4F G T V L V W G A V H A G E A L L R G T L R T G D H D V W A D L E P L V E G L
UniRef90_U6GBQ1 V S S G F V F N V I P S E C T L K G T I R A F S N K R E L Q L R L R Q V V Q R T
UniRef90_UPI0004276C4F G L A V T W G R I I P Q H A E L S G T V R C L D I W R H A P D I V V A I D E V
UniRef90_D9VVK5 G M S V T W G R I I V M H A E L S G T V R C L D A W Y E A P D M I H A A I D E V
UniRef90_Q3DHW5 T A V V T I G S F I K D S V T L E G D V R T V M S E E T R V E E E F K R I L D G I
UniRef90_L7L7G0 G T I M G W G N A I P Q E G R L R G T V R T G D H Q V W A E L E P L V R G I
UniRef90_E2MUF6 G T V L T F G N A I P S E G S V S G T L R T A D I K T W I D P L V R D L I E Q V
UniRef90_G8S4F3 G V S L V W G N A I P G T G E A S G T V R N R D A W R E A P E M I T K L I H S V I
UniRef90_UPI00031F1224 A A V I S I G Q I I P T E V L I E G T I R S Y S A E I R N L L E L E K K A F S I
UniRef90_C7R2B4 G V N L T W G N A I P A S G L I M G T L R C L S T W E Q A Q H V L N D T V T H V
UniRef90_UPI00037E3193 G A A L V W G Q V L P A A G S V S G T L R V L D V W R T A A D L I E K L V H E V
UniRef90_UPI00036ED7C3 G T V L V W G A V H A G E A L L R G T L R T A D H V E T W L E P L V E S V Q A L
UniRef90_A4X360 G L L L V F G H V I P S E A G A S G T L R V M D R D T W A P K V A A Q V V Q D V

UniRef90_H3NV33 G R V A G L P D D P E V I V Y E G E G V P P 90 100
UniRef90_J2KFM5 A E A L G
UniRef90_A4AA81 A R G A G M P D E L
UniRef90_UPI000307FEB4 S A A G A
UniRef90_R1GBI7 A R S N G V T E E
UniRef90_UPI00031DF326 A A S Y G V Q A D V K I D S G D G Y E V
UniRef90_UPI00036C6556 C A A S N A P R D P E F T P I D S Y P
UniRef90_F0S4M6 C A A S G T P A P A D L V Y S A H
UniRef90_UPI000248582F L A A Y G I D W D L E W I Q G V P P
UniRef90_UPI000369FC28 A A A H D M E I D F V H R Q G Y P
UniRef90_D2SBJ1 C E A H G A T A A V E
UniRef90_UPI00047D7952 C S A H G A E F A I E H L Q H V P P L V
UniRef90_W1N2L6 C M A L G L E Y K I K Y I P
UniRef90_R6Q7Q9 A A T H R G R V E F S C Q S G E P A V V
UniRef90_UPI0003790EAO E T A T G A Q I D M D R K V R Y P
UniRef90_R5AYI6 A D A S G A
UniRef90_Q0SCK7 Q R A T D T T I E V C F D V G
UniRef90_A3ZKZ2 A A A S G T E I D L D Y L W G Y P P L V
UniRef90_Q2RH29 A R T Y G
UniRef90_L7LLE4 A A T T G A D V E V D Y V R G V P P V V
UniRef90_D2SG63 S D A A G A P R H P D V R H T G A F P V
UniRef90_UPI000476096C A S A F S A Q I D I T W F A G
UniRef90_J7GI5 A M M A G A
UniRef90_H0SVD9 A Q A N D V K A K V E I S P Y A P V
UniRef90_S3P286 S V A S N A V A E P T I I P T R S F P V
UniRef90_W9C1L8 A N S C G A E A K V I T F R E
UniRef90_UPI0004738CB0 A L A H D V T I S L E
UniRef90_UPI00046866DC C H A S R S P R D P E F E L F D R F P
UniRef90_J2JE02 V A M A G A D A E I S V R S G G
UniRef90_A0A059G6K4 A L A F G C T A E L T H T E G E P E
UniRef90_UPI00040367F3 C W A S N A P R E P S F E L F G R F P V
UniRef90_UPI000371FB1C L A P L S V R Y D M I Y K R G V P P
UniRef90_UPI00038137B5 E Q L Y G V T I N L
UniRef90_I7C4A1 V S S L L E P L N V D H T V L Y R R G V P P
UniRef90_UPI000367EB27 C A A S G C P R E P E I V R E G S S P V
UniRef90_D9VUZ9 A L A N D V Q A K V E I
UniRef90_R9B237 A E A S G A E K E P E I I G E E S F P V
UniRef90_UPI0003B7B680 A L A N D V T A K V E I S P Y A P V
UniRef90_N8QC32 V D M A G A P A D V K L N P G G K M V V
UniRef90_D5VIA6 A E A F R C S L R V R H L Y T N T P
UniRef90_U6H5A3 A D A Y E L K V D V I T E E S A L S L Y
UniRef90_C6PTD4 E I L T G A K A E W K P L V G L P P V V
UniRef90_U1GTQ0 A Q S F D C T A D V S Y I E G E P
UniRef90_U2G8A5 I T A W R G K Y T L R L H
UniRef90_R5B5E4 A A A F G A T A T V E Y L Q P V P P
UniRef90_F2R1R4
UniRef90_UPI00021924D6 L A P T G V S Y E L N Y R R G V P P
UniRef90_V9XDZ7 A D L Y R A K S E I N Y V R G V P V V
UniRef90_S3ZM40
UniRef90_UPI000370002D L A G T G A K A S V K Y T R G V P P
UniRef90_UPI000363FBDD A T L N G M S
UniRef90_G2IKD7 V A P Y G V K A T V H Y T K G V P P
UniRef90_UPI0003B426B0
UniRef90_W5BH82 A E A Y E I K V D V R I E E S T L S L Y
UniRef90_D0GM27 A T L H R A K C E L T Y V R G V P P V V
UniRef90_S3BK65 A E A Y G A T A D F S V R Q N
UniRef90_D9QL90 A N V F G G E G A C T V K R G E P A L V
UniRef90_Q5WM10 V A P Y G A E I A V D Y V R G V P P V V
UniRef90_UPI00039B05F7 A T M H G C Q G N V L F T D G Y P
UniRef90_R7Q6D8
UniRef90_G8WCJ5 A K V F G C E V E
UniRef90_U2F1J6
UniRef90_D7AV76 A D A Y E I K V E V I I E E S T L S L Y
UniRef90_B8I9C5 T M T F G G T Y E F E
UniRef90_D7GUE9 A R M Y G
UniRef90_UPI0003803856 L A P T G V K H E L I Y N P G V P P
UniRef90_M1USI8 C E A
UniRef90_L7UD91
UniRef90_Q2YAR5 A A A A G A P R D P D L T V T V R S P
UniRef90_UPI00037FBFFB A M A S G S P M D P V I T F D E H F P
UniRef90_M7MTC0 E L L F G V L T E I D V E
UniRef90_A3XE45 A T L Y G A K S Q I D Y V R G I P P V V
UniRef90_UPI0003624689 A A C Y R A E G T V E
UniRef90_H1CGB2 I E P F G V S A D V V Y V R G V P P V V
UniRef90_E2SFU2
UniRef90_UPI00016C4BC6 D A R H G I R T E V A V S R G Y P C V V
UniRef90_R6VFG1 A E G Y G C R A E C S Y R F G P S P
UniRef90_R6B9J5 A M A S D A P E P V I E E I Y T F P
UniRef90_UPI000255E566 V Q S L L A P T G V G Y E L H H R R G V P P
UniRef90_UPI0004276C4F A E A F R C S L R V
UniRef90_U6GBQ1 A N L H K A K S E I N Y V R G V P P V V
UniRef90_A0A022MUC0 A T M H G A K F E I N H V R G
UniRef90_D9VVK5 A Q T Y G V S Y Q L D Y Q N D Y P V L V
UniRef90_Q3DHV5 V G E L V S P L G V S Y H L N Y V R G V P P
UniRef90_L7L7G0 L A P T G A D C T I N Y E R G V P P
UniRef90_E2MUF6 V A A T G A G V E V E Y R R G V P P
UniRef90_G8S4F3 T E H L G G G Y F L N V Q R G E P A L Y
UniRef90_UPI00031F1224 A S A Y G V E V A V H H Q R G V P P
UniRef90_C7R2B4 A A P Y D V T V D L D Y V R G V P P V V
UniRef90_UPI00037E3193 L A P T G A G H E L H Y Q R G V P P V V
UniRef90_UPI00036ED7C3 I A P T G A T V D L D Y Q R G R P P V
UniRef90_A4X360

UniRef90_Z5X6L2 S T V M V W A N A I P Q S G S L A G T V R T A S R E T W V G M E S L V Q E I
UniRef90_UPI00034C6279 K G V T S V T N I I P A K T S L R G T I R S Y T P A I R L E R E L H Q V F Q M V
UniRef90_L5MZN5 P A T V K M T M I I P D K A R F A L D L R A Q T N M D E L V G R V R Q M I E G I
UniRef90_F8A2M6 G V N L T W G N V I P G T G H V R G T L R C L D V W E K A S Q V F H D A V E Q V
UniRef90_U7KUY6 G T V L V F G Q V I P E T G S L T G T M R T A D I W R D M Q S L F T E L V D Q I
UniRef90_UPI000237990A G T V L T W G N A L P Q D G V L T G T L R T G D R D T W L E P L V H E L V H S L
UniRef90_H7E5G0 M G V I T V G K F N A G T A D M T G T V R S N H N E V R L I K R I
UniRef90_H6MUD1 G T V M A W G N A I P Q E G M L R G T V R T G E H G T W M E P L V R S V I G E I
UniRef90_U5D466 T V V F S V T N V I P D K V T F G R T L R S M T S E S N L A R R I R E V I E A Q
UniRef90_M5RBK5 G T V L V F G Q V I P E T G S V S G T M R T A D I W R D M Q T L F S E L V E Q V
UniRef90_C3PLD1 A V S V V W G N V I P A H G F M A G T M R C L D G E A W A G E L L D E V V K Q V
UniRef90_N1V274 T V I T I G K I P S E V V L K G T V R T L S E T N R I E S R V Q A I A T S V
UniRef90_X6BC79 R N I V H M G H F V P S H G Y L E G T I R T Y D T Q D L V K N Q M E R I A E S V
UniRef90_H0DHJ9 F H L L H F G T F V S D H A K I Q G T I R Y F E P F V Q I M Q E I K E I E S V
UniRef90_R9LR12 G L S L M W G R I H A G S A V I E G T L R A L D E W R K A Q A L L G E L V S Q I
UniRef90_F5XPL0 G V S V V W G Q I I P G T G Y M A G T M R C L D R D A W A G E L L D D V V R Q V
UniRef90_A1R471 N V L I G V G K V T A G D A Y
UniRef90_S3LDZ4 A I S L V W G H I I P S T G L L A G T L R C L D V W N Q A A E V L P D L V E R I
UniRef90_UPI00047456B2 I V T L G T G N V I P D K A N L K A T L R F F E D E V K A L J E K L K D V A C K T
UniRef90_UPI0003133C84 E A V V S V G N V I P S E V Q I E G T I R C Y D E T V R
UniRef90_UPI0004717369 T V I T I G K I
UniRef90_UPI00042B1C24 S Q V C L M F C
UniRef90_UPI0003133C84 P A V F G C G M F I P D Y V Q A R G T I R A M D A E T
UniRef90_E5V510 T L V I T L G K S T K N N A S I T G T I R H F N K E
UniRef90_W1J919 P A V F N C G M I V A D H V I Q A Q G T I R A M D K E T D L K N S I Q E I I A R
UniRef90_I0U6H4 P A S I K M T R F I P D Y A E F A L D L R A Q T N E V Q L V E G L N D I V K G D A
UniRef90_F6FPV8 G V N L T W G N A I P A T G S V S G T L R C L D V R A W E R A G Q V L H D A
UniRef90_G2SX84 T V T L G V T N V I P D T A D I L G S L R F F N D E E K A V R I F K N V A E H T
UniRef90_A0A033V300 R N I V H V G Q F N P E N G Y L E G T I R Y D T N D L V K N Q M Q K I A E S V
UniRef90_F9MY50 I N S D F P T N V V I P D K T L C K G E L R S H S Y E Q S V L N S Y E S I C K E V
UniRef90_I3Z2J9 I T V T H A F G T T P G D A T V M A T I R A Y E N E T R L V H Y A E K L C E Q I
UniRef90_G9YG09 S L T Y S I G C I I P S E L S F A G T M R C T D N D N G L A F R E K T A C A R I
UniRef90_L0KV41 H V F G F G N I I P D E V Q I F G S F R T F N E M V T I E N A L E N I L G S I
UniRef90_UPI000361B983 P A G T G V T N V I P G V V E I Q F N F R F S T A S T A L M D A M H E L L D
UniRef90_W7QXC1 P P T S F Q T N V V P G E M H V Q F N F R Y S T E V T A E I L V E R V H S I
UniRef90_F4FBU3 L V A F N I G T Q V A Y A E A T G T L R T L D E G T R L K V V I E R V A R Q Q
UniRef90_Q6LPC0 P A V F V C G M F N G G T V I Q A R G T I R S M D P E T
UniRef90_S2YJP6 R N I V H I G H F H A G E A Y L E G T I R T Y D M D D L I Q N Q M Q K I A Q S A
UniRef90_H6NHL1 P T V G T V G N L I P E R V S F T V D L R D I D L E R R I E L R L R R L I D E T
UniRef90_N8WH89 P A A L S V G N A V P S S A L V K M N I R W F N P K V R M L N S I K L M S D G A
UniRef90_K9ET33 H N I L H I G Q V R A G E A Y L E G T I R T Y S D L Q V I K E S L S K L V E S V
UniRef90_R5Z6W1 F Q S G T V G N A I S A H S H L E G T M R A F Q D E V F L Q K S I I E S A H T M
UniRef90_R5PRR6 P Q A G T V R N A I A A H A H L E G S L R V F S E S V M G R D R L Y A L G E Q I
UniRef90_MOM1L1 I N A G M V T N I P E E A F I E G E V R G R T T E E Y M R E R A E Q V L E S A
UniRef90_K8X8D5 A P V L T T G N I I A D D A E L L L S L R T F T P R E R M L T A I R R L
UniRef90_C8VYW5 I G V I C A T N I V P D L V K I E G E T R S L D V S K R Q A Q N I C R A I E Q A
UniRef90_UPI00047EF088 I S G G K Q T N I V P D D C I I L G E I R S L K D E R A L K E K L R E I F S R T
UniRef90_A0A014LW40 A C D A G V T N S V P D E A R V V F D L R A A E N E D M L Q Q K V E R A I L N S



```

UniRef90_Z5X6L2      V S G L L A P L G I E H T L H Y H R G V P P
UniRef90_UPI00034C6279 H S L G G E Y Q L N V S R G E P A L Y
UniRef90_L5MZN5      A T S Y Q A S T E L T
UniRef90_F8A2M6      V A P F G V E V E I R H Q R G V P P
UniRef90_U7KUY6      L A P V G V E H E L T Y N R G V P P
UniRef90_UPI000237990A L A P L G V G F D L Q H R R G V P P
UniRef90_H7E5G0
UniRef90_H6MUD1      L A P L R V S Y D L S Y F R G V P P V V
UniRef90_U5D466      S V V H R C S A S L D F M E K L G R P Y P
UniRef90_M5RBK5      E I E N N C K V K M E
UniRef90_C3PLD1      L A P L G V E H E L V Y H R G V P P
UniRef90_N1V274      A A P F G V E V K L E H I R G V P P V V
UniRef90_X6BC79      A K V F G A E A E I E Y R R G Y P T V
UniRef90_H0DHJ9      K A L F N V E C E V K F E E G Y P T Y
UniRef90_R9LR12      K E V Y Q V S I D W H I D Q H Y P L V
UniRef90_F5XPL0      V A P F G A G V E V S L T A G V P P
UniRef90_A1R471      A A P Y G V D V H L E H T R G V P P V V
UniRef90_S3LDZ4
UniRef90_UPI00047456B2 A G P Y G V D V E L D H R R G V P P
UniRef90_UPI00030106A3 A N I Y D C K V K F D Y T R I V A Y P V
UniRef90_W7Z6D9
UniRef90_UPI0004717369
UniRef90_UPI00042B1C24
UniRef90_UPI0003133C84
UniRef90_E5V510
UniRef90_W1J919      S E A G G F K A T M A Y V
UniRef90_I0U6H4      A A I Y H A D I R L
UniRef90_F6FPV8      V E Q V V A P Y D V D V T V R H A R G V P P
UniRef90_G2SX84      A A M N N C Q V I Q F D
UniRef90_A0A033V300 E L L F G V T C T V D F A E G Y P P
UniRef90_F9MY50      C E R F D A S Y D F D Y I Q A Y P
UniRef90_I3Z2J9      A K E Y M L E I S F E Y V E E F
UniRef90_G9YG09      A E E Y G C T A E F V E D Q Y I P V
UniRef90_L0KV41      M N K Y G V S Y E L D V L H G Y P V L V
UniRef90_UPI000361B983 S H G L D Y E I D W S L S G N P F L T P
UniRef90_W7QXC1      L D A H G L E Y S L D W T Y N G L P
UniRef90_F4FBU3      A A A L D L G V R F T W A N E M P P V
UniRef90_Q6LPC0
UniRef90_S2YJP6      H T L F D V S C E V K F A E G Y P P
UniRef90_H6NHL1      A Q A H G L T V T I R E D T N S E P R Y
UniRef90_N8WH89      A Q I Q G M E K D
UniRef90_K9ET33      Q S M T G V E A D L T Y N Q G Y P P
UniRef90_R5Z6W1      E K K Y G V T F H V Q F K N G Y P P
UniRef90_R5PRR6      S K D L G V K V H V D A P E G Y P P V V
UniRef90_M0M1L1      A E M H G C S
UniRef90_K8X8D5
UniRef90_C8VYW5      A E R F D T K A D I N V E P E Y
UniRef90_UPI00047EF088 A T L Y E G S I E F L Y E
UniRef90_A0A014LW40 V A A Y G A T A D I

```

