

QUERY 1 10 20 30 40  
UniRef90\_C3ZBC0 S T P A I T L E N P D I K Y P L R L I D K E V V N H D T R R F R F A L P S P E H  
UniRef90\_W5M9P6 K S P V T L L Q D P T V K Y A F K L V D K E I V N N N D T K R R F R F A L P S P D H  
UniRef90\_W5Q9L2 P S P V T L L Q D P N E A K Y A R L R L L I D K T T V S H H N T R R F R F A L P S T A H  
UniRef90\_Q7ZX29 P A I T L E S P D I K Y A L R L L I D R E E I S H D T R R F R F A L P S A E H  
UniRef90\_E9BYS3 A E G R L T A L D P E N K A F K L V I K K E E H I S H D T R R F R F A L P S P E H  
UniRef90\_UPI00046C373D P I T L L Q D P H T K Y P L P L I E K D I I S H D T R K F R F G L P S P D H  
UniRef90\_A0A026WBP4 A P P L T L V D P V V K Y S L P L I E K R S L S H D T R V F R F G L P S P N Q H  
UniRef90\_T1FNC4 K K L I T L V D S E A T Y P L A L M Q K E I V S H D T R R F R F K L P S T N E H  
UniRef90\_A0A034WPL9 P V A L D S E N K I P F K L V I S K Q L I T H D T R K F R F A L P S D K H  
UniRef90\_A8QDR1 K G R I T L Q D P E A E Y P L P L I E K E Q I N H N T R R F R F G L P S P D H  
UniRef90\_T1J8N4 T K N I A L V N P R E K V P V K L I E K T S I S H D V R R F R F A L P S S E D Q  
UniRef90\_I1G4Z3 K K T L L D S E V K Y P L K L I R K E K I T H D T R R F R F A L P S S E K H  
UniRef90\_UPI00042AAFF8 K V L L E D P Q V K Y Q L P L I E K K E V S H D T R L F R F K L P T P E H  
UniRef90\_P39867 A A P V I A L S N P R E K V P C C Q L V A R T V L S R D V R L F R F A L P S S G Q  
UniRef90\_H2ZN53 T T P R K V A L S N S R E K I S C C K L V S K T Y I S H N T R L F R F A L P S S E D Q  
UniRef90\_D0EP49 S T V A L S N P R E K V K C C R L M D K K S L S Y N V R R F R F A L P S P D Q  
UniRef90\_J3JYK7 L I P R E K I P C C K L V I E K V S L S H D V R R F R F A L P S S E D Q  
UniRef90\_P49102 A K K A L D P S K K V A L P L V E K H S L S H D T R R F R F A L P S P E H  
UniRef90\_I1MAM5 L D P Q E Y R K F Q L K E K F I V S H D T R K F R F A L P N E D D  
UniRef90\_I1P4P3 D P T M F K H F K L I K R T E V S H D T R K F R F A L P E N E T Q  
UniRef90\_P92922 L D P K E W K E F P L I E K I E V S P N T A I Y R F G L P D P N D  
UniRef90\_P17570 K V F L Q G Q N I K L P M R L V D K E V I T H D T L Y T F G L P S T E Y  
UniRef90\_DONRY2 A R T L L K P D Q F Q D F E L V E R T A I S H N V G L Y R F A L P R A N D  
UniRef90\_C1FJ74 T E R K P A L D P V E F K F P P L I K R E E I S H D T R R F T F A L P G P N A  
UniRef90\_Q54NC1 N S K R K P I L D P K T W K V V T L T S I E R V S H D S L I Y R F A L P H S P D D  
UniRef90\_M4ASK9 S K V A L D A K E Y K K F P L K E K F I V S H N T R L F R F G L P H P S D  
UniRef90\_E9BBH0 L N T R Q K L A V P L I E K E V L S H D S R R F R F A L P T K D H  
UniRef90\_L8WY93 V P V L S S P R E K V P C R L V E K K E L S H D V R L F R F A L P S S D Q  
UniRef90\_UPI000392D872 A K P T R V L K A D E F Q E F T L S D K T I I S H N V A I Y R F A L P S P T S  
UniRef90\_U610L4 S N R Q R K V L N P N E F Q E F I L K E K T I V S H N V A I Y R F A L P R P T D  
UniRef90\_D5GAB4 S S G S K K V L K P N E F Q E F E L E E K T V L S H N T A I Y R F A L P R K T D  
UniRef90\_K0S116 A E P R P T F L D Q S K F W N K A L H G K R I V S W D T R I F T F S L D H K S T D  
UniRef90\_UPI0004411499 L D P E E F K E F K L V K R T Q L S H N V A E F K F A L P T P T S  
UniRef90\_K5W184 K P V K V I D P A D W R K F K L V R K V L V S P N V F H L V F A L P S P T D  
UniRef90\_UPI000455FA75 P K K V L D P V N F Q Q F E L K E K T I I S H N V A I Y R F A L P S P T H  
UniRef90\_G1X4J3 S G P T E I F L R P K F W T K A K L C K K V A V S S D T R I F S F A L D H D E Q  
UniRef90\_D3BR16 P R D T F L R P K V W G K A F L H G K K I V S W D T R I F T Y K L D H P R Q  
UniRef90\_D8LQ12 S S L R P T F L D S R T W S K A L L S S K T K V S W D T R I F R F K L D H A S Q  
UniRef90\_M5G213 L N A R I Y Q P P L I E K A N I S H D T V R L V F G L P S K N S  
UniRef90\_M7ZJJ3 T S P R T L S V N P N D S V E L P L I K V T E S H D T K I F R F G L K E G H  
UniRef90\_U4L0R2 K K T I L V P E K W L K F K C V K K E Q V S H N V V K L R F G L P T P T S  
UniRef90\_C0SBW9 P R P K F L Q S R A W S K L K L S E V K K V S W D T R I F V F D L E H Q T Q  
UniRef90\_Q0UEY4 Q P K K V L T D P N A L I E L P L K E K T I I S Y N S A I Y R F A L A K A N D  
UniRef90\_U11Z20 T N R A V F L D T R K W T Q A N L L E K T Q V S P D S K L F R F K L D H E N Q  
UniRef90\_G3B2Q6 L Q P E N Y Q K L P L V K K E K L S S N T H R L F A L P K D D M  
UniRef90\_UPI00042B2BC8 F L N P E V W Q T L P L V E K R Q L T H N T R L R F A L P H A D M  
UniRef90\_F7W9R6 A N I V L S K T E F R E F P L K E K T V L T H N T A V Y R F G L P R P T D  
UniRef90\_F0XGY8 Q S C N S E L N K D T F T A F S I N S V E Q L T Q D T Y R F R F E L P D N K S  
UniRef90\_L8FY26 S P R K V L K P D I F Q E F P L T D I K K T S H N V A I Y R F G L P R P T D  
UniRef90\_W2S5X9 S K K D K P V L D K E K L Q S E F P L V A K T V L T H N T A I Y R F G L P R P T D  
UniRef90\_W6MIM1 F L E P K E Y K K L P L I A K D Q L S P N V Y R F F R L P G Q Q D  
UniRef90\_P36842 P S K P F L E P K V W K K V R L H K R E I S H D S R L F R F A L P H E D Q  
UniRef90\_R01KA3 R P A V L I P D Q F Q E F P L I M K T N I T H N T A L Y R F G L P G A D D  
UniRef90\_E4WX87 T G S K I A L P D K W I E F K L Q D T A R V S H N T Q L F R F S F D P N V  
UniRef90\_A0A010RW11 L S P E T F L A F S I S A V D K V T K D T Y H V R F A L P E S K Q  
UniRef90\_G9NLX1 F L N Q E T F K A F R I S A M E Q L T D D T C Q V R F A L P E S K Q  
UniRef90\_A9T4X8 H P V E W R R Y T L V Q V L P L N H N T K I F R F G L A K R D L  
UniRef90\_G3FFU0 K W I Q A K L I S K K A L S K D T K R Y T F A L P S K D Q  
UniRef90\_M7P9N9 P S K F L E P K V W K K V R L H K R E I S H D S R L F R F A L P H E D Q  
UniRef90\_S3C5M6 R P A V L I P D Q F Q E F P L I M K T N I T H N T A L Y R F G L P G A D D  
UniRef90\_M1WC47 T G S K I A L P D K W I E F K L Q D T A R V S H N T Q L F R F S F D P N V  
UniRef90\_G2YAP4 L S P E T F L A F S I S A V D K V T K D T Y H V R F A L P E S K Q  
UniRef90\_A0A059LNV1 F L N Q E T F K A F R I S A M E Q L T D D T C Q V R F A L P E S K Q  
UniRef90\_E4ZJW7 A N I V L S K T E F R E F P L K E K T V L T H N T A V Y R F G L P R P T D  
UniRef90\_I2FUE6 Q S C N S E L N K D T F T A F S I N S V E Q L T Q D T Y R F R F E L P D N K S  
UniRef90\_UPI00032A24B S P R K V L K P D I F Q E F P L T D I K K T S H N V A I Y R F G L P R P T D  
UniRef90\_V9D2E0 S K K D K P V L D K E K L Q S E F P L V A K T V L T H N T A I Y R F G L P R P T D  
UniRef90\_Q6CID0 F L E P K E Y K K L P L I A K D Q L S P N V Y R F F R L P G Q Q D  
UniRef90\_B6JV34 P S K P F L E P K V W K K V R L H K R E I S H D S R L F R F A L P H E D Q  
UniRef90\_G9MVG0 R P A V L I P D Q F Q E F P L I M K T N I T H N T A L Y R F G L P G A D D  
UniRef90\_G9MK57 T G S K I A L P D K W I E F K L Q D T A R V S H N T Q L F R F S F D P N V  
UniRef90\_G8ZZN5 L S P E T F L A F S I S A V D K V T K D T Y H V R F A L P E S K Q  
UniRef90\_A0A059CNH0 P C L S E L N Q E T F K A F R I S A M E Q L T D D T C Q V R F A L P E S K Q  
UniRef90\_UPI0002234706 H P V E W R R Y T L V Q V L P L N H N T K I F R F G L A K R D L  
UniRef90\_UPI000273BB91 K W I Q A K L I S K K A L S K D T K R Y T F A L P S K D Q  
UniRef90\_L8GGN4 L S R H K W T L V R L V R K I K I S G D T S R Y T F A L P S S K  
UniRef90\_QOCFD9 N E S S K A F V G D N Q W I D L K L S K I E T L S H D T K R F T F A L P Q K D Q  
UniRef90\_A0A017SFJ5 L S R H K W T L V R L V R K I K I S G D T S R Y T F A L P S S K  
UniRef90\_W0T804 Q S C P S K L N P E N F L A F V I S A L D K V T N D T Y H V R F A L P D G S Q  
UniRef90\_B0DST0 A K V A L S S R E F R T F T V R K V D S V T H N T K R I V F D L P S E D H  
UniRef90\_UPI00022B5DEA T S R S V F L Q S K S W T K G I L S E R K K V S S D S K I F T F L N H H E G Q  
UniRef90\_K3WYP0 R E L V L Q S K T W S K A L L C K K T S I S P D T K I F S F K L P H E G Q  
UniRef90\_H1V8X1 A Q P N D Q A L Q R H R W V P V K L L D R K A I S R D T R E Y T F K L P E G K P  
UniRef90\_A0A016Q8K0 A R G F L D P Q H Y Q R L H L V E K T E L A T N V Y R F V F A L P T A T G  
UniRef90\_A2QPC0 K H P R S H R K F K L V I K R I V L S P D T R L F R F E I P E N E  
UniRef90\_W6QG15 E F I P L R L L R K D I L S H D T R R F T F A L P N P K A  
UniRef90\_E4X716 E Y M Q F L A S I K K L N R N S A L Y R F K L P T D E H  
UniRef90\_B7GCP2 N E S G K T F T D P N W I D L K L V A S V D L T H N T K H L Y R F K L A N E D D  
UniRef90\_A7TNL7 P F R W V Q A R L V S K K A L S A D T R Y T F K L P P Q A T  
UniRef90\_C5M929  
UniRef90\_F2PM84



QUERY UniRef90\_C3ZBC0 UniRef90\_W5M9P6 UniRef90\_W5Q9L2 UniRef90\_Q7ZX29 UniRef90\_E9BYS3 UniRef90\_UPI00046C373D UniRef90\_A0A026WBP4 UniRef90\_T1FNC4 UniRef90\_A0A034WPL9 UniRef90\_A8QDR1 UniRef90\_T1J8N4 UniRef90\_I1G4Z3 UniRef90\_UPI00042AAFF8 UniRef90\_P39867 UniRef90\_H2ZN53 UniRef90\_D0EP49 UniRef90\_J3JYK7 UniRef90\_P49102 UniRef90\_I1MAM5 UniRef90\_I1P4P3 UniRef90\_P92922 UniRef90\_P17570 UniRef90\_DONRY2 UniRef90\_C1FJ74 UniRef90\_Q54NC1 UniRef90\_M4ASK9 UniRef90\_E9BBH0 UniRef90\_L8WY93 UniRef90\_UPI000392D872 UniRef90\_U6I0L4 UniRef90\_D5GAB4 UniRef90\_K0SI16 UniRef90\_UPI0004411499 UniRef90\_K5W184 UniRef90\_UPI000455FA75 UniRef90\_G1X4J3 UniRef90\_D3BR16 UniRef90\_D8LQI2 UniRef90\_M5G213 UniRef90\_M7ZJJ3 UniRef90\_U4L0R2 UniRef90\_C0SBW9 UniRef90\_Q0UEY4 UniRef90\_U1I2Z0 UniRef90\_G3B2Q6 UniRef90\_UPI00042B2BC8 UniRef90\_F7W9R6 UniRef90\_F0XGY8 UniRef90\_L8FY26 UniRef90\_W2S5X9 UniRef90\_W6MIM1 UniRef90\_P36842 UniRef90\_R0IKA3 UniRef90\_E4WX87 UniRef90\_A0A010RW11 UniRef90\_G9NLX1 UniRef90\_A9T4X8 UniRef90\_G3FFU0 UniRef90\_M7P9N9 UniRef90\_S3C5M6 UniRef90\_M1WC47 UniRef90\_G2YAP4 UniRef90\_A0A059LNV1 UniRef90\_E4ZWLJ UniRef90\_I2FUE6 UniRef90\_UPI0003C2A24B UniRef90\_V9D2E0 UniRef90\_Q6CID0 UniRef90\_B6JV34 UniRef90\_G9MWG0 UniRef90\_G9MK57 UniRef90\_G8ZZN5 UniRef90\_A0A059CNH0 UniRef90\_UPI0002234706 UniRef90\_UPI000273BB91 UniRef90\_L8GGN4 UniRef90\_QOCFD9 UniRef90\_A0A017SFJ5 UniRef90\_W0T804 UniRef90\_B0DST0 UniRef90\_UPI00022B5DEA UniRef90\_K3WYP0 UniRef90\_H1V8X1 UniRef90\_A0A016Q8K0 UniRef90\_A2QPC0 UniRef90\_W6QG15 UniRef90\_E4X716 UniRef90\_B7GCP2 UniRef90\_A7TNL7 UniRef90\_C5M929 UniRef90\_F2P8M4

90 100 110 120

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

QUERY V Y Q G K  
UniRef90\_C3ZBC0 V Y D G N  
UniRef90\_W5M9P6 V Y K G K  
UniRef90\_W5Q9L2 T Y A G K  
UniRef90\_Q7ZX29 V Y S G K  
UniRef90\_E9BYS3 T Y Q G N  
UniRef90\_UPI00046C373D V Y K G  
UniRef90\_A0A026WBP4 V Y K G N  
UniRef90\_T1FNC4 V Y K G  
UniRef90\_A0A034WPL9 Q Y Q G Q  
UniRef90\_A8QDR1 V Y E G N  
UniRef90\_T1J8N4 I Y N G  
UniRef90\_I1G4Z3 S Y A G R  
UniRef90\_UPI00042AAFF8 F Y H  
UniRef90\_P39867 E Y Q G R  
UniRef90\_H2ZN53 E Y R T K  
UniRef90\_D0EP49 E Y L E K  
UniRef90\_J3JYK7 Q Y T  
UniRef90\_P49102 E Y V G R  
UniRef90\_I1MAM5 E Y T G R  
UniRef90\_I1P4P3 E Y A G R  
UniRef90\_P92922 E Y L G K  
UniRef90\_P17570 E Y Q G K  
UniRef90\_DONRY2 S Y M G K  
UniRef90\_C1FJ74 E Y R G K  
UniRef90\_Q54NC1 N Y Q P N  
UniRef90\_M4ASK9 I Y K G K  
UniRef90\_E9BBH0 L Y L G N  
UniRef90\_L8WY93 N Y H P  
UniRef90\_UPI000392D872 V Y K G  
UniRef90\_U6I0L4 H Y C G  
UniRef90\_D5GAB4 V Y A P N  
UniRef90\_K0S116 D Y H K N  
UniRef90\_UPI0004411499 N Y R P  
UniRef90\_K5W184 I W Q G  
UniRef90\_UPI000455FA75 K Y  
UniRef90\_G1X4J3 K Y  
UniRef90\_D3BR16 N Y E P N  
UniRef90\_D8LQI2 V Y L  
UniRef90\_M5G213 K Y H A  
UniRef90\_M7ZJJ3  
UniRef90\_U4L0R2 V Y T P N  
UniRef90\_C0SBW9 V Y T P N  
UniRef90\_Q0UEY4 V Y T P N  
UniRef90\_U1I2Z0 E Y L G  
UniRef90\_G3B2Q6 T Y T P N  
UniRef90\_UPI00042B2BC8 K Y Q P  
UniRef90\_F7W9R6 Q Y A P N  
UniRef90\_F0XGY8 V Y T P N  
UniRef90\_L8FY26 K Y L G K  
UniRef90\_W2S5X9 E Y L G R  
UniRef90\_W6MIM1 T Y T P N  
UniRef90\_P36842 E Y L G K  
UniRef90\_R0IKA3 K Y H K N  
UniRef90\_E4WX87 I Y Q  
UniRef90\_A0A010RW11 R Y R P N  
UniRef90\_G9NLX1 V Y T P N  
UniRef90\_A9T4X8 K Y K P N  
UniRef90\_G3FFU0 E Y L G N  
UniRef90\_M7P9N9 R Y  
UniRef90\_S3C5M6 V Y T P N  
UniRef90\_M1WC47 E Y L G N  
UniRef90\_G2YAP4 R Y R  
UniRef90\_A0A059LNV1 E H K  
UniRef90\_E4ZJW7 V Y T P N  
UniRef90\_I2FUE6 P Y K A N  
UniRef90\_UPI0003C2A24B P Y R P N  
UniRef90\_V9D2E0 V Y T P N  
UniRef90\_Q6CID0 H Y Q P N  
UniRef90\_B6JV34 S Y K  
UniRef90\_G9MVG0 R Y  
UniRef90\_G9MK57 T Y L G  
UniRef90\_G8ZZN5 Q Y M P N  
UniRef90\_A0A059CNH0 K Y T P N  
UniRef90\_UPI0002234706 F Y K P N  
UniRef90\_UPI000273BB91 P Y K P N  
UniRef90\_L8GGN4 V Y T P  
UniRef90\_Q0CFD9 R Y H G N  
UniRef90\_A0A017SFJ5 R Y Q G N  
UniRef90\_W0T804 E W K P N  
UniRef90\_B0DST0 T W K G Q  
UniRef90\_UPI00022B5DEA F Y K P N  
UniRef90\_K3WYP0 A Y K P N  
UniRef90\_H1V8X1 E Y L G N  
UniRef90\_A0A016Q8K0 V Y H G N  
UniRef90\_A2QPC0 V Y E G  
UniRef90\_W6QG15 R Y T  
UniRef90\_E4X7I6 E F H  
UniRef90\_B7GCP2 N F  
UniRef90\_A7TNL7 E Y T D R  
UniRef90\_C5M929 K W E P N  
UniRef90\_F2PM84 R Y H G N

UniRef90\_F0X7X0  
UniRef90\_S6EBB9  
UniRef90\_U4LIP8  
UniRef90\_K9FYS2  
UniRef90\_C7Y164  
UniRef90\_K8EMU6  
UniRef90\_A6ZVM6  
UniRef90\_G7YCD3  
UniRef90\_W2TN34  
UniRef90\_T0RK17  
UniRef90\_P43100  
UniRef90\_G2R3A3  
UniRef90\_I0YYV0  
UniRef90\_UPI0003D0DB00  
UniRef90\_S3BNL5  
UniRef90\_Q5BG98  
UniRef90\_F4XI28  
UniRef90\_S9R079  
UniRef90\_S8CGD3  
UniRef90\_B2AZ63  
UniRef90\_C4R8S5  
UniRef90\_S7PX21  
UniRef90\_W9WZE8  
UniRef90\_V2XQY6  
UniRef90\_S7RYJ2  
UniRef90\_B1WNU6  
UniRef90\_F7VUA7  
UniRef90\_L8G3L8  
UniRef90\_G9MKF0  
UniRef90\_UPI000344B82D  
UniRef90\_G8Y7X4  
UniRef90\_M7ZHJ4  
UniRef90\_M2UFW6  
UniRef90\_H2IN46  
UniRef90\_A1Y9J5  
UniRef90\_A7TM72  
UniRef90\_S7QGC9  
UniRef90\_H0ZQJ4  
UniRef90\_UPI0003ABBC4F  
UniRef90\_Q04516  
UniRef90\_C1G7W4  
UniRef90\_I3X5N5  
UniRef90\_M5ES84  
UniRef90\_U1G0Q9  
UniRef90\_E7LWQ3  
UniRef90\_W5UJK7  
UniRef90\_H0ZZU3  
UniRef90\_B7PQD9  
UniRef90\_UPI000366B935  
UniRef90\_J3HAU8  
UniRef90\_A1S3Z7  
UniRef90\_F0X0K4  
UniRef90\_UPI0004780EEC  
UniRef90\_G7EAM7  
UniRef90\_W4GCM4  
UniRef90\_M5FX13  
UniRef90\_N1PRP7  
UniRef90\_T0QES9  
UniRef90\_M5C2H7  
UniRef90\_W9XYK1  
UniRef90\_D4APJ2  
UniRef90\_UPI0003EDA846  
UniRef90\_UPI00035CA3BD  
UniRef90\_E1ZSU6  
UniRef90\_A2WL86  
UniRef90\_Q2GZU8  
UniRef90\_UPI0004652859  
UniRef90\_V7FDV8  
UniRef90\_UPI000364BB0  
UniRef90\_C5FPM4  
UniRef90\_X8JF05  
UniRef90\_I4B3H4  
UniRef90\_UPI00036294C2  
UniRef90\_T5AN77  
UniRef90\_K2RNV8  
UniRef90\_D3UY96  
UniRef90\_UPI0003743727  
UniRef90\_S7VTM8  
UniRef90\_L7KL83  
UniRef90\_A3YFC7  
UniRef90\_H2LGY3  
UniRef90\_J2K0R0  
UniRef90\_N4V0U1  
UniRef90\_K2LNT4  
UniRef90\_D7DHY6  
UniRef90\_UPI000273B67E  
UniRef90\_DOA5S1  
UniRef90\_G8YKA8  
UniRef90\_W6Q2Y1  
UniRef90\_L0LOE9  
UniRef90\_N6UP18  
UniRef90\_J1FKV8

UniRef90\_F0X7X0 P L G L L P P T G Q H I A L L Q A K I N G E S L A R S Y T P V I S 70 N N D L G R I E L L 80  
UniRef90\_S6EBB9 T L D L L P P G H F L M A R K L D S G V S E E V R N Y N T P I L S N R Y A P G Y F D L M  
UniRef90\_U4LIP8 P L G L L S V I G Q Q H H M R I K N D P S N N E A L I R S A Y T T P L S D T A E T K G S V D L V L  
UniRef90\_K9FYS2 A L G L L S V I G Q Q H H M R I K N D P S N N E A L I R S A Y T T P L S D T A E T K G S V D L V L  
UniRef90\_C7Y164 V S G L L P V G A S A L L T K Y K G T P E D E A T L R M R S Y T T P T S D E S E K G F L D L V  
UniRef90\_K8EMU6 A F G L P T G Q H H V M V Q D A K T P E D E K H M R S Y T T P T S D D A D T K G N H V D F L V  
UniRef90\_A6ZVM6 V L G L L P I G Q Q H H V I K A N I N G G K D I T R P S Y T T P T S D D A D T K G N H V D F L V  
UniRef90\_G7YCD3 R P G I P V G K H V V F V A R I E G Q T V V R P Y T T P V I S L D D T Q K G Y M D F V  
UniRef90\_W2TN34 V L G L L P V G A S F V Y L T A K I N D G K L V V R P Y T T P V I S S D D D Q L G V L D L M  
UniRef90\_T0RK17 T S G M K V A S F V M A K A S L N D G K N V V I K P Y T T P T S A P M Q A G G F L D L L  
UniRef90\_P43100 S T I G L P T G Q H H L V R L R D P A T R V I R A Y T T P L S E T H A K G Q L D L L  
UniRef90\_G2R3A3 V L S G L Q V A S C I L T K F Q P A D A E V I R P Y T T P I S D E D A R G Y L D L L  
UniRef90\_I0YYV0 L L G L L P A G Q C A I K V K A T T K A G A E L V Q A F N P I S T D D D T P G E V V L L L  
UniRef90\_UPI0003D0DB00 H L G L L P G Q H L I L R G V V D D L E I Q R A Y T P I S P A T A T Q G Y F D L V L  
UniRef90\_S3BNL5 V S G M E A A S A L L T K F K P E D G K P V I R P Y T T A V I S D D D D Q P G H I D L L V L  
UniRef90\_Q5BG98 V S G L H I A S A L L T K Y S P P D G K P V I R P Y T T P T S D D D D Q P G Y L E L L V L  
UniRef90\_F4XI28 L F S Y K P G Q F V T L D L D I D G K A V K R S Y S I S S A P S R P Y T L E I T  
UniRef90\_S9R079 V L G L P V G Q Q H L T V V V E V D G K A V H S R S Y T P I S S A D A D K G Y F D L L  
UniRef90\_S8CGD3 K L G L D V V S Q C I L L T R A P V G Q D A E I R P S Y T P I S S D A D K G Y F D L L  
UniRef90\_B2AZ63 T L G L P V G A S H L L V R L S S P E T I I R A Y T P I S P G S L P T G T L S L  
UniRef90\_C4R8S5 V S G L E V A S L L L A K F T P R G S D M V L R P Y T T P V I S D V N E K G V F E F V  
UniRef90\_S7PX21 K L G L P I G N H V I L G A F H F R D Q M V T R P Y T T P T R P S E D D G T F E L V  
UniRef90\_W9WZE8 V S G L N V A S A I V T K F K P A D Q E V I R P Y T T P I N D E D V K G Y L E L L  
UniRef90\_V2XQY6 S L L P V A S C V L V V K S S D A P E G N P I R P Y T T P I S P P D Q P G E L T L L  
UniRef90\_S7RYJ2 A Q L P V A S C V L Y L K S D A K G V A R P Y T T P I S P P D L P G E F F V L L  
UniRef90\_B1WNU6 S F A Y Q P G Q F V T L N L N I D G K P V K R A Y S I S S T P T R P H L L E I T  
UniRef90\_F7VUA7 P S G M G L T A S A L L T S F P K G R M V L R P Y T T P T N D L N D E R P G Y V E L L M  
UniRef90\_L8G3L8 V S G L K V A S A L L T K Y K G P E M E V I R P Y T T P V I S D E D E R G H F T L L  
UniRef90\_G9MKF0 I L G L P T G Q H V A I T A V I D G E A V T R S Y T P T S N N A N K G I L E L L  
UniRef90\_UPI000344B82D K F N Y Q T A S C L L T L S L D I N G K K V K R S Y S I S S T P S R P H S L E L T  
UniRef90\_G8Y7X4 V S G L T P A S C L L T K Y T P K G N N V I R P Y T T P T S D I E E K G Y L E L V  
UniRef90\_M7ZHJ4 F D P S T D V A S C L V T R A P I G Q E V I R P Y T T P I S D P D S K G Y F D L L  
UniRef90\_M2UFW6 E S G L P V A S A V I T K Y P E M E G K V I R P Y T T P I S D V D Q K G T F L L  
UniRef90\_H2IN46 F F F K P G Q F V T L E L E I E G Q V F R S Y T T L S S S P S V P Y S F S I T  
UniRef90\_A1Y9J5 V L G L P A G K H I F L C A T V N D K L C M R A Y T P T S T V D V V G Y F D L V  
UniRef90\_A7TM72 V S G I S P L S H V L A R A H G T W S L R I R P Y T T P V I S L P E D Q G V I E F V  
UniRef90\_S7QGC9 T L G L P V G K H V L Y L S A R I D G S L R I R P Y T T P V I S D E D Q G Y V D L V  
UniRef90\_H0ZQJ4 L R V P V G Q H V Y L K H I I A G T E V V K P Y T T P V L P F L P L D F Q E P P  
UniRef90\_UPI0003ABBC4F H L Q V P I G Q H H V L K L P I T G T E I V K P Y T T P V S G S L L S E F K E P V  
UniRef90\_Q04516 R L H I P M G Y H L A V R V I T I N G E R L V R Y Y T P V N V P N T E G H E L V  
UniRef90\_C1G7W4 S L G L G T C E H I Q L G F H F A D K L I I R P Y T P V R P V F E D G T F T L A  
UniRef90\_I3X5N5 F G F L A G Q H V F L D D L E L N G D A E S R C Y S V S S P C K N A I S I T  
UniRef90\_M5ES84 L G L P I G Q H V S V R A P L N G R M V M R S Y T P I S D V D T R K N G T V K L L  
UniRef90\_U1G0Q9 I L G L P T G Q H V A I A G T V D D H T V V R S Y T P I S N N R D L G R L E L L  
UniRef90\_E7LWQ3 E M G L V L A S A L V A K F T P F Q S N V V R P Y T P V S D L S M K Q H F Q L V  
UniRef90\_W5UUK7 M Q I P V G R H V Y L K A S F Q G S E V V K P Y T P V D Q V L M P Q H S S N  
UniRef90\_H0ZZU3 I L G L P V G Q H V Y L S A K I D G N L V V R A Y T P V I S S D E T K G Y V D  
UniRef90\_B7PQD9 L Q M N V G D H L I M R A S Y N G E C I T R R Y T P I S S P S S Q R G T F E V L  
UniRef90\_UPI000366B935 F A F E P G Q F I T L E L D I E G E T I N R C Y T L S S A P T R P H T I S I T  
UniRef90\_J3HAU8 I S F E P G Q F I T L L L E I I G E R V S R C Y T L S S S P T R P F A L I S I T  
UniRef90\_A1S3Z7 R F S Y K P G Q H I L L R V N I A G R C I E R A Y T P A S S R F S Q R K S F E L I T  
UniRef90\_F0X0K4 L G V C I P G Q H L E L R V N I A G R C I E R A Y T P A S S R F S Q R K S F E L I T  
UniRef90\_UPI0004780EEC L D F D P G Q Y L T L N L P V D G A Y A E R C Y T I S S T P T R P E A L I T I T  
UniRef90\_G7EAM7 S G L T V A S A L L T K S A D K N G K P A V R P Y T T A P G T Q G E I Q L I T  
UniRef90\_W4GCM4 L G L T L P G Q H V K V R V A I R G T F Y E R A Y T P T S A I H Q K H E I V D L L  
UniRef90\_M5FX13 T L L P K A A D D E T G P K D K G R P V V R P Y T P I S D S R K V G E V D F L  
UniRef90\_N1PRP7 V S G L P V T S A V I T K Y K C P E D Q T L R P Y T P V S D E E D R G Y M D L L  
UniRef90\_T0QES9 L G L V M P G Q H V L R M R V I N G K P Y E R A Y T P V S P L D D Q K H T V D L L  
UniRef90\_M5C2H7 T L L P A S D S D P N A P K D K K G N T V G R P Y T P V S D P E K E G E V T F V  
UniRef90\_W9XYK1 I T G L P L I T S L L T R H T P E G A W F R P Y T P V S G N D E T G H V T F M  
UniRef90\_D4APJ2 V S G L H I A C T Y L R R E T K P R D M Y I R P Y T P V S D E D E P G H L D L L  
UniRef90\_UPI0003EDA846 P F E F E P G Q F L T L S V H S G G N Q V K R S Y S I A S S P C C H G W C D L T  
UniRef90\_UPI00035CA3BD R F D Y K A G Q F L T L F V P I D G K M V S R C Y T L S S S P S R P D S L I T  
UniRef90\_E1ZSU6 V L G L P L G Q H V S L K G T E D G S E V M R P Y T T P I S D P D S K G Y F D L L  
UniRef90\_A2WL86 P S G L G L T S A V L T V A F P N G R W V L R P Y T P T N D L N E P G Y I E L L  
UniRef90\_Q2GZU8 F D W R P G Q Y L T L R A D V N D G V D V R S Y S I A S L P G Q P  
UniRef90\_UPI0004652859 M F C F S A G Q Y L L V H L R I V N D G A V A Q R H Y S I A S H P D D T R P L D L Q I T  
UniRef90\_UPI00036B4BB0 W S G H L A G Q H L M L R R A E D G G Y V A Q R H Y S I A S H P D D T R P L D L Q I T  
UniRef90\_C5FPM4 I S G L G L C S A V L S V A W P K G F P V L R P Y T P V I S R L D D E T G F L E L L  
UniRef90\_X8JF05 P D E S T L A P V F S T Y I K D S D I Q V Q R P Y T P L K G I D D N G N M D F W  
UniRef90\_I4B3H4 F F Y K P G Q F V T L E L N T E G K R V L R S Y T I S S S P S R P H L E I S  
UniRef90\_UPI00036294C2 T F R H K P G Q H L N V R Y T V D G K E I R R S Y S I L C A P A T E P A A P A L  
UniRef90\_T5AN77 A S G L D L C S A V L T T A W P K G F P V V R P Y T P V N R L D E R G F L E L L  
UniRef90\_K2RNV8 L S G L P L T S S V L T F S W P A G R P V A R P Y T P I T P A T T P G H L D L L  
UniRef90\_D3UY96 L F C Y Q P G Q H L T L K A R V D G A E L R R C Y S I C S P L D D G L Q I G V  
UniRef90\_UPI0003743727 F S F E P G Q F I T V S A E I A G K E I S R C Y T I S S S P T R P H T L S I T  
UniRef90\_S7VTM8 A F K F R P G Q H L S L K A D I N G E D V R R S Y S I L C S S P L D G Q W K  
UniRef90\_L7KL83 F V F N P G Q F L T S I G V E I D N G R T V E R C Y S I L S S S P T R P D T L S S  
UniRef90\_A3YFC7 K F K Y Q Q G Q Y L V F K K E I H G Q D V R R S Y S I C S S V N D E  
UniRef90\_H2LGY3 I M H V P V G K H V Y L K A C I K D T E V V R P Y T P V D Q R L D A G P D P P  
UniRef90\_J2K0R0 T F R H A P G Q H V I A L R R L V D G Q E I R R Y S I C T P A T D A G P V L R V G  
UniRef90\_N4V0U1 V S G L S L T S S V L T M A W P E G R W V A R P Y T P I Q L D D P G Y L R V L  
UniRef90\_K2LNT4 F R F Y P G Q Y M T F E L T V I E G M V T R S Y T I S G S A A R P Y R I E I T  
UniRef90\_D7DHY6 V F K F L P G Q F I T L E L T I D G E I I N R S Y T I S S S P N R P H V I S I T  
UniRef90\_UPI000273B67E L Q V P I G H H V Y L K Q T V T G T E I V K P Y T P V L E T L H S N L K E S L  
UniRef90\_DOA5S1 F N L K P C S Q A C Y K Y G V Q P M D Q C Q R F Y T P V T A N H T K G Y F R I S  
UniRef90\_G8YKA8 P V L P Q R G Q Y V C I R W M L P N A E F E R S R Y S V S N P E N G E Y D I I  
UniRef90\_W6Q2Y1 T S G L A L T S A L L T I S R P E G R W V L R P Y T P I S D L N Q E G Q I E L M  
UniRef90\_L0LOE9 F E Y K P G Q Y I L V S L T V I E G K V V T K A F S L S S P T E K R H I E F T  
UniRef90\_N6UP18 V L G L P I G Q H I H I S A R I N E G Q M I J R S Y T P V S S D D D R K L C G S G  
UniRef90\_J1FKV8 I P F K A G Q F L T L I L P I D G K K V R S Y S I L C A P N E G S R L S V T

	90	100	110	120
UniRef90_F0X7X0	V K [V]	Y E G G L M T E H L	E K M Q L G D T I	D L R G P K G T M
UniRef90_S6EBB9	V K S Y [V] D	G K V S R Y L A G L N P G E T V	D F R G P I G Q F	
UniRef90_U4LIP8	V K	[L] Y Q D G A M S K L A D K V E I G S E I V	G V I P K G P T G K F	
UniRef90_K9FY52	I K [V] Y Y P M E N I	P G G K M T M A L L D K K L P A G S E I D	[C] K G P V G R F	
UniRef90_C7YI64	V K K	Y P N G G P M S T H L H N L V P G Q R L	D I K G P L P K Y	
UniRef90_K8EMU6	V K [V] Y F P N K Q F	P E G G K V S Q M L D G A V L K V G D S I	E F F G G G G K	
UniRef90_A6ZVM6	V K S	Y P T G N V S K M I G D E L K I G D S I	Q I K G P R G N Y	
UniRef90_G7YCD3	I K [V] Y K A N T N P N F	P R G G K M S Q Y L M N L P R D Q Y	I D F R G P S G N L	
UniRef90_W2TN34	I K		I D F R G P S G L I	
UniRef90_T0RK17	V K G	Y P N G S M S K H I V E L Q A G D S	L D I K G P L M K F	
UniRef90_P43100	I K [I] Y R D [V] P G	Q P G G K M T Q A L D S L P L G H F V	D I K G P V G K F	
UniRef90_G2R3A3	V K K	Y P N G P M S T H L H S D M V P G Q H L	D V K G P V P K Y	
UniRef90_I0YV0	V K A Y	P E G H P E H D M A K A L H S M R N G Q T L	E I K G P F G S F	
UniRef90_UPI0003D0DB00	I K	[C] Y E T G L M S R Y V E S W R P G D T A	F W R G P F G S F	
UniRef90_S3BNL5	V K K	Y E G G A M S S H I H S L Q P G D K L	D V I K G P L V K Y	
UniRef90_Q5BG98	V K R	Y P N G P M S E H L H N M N V D Q R L	D F K G P L P K Y	
UniRef90_F4XI28	V K R [V] P A P A D A P N [V]	P A G L V S N W L H N I K V G S E V R	L N G P M G K F	
UniRef90_S9R079	V K A	Y P N G I V S K K L S E L K I G D K I	G V R G P K G N W	
UniRef90_S8CGD3	I K [V]	Y P E G K M T Q H F A S L K P G D [V]	V E V K G P V E K L	
UniRef90_B2AZ63	L I K [I] Y P P S P D S P	S S G G K M T L A L D A L P L R S P V	E F K G P V E K F	
UniRef90_C4R8S5	I K R	Y E T G K M G N H I F N L K P N D T L	A F K G P L Q K W	
UniRef90_S7PX21	V K T Y F P D E K G K F	P P G G T I G N Y L D [C] I K V G E Q I	D A K G P M G E I	
UniRef90_W9WZE8	V K [V]	Y P N G P M S E H L H S M K P G E T L	S F K G P I P K Y	
UniRef90_V2XQY6	V K R	Y D Q G N A S K H I H S L K E G D T L	A I K G P I P K W	
UniRef90_S7RYJ2	I K K	Y D T G V M T P W I A N M K P G D K I	S V K G P I P K W	
UniRef90_B1WNU6	V K R [V] P S P P N A P H [V]	P P G L V S N W L H D L K V G D Q I	Q L S G P M G K F	
UniRef90_F7VUA7	V K	[L] Y P G G K Q S T H L H S L Q P G D R L	T V A P I P E M	
UniRef90_L8G3L8	V K K	Y A N G P M S T H L H D M K P D Q R L	D V K G P I P K Y	
UniRef90_G9MKF0	I K [V]	Y P D G K M T N G Y L A N L N I G D E V	H F R G P K G A M	
UniRef90_UPI000344B82D	V K R [V] P A P R D E P S A	P P G L V S N W L H H M R V G S Q I	E V N G P M G K F	
UniRef90_G8Y7X4	I K K	Y D E G K M S S H L H S L N V N D T L	S F K G P I V K W	
UniRef90_M7ZHJ4	I K [V]	Y P E G K M S Q H F A N L K P G D [V]	L E V K G P I E K L	
UniRef90_M2UFW6	I K A	Y P N G P M S E H M H S M E P G Q R L	D I K G P I P K F	
UniRef90_H2IN46	V K R	[V] P G G F V S N W I H N L E E G S E L	A V H G P V G A F	
UniRef90_A1Y9J5	I K [V] Y F K G [V] H P K F	P N G G		
UniRef90_A7TM72	I K	H [V] P N G G M S S H M F S L K P N D T	V S F T G P I V K Y	
UniRef90_S7QGC9	I K D Q F P			
UniRef90_H0ZQJ4	[C] H D G [V] H I L M I K I	Y S D G L F T Q A L D H L Q I G D Y I	S V S N P E G N F	
UniRef90_UPI0003ABBC4F	L P N N K Y I [F] L I K I	Y H T G L F T P E L D R L Q I G D F V	S V S S P E G N F	
UniRef90_Q04516	V K	T Y K H G V V S K Y F D K L K I R Q Y	V E F K G P L G E L	
UniRef90_C1G7W4	V K T Y F P S S T Q	P G G T I S N V L D [C] L R D N E E V	E I K G P S G M I	
UniRef90_I3X5N5	V K R	Y P G G K V S N W L H N L S P G V [H]	V R A N G P L G R F	
UniRef90_M5ES84	V K S	Y P T G N L S R V L G A L Q V G E S V	E M K G P L K G F	
UniRef90_U1G0Q9	I R [V]	Y P D G H M G I Y L K G L D I G D E A	D I R G P K G A M	
UniRef90_E7LWQ3	V K	H Y E G G K M T S H L F G L K P N D T	V S F K G P I M K W	
UniRef90_W5UUK7	T L S S E I Y L M I K I	Y P D G A F T Q H L D N L D I G A T	V A V S G P E G S F	
UniRef90_H0ZU3	I K [I]			
UniRef90_B7PQD9	V K R	Y P N G K M S K Y I D S L T E G S L V	E W R G P F G E L	
UniRef90_UPI000366B935	V K R	[V] P G G K V S N W L H N L R P G D T T	V R M L G P A G E L	
UniRef90_J3HAU8	V K R	[V] P G G T V S N W L H H L R E G D R L	L A S G P A G S F	
UniRef90_A1S3Z7	V K R	V E G G K V S N Y L D N L R P G G H A L	D A M G P S G S F	
UniRef90_F0X0K4	I K	[L] Y P D G L M S Y L K S L P I G S E V	E M R G P K G N [V]	
UniRef90_UPI0004780EEC	V K R	[V] P G G P V S N W L H H L S V G D T V	F A R G P F G D F	
UniRef90_G7EAM7	I K K Y K	G G A M T E H I H S L K A G D K L A	M K G P I P K I	
UniRef90_W4GCM4	I K [I]	Y P D G I V T S H I A A L P V G S L V	D M L G P Q G S F	
UniRef90_M5FX13	I K K	Y E T G K F T P Y L S S L E P G D K I	S I K G P I P K F	
UniRef90_N1PRP7	V K K	Y D G G P M S T H L H N M E P G Q Q L	E I K G P I P K Y	
UniRef90_T0QES9	I K [V]	Y P D G I V T R H L A T L P I G A T V	D [C] I G P Q G A F	
UniRef90_M5C2H7	I K R	Y D T G Q L T P Y L H N L K P G D K V	S V K G P I V K R	
UniRef90_W9XYK1	V K K	Y P N G K M S G K M H S L Q P G D T L	L F K P L H E F	
UniRef90_D4APJ2	V K K	Y P G G P M S T H I H E L N V G E P L	S F K G P I P K Y	
UniRef90_UPI0003EDA846	V K	H E S G G I V S G Y L H E V K E G D L L	D A S G P Y G R F	
UniRef90_UPI00035CA3BD	V K R	[V] A G G K V S N W L H H L A T G S	L L E A Q G P S G Q F	
UniRef90_E1ZSU6	Y E R G S K K A [I] G M L A	G G S G I T P M F Q V M Q		
UniRef90_A2WL86	I K [V]	Y P D G K M S Q Y F A S L K P G D [V]	V E V K G P I E K L	
UniRef90_Q2GZU8	I K	[L] Y P H G K Q S T H L H S L K P G D T	L T M A P I K E L	
UniRef90_UPI0004652859	V K R	[L] T [V] G [V] K R [V] E D G V F S T F	[C] Q A M K P G D R V R V M P E G R F	
UniRef90_V7FDV8	V K R	T P G G L V S N W L H N L K P G D G I	E I E G P L G S F	
UniRef90_UPI000364BB0	L	D H [V] E G G E V S G W F H T V A P G D T	V E V R G P L G F F	
UniRef90_C5FPM4	V K	H Y S G G K M S T H L H S L S P G D T L	L I A A G V I P S Y	
UniRef90_X8JF05	I K R Y A D	G E V S R W L H S K K E G D E L	E V R G P V R T F	
UniRef90_I4B3H4	V K R [V] K	G G L V S N Y L H H L N L G D T V T	M K P P G G K F	
UniRef90_UPI00036294C2	R	[V] G I R L V D G G A F S T Y L K E L L	V G D T I E A M P P M G R F	
UniRef90_T5AN77	V K R	Y P G G K M S T H L H S L V P G D T L	L F V A A M P G Y	
UniRef90_K2RNV8	V K R	Y P D G K Q S T H L H S L A P G D S L	A F V A A L P G F	
UniRef90_D3UY96	K A T Y Q	G R F S T F I N Q L K V G D E L D	V M V M P Q G N F	
UniRef90_UPI0003743727	V K R	T A G G V V S N W L H N M R E G V E L	K V F G P S G V F	
UniRef90_S7VTM8	V K R K L	[V] A V K L I P G G K F S T Y I E E L	K A G D Q L E V M S P S G T F	
UniRef90_L7KL83	V K R K L	G G H V S N W L H N M S P G R T L	E A S G P L G R F	
UniRef90_A3YFC7	Q L R I G I K Q V P	E G L F S S Y A N H G L K V G D S L	L E V M P Q G R F	
UniRef90_H2LGY3	S Q E P D [L] Y L M I K V Y	P D G V F T Q H L N S L Q T G D H I	S V S G P E G S F	
UniRef90_J2K0R0	I R	L V E D G A F S T Y A L K E L A V G D T	V E V M A P A G R F	
UniRef90_N4V0U1	V K	Q Y P D G K Q S T H I H S L A P G Q K	L F A A A L K G H	
UniRef90_K2LNT4	V K R	[V] P G G P G S N W L H D M M P G K E V	N V S G P T G E F	
UniRef90_D7DHY6	V K R	K P N G I V S N W L H N M K V G T P I	S A L G P T G D F	
UniRef90_UPI000273B67E	H P N N K Y [I] M I K I	Y H T G L F T P Y F N [C] L Q I G D [C]	V S L S N P E G T F	
UniRef90_DOA5S1	V K R	K Q G G L M T E H I F G M H I G D K L	L F R S V T F K L	
UniRef90_G8YKA8	V R R	L E G G K V S N Y I H N L K V G D T I	R V A A P [C] G Q F	
UniRef90_W6Q2Y1	V K K	Y P N G K A S S H I H S L S P G D T L	T F	
UniRef90_L0LOE9	K K	L T G H P F S N V L D N M N I G D S	A V I S G P F G N M	
UniRef90_N6UP18	R Q G [L] Q E G P P Q V	P Q R G N		
UniRef90_J1FKV8	V K R	[V] E G L V S N Y L D N L Q V G Q E V	E V M E P L G N F	

UniRef90\_F0X7X0 E Y  
UniRef90\_S6EBB9 H Y S A N  
UniRef90\_U4LIP8 V Y G G K  
UniRef90\_K9FYS2 E Y L G N  
UniRef90\_C7YI64 Q W E E N  
UniRef90\_K8EMU6 R Y V G E  
UniRef90\_A6ZVM6 H Y E  
UniRef90\_G7YCD3 H Y K G  
UniRef90\_W2TN34 V Y K G N  
UniRef90\_T0RK17 P Y V A N  
UniRef90\_P43100 E Y L G K  
UniRef90\_G2R3A3 P W S P N  
UniRef90\_I0YYV0 K Y Q P  
UniRef90\_UPI0003D0DB00 L Y E P K  
UniRef90\_S3BNL5 K W T P N  
UniRef90\_Q5BG98 P W E A N  
UniRef90\_F4XI28 T  
UniRef90\_S9R079 K H Q  
UniRef90\_S8CGD3 R Y S P N  
UniRef90\_B2AZ63 L Y L  
UniRef90\_C4R8S5 K W Q P N  
UniRef90\_S7PX21 M Y L G K  
UniRef90\_W9WZE8 P W A P N  
UniRef90\_V2XQY6 P W K  
UniRef90\_S7RYJ2 P Y K  
UniRef90\_B1WNU6 T  
UniRef90\_F7VUA7 K W T P N  
UniRef90\_L8G3L8 P W T A N  
UniRef90\_G9MKF0 R Y  
UniRef90\_UPI000344B82D T  
UniRef90\_G8Y7X4 K W E P N  
UniRef90\_M7ZHJ4 R Y S P N  
UniRef90\_M2UFW6 Q W S P N  
UniRef90\_H2IN46  
UniRef90\_A1Y9J5  
UniRef90\_A7TM72 E W K  
UniRef90\_S7QGC9  
UniRef90\_H0ZQJ4 K  
UniRef90\_UPI0003ABBC4F K  
UniRef90\_Q04516 E Y  
UniRef90\_C1G7W4 R Y E G N  
UniRef90\_I3X5N5 V  
UniRef90\_M5ES84 L Y Q  
UniRef90\_U1G0Q9 R Y R  
UniRef90\_E7LWQ3 K W Q P N  
UniRef90\_W5UJK7 T  
UniRef90\_H0ZZU3  
UniRef90\_B7PQD9 N Y K P N  
UniRef90\_UPI000366B935 T  
UniRef90\_J3HAU8 T P L G R  
UniRef90\_A1S3Z7  
UniRef90\_F0X0K4 L Y  
UniRef90\_UPI0004780EEC  
UniRef90\_G7EAM7 A Y K A N  
UniRef90\_W4GCM4 G Y S G  
UniRef90\_M5FX13 A Y E P N  
UniRef90\_N1PRP7 P W E  
UniRef90\_T0QES9 G Y T G  
UniRef90\_M5C2H7 P W K N N  
UniRef90\_W9XYK1 D Y K P N  
UniRef90\_D4APJ2 E W E A N  
UniRef90\_UPI0003EDA846 T F R G  
UniRef90\_UPI00035CA3BD H L K E N  
UniRef90\_E1ZSU6  
UniRef90\_A2WL86 R Y S P N  
UniRef90\_Q2GZU8 A W T P N  
UniRef90\_UPI0004652859 V T R G E  
UniRef90\_V7FDV8  
UniRef90\_UPI00036B4BB0 A W P G  
UniRef90\_C5FPM4 S W T P N  
UniRef90\_X8JF05 D F K  
UniRef90\_I4B3H4 H  
UniRef90\_UPI00036294C2 V L E P R  
UniRef90\_T5AN77 R W T P N  
UniRef90\_K2RNV8 R W T P N  
UniRef90\_D3UY96 G H H P  
UniRef90\_UPI0003743727 T  
UniRef90\_S7VTM8  
UniRef90\_L7KL83 S Y  
UniRef90\_A3YFC7  
UniRef90\_H2LGY3  
UniRef90\_J2K0R0 T L D P R  
UniRef90\_N4V0U1 Q W K P N  
UniRef90\_K2LNT4 T  
UniRef90\_D7DHY6 T  
UniRef90\_UPI000273B67E K  
UniRef90\_DOA5S1 Q Y R P N  
UniRef90\_G8YKA8 T Y  
UniRef90\_W6Q2Y1  
UniRef90\_L0L0E9 T F E G E  
UniRef90\_N6UP18  
UniRef90\_J1FKV8



1 10 20 30 40  
UniRef90\_A0A013XRF9 S L R K P K S W A Q L R V V Q I V R E T P T V L T F R L A D P D R R L P  
UniRef90\_UPI0003812043 F H P L P V A E V E R L T D D S V S L T F A V P P E R E N  
UniRef90\_B7IGF1 K V V S I K N V T H D L K E V R L K L P P E A L N R  
UniRef90\_UPI000248A087 T F H P L E I T D L R R E T D D A M S V R F D V P P E A L N R  
UniRef90\_L7M8N4 V P L K N A E S F R S C T L V N K D S V T H D T T L F S F A L P P Q G S Y  
UniRef90\_UPI0004746D2D H V L V C K Q V H D V N H D T K T F A F E P A G S P G  
UniRef90\_A0A059LNS4 S S T E W Q T L T L V K K E L L T N P T A L Y R F A F A P A G S Q  
UniRef90\_UPI0003725C75 F H E L T V A D V R Q E T R D T V S I G F D V P A E T R E  
UniRef90\_H4F0G3 W S D R E H L L E C V A V T P E A P D V M T F T F R P N K F G L  
UniRef90\_L7MJY5 Y K S F V L Q K I T K M T D C C S K Y T F A I N D F G S  
UniRef90\_A8LBM3 Y H P L R V L R L V R E T S E A R S I V F E V P S E T E  
UniRef90\_E9V060 D L V C S Q V L A V T H D V K T F V F T T P D R R E R  
UniRef90\_UPI00037453C8 F H R L R V T A V D R L T D D S V A L T F A V P P Q E R E  
UniRef90\_UPI00036F2823 F H P L R V S E V E R L T D D S V A V T L T V P P D E R E  
UniRef90\_L9PGT6 K F H P L T I V S Q V R N E T R D D A L A V T F A V P P E S R Q D  
UniRef90\_S9T7K2 Q F H R L Q I A E V V A E T D D A R S L V F D L P P E S R D  
UniRef90\_G9Y6E1 V F H R L S I A A I E R E T P D A V A I T L L V P P D E K Q  
UniRef90\_E3HWR2 S Q N Q F H A L L V A S V A R N T R D A V V V T F D L P P Q A Q  
UniRef90\_S2JNG0 D P R Q W K K L V L Q K K E F M S A T I R R F T F A I P Q D D Y  
UniRef90\_B8CQH7 N T P V N A P F T A E Q W H Q L V C V E K W H E T H D V I S F R F Q G V K P V K  
UniRef90\_K4RGTO A V S T Q T A T L W Q T A T I A E I R R E T P H S A T V R L A V P A W  
UniRef90\_UPI00047803FB L V C K Q I Q D I T A D V K T F V L E P V E P R G  
UniRef90\_J2Y3J9 Q R I E C L S V I D E T H D V K T F T F L C P D E Y P  
UniRef90\_A6ERY4 F H K L K I K D I Y K E T D D T S V I T F D I P D E L S  
UniRef90\_A6R1T7 W I G L K L A H I D N V N H N V K K L R F E F E D P E S  
UniRef90\_J4I8H9 S R S A P T L L S P A H F T P V K L V D S T P C A H N T R L L T L Q I P A S S I  
UniRef90\_UPI000255ABA5 F H P L S E I A T E T N L T P N S V A L T F N V P E N K S I  
UniRef90\_UPI0004623122 T K K N S L L S P T H F T P V E I T E T E P C P N T R L M T L T V P R Q S I  
UniRef90\_M7MJN2 F F K L K V A D I Y K E T K D T V I S F E V P D H K E  
UniRef90\_UPI000368D4D5 K F Y R L T V S E I K K L T E D S V K I T F A L P E F F K K  
UniRef90\_Q6X1T7 A S F R F A L P S E D Q  
UniRef90\_J3CKU3 A R A Q Q Y A T R W R T L K V T R V V Q E S A T I R S F Y L E P D D G A G  
UniRef90\_UPI00040EC3A0 F L P L K V V E V R E T P D T V S I Y F E Q P P  
UniRef90\_UPI00047E980A P P G L L D A Q I Y K S K V V G L E D L T Y D I K R V R F E L J E P N H  
UniRef90\_I2B8A0 T F H S L K V A K I E P E T R D A V A I T F A V P E A A E  
UniRef90\_UPI0003B5983C F H P L T V A E V R P L T D D A V E V T F E V P D E A D  
UniRef90\_F0L790 W S D K L H L L E C I S V T P E T P D V M T F L F R S E D C I N W  
UniRef90\_K1JT17 W R P F I V S R R V I E E T P D V V S L Y L T P A D G G K  
UniRef90\_A6VRC9 F R R F R V A S K T P E S D L V T S F V E P V D G G A  
UniRef90\_W8IGZ3 E W R P F R I V R T E D E S A T I R S L Y L E P A D D A G  
UniRef90\_E8N9B0 F H T L R V A D V R P L T P T A I E V T F A V P D D A D  
UniRef90\_E8WCW8 F H L L R V S A I E R L T D D A V A V T L S V P P P E R  
UniRef90\_UPI0002FC1A43 Q F H C L S V A D V V V E T E D A R S F A L A I P E P L R  
UniRef90\_E9BIZ1 A L T F H N P D R Y E P Y Q L G E I I P I T A D V A L F R F L L H H S E D  
UniRef90\_W7IG32 S P T R F H T L T V S R V D H V A D D A V A V T F A V P D D R A  
UniRef90\_A3VFZ6 I Q I E A P A H H V K Y T D F D V A E D D Y R  
UniRef90\_F5XTH5 D P N T F R P F R L V R R I E E T D D V V T L V L E P A D G G E P  
UniRef90\_UPI000426334C F H S L T I K E I N R E T P H A I S V V F E V P E Q K P  
UniRef90\_H2BUC6 N K F Y A L K I K E I R E T P E A V S L S F D I P Q D K D  
UniRef90\_A1B5X1 P L E C A M V V P E T S D T A T F T F R A P S G A Y  
UniRef90\_UPI0003AB567D S Q S C P S K L N P E T F V A F C I S A V D R L T K D T Y R V R F A L P G A N S Q  
UniRef90\_U1MX92 F H E L E V A E V R P L T A D S V E V T F A V P E A L H  
UniRef90\_UPI00025584C3 F Y T L K I A E V Q P E T D S A I S V T F A V P E A T E  
UniRef90\_R7BSM4 E K Q E F V I C D I V E H D A N V K S Y F L K K K D G T N  
UniRef90\_L7PIL8 E R F H A L R V S E V I V E T E D A R S L V F D V P D D T E  
UniRef90\_B0S2C6 Y E T T L V E K L P L T D R I T K F R F E L P E G E T  
UniRef90\_C5A909 Q F H P L R I R D V Q P E T A D A V T V A F E V P A E R E  
UniRef90\_R7YJ11 L N P H I T F T P Y T I V S K E P V I S T S S I F T L A R A E P D D  
UniRef90\_UPI000374A41B E V W Q G M E I T E R R Q E A P D V V S F L L R P A D G P P  
UniRef90\_UPI00037A9343 F F P L K V K D V H K E T E D C S V V T F D I P E E K S  
UniRef90\_F7XDY8 T L V C K A V I D E T H D S K T F V F E D S Q S R  
UniRef90\_UPI00035CF885 D V W R T M E V A E R R E E T P D V A S L V L R E P D G T P  
UniRef90\_Q21BH7 K F H R L A L A E L R R E T Q D A V S M S F T I P E G I A  
UniRef90\_A3K7H7 T P T L A F W T D D E F H P L E C V S F L P E A P N T V T F T F Q A P S G A  
UniRef90\_W4HIE1 F H P L T V T D V Q K T T R D A V V V T L R P E D D A Q  
UniRef90\_UPI000466A053 V I T D I R T E T P D V K T F R V V N R E G K K  
UniRef90\_F3NGK1 V T A R R P V F H P L R V A S V E R L C E D A A A I G F E V P E E T G  
UniRef90\_I4YLN5 K F Y P V T I A D V R R E T R D A I L T L D V P D E H K  
UniRef90\_X0U4M0 L L N V K L F T A E V A G L R K L T H D M V E A T F A L Q D P A E  
UniRef90\_I2JTM3 L V F Q D R X M  
UniRef90\_C4Y773 Y K D F K V T R I V P E T E H I K S L Y L A P V D G T K  
UniRef90\_X5LX05 T D A D G F T P V R V K Q V I A E T H D A V S L V L D I P E P K D  
UniRef90\_L8MBM7 F Q L E V V I A E T H D S R S L V L R I P A G E E  
UniRef90\_V5PPD6 R E L I V A D V D R E T D H V V S Y Y L R T P E G G S  
UniRef90\_UPI000363AC5D N S W R P L R I E R I V E E S R N L A R S L Y L Q P T D G A G  
UniRef90\_UPI00046E7D3E K Y Y F L K V K E I E R E T D E A S T I H F W H P L N E V  
UniRef90\_I2X503 T F H S L T V A K V E S E T R D A V T I T F A V P Q P Q E  
UniRef90\_V6V3Y0 E H Q R Q W L T W R V L R I E Q E S R D L R S F Y L Q P P E E G T A  
UniRef90\_U5VQI5 K F H S L T I K E V R P E T R D A V S I A F D V P A E A D  
UniRef90\_A0CCA7 F L N N T Q Q Y C T L H S K Q Q L N Q S T Y L M K F A I S Q Q D K  
UniRef90\_UPI0003764B42 F H P L Q V A A V D H L T D D S V T L T L T V P D A R E  
UniRef90\_I2GR82 K F H S L V A K V S P E T R D A V V V T F A V P P E H R  
UniRef90\_UPI0002559C10 R E F R L M G K E R E S D V I T S F Y F V P T D G E P  
UniRef90\_F8G8Q5 E K F E L E L V S F K D I T D N V R H F V F K R T D G K P  
UniRef90\_UPI00038109FE M Q N P Y L P V R I D E I T E T E D T F K F V F L N P E D E E  
UniRef90\_D2SED4 Q F H P L T V A R V E R L T D D A V A V T F D V P E E L A  
UniRef90\_UPI000248ED53 Q F V S L T I K E V I Q E T P S A V S L V F K I P D E K S  
UniRef90\_UPI0003B78FB9 K F H S L S V A K V S P E T R D A V V V T F A V P P E H R  
UniRef90\_W9G116 F H P L T V A A V E R L T D D A V A V T F E V P D E L D  
UniRef90\_Q6LTY4 I Q I E A E P H H L K Y A D F D V P E E Y R  
UniRef90\_A8M5A3 D L V V D E V I T E T A T K T F R L R R A T G E L  
UniRef90\_D3P5Q5 F H P L T I R E C R R E T A D T V S I A F D V P D L A D

UniRef90\_A0A013XRF9 F D F L P G Q F L Q V E V E S E D G K A A R R S Y T I A S S P T Q R A Y V E L T 80  
UniRef90\_UPI0003812043 E Y R H T A G Q Q H L T L R R R A D G V D V R R S Y S I C S P A S P D P D E I D L L A G  
UniRef90\_B7IGF1 F K A G R Q Y V Q Q L V V P L R A K I N G K G E D T Q R R A Y S I A S T P E S K D G E I D L L  
UniRef90\_UPI000248A087 P F R F R P G G Q H L V T P R A K I N G D V R R R S Y S I C A S T A P E D G E L R  
UniRef90\_L7M8N4 M W V P V G H H L T L E H D V V K G M R I S R S Y T P V I P V L K A D E E E A  
UniRef90\_UPI0004746D2D V F R H D P G G Q Q Y L A F T F E V D G R E F S R Y T L S S P P T S A P H L A A I T  
UniRef90\_A0A059LNS4 H A N L P V A S C L T R A P V I T K K D A V R P Y T P I S A P T S A G F L D L A  
UniRef90\_UPI0003725C75 T Y R Y A P G Q H L T L A L R T W I D G E E V M R T Y S I C T G V Q D E E L R  
UniRef90\_H4F0G3 W F R Y Q P G Q Q F V L T L E P V S P E P V M R T Y T L S S S P S R P Y T I A I T  
UniRef90\_L7MJY5 I L S G S V G G Q H L T L M R A S V D G E I V T R Q Y T P I S L P S A L G F F E  
UniRef90\_A8LBM3 V F A Y E A G Q Q F V T L R V T L D G G E T H V R S Y S M S S S P L L D G E L R V T  
UniRef90\_E9V060 P F D F E A G Q Q F I T L R V E I D G E T L M T R R Y T I A S S P T R P D D R L A I T  
UniRef90\_UPI00037453C8 A Y R H A P G G Q H L T A L R R T V D G T E V R R T Y S I C S A A P A D G A P R T L  
UniRef90\_UPI00036F2823 A F R H T P G G Q H L A V R R R T G A H G E E I R R T Y S I C S P A V P V G E E G V  
UniRef90\_L9PGT6 S F K F Q Q G Q H L T L R A Q V A D E A V R R S Y S I C S A V Q E G A L R V A  
UniRef90\_S9TK2 V F A Y R P G G Q F L T L R R V P V N G A A Q Q R R Y S I C S S T P E V D G A L R V T  
UniRef90\_G9Y6E1 H Y H Y K P G Q Q H L T L K A D L N G E E L R R R Y S I C S S S P V Q E G I L Q I G  
UniRef90\_E3HWR2 E F A F L P G Q Q Y L T L R T E L D G Q E Q R R S Y S I C S A P N D K  
UniRef90\_S2JNG0 I L S L P T G L H L T F I K L P E D P K M V M R A Y T P S K V N S R T I E F V  
UniRef90\_B8CQH7 F H F K P G G Q F L T L L E I N G E K I G R S Y T I S S S P S R P F S I V L T  
UniRef90\_K4RGT0 A G H L P G Q H L M L R L T A E D G Y A A Q R H Y T L A S A P P D D S Q H I L E I T  
UniRef90\_UPI00047803FB F G H D P G Q H L T I T R R T V D G E V D R R T Y S I S S P S R P S G V A I T  
UniRef90\_J2Y3J9 A L A Y E P G Q Q F L T V S P V I D G Q S V S R R Y S I C S S T P T R P F T F S I T  
UniRef90\_A6ERY4 E F K F R Q G Q G L T L K A D L D G K D T R R S Y S L C S G P E E G E W K V A V  
UniRef90\_A6R1T7 V S G L H I A S A L L T K Y K T D E K P T I R P Y T P V S D E G M L G Y L D L L  
UniRef90\_J4I8H9 P K H N W T P I W S I F I K D D D I Q V E R P Y T P L E G I D D Q G C M K F W  
UniRef90\_UPI000255ABA5 T F S F T A G Q Y L T I Y K T V D G N E V R R A Y S I S S A P S  
UniRef90\_UPI0004623122 P S L N E F Q P I W S I Y I K N D D I Q V E R P F T P L E G M D S E G R M K F W  
UniRef90\_M7MJN2 K F K F K Q G Q H L T L R K N T N G Q D I R R N Y S I C T S P F D N Q W K  
UniRef90\_UPI000368D4D5 I F S Y E A G Q Q L T L Q Q D I D N Q K I R R A Y S I C S G V D E I E L S  
UniRef90\_Q6X1T7 V L G L P V G K H I L L C A T V N D K L C M R A Y T P T S T V D V V G Y F D L V  
UniRef90\_J3CKU3 L L P W L P G Q H L P I R V Q P N G P V I R T Y T L S S A P S D R H Y  
UniRef90\_UPI00040EC3A0 F L E F K P G Q Q F L T V Q M D F E G K E H R R S Y S I C T S P F V D P F P G I S  
UniRef90\_UPI00047E980A I D F K P G Q F V Q I K V P G I E V V R A Y S I A S D S E D K N H L E I S M  
UniRef90\_I2B8A0 E Y R F V P G Q H L T L R T R I G G E E L R R R Y S I C R P A A K G E L S V A  
UniRef90\_UPI0003B5983C D Y S Y L P G Q F V V A I R A T L D G K E L R R R S Y S I C R P P Q R P P S A  
UniRef90\_F0L790 F R Y L P G Q Q F V T L E L L D G K E P L Y R T Y S I L S S P S R P Y A L S V T  
UniRef90\_K1JT17 V P V W K P G Q Q F V S V R A Y L P E L K L V R Q Y S I L S A A P E D R S Q L R I S  
UniRef90\_A6VRC9 V I D Y P P G Q Q L G V K L H P K G N E E I R R S Y S I L S T A P N G K N Y R I S V  
UniRef90\_W8IGZ3 L P P F R A G Q Q H L S I R K L T E G K E P I V R S Y T L S A P S D A Y R I S V  
UniRef90\_E8N9B0 A F D Y A P G Q Q Y V A L R A T V D G E E L R R S Y S I C R P P A  
UniRef90\_E8WCW8 T F R H T P G G Q H L N V R Y R V D G E E I R R S Y S I C A P A A E Q P H  
UniRef90\_UPI0002FC1A43 T F Y R A G G Q H L T F R V S I V D G E V L T R S Y S I L S S P E A P G L P V V T  
UniRef90\_E9BIZ1 E F N L R P C Q A C Y K Y G V Q P K D Q C Q R F Y T P V I T A N H T A G Y F D L I  
UniRef90\_W7IG32 E F D F A A G Q S L T L R R E V D G V E H R R S Y S I C A A V G E K P R I  
UniRef90\_A3VFZ6 E D W D K F D I W Q Y E S T C D E P I E R A Y S M A N Y P D E K G L I M L N  
UniRef90\_F5XTH5 V A P S A P G Q Y V S V F V D L P N G R R Q G R Q Y T V I S S T A L G T R V Q I T  
UniRef90\_UPI000426334C D Y H F I A G Q Y L N L K F I I D G K E I R R A Y S I S S S P N  
UniRef90\_H2BUC6 K F S Y K A G Q Y V T I K T D I D G K E I R R A Y S I L S S P  
UniRef90\_A1B5X1 F D Y Q P G Q Q F V T L D L P V P G G N V Q R T Y T I S S S P S R P L S I S V T  
UniRef90\_UPI0003AB567D L G L Q P G Q H L L R Y T  
UniRef90\_U1MX92 D F G Y V A G Q H L A L R K T I D G Q E L R R S Y S I C R P P T P G S I A V A  
UniRef90\_UPI00025584C3 K F N F I Q G Q F L A L R A M I D G G E V R R R S Y S I C S G V T D G  
UniRef90\_R7BSM4 P A F F R A G Q Y V V V R Q K L I A R P I S I S S C G P D F S D L D G K Y V  
UniRef90\_L7PIL8 E F R Y R P G Q Q F L T L H L P G T D R T V T R C Y S I S S S P H T S D P L M V T  
UniRef90\_B0S2C6 I K F K P G Q Y V Q L K A E E Y P D E E V F R A Y S I A S S I R D E K H I E L L  
UniRef90\_C5A909 Q Y R E T Q G Q F V T L R A Q Q G G E E T R R S Y S I C T D Y D R D G E L R I G  
UniRef90\_R7YJ11 L K D V W K A V W S I Q V K Q P Q L Q I A R A Y T P L P P T P A G S E T E  
UniRef90\_UPI000374A41B A S F R P G Q Y V S V Q V E L A D G A R Q I R Q Y S I S S A P G R Q D W R T S V  
UniRef90\_UPI00037A9343 D F S Y H Q G Q H L T L K K F I N G E D V R R S Y S I C S S P V D D E W K V A V  
UniRef90\_F7XDY8 S F D F K G Q Y I S F K F D I N G E L C P R R A Y S I C S T P T R P H N V Q I T  
UniRef90\_UPI00035CF885 V P A A R P G Q Y V S V R V G P D G A R Q I R Q Y S I S S V P G D T A A W R I T  
UniRef90\_Q21BH7 A D Y F A P G Q Y L T L R T L D G G E L R R S Y S I C S S P P D D R E L R I A V  
UniRef90\_A3K7H7 L F R Y K P G Q Q F L T L E L P V P G G E L R R T Y S I S S S P S R P T S L T I T  
UniRef90\_W4HIE1 A F D F T Q G Q Y L T F R R D F D G D E L R R S Y S I C A G L D D G  
UniRef90\_UPI000466A053 L F E H L P G Q Q A M V S V P G V G E A M F S I T S S P T N K E Y Q E F S  
UniRef90\_F3NGK1 D F A F E P G Q S L T L R R R V D G R E R R S Y S I C A P A G S A P R I  
UniRef90\_I4YLN5 E F R F S P G Q Y L T L R R T I D G D E V R R S Y S I C A T P M E G  
UniRef90\_XOU4M0 I S Q R A G Q Y I Q L Q A P S P E G T V S R A Y S I S S P S D A K S V Q V V  
UniRef90\_I2JTM3 X L D S P L G Q H I Q I T S E I K G K V R Y T P T S L D E D K G X F Q L L  
UniRef90\_C4Y773 I A Q S L P G Q Q F L F K V P G Y E F E K T R N Y T I S Q T P V G N E Y R I T S V  
UniRef90\_X5LX05 Q F L Y L A G Q F V T L E A T I D G T R H R R C Y S M S S P A V E L D L R I T  
UniRef90\_L8MBM7 R F R Y K P G Q Q F L S F R V V V G G K R L T R C Y S M S S P D C D A L P K V T  
UniRef90\_V5PPD6 P G D F V P G Q Y V S V S V T L P D G L V Q R R Q Y S I S S D A P G A P H W R I T  
UniRef90\_UPI000363AC5D S P L F Q A G Q H L P L R F S V D G H T H R T Y S I L S G A P S D P F L R V S  
UniRef90\_UPI00046E7D3E L S Y R P G Q Q F L T V L F S Q D G H K I R R S Y S I S S P Y T D V S P A I T  
UniRef90\_I2X503 A Y R F R P G Q H L T L K A S F D G E E L R R R Y S I C R S Y L P G E I S V A  
UniRef90\_V6V3Y0 V A F A P G Q H L P V R L Q V D G E A P L R T Y S I S S A P S D G H L R I S  
UniRef90\_U5VQI5 S F R F T Q G Q H L V M R T Q L D G E E V R R S Y S I C T G V N D G E L R  
UniRef90\_A0CCA7 C L G T R I G Q Y I S L N D P K F D I N T T R Y Y C P I S R I D D V G M F D L L  
UniRef90\_UPI0003764B42 E Y R H A P G Q H L A L R R V V D G T E V R R T Y S I C S P A P G P D D A G P G  
UniRef90\_I2GR82 V R Y Q P G Q F L T F L N I N G Q K V R R S Y S M A S S P H V D S L A V S  
UniRef90\_UPI0002559C10 V A D F K P G Q F T T I L D I N G A T T R R N Y S I L S D S P D K P Y Y R I S V  
UniRef90\_F8G8Q5 L N F I A G Q F I T F L L T D K E G N L K R S I L G S L P S D N M L L E I  
UniRef90\_UPI00038109FE K F S Y A G Q Q F A E L S I T G K E L P I G I A S S P T E K G F V K F T  
UniRef90\_D2SED4 E Y R F Q P G Q A L T L R R V D G D R D E R R S Y S I C A P V  
UniRef90\_UPI000248ED53 D E F F V P G Q H L T L K A T I N G E D V R R R A Y S I L S S A Y E D N D I K V S V  
UniRef90\_UPI0003B78FB9 E A Y Y E A G Q H L T T R A D I G G E E V R R S Y S I C S A Q E  
UniRef90\_W9G116 E Y A F E P G Q H L T V R A T I G G E E V R Q S Y S I C Q S R G A A G  
UniRef90\_Q6LTY4 G D W D K F N I F R Y E S I V K H S T R A Y S M A S S P E E K G L I K L N  
UniRef90\_A8M5A3 L P F Q A G Q Y I S L R L Q I E G V R T S R A F S V S S S P T E R R H Y D L T  
UniRef90\_D3P5Q5 R F R F V Q G Q Y L T L K T R I G G E E V R R S Y S I C S G V G E G E L R

UniRef90\_A0A013XRF9 V K R E E Q G V V S R H L H K V S A G D L L K V S G P F G A F  
UniRef90\_UPI0003812043 D G P S T L R V G V R L V D G G A F S T Y L K E I N T G D V L E V M T P F A G R F F  
UniRef90\_B7IGF1 I R L V P G G V A F S T Y V H N L K E G D N L E V M T P F G G E F F  
UniRef90\_UPI000248A087 I A I R Q I P G G V A T T W A N T M V P G T A V D V M G P F H G S F F  
UniRef90\_L7M8N4 S D G K T V H L M I K I Y P D G A L I T P L L K A L E I G D K V D M K D T E G E F F  
UniRef90\_UPI0004746D2D V K R V P G G R V S N W L H A D L A P G A V V R A R G P M G R F  
UniRef90\_A0A059LNS4 V K T Y V D P P G G V M S S H M A E M K E G D T L E F K G P I G  
UniRef90\_UPI0003725C75 V A I K T Q P H G R F S S F A N S L R P G D R L E V M P P Q G H F  
UniRef90\_H4F0G3 V K A Q K D S I G T R W M F D N L K P G M A L K A I G P L G D F  
UniRef90\_L7MJY5 V I I K V Y P K G K M S K Y I R T L K E G S V E W R G P L G G F  
UniRef90\_A8LBM3 V K R V P G G L T S N W L D T L G E G D V L E V N P P G G S F  
UniRef90\_E9V060 V K R V D D G V V S N W L H N L E P G N W I S M H A P A G A F F  
UniRef90\_UPI00037453C8 R V G V R L V D G G A F S T Y A H E I A V G D E L E V M T P A G R F F  
UniRef90\_UPI00036F2823 L R V G I R L V D G G E F S S Y L K E L S A G D T L E V M R P T G R F F  
UniRef90\_L9PGT6 I K R T Q G L F S S W A D T I K P G V T L E V M P P A G G H F  
UniRef90\_S9T7K2 I K R V R S G Q V S N W I D H L G A G D T L E V M P P A G V F F  
UniRef90\_G9Y6E1 V K A I H Q G R F S T F V N Q L A V G D T L E V M L P Q G R F F  
UniRef90\_E3HWR2 L L R V A I K K V D E G V F S S W A H E L Q P G Q T L E V M A P A G N F  
UniRef90\_S2JNG0 I K I Y F P F N S I P G G K L T T S L D Q I R L G E T V D F K G P V G E I  
UniRef90\_B8CQH7 V K Q I E G G K V S N F L N S L E V G H V V R A L G P D G A F F  
UniRef90\_K4RGTO L D H V E D G G V S G W F H T A R T G D R V E V R G P L G G F F  
UniRef90\_UPI00047803FB V K R V A G G V V S N W L H N L R A G G A L A A S G P A G I F  
UniRef90\_J2Y3J9 V K R V A G G V V S N W L H N L R A G G A L A A S G P A G I F  
UniRef90\_A6ERY4 K K I I G G A F S S T F V N E L Q T G D T L E V M A P S G N F  
UniRef90\_A6R1T7 V K R Y P N G P M S N H L H N M A V G Q R L D F K G P L P K Y  
UniRef90\_J4I8H9 I K R Y A K G E V G R W L H S K K A G E M V E I R G P V V T W  
UniRef90\_UPI000255ABA5 S G K L T V G I K K V K G G T F S V Y A D E I K V G D V L E V M P P G R F F  
UniRef90\_UPI0004623122 I K R Y E R G E V G R W L H S K K V G D K I E I R G P L K T W  
UniRef90\_M7MJN2 V A V K R I P N G L F S T Y A T T K L K K G D E L E V M P P H G E F F  
UniRef90\_UPI000368D4D5 I K V Y F K G V H P K F P N G G Q M S Q H L D S L K K G D I E V M P P E G R F  
UniRef90\_Q6X1T7 R I S V K Q D G Q V S R H L H H L R Q G D R I E V R A P A G D F  
UniRef90\_J3CKU3 V K K V A G G L F S N Y L E K V F P G K T I N V L P L G N F  
UniRef90\_UPI00040EC3A0 I R Q V T K G A A T T F V H K V M I G D K I D I D G P F G D F  
UniRef90\_UPI00047E980A V K A I D G G R F S R Y V T D L H P G M T L D V M V P Q Q G F F  
UniRef90\_UPI0003B5983C G M G S I S V A I K R D L I G R F S T W A N S L K A G D T L D V M S P E G T F F  
UniRef90\_F0L790 V K A Q A T S I G T R W M F D N L K P G M K I R A L G P L G D F F  
UniRef90\_K1JT17 V K R I A A A G D A P A G L M S N H L H K L K A G D T I D V S A P A G E F F  
UniRef90\_A6VRC9 K R E G A G D I A G V M S N Y L H H L N V G D E I E A M P P A G D F F  
UniRef90\_W8IGZ3 K R D G T V S S L L H G L G P G D V I E T R A P A G S F F  
UniRef90\_E8N9B0 R G T I S V G I K R D P D G R F S S W A H E L R P G D E I D V M S P Q G T F F  
UniRef90\_E8WCW8 D P V L R V G I R M V D G G T F S T Y L K E L A V G D L V E A M A P T G R F F  
UniRef90\_UPI0002FC1A43 V K R I A Q G R V S N W F H H V R P G S V L E A M P T G R F F  
UniRef90\_E9BIZ1 V K R K K D G L M T N H L F G M H V G D T L L F R S V A F K I  
UniRef90\_W7IG32 V R I A T P P P G V R A I P G G L F S T W L A E V R P G D A V E V R S P S G T F F  
UniRef90\_A3VFZ6 V R K V F G V D G A P D G E V S S F L H S L K V G D L V D V S A P A G D F F  
UniRef90\_F5XTH5 N H E L R V A I K A V Q N G V V S T Y A N E K M K V G D K M E V G T P E G R F F  
UniRef90\_UPI000426334C H T H E F K V T V K E V Q G G V F S G L A N L Q A G D I L E V H P P E G K F F  
UniRef90\_H2BUC6 V K A Q P G S V G G R W M I D H L R P G M R L K A F G P A G I F  
UniRef90\_A1B5X1 Q Y M G L F M S R Y V E S W R A G D T A F W R G P Q G D F F  
UniRef90\_UPI0003AB567D I K R D L G G R F S T W A N S L R P G D R I D V M V P P Q G T F F  
UniRef90\_U1MX92 K M R V G I K R V D G G K F S N Y A D H F K P G M D I E V M P P Q G S F F  
UniRef90\_UPI00025584C3 I T V K R A P G G F M S E Y L D N W K V G D E V T T S G P Q G V F  
UniRef90\_R7BSM4 V K R T P S G R V S D W L R S V R P G S V V H V Q P P S G R F F  
UniRef90\_L7PIL8 I G Y T K G I C T T Y C H K L K E G D K V T I N G P Y G D F F  
UniRef90\_B0S2C6 I K R V R G G R F S N F D T L K A G D T I D V M T P D G R F F  
UniRef90\_C5A909 D D Y G N L R L L I R K E H N G E V S T F L H R L P E G S A V E I R G P  
UniRef90\_R7YJ11 K R V H D V A R P D G E V S T W L H H A R P G D V L E V S A P F G D L  
UniRef90\_UPI000374A41B K Q I F E G K F S T Y V N Q E L K V N D V L E V M P P S G E F F  
UniRef90\_UPI00037A9343 V K R V P G G L V S N W L D H M R P R M S V E I A D I A G R F F  
UniRef90\_UPI00035CF885 V K R V R D G G G P D G E V S T R L H H A R P G D L L E V S V P F G D L  
UniRef90\_Q21BH7 K K V N G G A F S G W L E Q L K S G D Q I E V M T P S G R F F  
UniRef90\_A3K7H7 V K A Q D G S L G T R W L D H L R P G V R L K A I G P G G Q F F  
UniRef90\_W4HIE1 I K R C V L R V G I K R V D G G A F S T W A E L K P G D T L E A M A P M G K F  
UniRef90\_UPI000466A053 I K R C V L R V G I K R V D G G A L T D Y L H N M E V G E E V T V R M T P Y G N  
UniRef90\_F3NGK1 A V R E V P G G L F S S W L H E V R P G D T I E V M T P T G A F  
UniRef90\_I4YLN5 R L R V G I K K I A G G A F S S W A E K L A P G Q V I E A M P P M G N F  
UniRef90\_X0U4M0 I K V L V P G G I G S T Y V H N L N E G D T V M F T G P Y G E F F  
UniRef90\_I2JTM3 K K V Y P N G N V S R Y I D G L E I G E S I E V K G P K G F F  
UniRef90\_C4Y773 V K R D R D D G G A C S T Y V H S L K E G D I V K V S P N G H F  
UniRef90\_X5LX05 I K R V E G G R V S N W L D T V S V G D E L H I A P E G R F F  
UniRef90\_L8MBM7 V K R E D A D V A K P A G Q V S N W L H H L K A G D R I M V S P P Y G E F F  
UniRef90\_V5PPD6 V K R D G L V S S H V D L Q V G D L L E A R A P Q G H F  
UniRef90\_UPI000363AC5D I K R L P G G F A S N L L D S L K E G D V V E A M P P A G N F  
UniRef90\_UPI00046E7D3E V K A I E G G R F S R Y A E H I R Q G M T L E V M V P Q G H F  
UniRef90\_I2X503 V K A A Q G P A S R Y A L H Q L K V G D P L Q V R L P M G S F  
UniRef90\_V6V3Y0 V K V A I K R V A A G R F S A Y A E S L K A G Q R L E V M P P S G H F  
UniRef90\_U5VQI5 V H A I Q A E N K N F S T H I T T L N D G H I L N I N G P F T N Y  
UniRef90\_A0CCA7 T L R V G V R L V E G G A F S T Y L K E I A V G D E L D V M T P A G R F F  
UniRef90\_UPI0003764B42 V K R V P G G L A S N Y L D R I K P G D I E T L E P M G T F  
UniRef90\_I2GR82 K R E P E G L V S N Y L H H L N P G D T V K L T P P C G D F  
UniRef90\_UPI0002559C10 G I T Y V K G G L V A T D T F F N M K I G D T A P A M G P A G R L  
UniRef90\_F8G8Q5 V N K T G L V T E Y L H N M K A G D I M A I R G P L G N  
UniRef90\_UPI00038109FE G A A P R V G V R E V P G G F F S S Y L H Q V Q P G D A I E V L P S G T F  
UniRef90\_D2SED4 K I A D G T F S I Y A N E N L K T G D V L Q V M M P S G K F  
UniRef90\_UPI000248ED53 Q S L R V A K R I D D G L F S S W F E H L K P G I A L D V M E P S G H F  
UniRef90\_UPI0003B78FB9 M R T R R R V A V A R V P D G R M S G W F D V V T A G D V V D V M T P L G S F  
UniRef90\_W9G116 V R I A T P P P N N P D V A P G I M S S Y I W S L K P G D N C T I S G P F G E F F  
UniRef90\_Q6LTY4 V R R V P G G R V S N H L D A V A P G D R L V S S G P I G T F F  
UniRef90\_A8M5A3 V A V K T V D G G L F S T H A N S L A P G A V L E V M T P M G R F  
UniRef90\_D3P5Q5

UniRef90_A0A013XRF9	T F T G
UniRef90_UPI0003812043	T <input type="checkbox"/> E P
UniRef90_B7IGF1	
UniRef90_UPI000248A087	T W
UniRef90_L7M8N4	E
UniRef90_UPI0004746D2D	
UniRef90_A0A059LNS4	
UniRef90_UPI0003725C75	
UniRef90_H4F0G3	S Y
UniRef90_L7MJY5	D Y K P N
UniRef90_A8LBM3	
UniRef90_E9V060	<input type="checkbox"/>
UniRef90_UPI00037453C8	T
UniRef90_UPI00036F2823	<input type="checkbox"/> <input type="checkbox"/> Q P R
UniRef90_L9PGT6	
UniRef90_S9T7K2	T
UniRef90_G9Y6E1	G Y Q P
UniRef90_E3HWR2	T
UniRef90_S2JNG0	Q Y <input type="checkbox"/> G
UniRef90_B8CQH7	
UniRef90_K4RGT0	A W P G
UniRef90_UPI00047803FB	
UniRef90_J2Y3J9	T
UniRef90_A6ERY4	
UniRef90_A6R1T7	P W E P
UniRef90_J4I8H9	P W Q
UniRef90_UPI000255ABA5	<input type="checkbox"/> F E P
UniRef90_UPI0004623122	P W Q
UniRef90_M7MJN2	
UniRef90_UPI000368D4D5	<input type="checkbox"/> F <input type="checkbox"/>
UniRef90_Q6X1T7	
UniRef90_J3CKU3	
UniRef90_UPI00040EC3A0	T
UniRef90_UPI00047E980A	
UniRef90_I2B8A0	G Y Q P R
UniRef90_UPI0003B5983C	T
UniRef90_F0L790	S Y
UniRef90_K1JT17	H
UniRef90_A6VRC9	<input type="checkbox"/> F Q D K
UniRef90_W8IGZ3	<input type="checkbox"/>
UniRef90_E8N9B0	<input type="checkbox"/>
UniRef90_E8WCW8	<input type="checkbox"/> <input type="checkbox"/> D P R
UniRef90_UPI0002FC1A43	<input type="checkbox"/>
UniRef90_E9BIZ1	Q Y R P N
UniRef90_W7IG32	
UniRef90_A3VFZ6	
UniRef90_F5XTH5	<input type="checkbox"/>
UniRef90_UPI000426334C	T F E P K
UniRef90_H2BUC6	<input type="checkbox"/> F E P
UniRef90_A1B5X1	S F
UniRef90_UPI0003AB567D	F Y K P N
UniRef90_U1MX92	T
UniRef90_UPI00025584C3	
UniRef90_R7BSM4	Y Y E G
UniRef90_L7PIL8	T
UniRef90_B0S2C6	Y Y H D E
UniRef90_C5A909	
UniRef90_R7YJ11	
UniRef90_UPI000374A41B	<input type="checkbox"/>
UniRef90_UPI00037A9343	
UniRef90_F7XDY8	N Y
UniRef90_UPI00035CF885	<input type="checkbox"/> <input type="checkbox"/> E
UniRef90_Q21BH7	
UniRef90_A3K7H7	S F
UniRef90_W4HIE1	
UniRef90_UPI000466A053	
UniRef90_F3NGK1	T
UniRef90_I4YLN5	
UniRef90_X0U4M0	
UniRef90_I2JTM3	T Y T P N
UniRef90_C4Y773	<input type="checkbox"/> Y K P E
UniRef90_X5LX05	<input type="checkbox"/>
UniRef90_L8MBM7	H
UniRef90_V5PPD6	T
UniRef90_UPI000363AC5D	T
UniRef90_UPI00046E7D3E	
UniRef90_I2X503	G Y Q P Q
UniRef90_V6V3Y0	T
UniRef90_U5VQI5	H
UniRef90_A0CCA7	<input type="checkbox"/> Y H G
UniRef90_UPI0003764B42	T
UniRef90_I2GR82	T
UniRef90_UPI0002559C10	<input type="checkbox"/> <input type="checkbox"/> Q
UniRef90_F8G8Q5	<input type="checkbox"/> <input type="checkbox"/> K
UniRef90_UPI00038109FE	
UniRef90_D2SED4	T
UniRef90_UPI000248ED53	K <input type="checkbox"/> N P Q
UniRef90_UPI0003B78FB9	
UniRef90_W9G116	T
UniRef90_Q6LTY4	
UniRef90_A8M5A3	Q H N P
UniRef90_D3P5Q5	H

UniRef90\_I5BZS5 1 10 20 30 40  
UniRef90\_J3FDS8 F H D L K V I T S I E R Q T P E A V A I A F E I P D Q A E E  
UniRef90\_D7W3R4 Q F H P L K I A K K E Q L T K N T F S L E F D I P P D R E E  
UniRef90\_UPI00036EDA84 F S A T I V T S I X D V T H D I K E V L C D L P P G R E  
UniRef90\_UPI0004766B44 P P M F Q R A T V T R I V K E S V D A R T F V L A P H D A  
UniRef90\_UPI000237E56C S L K V I A R V I R E T P A I A T F Y L V P A D G G Y P  
UniRef90\_UPI000478D6AE S V K I V K S I E Q V T H D V K R F I T E K P P D G G Y E  
UniRef90\_G9ZWT6 T T T T P R F H R L R I A D L K R E T R D A V S I A F D V P E D M R  
UniRef90\_A0A024J318 F R P F E F I S K A R E S T T I T S F R L A P L D R Q H  
UniRef90\_A5DR98 N G F K E F T I E K I Q N E A S D I V K S V Y F S P T D K S A  
UniRef90\_UPI000377BDD0 A E P V V T P N R N R P F H T L T V A D V E S L C D D A V A V T F D V P E D R D  
UniRef90\_UPI00035D3C7B F K E L E V V D K V K E S D V I T S F Y F K A K D G Q P  
UniRef90\_UPI00046F1617 K V V E V E Q L T H D I R R V K F E M N E  
UniRef90\_X7EF03 L E C V A T V P E A P N V M T F A F R P P S G A  
UniRef90\_I4X1Z5 F K D F T I A R K E K E S A N I T S F Y L K P V D G K N  
UniRef90\_Q9RC40 R E F S F V V E K K Q R E S A T I T S F Y L K P P E D G K A  
UniRef90\_U2RUQ8 F H T L A V A E V R P L T A A S V E V T F A V P P E R D  
UniRef90\_E9H2F8 T K M N P E T Y V D C V I E S V E P V C P S V F L F H F K L P E N H C  
UniRef90\_Q08KE1 P L R K G K F T I E K I Q N E A S D I V K S V Y F S P T D K S A  
UniRef90\_W6RN39 F H S L Q V V T D I R R E T R D A V V V T L T P Q D E D R  
UniRef90\_R7ZMM9 Y L T L K V R E V I R E T S D A V T I V E E Q P E P H  
UniRef90\_N6V4P8 W R R F R I A E K R R E S D V I T S F V L K P P E D G R S  
UniRef90\_UPI0002197BF3 K K R E L V C V A R E P L A R D L E T F W F E A A D G E P  
UniRef90\_UPI000262651E H E V R V E V R Q E T P S A V T L V L E D T G A E P  
UniRef90\_R617P9 V V V T G I K E L T H D V K L F T F K T P E G D A  
UniRef90\_UPI0003817D3A P A V A A R H R Y Y P L R V L R V V I T E T A E A R S I A F D V P S D T E  
UniRef90\_I9E3X2 N R F Y E L T I S K I T N Q L T T S S V M I T F E V P E L K R  
UniRef90\_J9JR26 Y W K C E L L G S F N V T H N T K F L L F K Y E Q N L Y  
UniRef90\_UPI00047BAE7B E E F K A F K V L K K E Q E S S V I T S F Y L E A S D G K P  
UniRef90\_K6W526 Q F H T L T V A E T E R L T D D A V A V S F V I P P E R E N  
UniRef90\_A5E720 F K E F K V T K I E E N A E V K S V Y F T P A D G S N  
UniRef90\_A1U9N8 V R L T V T D V I E E S H D A R S L V F A V A D G A R  
UniRef90\_UPI00042C959E Y R K C Q L S T S K E D V T H D T K L F C L M L P S T  
UniRef90\_B1AS42-2 S Q S C S A K L S P E T F L A F H I S T M E K V T K D T Y V R F T L P G N S  
UniRef90\_A0A024HFL5 Q W Q E W R V V R V E Q E S E A I R S F Y L Q P S D D T P  
UniRef90\_Q9LCI9 T I Q I E A P A H H V K Y S D Y D I P E E Y R  
UniRef90\_F7YRL2 T C V E R E A I A R D F V T F W L E P K K G E M  
UniRef90\_C6KTX9 F T R L R V K A V I A E T A D A S S I V F E T P D E Q N  
UniRef90\_F1Z383 R S F R V A D K Q V E S A E I T S F R L E P A V D G L P  
UniRef90\_N9VE28 R R L R C V A R E P L A R D L E T F W L E A D D D L P  
UniRef90\_U1S8C8 N Q W Q R W R V L S L Q Q E S S D I R S F V L A P E Q G A A  
UniRef90\_H2IJ78 T L T C V E R E E I A Q D F V T F W L E P S K G K  
UniRef90\_X6KWM2 A L E C V S I L P E S P N V V T V C F Q A P S G R  
UniRef90\_B8ND30 S K S T T L N P I T F T P Y Y L V S K E P V I S T G S I F T L K A P K P A S  
UniRef90\_A0A023D9N3 W R A F R V R S R H N E T S T I A S F E L A P V D G G A  
UniRef90\_UPI00036B93B2 A S T V V Q L H P K R L E L E V A E V I D E T A S T R T L R L V A T D H S L  
UniRef90\_G6YWR6 N N F K E F E V I K K E N E S I N T Y S F Y F K N N L F R  
UniRef90\_B0U0T3 H R L R I A E V I E E T A D A R S L V F E P Q Q  
UniRef90\_X0NWR1 K K V K T T I E K I T D V T H D I K E V L V K L P E G T D  
UniRef90\_V5WK49 S N K G P K A L N P E K Y I P F D L V Q K E R I S P D A Y R L R I S I K Q E  
UniRef90\_I1C558 E L T V S R V V Q E T A D A V S I W F E V P E Q Q G  
UniRef90\_H6R8X6 Y T A R V V K M E K L T H D V M R V L L K L P E G Q T  
UniRef90\_A0A011NWy6 T V L S D N E I W T Q L V C C A V V P E A P N T A T F S F T S P S G R  
UniRef90\_UPI00047BA1AA T L R C I G R R A D T H D V A S W Q F V P Q T G N  
UniRef90\_UPI0002355H9 S T P T S T L G S A R K F I P F A V I A R E Q V I S P N S F L T L K A P A P G V  
UniRef90\_E3QAIO L T V A E V I D E T H D A R S I V F E L P D T A K  
UniRef90\_H0R8B2 K P K L A F W S D T E E L E C V S F L P E A P N V M T F C F Q S V S G A L  
UniRef90\_UPI0003B6AC1D I E L T C T K K W I E T P D S V S F E L A S K S G E T  
UniRef90\_A6CUU4 I Q I E A P A H E V K Y S D F D I P T E Y R  
UniRef90\_A3QGH2 R K F R L I R A V Q E S S V I R S L Y L Q P V D G G E  
UniRef90\_H8L2V6 F Y P L K I K E I I R E T S Q A V S L S F E I P E N K E  
UniRef90\_UPI0004203139 T L I C K A V I G E T H D C K T L V F E D A Q S R  
UniRef90\_UPI000265750C F R D V T L T A R E Q I T H D S F L T F F D M P K G T  
UniRef90\_UPI0003A6F1A1 T F N T L Q V S Q V R P L T D D S V E V S F A V P E D R D  
UniRef90\_UPI00040BAC92 F Y S L T V Q K I K Q L T P N S V A I T F T I P K E T Q  
UniRef90\_UPI00028834C5 R G F K P F K V T K V V T E N E L V K S F Y L V P A D G A  
UniRef90\_UPI00030DD063 N R W R P L R V I R I V E E S A T I R S F H L A A A D G T A  
UniRef90\_A2W5M8 R A W R P F R V A K L T D E S T L I R S F Q L D P A D G A G  
UniRef90\_UPI0002DF26CD D G Y R S F Y V D K K V D E S D N I T S F Y L K P A D G K G  
UniRef90\_UPI0003815E84 Q W R P F K V A R I V D E S R S L R S F H L Q P D D G A G  
UniRef90\_UPI0002E4F983 V F Q R A T V T R I V K E T A D A Y T F V L A P H E T  
UniRef90\_UPI00036D4409 T R L R V V D I L D E T H D C K T F R L M P V Q P L  
UniRef90\_A4A897 F H K V H I Q E V K K E T A N S V S V L F K I P E H Q S  
UniRef90\_UPI00036C2E5 Q F E Q P L T I K S I Q P Q T E Q A I C I A F D L P E Q A D  
UniRef90\_N9ML79 L T P E T W R T W R V V Q R I Q E T A D V S F V V E R T D R D  
UniRef90\_UPI00047AC008 P I K T C S T Y V E K I E S L T H D I R K L S L K I E N S E K  
UniRef90\_UPI000346561B M E N K E S F I P Y K I I D I K Q E T P D V K T F S V V G L D G K  
UniRef90\_F2NRZ2 Q T L T L K S I E P V T H D T H H L V F D K P E G  
UniRef90\_S9QIP9 A A P G R C Q L G D D W T P C A L R D R V W V S D D T M V A T F D L P D A S A  
UniRef90\_F0YE43 E G F K P F V V K K V K E S N A I T S F Y L K P A D G G P  
UniRef90\_G2TLI6 H R L R V A D V E R L T D D A V A V T L D V P P E L  
UniRef90\_UPI00047DA603 K K F K A L V E K L R N V T Y D I K E L T L K L P S I D  
UniRef90\_A8F5J7 R A F R L E K K V Q E S A E I S S F Y L V P A D G G K  
UniRef90\_UPI00040A6106 L H P D R Q H M L E C I A V T V E T S D V M T F T F R S D R D N W  
UniRef90\_A0A021X4M2 S E P A A T Q S P W Q T V E L T I R L E K R T P R V T S F F L Q P S R  
UniRef90\_M5FD57 R E F E L V A K E K S E Y I T S F T F M P T D D L T  
UniRef90\_B6EMQ0 D G E V W Q E M T I T E R R T E T P D A I S L V L R R T D G R P  
UniRef90\_UPI000374B524 S S T A T L N P S T F T E Y E L V F K T P V I S T S S I F T L R P V K S G H  
UniRef90\_C1GXP0 P H V V H Y K F A I Q D E Y R  
UniRef90\_S9ZIK4 L E L V N R E V V A H D V V Q L T F A P D G S P  
UniRef90\_F6EMV7

	50	60	70	80
UniRef90_I5BZS5	A F A F T P G Q Y L T L A T E I D G K E A R R S Y S L C S A P G D P Y L R V G	L T F R F V P C A G G K L L T T Y S S M A S S A P L T E D K Q K P K V L G	L T F R F V P C A G G K L L T T Y S S M A S S A P L T E D K Q K P K V L G	
UniRef90_J3FDS8	R F G Y R A G G Q Q F L T F R F V P C A G G K L L T T Y S S M A S S A P L T E D K Q K P K V L G			
UniRef90_D7W3R4	N L S R G Q Y A G G Q Q F V E L P P Y F G K L R E R T M R D A Y S S M T S S A P Y E G R K S E L S L G			
UniRef90_UPI00036EDA84	F L T Y R A G G Q Q F C T F R V A V D G R E L F R S Y S M S S A P P E T D T E F M T T			
UniRef90_UPI0004766B44	F D F K P G G H A T E I S I N Q T S D G W K N E K R P F T F T S L N E D D G E H L E E L T			
UniRef90_UPI000237E56C	F T Y E P G G Q Y L T V R V Q I V P G G Y M E L N R A Y S S I S S A P G N D Y Y R L S V			
UniRef90_UPI000478D6AE	Y A F A P G Q Y L T L R T T L E N E E V R R S Y S I C S S G P D D G E L R I A T			
UniRef90_G9ZWT6	W R P F E A G G Q Q F L T I R V P D K G F H V L R N Y S I V S S E F P R E E G T Y R I T			
UniRef90_A0A024J318	I A T P Q R G G Q Y V C I R W K L P G G F E K S R E Y S L S S E F P T E N H Y R I S V			
UniRef90_A5DR98	E F D F R P G G Q S L M L S R T V D G V E H R R R S Y S I C A P A P G N D Y Y R L S V			
UniRef90_UPI000377BDD0	L P T Y E P G G Q Y L T V R V Q I V P G G Y M E L N R A Y S S I S S A P G N D Y Y R L S V			
UniRef90_UPI00035D3C7B	D F P F K P G Q Y L T V R V Q I V P G G Y M E L N R A Y S S I S S A P G N D Y Y R L S V			
UniRef90_UPI00046F1617	R F W F R A G G Q Q F V T L D L P V P G G N V Q R F T T I S S S P T T S A F I T V T S			
UniRef90_X7EF03	V P S Y Q P G Q Y I S V R M S I P G G E Q Y L F R Q Y S L S Q A A Q E D E F R I I S			
UniRef90_I4X1Z5	L A S Y K P G G Q Y I S V R M S I P G G E Q Y L F R Q Y S L S Q A A Q E D E F R I I S			
UniRef90_Q9RC40	A Y D Y L P G Q H V A L R A E V D G R E L R R S Y S I C R P P L P P L P P L P P L P P L P P			
UniRef90_U2RUQ8	M E F S A S Q H L I A R E S T S N S T I S R S P Y S T L I S S S P N R E G E F F E F V			
UniRef90_E9H2F8	I K F F P S G Q Y M D F I V P G T E E S R S F S M A N T P N R E G E F F E F V			
UniRef90_Q08KE1	A F D F T Q G Q Y L T F R R K F D G E E L R R S Y S I C A G R D E G P H P A I T S			
UniRef90_W6RN39	L E Y K P G Q Y L T V I T E I N G K E E R R S Y S L C T S P Y L D D P H P A I T S			
UniRef90_R7ZMM9	V A D H L P G Q Y L T F R I V V P G K G E F R R R A Y S I S S A P N G D P H P A I T S			
UniRef90_N6V4P8	L P D Y L P G Q H L P I S L D I K S T R V Q R R Y T L S S T P E R P E R Y S I S S			
UniRef90_UPI0002197BF3	R F D F R P G G Q F T L V A D L D G R Q V R R A Y S A S S A P P G			
UniRef90_UPI000262651E	P F A S K P G G Q L G M F S V P P F G E C M F C I T S S R G D D Y V E M A			
UniRef90_R617P9	V F A Y K A G Q Q F V T L R L P A G G T A V R S Y S M S S S P V V D A E L R V T			
UniRef90_UPI0003817D3A	V F H F E A G E Y L T I K Q N T I G G E K V R R A Y S I C S G V N E G E L			
UniRef90_I9E3X2	N H I Y P A G R H Y I K A N V I N G H V S R P Y T P V W P L V E T T E Y G K I			
UniRef90_J9JR26	V P N F Q A G Q Y I T I R L S I P G E E Y L R Q Y S L S D S P G K Q T L R I S			
UniRef90_UPI00047BAE7B	A F A F E P G Q H L T L R A T L D G D D V R R S Y S I C R S P A D N E Y R I S V			
UniRef90_K6W526	I G A A K P G Q Y V C L R W K T P D F E K S R E Y S I S Q I P K D N E Y R I S V			
UniRef90_A5E720	F D Y R P G Q F L T L R V P G E Q G G A V A R C Y S L A S S P H T D A A P K V T			
UniRef90_A1U9N8	H L Q V P V G Q H V L K L P I T E F K E P P I T E F K E P P I T E F K E P P I T E F K E P			
UniRef90_UPI00042C959E	R I Q V L R P G G Q H V L L R G V V D G L E I Q R A Y T P I S P V T A E G Y F D V L			
UniRef90_B1AS42-2	V S F A P G Q H L P M R L Q I G E Q A L V R T Y S L S S A P S D G E L R I S			
UniRef90_A0A024HFL5	G D W P H G F F D E V E S K V D E D N T R A Y S M A N C P E E A G G I M L I S			
UniRef90_Q9LC19	P N Y Q P G Q H L P I E V V I D G E N V A R R Y T L S S S P S R P A G G I M L I S			
UniRef90_F7YRL2	A F R Y K P G Q F L T L R V P V N G G E D E L R C Y S L A S S S P A T G E N L K V I T S			
UniRef90_C6KTX9	V T R F Q P G Q H L L G L R L A I D G Q R I L R R Y S L S S Q K A D G R S L R I S			
UniRef90_F1Z383	L P D Y L P G Q H L P I A I D L D G Q R I L R R Y S L S S Q K A D G R S L R I S			
UniRef90_N9VE28	L P D Y L P G Q H L P I A I D L D G Q R I L R R Y S L S S Q K A D G R S L R I S			
UniRef90_U1S8C8	P L F A A G Q H L P I R I T T A T G D I L L R T Y S L S S A P S D P G Q L R I S			
UniRef90_H2IJ78	L P N Y L P G Q H L P I D V E V E G K I G R R Y T L S S S P S R P G R Y A V S			
UniRef90_X6KWM2	P F N F Q A G G Q F L T L E L V P G G K P L Y R T F T L S S A P S R P Q S L T I T			
UniRef90_B8ND30	D N Q W K T G V W S V M F K Q P Q L Q I G R D Y T P L P P P T S V			
UniRef90_A0A023D9N3	L F R H K A G Q Y L S F K L D V P G H G S Q R R A Y S M A N Y S A P G A D H Y R I S			
UniRef90_UPI00036B93B2	F R P D W D K F W R Y S E V K E P I M R A Y S M A N Y S A P G A D H Y R I S			
UniRef90_G6YWR6	L P F Q A G Q Y I N L F V E I D G V A T A R P Y A I S S S P S D E K G L V M L N			
UniRef90_B0U0T3	R Y D F K P G Q Y L T V R V P Y N G T T M R N Y S I S S S A T G E D Y I R I T			
UniRef90_X0NWR1	L P Y A P G Q F L T F K L P G R D G G A A A R C Y S L A S S S P H T G E P M K V T			
UniRef90_V5WK49	L Q Y E Q Y G Q F E A P K Y G K V K E A T Q R A Y S F S S D P Q D K E H L E F L			
UniRef90_I1C558	F G K S Y P P S C L Y I K D D T I Q V M R P Y S T P I N P H K D D G Y I D F V			
UniRef90_H6R8X6	V F A Y D P G Q F L T L R I P G D D T I Q V M R P Y S T P I N P H K D D G Y I D F V			
UniRef90_A0A011NWy6	I A F K A G Q Y V N I L L D D G Q R R A F S F A N S P H E P E F V L A V T L Q			
UniRef90_UPI00047BA1AA	L F R Y E P G Q F L T L E L P I A G N T I W K T Y T L S S S P S R P M T I S V T			
UniRef90_A0A023S5H9	L P A V L A G Q C V T L H T E L D G K P Q C R A Y T L S S C P Q D A C W Q V T			
UniRef90_E3QA10	A S L W H V F D L W C V E V K Q P Q I Q V A R E Y T P L P P P P G G A D E D T L			
UniRef90_HOR8B2	E A F T Q Y K S G Q F L T L R T P S D Q V A R C Y S L A S S S P A R D E L P K V T			
UniRef90_UPI0003B6AC1D	F S Y D P G Q F L T L E L P V P G G P L Y R T Y T L S S S P S R P T S L T V T			
UniRef90_A6CUU4	E F Q F K P G Q F S S L G F D I N G S R A Y R A Y S I S S V I G S K T L K F T V			
UniRef90_A3QGh2	D D W E K Y G L F D L V S T V E D V L R A Y S M A N Y P D E K G V I M L N			
UniRef90_H8L2V6	V L H N Q P G Q Y I G L R V V V D G V E T R R N Y S L S A S P D G R E Y R I S V			
UniRef90_UPI0004203139	E F K F K A G Q Y I T I K Y D T E N G E I R R A Y S L C S A P N S E D F K			
UniRef90_V9VP95	S F D F K P G Q Y I T F S F R I G G K T H V R A Y S L S S T P T R P H N I Q V T			
UniRef90_UPI000265750C	L I H V P V G Q H I S L R V K P D G S Y L T R A Y S T P V I P S L N C S E Y Q S L T			
UniRef90_UPI0003A6F1A1	D Y D Y V P G Q Y V A L R A T I G G K E V R R S Y S I C D S P G S G V I R V G			
UniRef90_UPI00040BAC92	A F A F T A G Q Y I T I K K E I K G K E L R R A Y S S L S S S			
UniRef90_UPI00028834C5	L P S Y Q A G Q Y I T I K K E I K G K E L R R A Y S S L S S S			
UniRef90_UPI00030DD063	L P V Q A G Q F V R L T P V A G Q A P A L R S Y S L S S A P A D G H Y R I S			
UniRef90_A2W5M8	L V P H L A G Q H I R V N P S E D G D P L I R T Y S L S S A P S D G V Y R I S			
UniRef90_UPI0002DF26CD	I A S Y K A G Q Y L T L K A T I P G Y T H I R H Y S L S S S P S R P H L E E L T			
UniRef90_UPI0003815E84	L L P H Q A G Q H L P I R L S L P G I D V I R T Y S L S V A P S D G M Y R I S V			
UniRef90_UPI0002E4F983	P F A Y R A G Q Y S T F Q V K V D G E E L Y R S Y S M S S P D T D T E L M T T			
UniRef90_UPI00036D4409	L F C Y K P G Q Y V T F Q V K V D G E E L Y R S Y S M S S P S R P H L E E L T			
UniRef90_A4A897	G D W E R F G F F K M S S Q V D E T V I R A Y S M A N Y P E E K G V K F N			
UniRef90_UPI00036C2E5	D F Q F T A G Q Y I T I R T E I K G I L T R R A Y S I C S T P R E S G D L R V S			
UniRef90_N9ML79	L F Q Y Q P G Q H I T L I R H E L T E G G E I R R A Y S I C S D R A E D			
UniRef90_UPI00047AC008	V K P S L P G Q Y V T L K M T M P D G V Q Q P R Q Y S L T K A D D G Q H R Q F A			
UniRef90_UPI000346561B	L T F H S G Q F V D T Y L P G E D T Y R S Y S M A N T P S Q S N R L E F F M			
UniRef90_F2NRZ2	L F E H I P G Q C A M L I V P G V G E S M I S I T S P T L E T H M E F S			
UniRef90_S9QIP9	F S F E P G Q A V D M A L D R D G W R E E K R P F T F T S L P D E R E L A			
UniRef90_F0YE43	P L G L S T C A C V L A R G G D D G E P V V R P Y T P V I S T N A L V G A F Q V M			
UniRef90_G2TL16	V P S Y L P G Q Y L T L R V K I P G E T Y L R Q Y S L S C G P G H E Y F R I S			
UniRef90_UPI00047DA603	A A D Y E F A A G Q H L N V S L P G G D G V R R S Y S I C S P A G S G V L R F A			
UniRef90_A8F5J7	F K A G Q Y I Q L S I P P Y E K I T Q T T Q R A Y S I S S V I P S Q K D R I E L L			
UniRef90_UPI00040A6106	V L J A H Q P G Q Y I G L R L M I D G Q E Q R R N Y S L S A A N G Q S L R I S V			
UniRef90_A0A021X4M2	F R Y L P G Q F V T L E I P V A Q D D P V L R T Y T L S S T P S R P F S V S V T			
UniRef90_M5FD57	P F A Y R A G Q H V D V R T A P D G Y Q A R R S Y S I A S A P E A G E T I E L A			
UniRef90_UPI000374B524	V S S Y K P G Q Y V L N P E E F N Q E V R R Q Y S L S S A P E A G E T I E L A			
UniRef90_B6EMQ0	V G V P R A G Q Y V S V R V E P D D A R Q I R Q Y S L T S A P D E A W R I T V			
UniRef90_UPI000374B524	S S A V H K E A W W S V F Q F K Q P L Q I G R A Y T P L P S Q S E K S D N G E M			
UniRef90_C1GXP0	G D W K E F D M W R V F V S K V D E T T I R A Y S M A N Y P D E K G V K F N			
UniRef90_S9ZIK4	L P A W Q P G C H L D I H L P S G R R R Q Y S I C G D P S D T G H Y R I A			
UniRef90_F6EMV7	L P A W Q P G C H L D I H L P S G R R R Q Y S I C G D P S D T G H Y R I A			

UniRef90\_I5BZS5 V K K V 90 A D G R F S T F V N D V L S V G D T I R V M P P Q G R F  
UniRef90\_J3FDS8 V K R V E G G R V S N R M N E V Q V G D W L E V L P P A G H F  
UniRef90\_D7W3R4 I K I N S S E G G A T S Q L F Q N Y N M G D L R W L S E P P A G R D F  
UniRef90\_UPI00036EDA84 I R L V P E G G I V T T Y V H L K E G D T I R L V S G P F G R F  
UniRef90\_UPI0004766B44 V K R V P G G A V S N W M H N L A E G D E V E I S Q A S G R F  
UniRef90\_UPI000237E56C I K R E E Q G L V S R Y L H T V K E G D L L K I A G P A S G M F  
UniRef90\_UPI000478D6AE I K I Y P G H D G V T E Q L A K L K E G D E L I V R D T W G A I  
UniRef90\_G9ZWT6 V K Q V D G G A F S T W A N A L H A G D E L D V M T P T G R F  
UniRef90\_A0A024J318 V K R E A A P S Q D V P A G G V S S W L H E I E P G A T V E I D L P R G G A F  
UniRef90\_A5DR98 R K G A R P R V G V R E V T D G L F S S W L R E V K A G D R I E V Q G P T G N F  
UniRef90\_UPI000377BDD0 K R E A D F E P N G K V S N Y I H H L N V G D T I E A S A P A G N F  
UniRef90\_UPI00035D3C7B V I I R L V P G G V A T S F V H K M M V G D K L K I T G P F G D F  
UniRef90\_UPI00046F1617 V K A Q A D S V G S R W M L D N L R P G T R I K A Y G P A G H F  
UniRef90\_X7EF03 V K R D A D N D P N G R V S V Y L H E M N V G D R F E I S A P A G E F F  
UniRef90\_I4X1Z5 V K R E G D G D L P G I V S N Y L H H I H E G D V L E I T A P A G D F  
UniRef90\_Q9RC40 D R D G R I S V A T K R D L G G A F S T W T S E L K P G D R I D V M S P Q G T F  
UniRef90\_U2RUQ8 V T K F T V L I K L Y P D G L F S E F L E K V Q V G D Q L E V E A P F G T F  
UniRef90\_E9H2F8 I K I V L R V G I K R V D G G G F S T W A N E L S V G D T M E A M P P M G A F  
UniRef90\_Q08KE1 V K R L S G G I V S N Y L D H I F P G K K I A V M K P L G N F  
UniRef90\_W6RN39 V K R E P S G V I S N Y L H K L V V G D V L E V A P P A G D F  
UniRef90\_R7ZMM9 V K K L A D G R L S P W L H H L R V G D H L L A A P P A G E F F  
UniRef90\_UPI0002197BF3 S S R L E V T V K R V D G G G F S T Y V H S L R A G D R L W V R G P P G S F  
UniRef90\_UPI000262651E V K K V G V V T E Q M H K L R V G D S V L G V R G P Y G N F  
UniRef90\_UPI0003817D3A V K R V P G G L I S N W L H T V G E G Q V L D V L P P A G T F  
UniRef90\_I9E3X2 S E D T L C L L V K S Y V P N G V F S T Y T T Q L K A G D V L E V M R P P K G S F  
UniRef90\_J9JR26 V K K E T C L L V K S Y P N G K L S K H L C S L S Q G D S I E V S R P Q G S F  
UniRef90\_UPI00047BAE7B T A R G E L R V A A A R V E A G V M S N W L D A V A A G D E V Q V M E P M G T F  
UniRef90\_K6W526 R R L P D G I V S G F I H E L K V G D I L K V A P P N G N F  
UniRef90\_A5E720 I K R L V D G G Y G S N W L D N V A G Q V I E A L P P S G V F  
UniRef90\_A1U9N8 P N N I Y I Y F L I K I Y P A G F F T P E L D Q L Q I G D Y V S V S N P E G N F  
UniRef90\_UPI00042C959E I K A Q Q L A S R H L H E V R V G D R L Q V R A P T G R F  
UniRef90\_B1AS42-2 V R I A T P P P R D L S L P A G K M S N Y I F S L K A G D K V T T I S Q S P F G E F  
UniRef90\_A0A024HFL5 V K R L D G G R V S N W L D N L Q V G S T L T T S G S P D G S F  
UniRef90\_Q9LC19 V K R V A D G R V S N W L D N L G A G D N L L V M P P K G I F  
UniRef90\_F7YRL2 V K R E P G G V S N H L H A V K V G D T L D V F P P A G E F  
UniRef90\_C6KTX9 V K R L E E G V R S P W L H E L Q V G Q T L L A H A P P A G E Q F  
UniRef90\_F1Z383 V K A Q G L V S R H L H E I Q V G D V L D V R P P L G S F  
UniRef90\_N9VE28 V K R G G R V S N L L D N L Q V G D V L E A E N P D G E F  
UniRef90\_U1S8C8 M K A Q A S S I G V R W I I D N L R P G M T L K A T G P A G R F  
UniRef90\_H2IJ78 E E D E S L R F F I R R D P F G E M S R Y L H H G L D M G T R I E M R G P Q  
UniRef90\_UPI00036B93B2 V R R Q D D G V V S T W L H T V K V G D Q L Q V A N P A G D F  
UniRef90\_G6YWR6 V R V C P P P M Q I P D A P G Q M S F I F N L K P G D K V E I S G P Y G E F  
UniRef90\_B0U0T3 V K R A Q G G F V S N Y L D R V A A G Q R F L S S G P M G T F  
UniRef90\_X0NWR1 V K R E G Q G Y V S Q Y L H E I K V G D R I E I A P P C G E F  
UniRef90\_V5WK49 V K R V P G G H G S N W L D H A R P G T E L E V L P P A G T F  
UniRef90\_I1C558 I R L V P G G I V T T Y V H E L K E G D S I N I V A P V G D F  
UniRef90\_H6R8X6 V K R Y E N G S V S R T L S G F E P K D Q V H I R G P M  
UniRef90\_A0A011NWy6 V K R T E G G Y G S N W L D N L K V G A E V T V L P T G H F  
UniRef90\_UPI00047BA1AA I R L M T G G K F T T H F E K M K E G D E V R F E G P I G D F  
UniRef90\_A0A023S5H9 V K A Q K D S I G T R W M L D H L Q P G M K I K A T G P A G I F  
UniRef90\_E3QAIO I K D V G L V S H H L H R L Q V G D E I R V D G P F G D F  
UniRef90\_HOR8B2 R L Y V R A V R G G E V S T Y L S R L S P G D T V E L R G P H G E F  
UniRef90\_UPI0003B6AC1D V K R T V D G Y G S N W V C D N L S A G S Q I E V L P P S G V F  
UniRef90\_A6CUU4 V K A Q A G S V G T R W M L D N L R S G M R L R A K G P A G N F  
UniRef90\_A3QGh2 K R V A G G L V S N H I E Q L E V G A Q V E A L A P L G H F  
UniRef90\_H8L2V6 V R I A T P P S E G L P P G K M S S Y I F N L K A G D K V T I S G P F G E F  
UniRef90\_UPI0004203139 K Q E P G G V M S G Y L H A L P E G A E L E L F P P A G E F  
UniRef90\_V9VP95 V T V K E V E G G S F S V I A N N L T A G D I E V H P P E G K F  
UniRef90\_UPI000265750C V K R G L V L M V K I Y Y K V P G G L V S N H L D E I R P G A E I E I A D I S G S F  
UniRef90\_UPI0003A6F1A1 G K R I V L M V K I Y Y K G Q M T I L L D S M K I G D R I E M A D S V G T F  
UniRef90\_UPI00040BAC92 I K R D F G G V F S T W A N E L Q V G D E I D V M N P Q G A F  
UniRef90\_UPI00028834C5 P K S D S I T I G V K K V D K G G F S A Y A H S L K E G D V L E V M P P E G R F  
UniRef90\_UPI00030DD063 R I S I K A E K Q A T P Q G V V S N Y L H N L K E G D E I M V S V P A G D F  
UniRef90\_A2W5M8 V K R E G L V S T W L H D L R E G D L L D T R P P A G D F  
UniRef90\_UPI0002DF26CD V K R E G R V S S H L H D V Q V G D N I D V R A P A G Q F  
UniRef90\_UPI0003815E84 K R D A H D D S P D G I V S N Y L H N V K V G E Q L E F S A P A G D F  
UniRef90\_UPI0002E4F983 I K R V P G G K V S N W L D N V T E G D E L T M T R A A G T F  
UniRef90\_UPI00036D4409 V K R P D G L V S N W F C N I K P G D E L T V T G P L G H F  
UniRef90\_A4A897 I R I A T P P P G S E G I P P G Q M S S W V F G L K P G D K V T V Y G P F G E F  
UniRef90\_UPI00036C2E5 I K A V E N G V F S T Y A T S H L K A G D E I E V T A P E G R F  
UniRef90\_N9ML79 M S I A I K K I D Q G Q F S T W A E H L K A G D V L E V M P P Q G V F  
UniRef90\_UPI00047AC008 V K R V H G L P T P D G E M S T L L H N V Q V G D E V V L S A P F G D L  
UniRef90\_UPI000346561B I K I F K G G K F S T L L D E L K L G D Q E I T I R G P F G N  
UniRef90\_F2NRZ2 I K K C G C V T E W L H S A E V G Q E L C I R G P L G N F  
UniRef90\_S9QIP9 F V I K S Y P E G S D G H E G V T D R I G K L T P G D T V L V D E P W G A I  
UniRef90\_F0YE43 V K I Y E R G T L S R A L A A L D V G D A V D E F K  
UniRef90\_G2TLI6 V K R E A D H E P N G K V S T Y L H H V K T G D A V E I S A P A G A F  
UniRef90\_UPI00047DA603 V K R L P G G A F S E H L A T L A A G D E L D V M T P A G R F  
UniRef90\_A8F5J7 I R L V P G G I A T T Y V H K M K E G E Q V E I T G P F G E F  
UniRef90\_UPI00040A6106 K R E P G G K V S N F L H Q L Q V G D T L A L F P A G H F  
UniRef90\_A0A021X4M2 V K A Q K S S I G T R W M F D N L K P G M K L K A F G P L G D F  
UniRef90\_M5FD57 I E K L D D G E K A S P F F H E V A V G D E V E L R A P L G H F  
UniRef90\_B6EMQ0 K R E E G G K A S T Y L H S L N I G D E V N L T A P A G D F  
UniRef90\_UPI000374B524 K R V R D E G L P D G G E V S C H L H H A R A G D T L T V S A P F G D L  
UniRef90\_C1GXP0 T G D S A L R F L I R R D P H G E V S G Y L H N L P T G A R V D V R G P R L  
UniRef90\_S9ZIK4 I R V A S P P P G R D D I P P G K M S S W V F N L K K G D K V T V Y G P F G E F  
UniRef90\_F6EMV7 V R K I P D G G G G S L E M H S L R V G T S V E I R G P R N G F

UniRef90_I5BZS5	T
UniRef90_J3FDS8	
UniRef90_D7W3R4	T
UniRef90_UPI00036EDA84	
UniRef90_UPI0004766B44	
UniRef90_UPI000237E56C	T F T G E
UniRef90_UPI000478D6AE	E Y K G
UniRef90_G9ZWT6	
UniRef90_A0A024J3I8	K
UniRef90_A5DR98	T Y H E N
UniRef90_UPI000377BDD0	H
UniRef90_UPI00035D3C7B	I
UniRef90_UPI00046F1617	F L Q
UniRef90_X7EF03	H
UniRef90_I4X1Z5	V
UniRef90_Q9RC40	T L Q
UniRef90_U2RUQ8	T
UniRef90_E9H2F8	D Y K P N
UniRef90_Q08KE1	T
UniRef90_W6RN39	
UniRef90_R7ZMM9	T Y H S K
UniRef90_N6V4P8	F L K E N
UniRef90_UPI0002197BF3	H
UniRef90_UPI000262651E	H
UniRef90_R6I7P9	P Y E
UniRef90_UPI0003817D3A	V
UniRef90_I9E3X2	V F
UniRef90_J9JR26	E
UniRef90_UPI00047BAE7B	V L D G
UniRef90_K6W526	V
UniRef90_A5E720	V Y E K K
UniRef90_A1U9N8	T
UniRef90_UPI00042C959E	I
UniRef90_B1AS42-2	
UniRef90_A0A024HFL5	T
UniRef90_Q9LCI9	
UniRef90_F7YRL2	H
UniRef90_C6KTX9	
UniRef90_F1Z383	T
UniRef90_N9VE28	H
UniRef90_U1S8C8	T
UniRef90_H2IJ78	H L K P
UniRef90_X6KWM2	T
UniRef90_B8ND30	
UniRef90_A0A023D9N3	
UniRef90_UPI00036B93B2	
UniRef90_G6YWR6	H Y H G
UniRef90_B0U0T3	F L E
UniRef90_X0NWR1	T
UniRef90_V5WK49	K
UniRef90_I1C558	
UniRef90_H6R8X6	T
UniRef90_A0A011NWWY6	
UniRef90_UPI00047BA1AA	T
UniRef90_A0A023S5H9	
UniRef90_E3QAI0	
UniRef90_HOR8B2	T
UniRef90_UPI0003B6AC1D	
UniRef90_A6CUU4	
UniRef90_A3QGH2	
UniRef90_H8L2V6	V
UniRef90_UPI0004203139	V F E P
UniRef90_V9VP95	N W
UniRef90_UPI000265750C	V
UniRef90_UPI0003A6F1A1	T
UniRef90_UPI00040BAC92	I F K P
UniRef90_UPI00028834C5	V Y
UniRef90_UPI00030DD063	T
UniRef90_A2W5M8	T
UniRef90_UPI0002DF26CD	V
UniRef90_UPI0003815E84	T
UniRef90_UPI0002E4F983	
UniRef90_UPI00036D4409	T
UniRef90_A4A897	
UniRef90_UPI00036CC2E5	
UniRef90_N9ML79	
UniRef90_UPI00047AC008	E Y T D R
UniRef90_UPI000346561B	
UniRef90_F2NRZ2	P V E G
UniRef90_S9QIP9	H D A G
UniRef90_F0YE43	
UniRef90_G2TLI6	T
UniRef90_UPI00047DA603	T
UniRef90_A8F5J7	
UniRef90_UPI00040A6106	T L Q P
UniRef90_A0A021X4M2	
UniRef90_M5FD57	V W
UniRef90_B6EMQ0	
UniRef90_UPI000374B524	V
UniRef90_C1GXP0	E Y
UniRef90_S9ZIK4	
UniRef90_F6EMV7	P F V P R



UniRef90\_L7LDI4  
UniRef90\_F9RNM1  
UniRef90\_E8YPD6  
UniRef90\_D9XN99  
UniRef90\_W2F1U7  
UniRef90\_UPI00039593D7  
UniRef90\_N8YTY2  
UniRef90\_E2XVI1  
UniRef90\_UPI00035F7718  
UniRef90\_A6C7D8  
UniRef90\_U3B7I4  
UniRef90\_UPI00036BC5F4  
UniRef90\_N9U3X6  
UniRef90\_MQQH11  
UniRef90\_UPI0003653501  
UniRef90\_D8HSB1  
UniRef90\_AOA034UKZ8  
UniRef90\_J2JK58  
UniRef90\_UPI000365288E  
UniRef90\_UPI0003B4230F  
UniRef90\_H5SH93  
UniRef90\_I4BM48  
UniRef90\_UPI00030D4604  
UniRef90\_UPI00037A27CA  
UniRef90\_V9WPZ1  
UniRef90\_E0XRE1  
UniRef90\_G0EV50  
UniRef90\_UPI00037EBD30  
UniRef90\_H8WB61  
UniRef90\_K0CDY0  
UniRef90\_UPI00047A19C0  
UniRef90\_Q2G4M4  
UniRef90\_AOA034UCV7  
UniRef90\_W9SWX6  
UniRef90\_AOA024QN94  
UniRef90\_A1S8Y0  
UniRef90\_H8XS65  
UniRef90\_M5EWM0  
UniRef90\_HODJS7  
UniRef90\_UPI0003735C8C  
UniRef90\_D0Z0G4  
UniRef90\_K8R1E5  
UniRef90\_W9SYY0  
UniRef90\_B9M736  
UniRef90\_E6J667  
UniRef90\_V9VRQ9  
UniRef90\_UPI0004700C45  
UniRef90\_B2JUC0  
UniRef90\_A0JZX0  
UniRef90\_I9KRW8  
UniRef90\_UPI00030203C2  
UniRef90\_U3HV41  
UniRef90\_UPI000478C329  
UniRef90\_B0R3G1  
UniRef90\_UPI0003B521DC  
UniRef90\_UPI000360AE9D  
UniRef90\_E3BC27  
UniRef90\_F0S4G5  
UniRef90\_UPI0004643864  
UniRef90\_A8PI05  
UniRef90\_E9E234  
UniRef90\_T0B1Q8  
UniRef90\_B6QU44  
UniRef90\_B5ERR6  
UniRef90\_F8I876  
UniRef90\_V9XKM6  
UniRef90\_S8EHN2  
UniRef90\_F8E4A7  
UniRef90\_W9G586  
UniRef90\_K2NX28  
UniRef90\_UPI0003F69E58  
UniRef90\_E8WCR7  
UniRef90\_D8D3H1  
UniRef90\_G7YLT1  
UniRef90\_UPI0004723022  
UniRef90\_C6X2Q4  
UniRef90\_A9W1B8  
UniRef90\_V8QYU3  
UniRef90\_UPI00036938EE  
UniRef90\_AOA014MS30  
UniRef90\_I3YUT4  
UniRef90\_F8EEK7  
UniRef90\_Q5LVE9  
UniRef90\_Q65M00  
UniRef90\_UPI0004660D82  
UniRef90\_A5EUU3  
UniRef90\_UPI0004662E63  
UniRef90\_B9WMH6  
UniRef90\_UPI0002EAE1C0  
UniRef90\_E8LR14  
UniRef90\_W4TDW6  
UniRef90\_U1R661

UniRef90\_L7LDI4 RFRYQPGQFLLTVQIIPRGDGHVAVARCYSLSSSSPHLDEQLITIT 80  
UniRef90\_F9RNM1 LIEYKAGQHLPLIQITLDGEGQVARRRYSTLSSSSPSRPNKLAITST  
UniRef90\_E8YPD6 FSPGQGYA NLQVFTPTQHQHIRPYSSMA  
UniRef90\_D9XN99 TEPFTPGQYVSVVQVVEPDDGQQIIRQYSSLSTAPGRKKTWRITTV  
UniRef90\_W2F1U7 FAPGQYVSVAVTLPDDGARRQIRQYSSLGPPSERDLWRVVS  
UniRef90\_UPI00039593D7 EDWEKFNLFGRYESKVDNEDILIRAFYSMANYPSEETNMI  
UniRef90\_N8YTY2 MAFQAQGYINLHILPNDVEGTRAFSSANSPSEETNVI  
UniRef90\_E2XVI1 LPVYVPGQHLVVRVITLPNGHAMRTYSSVSSASPSSDEFLRIS  
UniRef90\_UPI00035F7718 EFRFTQGHVLRRTLDNGNEEVRRRYSISCTGHLHQRELRILAV  
UniRef90\_A6C7D8 PPHQP GGMFVVKVCLLDINDGVEVWRRSFSSISSTGHLHQRELRILAV  
UniRef90\_U3B7I4 LLDLFP GQYVGLRLCLLDGGEVRRRNYSSLSSQANNGHEYRISV  
UniRef90\_UPI00036BC5F4 LFLYRPGQFARLLEFQLEGERIVRAYSTMSSSPSRFPDGLLQFT  
UniRef90\_N9U3X6 YRGDWRDRFKLFDLVSTVNEPIIRAYSTMSSSPSEFGLLMLN  
UniRef90\_MQQH1 FTDYRPGQFLLTLLRIPSDQTSVARCYSSLASSPDTDDRPKVIT  
UniRef90\_UPI0003653501 LPAFRPGQYVSVVFTFEFGHRRQLRQYSSLDANGKSLRIS  
UniRef90\_D8HSB1 FFPGQGVYLVDFVTPGTEETRSFSSMANTSAREKGLLEFV  
UniRef90\_A0A034UKZ8 RFRYRPGQFLLTLLRIPSRGTSSVARCYSSLSSSPHLDDDLIT  
UniRef90\_J2JK58 NFKFDDAQAGVSVVKFKQSHGILDVINDYSSMTSAPYEK  
UniRef90\_UPI000365288E FRETWQILAGVVALKKAASETAVTRAYSLASRPEDRGRAVFN  
UniRef90\_UPI0003B4230F FDFEPGQATDFALDKDGRWDEQRPFFTFTSLPE  
UniRef90\_H5SH93 FLFEYRPGQFNMLYLFVGVGEVPLSSSLGDDPAHP EIL  
UniRef90\_I4BM48 RYRFRAGQFLLTVRVLHVVEGRELRRCYSSMSSAPLDDEGLRITV  
UniRef90\_UPI00030D4604 IADYLP GQYITVKAELIPGNTHLRRQYSSLSSDPGDKGYRIS  
UniRef90\_UPI00037A27CA ILFAFEPGQYILGMRLVLDGGEELRRRNYSSLSSALANTGRQYRIS  
UniRef90\_V9WPZ1 LFAFYEAGQFLLTLEPNEP GGVLVHRHRTYSSISSTSPYGEELR  
UniRef90\_E0XRE1 EFKFIQGGQYVTLFRLLDNLNGEELRRRNYSSISSTSPYGEELR  
UniRef90\_G0EV50 MQYLAAGQYVEFLRLDGMKPPRRRNYSSISSTSPYGEELR  
UniRef90\_UPI00037EBD30 VKRSLPGQYVTLRMEGMPDGVLRQPRQYSSLTTRADDDGHRFFA  
UniRef90\_H8WB61 VDFRWDKHDIVRKYKGVNKEETIRAYSSMANYPEEKGLKFN  
UniRef90\_K0CDY0 RHLRPGQHVVRVGLPVDGGRHYTRTYSSMSSPPEDDGGCFIT  
UniRef90\_UPI00047A19C0 QYDYVPGQYVALRRTSLEGGVEVRRRYSISCAEPKPGELRVA  
UniRef90\_Q2G4M4 GWQHEAGQHLPLRVRLLPGE DSVRTYSSLSSASPSTPLYRISV  
UniRef90\_A0A034UCV7 FRYHPGQFLLTLLRIPSDLTGSSVARCYSSLASSQRPFTDDRPKVIT  
UniRef90\_W9SWX6 ARFYAAGQFLLTLLKVP GAEALLRRCYSSLSSQRPQADGALRIT  
UniRef90\_A0A024QN94 QFRFRAGQHLTVHHRLLDGGDLIRRTYSSLCTSPDSGELAV  
UniRef90\_A1S8Y0 LPTFLPGQYVFAFDLNGEELRRRNYSSISSTSPYGEELR  
UniRef90\_H8XS65 TFYFTAGQYVTLKLLTLDNGKEVRRAYSSISCTAPKSGELRIGA  
UniRef90\_M5EWM0 RFDFLAGQFVTLRFSWDGERYARVFTIASPPTRQRIALIT  
UniRef90\_HODJS7 SQYKPGQYLLTVVTSDKLPLPYRAKHYSISVSGDSKHLTFG  
UniRef90\_UPI0003735C8C PFAFLPGQYLLRFRKHLGESSVFTRRSYYSSISCAEPKDSKGFCDIA  
UniRef90\_D0Z0G4 VAAFKPGQYVLRKPEQFEFQEIRQYSSLSSASPSTQNTYRIS  
UniRef90\_K8R1E5 IVPHKAGQYHLPMRVLTPGKQQLRRTYSSLSSVAPSDGVRISV  
UniRef90\_W9SYY0 LMTFLPGQYVGLRLLQLLDDEEVRRTYSSLSSAAGNVEYRISV  
UniRef90\_B9M736 RDTFSFRAGQFAEYSAF GAGESTFCIASAPSTRKGFVEE  
UniRef90\_E6J667 LPDFRPGQYVTVGLVVDGARRQLRQYSSLSTAPGDGDRWRIGV  
UniRef90\_V9VRQ9 VLRHKPGQYVTVGLVVDGARRQLRQYSSLSTAPGDGDRWRIGV  
UniRef90\_UPI0004700C45 FCYKPGQFVITITFDLJAGKSYSRCYSSLSSSPSRPMTLVLIT  
UniRef90\_B2JUC0 LVAHEAGQHLRVTLPADHDKPCYSSLSTAPADGLYRIS  
UniRef90\_A0JZX0 YLPGQYVALRRTMPTDENHGEVRRRNYSSISCAEPKDSKGFCDIA  
UniRef90\_I9KRW8 MQFLAGQYVEFLRLDGMKPPRRRNYSSISASAPHEEGPEELH  
UniRef90\_UPI00030203C2 FLPGQYVYALTSLLP GVAAGIRAYSSMCTNPQEGGEWRFQ  
UniRef90\_U3HV41 LPHLAGQHLPIRVRVLP GQDLIRTYSSLVAPSDGAYRISV  
UniRef90\_UPI000478C329 QPFKAGQYITLKMVNGKEVRRDYSSLFASPKSGLLKVA  
UniRef90\_B0R3G1 FTAEPGQYVVRVREFE DGETEGRYTSSLSPVADTFEVT  
UniRef90\_UPI0003B521DC LSFQAQGYVNLQVLP GVEQARAFSSLANAQAEDLE  
UniRef90\_UPI000360AE9D QFTYQAGQFLLTLLRIPAHGGAVSRCYSSLSSSPSTDEHLKVT  
UniRef90\_E3BC27 WAGHVPGQFIRVGVVDVDDGVRLLWRAYSVTSSGPRDDGRLIT  
UniRef90\_F0S4G5 FSYKAGQFLLSLLIFHFGEREIRIRRNYSSLNSGPDVDDQQLSIT  
UniRef90\_UPI0004643864 FRYHAGQYIEFLIQGGVRRRAYS MANAHPHTQAEAPGL  
UniRef90\_A8PI05 RLMPLPGLHVLRLKQVNGSLIERPYTPVLVISEDGQFISFM  
UniRef90\_E9E234 SLPYWKGHLVSVLEFKVPEVQIARHYTPPLP PADGENTQDGT  
UniRef90\_T0B1Q8 RFTFEPGQFLLTLLRATIDGQDVRRTYSSLSPSRSL  
UniRef90\_B6QU44 YEIAWAGVQWSVMFKQPLQLIGRDYTPPLPVDDDA SE  
UniRef90\_B5ERR6 GGAEEFAGQYVMEIQVPGSDARRAYS LANNTNWDLEEF  
UniRef90\_F81876 PGLKFFAGQYVDLSLITQYGITRYSYSSMASTPSSPRELEFI  
UniRef90\_V9XKM6 LPDFRPGQYVSVVGRPDDGARRQIRQYSSLSSAPAKGDWRIT  
UniRef90\_S8EHN2 REDPVFDPLWCVVWIKDDDIQVERPYTPLEGLDARGRMKFW  
UniRef90\_F8E4A7 FEAGGYTQMKVPPYHVKDEELMRAYS MASYPLIEEGLKLN  
UniRef90\_W9G586 YEFKPGQYSDITITPGTDEHRSFSSMATQSTPGEVFEFL  
UniRef90\_K2NX28 LPDYAPGQHIVLRLPEGGVPTVTRCYSSLVGSARDKSRNSYT  
UniRef90\_UPI0003F69E58 VVPYRPGQFLLPIALDIPGRDVRRTYSSLSDAPDGRSYRISV  
UniRef90\_E8WCR7 APAFRPGQYVSVVQVEPDGSAHQDQIRQYSSLTGS TRST  
UniRef90\_D8D3H1 RVGLFEKAGQYVNVQVDPGSDQTRYSFSSGPDQDRDVSFLV  
UniRef90\_G7YLT1 WMVPPLGHVMLRIRDQGHLLISRPYTPVITDNSECPQPSDP  
UniRef90\_UPI0004723022 VTNFQPGQYVGLRRLVNDGKETRRNYSSISAPN  
UniRef90\_C6X2Q4 EFAFKGGQYLLNVRVIFVNGEDLRRYSISVNAPTEGNELEIL  
UniRef90\_A9W1B8 VLRHEPGQYVGLVLDLPGRGVKRNYSLSLCAAPNDRAYRIT  
UniRef90\_V8QYU3 VMHHPKPGQYITLRFDTAGQAMKRNYSISLCAAPNGEYRISV  
UniRef90\_UPI00036938EE FNHHDPGQFVTLLELPAPGGPLRYRTYSSLSSASPRTALIT  
UniRef90\_A0A014MS30 VLAJYQPGQFVGLRVLVDGKEQRNYSLSQVADGRSLRIS  
UniRef90\_I3YUT4 FEYTPGQSA NLSI NLP GWEKTRPYSSFTSLP DWDYLEFI  
UniRef90\_F8EEK7 PFNYQAGQFLLTLLFKEHGQEVRRRYSFSSSTAPGVDDVLP AIT  
UniRef90\_Q5LVE9 EFDFTQGGQYVTLFRRAFE GEEVRRRYSISLSSGKDDGVLAIG  
UniRef90\_Q65M00 LPAFSPGQYVSVIKTPGPEYTRQYSSLSDAWNKYRIS  
UniRef90\_UPI0004660D82 RFQPGQYVNLTVLP GVEGPRAFSSIASPQDGATIELN  
UniRef90\_A5EUU3 VPFRAAGQYIQIECDDYHILKHLTRAYS MANSYPEERGLMLN  
UniRef90\_UPI0004662E63 ELFTYRPGQFLLTVRIPSDRTVARSSYSSLSSPDKIDEDLKVIT  
UniRef90\_B9WMH6 LPLPKPERGQYLLCFRWKFEFEISREYSISSEFDGNEYRISV  
UniRef90\_UPI0002EAE1C0 LPGFVPGQFLLTLLRIPITPGQPVTRTYSSLSDYADDPAHYRIS  
UniRef90\_E8LR14 LHFVKPGQFVSLGFEVLDNGKLEIRAYSSIASMPGDDHLKLT  
UniRef90\_W4TDW6 KFRFKGGQYVNLFRMMLNNGNEERRYSLSLCAAPSEK  
UniRef90\_U1R661 EFDYEPGQHITVRFDSAGEEVRPYTPTNLP GSDQLALTIV

UniRef90\_L7LDI4 V K R 90 I D G G Y A S N W L D N V K R G D R L T V L S P S G K F  
UniRef90\_F9RNM1 V K K I A G G R V T S Y I A N L K V G D V L N C Q S P D G C F  
UniRef90\_E8YPD6 Q N R H E L E F H I R V V A P D G G R V T S Y I A N L K V G D V L N C Q S P D G C F  
UniRef90\_D9XN99 K R E R S A D G R A P E G G V S S W L H H A R R P G D L L K V S S G P L F G D L  
UniRef90\_W2F1U7 V K R V R G G A P D G G E V S A W L H N T R P G D T L T V S S A P F F G D V  
UniRef90\_UPI00039593D7 V R V A T P P P R N P D V P P G Q Q M T Q Y I H E L K L G D K L C T I L S G P Y G G E F  
UniRef90\_N8YTY2 L H I R K V E G G A V S S Y L H E L Q V G D R L A E A R A P Q G H F  
UniRef90\_E2XVI1 V K R D G G L F S N Y L D S A R A G M Q L E A M P P S G H F  
UniRef90\_UPI00035F7718 K R V S H A G G V G N Y F F D H I H V G S D H V F L K G P L G Q G F  
UniRef90\_A6C7D8 I K R N E P G G R V S S H L H E V R E G D E L F E L F A P A G D F F  
UniRef90\_U3B7I4 K R E P G G R V S S H L H E V R E G D E L F E L F A P A G D F F  
UniRef90\_UPI00036BC5F4 V K R A V R S E T D I S V S N W L H D F Q V G N S I R I L G A K G S F F  
UniRef90\_N9U3X6 V R I A T P P P S N M Q L P P G Q M S F I F N L K A G D K V T I S G P F G E F  
UniRef90\_MQHI1 V K R T A D G Y G S N W V C D N L A A G S T I E V L P P S G V F  
UniRef90\_UPI0003653501 V K R E D G N P N I P A G A V S T W L H N V K V G D A L N V S H P F G D F  
UniRef90\_D8HSB1 I K I Y P D G L F S R F L D E V A V G D A L R V T G P F G V F  
UniRef90\_A0A034UKZ8 V K R T E G G Y A S N W L D N A V P G L R V T M L S P S G V F  
UniRef90\_J2JK58 K I G L G I R V T S Q E G A T F Q L F K N Y N V G D E L L V S E S G R F  
UniRef90\_UPI000365288E I R L A V P P A G R E D E P P G Q V S W L F S L R P G D P V E V S G P F G D F  
UniRef90\_UPI0003B4230F K D T L E F V I K S Y P D H D G V T K Q I A K M E P G D K A L I E D P W G A I  
UniRef90\_H5SH93 V H T L R A V G T V T K P L C K L K P G D T V G V R G P F G  
UniRef90\_I4BM48 K R D R G G I V S N W L D T A A E G G E L H V A P E G R F  
UniRef90\_UPI00030D4604 V K R E D A A D Q R P K G V V S S Y L H S V K E G D V L E I S A P A G D F F  
UniRef90\_UPI00037A27CA V K R E A G G R V S S Y L H Q L A V G A T L D L F P P A G D F F  
UniRef90\_V9WPZ1 A K A Q P D S I G T R W M L A N L K P G M M L K A I G P A G L F F  
UniRef90\_E0XRE1 V A V K Q I P N G K F S T Y A N T L K V G D M L D V M P P L G S F  
UniRef90\_G0EV50 L H I R H M P G G A F T D Y V F G A K E G D L R F E G P L G S F  
UniRef90\_UPI00037EBD30 V K R V R G N G T P A G E M S T L L H E V Q V G D E V V L S V P S G D V  
UniRef90\_H8WB61 I R I A T P P P G T D H P P G I M S T Y V F N L K P G D K V T V M G P F G E F  
UniRef90\_K0CDY0 V K K I D G G R L S H H L R H L K V G D Y V P V G L P Q G D F F  
UniRef90\_UPI00047A19C0 I K Q D I G G L F S T W A E N L A A G A E L D V M S P Q G A F F  
UniRef90\_Q2G4M4 K R E G K V S A W L H E V R E G D I E A R A P A G S F F  
UniRef90\_A0A034UCV7 V K R T A G G Y G S N W C D N V K A G D S L E L L P P S G V F  
UniRef90\_W9SWX6 I K P Q V P G G R A S N W L D N L Q A G D C I E A L P P A G V F F  
UniRef90\_A0A024QN94 R R I A D G M F S T F A T E H L R A G A T L E M G S P T G D F F  
UniRef90\_A1S8Y0 V K R T R D G L I S N W L H E L T V G D T V L C S R P E G R F F  
UniRef90\_H8XS65 V K E V A Q G Y F S K F A N Q K L T A G D L L E V S V P E G K F F  
UniRef90\_M5EWM0 I K A A A N G R A T R I L H H F A A G C S L E I S E P G G D F F  
UniRef90\_HODJS7 V R R D V V D G H E G E V S T L L H E L S E G D T I N L S A P V G G F F  
UniRef90\_UPI0003735C8C V K R T S D G K G S A Y L Y G M Q V G Q V L T C D G P H G T F F  
UniRef90\_D0Z0G4 V K R E D G G L V S S Y L H S L V E G D K V L L A A P A G D F F  
UniRef90\_K8R1E5 K R D G R V S A H L H T L K A G D V I E A R A P A G D F F  
UniRef90\_W9SYY0 K R E P G G R V S N A L H T G M S E G D S L E L F A P A G E F F  
UniRef90\_B9M736 V K R A T G R V T E A L R R L E V G E T I G V R F A P Y G N  
UniRef90\_E6J667 R R V D A D G E A S P A G E V S G W L H E A T A V G T T I Q V T L P F G D L  
UniRef90\_V9VRQ9 V K R E Q G G L A S T W L H E A A E G T V L N A A A P A G E F F  
UniRef90\_UPI0004700C45 V R K V I G G V V S S Y L D K F T V G D V V K S S L P M G Q F F  
UniRef90\_B2JUC0 V K R G G S V S S Y L H T L K T G S V I E A R A P A G Q F F  
UniRef90\_A0JZX0 D G S S E I R V A I K K D L G G L F S T W A N E L K P G D Q L D V M S P M G A F F  
UniRef90\_I9KRW8 I R H M P G G T F T D F V F G A R E G Q P A M K E R D I L R F E G P L G S F  
UniRef90\_UPI00030203C2 I K R V P N G V A T T T L F D K I K I G E T V E I L D G P Y G  
UniRef90\_U3HV41 K H D G A V S R Y L H H L H V G S T L E A R A P T G D F  
UniRef90\_UPI000478C329 V K E V A N G T F S A Y A N T T L K V G D T L E V A P P N G R F F  
UniRef90\_B0R3G1 V D V A P D G V L P W L A G R D P G D E V T V E G P F G E D  
UniRef90\_UPI0003B521DC L N I R H V P G G Q A T T W L H N L K E G D R L A L S G P Y G R F  
UniRef90\_UPI000360AE9D V K R T A G G L A S N W L D H A K A G M T L E S L T P A G A F F  
UniRef90\_E3BC27 V K S L S G G L V S S H L H S L R S G Q T V H L E Q A S G E F F  
UniRef90\_F0S4G5 V K R I D N G E I S R F L H H I K V G D I L T A Q D P N G L F  
UniRef90\_UPI0004643864 E L H I R H M P G G K F T D H F G A L K E K E I L R I E G P F G S F  
UniRef90\_A8PI05 I K F Y K N G V F T S K L R S K K C G D L I E I S D A L G C F  
UniRef90\_E9E234 L R F Y I R A V G G G E M S N Y L N R S L G V G R D V I F L R G P H T G F F  
UniRef90\_T0B1Q8 A R D G E L E I G I R P V E G G V F S N W A A Q I K V G D A L Q V M P D G R F  
UniRef90\_B6QV44 D A K E S L R F L I R R D P H G E V S R Y L H S G L Q Q G A S I E M R G P Q  
UniRef90\_B5ERR6 F I T L R P P G G A F S T Y L E S A L V G D R L N I R G P L G T F  
UniRef90\_F8I876 I K V Y P D G A F S S L L D A L K P G D P V R V T G P Y G  
UniRef90\_V9XKM6 V K R V L E T T A P D G T P A G E V S N F L N N V F E G D E L E V T T P F G D L  
UniRef90\_S8EHN2 I K K Y D K G E V G R W L H G K K V G N R I E L R G P L S T W  
UniRef90\_F8E4A7 V R I A T P P L N E K N I P P G K A S S Y I F G L K P G D K V T V L G P F G D F F  
UniRef90\_W9G586 I K K Y P G G R F S A L L D G L A V G D E L H V N G P Y G S F F  
UniRef90\_K2NX28 V R R V A A P T G R S D L S P G R A S T L I H H L H L G S K V E L Q A P K G R F F  
UniRef90\_UPI0003F69E58 K R E T G G L A S R W L H H V R A G D T I R A L J A P R G D F F  
UniRef90\_E8WCR7 R S F S V K R V R G E A G P E G E V S A H L H E L R A G D R L R V S A P Y G D L  
UniRef90\_D8D3H1 R N V P Q G L M S T W L E K A K V G D A I E F K S P Y G G F  
UniRef90\_G7YLT1 V S A T M L C L L I K I Y P H G Q M S Q L I D K L K P G D D V E I S Y P M G  
UniRef90\_UPI0004723022 V G A S L R V S L K R E G E G A V S N Y L H H I D E G D T L D L F P A G E F F  
UniRef90\_C6X2Q4 V K H L E D G G K V S T Y L N N L A V G D V L E V S A P M G H F F  
UniRef90\_A9W1B8 V K R E A A T A H P A G L V S N W L H E A K A G T V L K V A A P A G D F F  
UniRef90\_V8QYU3 R R A Q E S Q G G S H F M H D N V R I G T T L E I T P P A G D F F  
UniRef90\_UPI00036938EE V K A Q D G S T G T R W M L D N L H K G M R I R A I G P A G K F F  
UniRef90\_A0A014MS30 V K R E A Q G V V S N H L H H V Q A G D V L D V F P A G H F  
UniRef90\_I3YUT4 V K I Y D D Q N G V S S Q L D G K L N V G E E L L L H D V F G T I  
UniRef90\_F8EEK7 I K R V P N G L V S R L D Y A K E G D V L I A L E P S G R F  
UniRef90\_Q5LVE9 I K R V D G G A F S T W A E E L K V G D T V Q A M P P M G G F F  
UniRef90\_Q65M00 V K L E A E E G Q P V G K V S S Y L H N M E I G G S L E V S A P A G D F F  
UniRef90\_UPI0004660D82 V R K P P G G K A T P L L H E L K E G D H L S F T G P Y G Q F F  
UniRef90\_A5EUU3 V R I A T P P Q Q K P D A P T G K M S S Y I F N L K A G D K V T I S G P F G E F F  
UniRef90\_UPI0004662E63 V K R T A G G Y G S N W L D N V T P G S T I T V L P S A G R F F  
UniRef90\_B9WMH6 R H V P G G K I S G Y I H N L K V G D I L K V A P A G K F F  
UniRef90\_UPI0002EAE1C0 I K R E G P P K D R D V P P G V A S H F M H Q V Q A G S I L E A K P A G K F F  
UniRef90\_E8LR14 V K R V D G L V S N H I D Q F S I G D T V Q V L A P T G P F F  
UniRef90\_W4TDW6 S N R L E V L V K L L E G G K V S G Y F E H L H M D E M V E V M P M G G F F  
UniRef90\_U1R661 R R Y D D G L A S S Y L H Q K R P G D T V R L G P V E G S L

UniRef90_L7LDI4	I
UniRef90_F9RNM1	H L E E N
UniRef90_E8YPD6	
UniRef90_D9XN99	V
UniRef90_W2F1U7	T
UniRef90_UPI00039593D7	
UniRef90_N8YTY2	
UniRef90_E2XVI1	T
UniRef90_UPI00035F7718	H
UniRef90_A6C7D8	H F
UniRef90_U3B7I4	T
UniRef90_UPI00036BC5F4	T
UniRef90_N9U3X6	
UniRef90_M0QHI1	T
UniRef90_UPI0003653501	
UniRef90_D8HSB1	T L R D N
UniRef90_A0A034UKZ8	T
UniRef90_J2JK58	T
UniRef90_UPI000365288E	H
UniRef90_UPI0003B4230F	E D E G
UniRef90_H5SH93	
UniRef90_I4BM48	V
UniRef90_UPI00030D4604	V
UniRef90_UPI00037A27CA	T
UniRef90_V9WPZ1	T
UniRef90_E0XRE1	
UniRef90_G0EV50	
UniRef90_UPI00037EBD30	V L E
UniRef90_H8WB61	
UniRef90_K0CDY0	
UniRef90_UPI00047A19C0	I
UniRef90_Q2G4M4	V
UniRef90_A0A034UCV7	T
UniRef90_W9SWX6	V
UniRef90_A0A024QN94	
UniRef90_A1S8Y0	I
UniRef90_H8XS65	T F E P
UniRef90_M5EWM0	T L E G R
UniRef90_H0DJS7	
UniRef90_UPI0003735C8C	T F S G
UniRef90_D0Z0G4	F L E E N
UniRef90_K8R1E5	T
UniRef90_W9SYY0	V L Q P
UniRef90_B9M736	
UniRef90_E6J667	V
UniRef90_V9VRQ9	F L K
UniRef90_UPI0004700C45	
UniRef90_B2JUC0	T
UniRef90_A0JZX0	V
UniRef90_I9KRW8	
UniRef90_UPI00030203C2	
UniRef90_U3HV41	T
UniRef90_UPI000478C329	L F
UniRef90_B0R3G1	Y Y Q G E
UniRef90_UPI0003B521DC	
UniRef90_UPI000360AE9D	T
UniRef90_E3BC27	V W T G
UniRef90_F0S4G5	V Y E
UniRef90_UPI0004643864	
UniRef90_A8PI05	
UniRef90_E9E234	
UniRef90_T0B1Q8	V V K K K
UniRef90_B6QV44	
UniRef90_B5ERR6	T
UniRef90_F8I876	
UniRef90_V9XKM6	V
UniRef90_S8EHN2	V W D D N
UniRef90_F8E4A7	
UniRef90_W9G586	T L K
UniRef90_K2NX28	T
UniRef90_UPI0003F69E58	T
UniRef90_E8WCR7	V L D G
UniRef90_D8D3H1	
UniRef90_G7YLT1	
UniRef90_UPI0004723022	V
UniRef90_C6X2Q4	
UniRef90_A9W1B8	
UniRef90_V8QYU3	
UniRef90_UPI00036938EE	
UniRef90_A0A014MS30	T
UniRef90_I3YUT4	K F K G
UniRef90_F8EEK7	I
UniRef90_Q5LVE9	H
UniRef90_Q65M00	T
UniRef90_UPI0004660D82	
UniRef90_A5EUU3	
UniRef90_UPI0004662E63	T
UniRef90_B9WMH6	V Y
UniRef90_UPI0002EAE1C0	V
UniRef90_E8LR14	
UniRef90_W4TDW6	
UniRef90_U1R661	T

UniRef90\_UPI000365160F  
UniRef90\_A6FIT4  
UniRef90\_UPI000373D358  
UniRef90\_UPI00029A01A2  
UniRef90\_L0LRG9  
UniRef90\_UPI00036F2854  
UniRef90\_U1LJZ1  
UniRef90\_U3AV92  
UniRef90\_R4XYM0  
UniRef90\_C5GXJ1  
UniRef90\_H8G752  
UniRef90\_V4YNS9  
UniRef90\_UPI000428EE86  
UniRef90\_UPI000345DC1B  
UniRef90\_N9KW85  
UniRef90\_V5X589  
UniRef90\_Q9I0H4  
UniRef90\_Q390N9  
UniRef90\_UPI00036D0EF8  
UniRef90\_UPI0002FB5193  
UniRef90\_W7SB63  
UniRef90\_C9S8T2  
UniRef90\_C2CT24  
UniRef90\_T0QB18  
UniRef90\_Q292E3  
UniRef90\_I2ES74  
UniRef90\_H6RLL6  
UniRef90\_C5DS97  
UniRef90\_UPI0003455A06  
UniRef90\_UPI0002488605  
UniRef90\_UPI0002FD0E4E  
UniRef90\_M4NAI4  
UniRef90\_Q1N8C9  
UniRef90\_U1P4T1  
UniRef90\_U1NPQ4  
UniRef90\_M3K5K5  
UniRef90\_M0ABX6  
UniRef90\_M5NBF9  
UniRef90\_UPI0003711A7B  
UniRef90\_D8NVH5  
UniRef90\_C6KVR8  
UniRef90\_U1YJ06  
UniRef90\_D7I3E2  
UniRef90\_A3KJ00  
UniRef90\_X1Q220  
UniRef90\_C8XE22  
UniRef90\_N6TYG8  
UniRef90\_K1WV88  
UniRef90\_C6VW14  
UniRef90\_Q0SJH6  
UniRef90\_UPI00037C46BB  
UniRef90\_D8Q402  
UniRef90\_UPI00037A277B  
UniRef90\_N9WH33  
UniRef90\_V9VZX1  
UniRef90\_W9VWV0  
UniRef90\_G2Q0W7  
UniRef90\_W3X6Y2  
UniRef90\_R4VIB4  
UniRef90\_S8BSP3  
UniRef90\_UPI00046349BE  
UniRef90\_UPI00047BCAEB  
UniRef90\_J1R1U8  
UniRef90\_V5G252  
UniRef90\_Q5YS93  
UniRef90\_UPI0002DEDD4A  
UniRef90\_Q12EV8  
UniRef90\_UPI00037EB5F2  
UniRef90\_F3S356  
UniRef90\_D6Z5A4  
UniRef90\_M7MUS8  
UniRef90\_A3K124  
UniRef90\_UPI00046A8FFD  
UniRef90\_UPI00037845ED  
UniRef90\_A0A010QF42  
UniRef90\_B6BF99  
UniRef90\_C5FGF1  
UniRef90\_UPI00036753CC  
UniRef90\_M3ADL5  
UniRef90\_B2T1G6  
UniRef90\_G2DGY0  
UniRef90\_Q5AR63  
UniRef90\_UPI00047A4959  
UniRef90\_A0A059MIF4  
UniRef90\_Q0FJ67  
UniRef90\_F2K5F7  
UniRef90\_B0KTP0  
UniRef90\_UPI00035EB6B4  
UniRef90\_F6T1X5  
UniRef90\_UPI0002F9621D  
UniRef90\_L7L323  
UniRef90\_UPI0004706C8B

1 10 20 30 40

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

UniRef90\_UPI000365160F A D W D K F N V W Q Y V S K V D E P V I R A Y S M A N Y P E E V G I V K F N 80  
UniRef90\_A6FIT4 F D F K P G Q Q F V T L A V N I D D G K T H Y R A Y S I S S V P Q Q K Q L R  
UniRef90\_UPI000373D358 A G F A K P G Q Q H L K L K A L I D D D K E E E R F Q Y S I C Q M G K D  
UniRef90\_UPI00029A01A2 Q F K P F R P G Q Y S L S V R V E P D G A R Q I T Q Y S L S R A P Q G A P D W R I T  
UniRef90\_L0LRG9 L L P H N A G Q Q H L P V I R I K L P G G E E V I R T Q Y T L S V A P S D R R I Y R I S V  
UniRef90\_UPI00036F2854 L P H E F E P G Q Q F L P V I R L A V P G H P V V R Q Y T L S S G R D G N G R R Y R I S V  
UniRef90\_U1LJZ1 L P H E Y Q A G Q F V S V F V P K E G F Q Q I R R Q Y S L S V A P G N G S Y L R I S T  
UniRef90\_U3AV92 V S A Y K P G Q Q Y I Y I N S D K F E N Q E L R Q Y S L S S A V Q E D T Y R I S V  
UniRef90\_R4XYM0 A F T W Q A G Q H V R F L M E D D G G E L R P F I L A S V P A A A G P A R L E  
UniRef90\_C5GXJ1 V V Y K D A W Q R W S V Q F K Q P Q L Q I G R D Y T P L P P I P A A G G G G G E  
UniRef90\_H8G752 D F A F R A G Q S L T L R R T I D G R D E R R S Y S I C A A  
UniRef90\_V4YNS9 F K Y H A G Q Y I E F L L R E S G D R R S Y S M A N A P H T Q  
UniRef90\_UPI000428EE86 A R N F E F K A G Q F G E Y S V F G E G E S T F C I A S S P T R K G Y E C T  
UniRef90\_UPI000345DC1B L H F Q A G Q Y V Q L D I P G V G A R A F S I A N A P A D  
UniRef90\_N9KW85 L P K Y E A G Q Y I S V R V F V E G L K Q P R R Q Y S L S T S P Q A D Y L R I S  
UniRef90\_V5X589 L P G W Q P G Q Q H L D L R L P V S G R R R R Q Y S L S T G D P Q D R D R Y R I S  
UniRef90\_Q910H4 L L A F Q P G Q Y I G L R L D I D G E E V R R N Y S L S A S N G R E Y R I S V  
UniRef90\_Q390N9 F P Q A G Q Y V Q L E L P G L G Q S R A F S I L A N S P A D  
UniRef90\_UPI00036D0EF8 F T Y T P G Q A T D Y F S I A K D W V A E K R P F T F T S L P A A  
UniRef90\_UPI0002FB5193 L P Y S P G Q Y Y T F T F P G P G G E G V D R C Y S V S S A A V I T G G G V E E L  
UniRef90\_W7SB63 H L A G Q H Y V V R L T A E D G Y R A Q R S Y S V A S A P D A P L L E L F V  
UniRef90\_C9S8T2 P P P W T A N D L W S L E V K Q P Q L Q I A R E Y T P L P N A P G A L R F L  
UniRef90\_C2CT24 A Y D Y I P G Q Y V A L R A D I D Q E I R R S Y S I C D V I P R D G V I R V A  
UniRef90\_T0QB18 L V A F R P G Q Y V G V R F E T E Q F T T Q R N Y S L S M A P R K D E Y R I S V  
UniRef90\_Q29E3 L M V L P V G H H V N I Q V P V N G V E I Q R S Y T P V D H S Y L P S E T N S L  
UniRef90\_I2ES74 I K Y K A G Q F I T I I V P A G E G K K V R R S Y S M S T S P H S D T S I G V T  
UniRef90\_H6RLL6 V K T S L P G Q Y I T V Q V P M P D G V R Q P R Q Y S L T R A D D G E H R Q F S  
UniRef90\_C5DS97 V E L S K I P G Q Y I T V N V H P N K Y D A L R H Y S I C S E S K D Q G  
UniRef90\_UPI0003455A06 D F Y F A P G Q S L T L R R E V D G V E Q R R S Y S V C A P V G E  
UniRef90\_UPI0002488605 I M H H R P G Q Y L T F W L E I P G H P P K R N Y S I S S E P G A D H Y R I S  
UniRef90\_UPI0002FD0E4E E F A F A P G Q S L T L R R T V E G R D E R R S Y S I C S P A  
UniRef90\_M4NAI4 L V F Q P G Q F L Q V H F H Y D D G T A T K R S Y S I A T T G D G S S P G A S  
UniRef90\_Q1N8C9 V M A Y K P G Q Y I T F W F D P G H P S V K R N Y S I S A A P N G E T Y R I S  
UniRef90\_U1P4T1 F A Y E P G Q H T I H F F E A G G G E V V R P Y T P T N L P G T D Q L  
UniRef90\_U1NPQ4 F A A H P G Q F M K L S G E V N G E N Y N R F Y T L S S S D  
UniRef90\_M3K5K5 I P K P K R G Q Y L C M R W Q L P G Y E I S R V Y S I S S E Y P K G N E Y R F T M  
UniRef90\_M0ABX6 T F D A L P G Q F V L V R A R P D D E P I A R H Y T L S S S V T T F F E I T V  
UniRef90\_M5NBF9 V L D Y Q P G Q Y I G I E R V T P K G Y R E I R Q Y S L S S Q G S N G K D Y R I S V  
UniRef90\_UPI0003711A7B V A D Y E S G Q F L S L R L F L P E M N L L Q P Q Y S I S C A P N G E Y Y R I S  
UniRef90\_D8NVH5 F S P G Q Y A T L Q F T P R H V R P Y S M A V A N D  
UniRef90\_C6KVR8 I R Y Q A G Q Y V Q V Q I P G V E G G R A F S I A N A P G A D G  
UniRef90\_U1YJ06 I T E A K P G Q Y I V S V K V T L P D G L R Q V R R Q Y S L S G D A G T S R I F T T  
UniRef90\_D713E2 V I K H K A G Q Y I G V R L M I D G Q E V R R N Y S L S E Q A D G V L Y R I S  
UniRef90\_A3KJ00 T P P F R P G Q Y V S V R S E P D G S R Q I R Q Y S L S A G P G R S D  
UniRef90\_X1Q220 R E E F T F E S G Q V A L C S I D G V G E A P F A I S S S P T F R R D H L E I T  
UniRef90\_C8XE22 L P T M Q P G Q Y V S V F V D P D G S R Q P A Y T V S S T A F G T R L Q I T V  
UniRef90\_N6TYG8 M P Y F S G G A H V I V S M N D E G H M R R N A Y S L M S P P H D C S A Y E I S  
UniRef90\_K1WV88 Y Q A S W E K G T W S V E V K Q P E L Q I A R S Y T P L P P K K G D P T G D  
UniRef90\_C6VW14 L A H Y L P G Q H I V R L Q O P G Q P V Q R S Y T L S G V P G Q N L Y R I T V  
UniRef90\_Q0SJH6 L T R P K P G Q Y I T L R V A G A G P P P V R N Y S L S A A P S D N E Y R I S V  
UniRef90\_UPI00037C46BB V I S H R P G Q Y I T F Q F D I P G L P P Q H R N Y S I S S A P S N A E S Y R I S  
UniRef90\_D8Q402 L P K F K P G Q Y I S V Q T E V P D H L Q A R Q Y S L S E A P R S D Y R I S V  
UniRef90\_UPI00037A277B L P D F E A G Q Y I T V K V D I P S Y T C Q R Q Y S L S C R P N K E F F R I S  
UniRef90\_N9WH33 L K E H K A G Q F I S I M P I K E G K S E V R Q Y S L S M K P G A N F Y R I S  
UniRef90\_V9VZX1 L L P F E A G Q F L T L R A A P P G A E L V R T V S S A P G E H Y R I S  
UniRef90\_W9VWV0 S Q N Y W R R A I W N V Q F K Q P Q L Q I V R A Y T P L P P V D V D E K Q E K E  
UniRef90\_G2Q0W7 L P K F L P G Q Y I S L R V Q G P D G Y M Q A R Q Y S L S D A W R S P D Y Y R I S  
UniRef90\_W3X6Y2 L P S F Q P G Q Y I S L F V P E F G Y M Q P R Q Y S L S D A H Q S G C Y R I S  
UniRef90\_R4VIB4 L S F L A G Q Y L D I L L R G G Q R R S Y S L G N A P R E D G L L E  
UniRef90\_S8BSP3 V E S H K P G Q Y I S I R V I P Q Q D W K Q I R Q Y S L S T C P D P S Y R I S V  
UniRef90\_UPI00046349BE R F T Y Q P G Q F L T V R I P S D R T S V A R C Y S L S S P Y T D D R P K V T  
UniRef90\_UPI00047BCAEB I A K F I P G Q Y I T V K M D K M S G E Q Y T N L R Q Y S L S D R P G L D Y Y R  
UniRef90\_J1R1U8 F V Y R P G Q Y I T I R I P S E R T G S V A R C Y S I A S C P L T D D R I K V T  
UniRef90\_V5G252 L P T Y L P G Q Y I S V Q T F S E R T G Y T Q A R Q Y S L S D M P D H Y Y R I S V  
UniRef90\_Q5YS93 A F G Y R P G Q F L T V R V P D V G S G S G R C Y S L A S P H S D T A M K F T  
UniRef90\_UPI0002DEDD4A L P G Q Y V A L R T T L D V D G A P V E V R R S Y S I C A E P V P G E I R V A  
UniRef90\_Q12EV8 F S P G Q Y A Q L Q F T P D H I R P Y S M A G L C A E D E L E F H V  
UniRef90\_UPI00037EB5F2 L P F Y T A G Q H L P I R V V P E G R A T R R N Y T L S N G Y D G R R Y R  
UniRef90\_F3S356 I M R H V P G Q Y L S F R L D V P G Y G S E R R N Y S I S S A P G S R M S Y R I S  
UniRef90\_D6Z5A4 F L G D W T R F K L F Q Y M S K V H Q P V T T R A Y S M A N Y P G E K G M L K L N  
UniRef90\_M7MUS8 S F R Y R P G Q F L T L R I P D R D Q D A A R C Y S L C S S P E Q D E R L K I T  
UniRef90\_A3K124 V F T H R P G Q H V I T V R R P E A G T E P P R S Y S I S P P N A P D R L R L V  
UniRef90\_UPI00046A8FFD N Y T F T A G Q Y L N L R R T L D N Q E I R R A Y S I C S A P E S G E L R I A  
UniRef90\_UPI00037845ED L Q Y H A G Q Y V E F I L R D G S R R S Y S M A N A P H T Q E T  
UniRef90\_A0A010QF42 S S N W D F G D L W C V E V K P P Q I Q V A R E Y T P L P P I P G S S Y D E D T  
UniRef90\_B6BF99 L L P F E A G Q F L T I R I T P P G A E L V R T Y T V S C A P G E H Y R L S  
UniRef90\_C5FGF1 I S G P G L C C E S V L L E V S Y H L P K L V R Y T I A D S C S C R P G R R M A  
UniRef90\_UPI00036753CC F A D F K P G Q Y I T L R I P E Q K R P I R T Y S L S D Y P Q P T N D Y R I S  
UniRef90\_M3ADL5 L P E Y L P G Q Y I S L H V I P E L G Y T Q S R Q Y T L S S A P R T N Q Y R I S V  
UniRef90\_B2T1G6 L V G Y Q A G Q Y L P I R L Q P P G W P T I R T Y T L S D A S N G R T Y R I S V  
UniRef90\_G2DGY0 Q Q A F E F K P G Q F N M V S L F G V G E L P I S L V S D P Q D S H F F D H T  
UniRef90\_Q5AR63 L V I G L P G Q H L K V L A E I D G R K I Q R S Y T P V S P  
UniRef90\_UPI00047A4959 A E P Y P L G S H L D V A V L D G L P D L R S Y S L I G E R P H E G A Y R I A  
UniRef90\_A0A059MIF4 L V I F L P G Q Y H M A I T V P G T E Q T R S Y S F S T G P N D P Q L  
UniRef90\_Q0FJ67 L D Y T P G Q A A Y M A L D Q E G W D E I R S F T M T S L P G E E Q L E F V  
UniRef90\_F2K5F7 I L L A E P G Q Y I G M K L M L D G E E V R R N Y S L S A L A D N G Q Y R I S  
UniRef90\_B0KTP0 V A F A P G Q H L P V Q R D C E A A L R T Y S L S S A P A D G Y L R I S  
UniRef90\_UPI00035EB6B4 A Y G F R A G Q H L Q I P T G T D G G A S D R T Y S I C S P E D P E A E L T  
UniRef90\_F6T1X5 M L T P M G A H V F F Q A S I E D I L I R R P Y T V A L P C I T E S T C A N  
UniRef90\_UPI0002F9621D F A Y R P G Q Y I L E I L A A E D L K R H Y S L A S H P E E D P F L E  
UniRef90\_L7L323 L P G F R P G Q Y I S V Q V P S D G A Q I R Q Y S L T G S P V D A Q W F S V  
UniRef90\_UPI0004706C8B P L A F R S G Q Y I N I D F P I D G P D V S R S Y S I S A P T E P W F S I T

UniRef90\_UPI000365160F [ ] R [ ] A S P P P G T S F P P G K M S S Y V F G L K P G D K I D V Y G P F G E F  
UniRef90\_A6FIT4 [ ] R [ ] A S P P P G T S F P P G L V S N W L D N L T I G D S L S A L N [ ] A G Q F  
UniRef90\_UPI000373D358 F V R L G L K G V P E G V F S Q Y A R N I Q V G D T L D I M A P Q G D F  
UniRef90\_UPI00029A01A2 [ ] K R [ ] V R G G A G P E G E V S S W L H H V R P G D V L D V S A A F Q G D L  
UniRef90\_L0LRG9 K R D [ ] G R V S S Q F L H D I A V G D V I E A R A P A G D F  
UniRef90\_UPI00036F2854 K R H G A A S S W L H S D T V V G D S I E A M A P A G T F F  
UniRef90\_U1LJZ1 K H D G A V S Q Y L H S L K A G D I L K L T P P A G D F F  
UniRef90\_U3AV92 K R E A E G K V S N Y L H N L H I G D T V K L L A G P A G D F F  
UniRef90\_R4XYM0 F H I R R M P G G G F T E R V L P N R L M P G D T L T L A G P H G A C  
UniRef90\_C5GXJ1 T D D G V L R F L I R K D P Y G E V S G Y L H N L P I G A R L D I R G P  
UniRef90\_H8G752 E G S S L R I G V R E V P D G L F S T W L R H V R P G D E I E V G T P T G S F  
UniRef90\_V4YNS9 T D S P G L D L H I R H M P G G K F T D H V F G M K D K D L R V E G P F G S F F  
UniRef90\_UPI000428EE86 F R E A G K V T S A L A K L E E G Q T M G F R G P F G N F  
UniRef90\_UPI000345DC1B E R S R S [ ] E L H V R Q V P G G A G T T W L H S L Q V G D A I L K L S G P Y G R F F  
UniRef90\_N9KW85 [ ] K R E P G N G T D Q V A G W V S N T L H G L P E G S E I E V S A P T G N F F  
UniRef90\_V5X589 [ ] R K [ ] P S G G G S L E M H D L R I G D T V T V R G P P R N G F F  
UniRef90\_Q9I0H4 K R E A G G R V S N Y L H D V A E G D E L D L F P P A G D F F  
UniRef90\_Q390N9 A A T G E [ ] E L N V R Q V P G G R L G T G Y L H E L A A G D R V E L S G D A Y G R F  
UniRef90\_UPI00036D0EF8 D T L E F T I L K S Y T D H D G V T N A L R T V Q P G D S V L E L S D A W G A [ ]  
UniRef90\_UPI0002FB5193 T I T V K R V P G G P V S A F V H E L R V G D T L R A D G P Y G V F  
UniRef90\_W7SB63 E R L E D G E V S T Y L A D V V E P G D E L E L R G P I G G F  
UniRef90\_C9S8T2 V R A [ ] N G G E V S T Y L S R L P L G A T I D L R G P H G S F F  
UniRef90\_C2CT24 I K R D R G G V F S T W A E S L Q P G F K M D V M N P Q G A F F  
UniRef90\_T0QB18 K R E G P A A S G C P M G K I S S Y L H D V H E G D T L Q V S V P C G D F  
UniRef90\_Q29E3 A S S V S L H F L I K R Y T N G P V I S H L H Q L Q P G C R L H L S A P R M G G F F  
UniRef90\_I2ES74 [ ] K R [ ] V A G G L V S N Y L D K V K V G D F L E I T E P M G N F  
UniRef90\_H6RLL6 [ ] K R [ ] V H S G D K P D G E V S H L C E V Q V G D R L T L M S V P F G D V  
UniRef90\_C5DS97 I K F A [ ] K L E N S Y E H A D G L V S E Y L H H V T V G D Q I L S A P A G D F  
UniRef90\_UPI0003455A06 A P R V G V R L V S G V F S T W L K E V Q A G D E I E V G A P T G R F F  
UniRef90\_UPI0002488605 [ ] K Q E A E G V A S G W L H N A D V G T S L K V G M P A G E F F  
UniRef90\_UPI0002FD0E4E S G P P R V G V R V V P G G V F S T W L E E V R P G D V L E V M E P V G L F F  
UniRef90\_M4NAI4 V T V G R [ ] E L A V S Y V D G G A A T K L L G E L P V G G V I D A S G P Y G R F F  
UniRef90\_Q1N8C9 [ ] K R E P Q Q L A S G W L H D T A V G S R L K V A A P A G E F  
UniRef90\_U1P4T1 T L A I K R Y D D G L A S S Y M H T R D P G D K V T I L A G P I  
UniRef90\_U1NPQ4 I D T F E V T V G V D P Q E A G P F S E H L G N L T Q G D Q I H A S G P F G Q N  
UniRef90\_M3K5K5 R Y I P G G K I S T H I A S L Q V G D S V Y V A P P C G D C  
UniRef90\_M0ABX6 G V D P D G D L S T P W L A A L D P G E T I H Y I E G P F G N I  
UniRef90\_M5NBF9 K R E G V G S D N P G V V S H Y L H N V K V G D S V K L Y A P A G D F  
UniRef90\_UPI0003711A7B [ ] K K E A N G T H P N G M I S N R L V H H I E E G D S V E I T A P A G T F  
UniRef90\_D8NVH5 G Q A L E F H V R L V P P G G R V T S Y V A S L K V G D D V R V S G P L G  
UniRef90\_C6KVR8 Q S S E I E L N V R Q V P G G A G T T W L H S L Q E G A R L R Q L S G P Y G R F  
UniRef90\_U1YJ06 K L N D G G E V S T A L H A V E P G D T L E I S N P Y G E [ ]  
UniRef90\_D7I3E2 [ ] K R E Q G G L A S T Y L H H V E E G S T L D V F P P S G N F  
UniRef90\_A3KJ00 R R I T V K R V R G G A G P E G E V S S W L H H A R E G D V L T V S A P F G D L  
UniRef90\_X1Q220 [ ] R V R V G K L T N A L H R L G V G A E I G F R G P A Y G N  
UniRef90\_C8XE22 S R V K G V D G A P D G Q V S A Y L D Q A K V G D V L D I S A P A G D F  
UniRef90\_N6TYG8 V L R V [ ] E D S R G G S A F M H K V R E G D E L K V S Y P V N L F  
UniRef90\_K1WV88 L R F L I R K E H K G E V S G Y L H R L N A G S R I H L R G P H E E F  
UniRef90\_C6VW14 K R E G T P D Q P G I A S S F L H D H V D I G D T I W I S E P L G G F F  
UniRef90\_Q0SJH6 K R E T H G L V S T Y L H Q L R V G D T L D V A S P R G D F F  
UniRef90\_UPI00037C46BB [ ] K R E T H G L V S R F L H H Q V E E G A V I E V A P T Y G D F F  
UniRef90\_D8Q402 K R E D G L N M S D P A A P G Y I S N L L H H K Q P G D V L R V S H P Y G D F F  
UniRef90\_UPI00037A277B [ ] K R E D G I G D S P D G V V S T Y L H S I H E G D V I E L S A P A G D F F  
UniRef90\_N9WH33 [ ] K R E E K G L V S R Y I H N L N V G D V I D L T N P L G E F F  
UniRef90\_V9VZX1 [ ] K R E E N G T L S R L L H T L Q P G T V I E A K A P R G A F  
UniRef90\_W9VWV0 T E A G D L R F L I R H D P H G E V S S W L H R L P L K T E I E M R G P Y L  
UniRef90\_G2Q0W7 V R R Y A N S V S R S F F P G L V S N L D K M G P G S L V E L S H P A G D F F  
UniRef90\_W3X6Y2 [ ] K K E S G K A P T L P G W I S N A L H N Y K E G D I V E L T H P T G D F F  
UniRef90\_R4VIB4 L H V R H L P G V F S E Y F T T M Q P G A L L R F E G P L G N F  
UniRef90\_S8BSP3 K K I D G I D D T S L Q A H P G W V S N V L H S V Q E G D E I D L T F P C G S F  
UniRef90\_UPI00046349BE I K R T V D G Y A S N W V C D N V R A G D E I E V L P P S G I F  
UniRef90\_UPI00047BCAEB I S V K R E D S R K E G I P D G V V S T Y L H H V N E G D I P I S A P A G D F F  
UniRef90\_J1R1U8 [ ] K R T A D G Y G S N W L D N V A V G D G V H V L P S S G T F  
UniRef90\_V5G252 K R E V L D S K R P G T E T H G Y V S N V L H D L K P G D I Q L S H P H G D F F  
UniRef90\_Q5YS93 [ ] K R E G G H G S N W L D T V A G D E L E V L P P A G T F F  
UniRef90\_UPI0002DEDD4A I K K D L P G D V F S S W A E S L K A G D R L D V M S P M G Q F  
UniRef90\_Q12EV8 R L V P D G R V T G Y I A N L K V G D A V R V S G P L G  
UniRef90\_UPI00037EB5F2 [ ] T I K R E K E G R V S R F F H Q L K P G D V I E A Q A P R G N F  
UniRef90\_F3S356 V R R [ ] I D N G V S S D W L H S V H E G M V L Q V S A P A G D F F  
UniRef90\_D6Z5A4 V R L A T P P L D V N P T P P G V A S S Y I F N L K P G D E V T I S G P Y G F F  
UniRef90\_M7MUS8 I K R T R D G Y A S N W L D N V E A G H L E V L K P A G T F F  
UniRef90\_A3K124 I R R G S P D G F G V H A A T R L T P G D H L E L S P P T G A F F  
UniRef90\_UPI00046A8FFD [ ] K A V K N G L F S Q F A T S L K A G D V L E V G Q P E G K F F  
UniRef90\_UPI00037845ED Q P G I E L H I R H M P G G K F T D H F G A M K E K D L L R M E G P F G S F F  
UniRef90\_A0A010QF42 L R L Y V R A V R G G E V S T Y L S R L A P G D K V E L A R G P H G E F F  
UniRef90\_B6BF99 [ ] K R E E A G A S R H L H L Q T G A V I E A R A P R G A F  
UniRef90\_C5FGF1 K G Q P L P H L K A V Y P D G G K M S T H L H S L S P G D T I L F A A V I P T Y  
UniRef90\_UPI00036753CC I K R E S S P K G L D V P P G V A S N F M H D I S E G S I P C K P S S G K F  
UniRef90\_M3ADL5 K R E A G L T P G C I S N L L H S T N I G D I K L S H P A G D F F  
UniRef90\_B2T1G6 K R E G K G G C D F L H H I V V G D T I E T L J A P R G A F  
UniRef90\_G2DGY0 I R V V G R V L R K M Q S L K P G D R V G I R G P F G R  
UniRef90\_Q5AR63 G N S P K V D L I I K V Y P K G Q V L N Y L N L P L Q S R V E I R G P F G R Y  
UniRef90\_UPI00047A4959 [ ] K R L P D G R G G S A W I H T L Q P G D A V D I S V P R S H F  
UniRef90\_A0A059MIF4 [ ] K S Y P E D A E H G G V T A R A R L Q P G D T M L L E D I W G A [ ]  
UniRef90\_Q0FJ67 [ ] K R E P G G R V S N H L H H F D V G S R I Q L F P S G D F F  
UniRef90\_F2K5F7 [ ] K A V K A Q G P A S R Y L H E R V G D V L N V R P P M G S F F  
UniRef90\_B0KTP0 [ ] K V G V R E V A D G A C S P Y V N R L A P I G E T L P V L T P A G R F  
UniRef90\_UPI00035EB6B4 D P N N F Y T L I K V Y E T G A L T K V I G N L A S P G D E I S V  
UniRef90\_UPI0002F9621D [ ] L H I R L H A G G R M S R H V R E L A P G H K L Q I A G P R G T C  
UniRef90\_L7L323 K L A G E V S A H L H N V F G D T L R V S T P F G D L  
UniRef90\_UPI0004706C8B I K R D P N G K V S P W A H H L R P G T V L D M L G P V G A F

UniRef90\_UPI000365160F  
UniRef90\_A6FIT4  
UniRef90\_UPI000373D358  
UniRef90\_UPI00029A01A2   
UniRef90\_L0LRG9  
UniRef90\_UPI00036F2854 T F  
UniRef90\_U1LJZ1   
UniRef90\_U3AV92  
UniRef90\_R4XYM0 W P A R  
UniRef90\_C5GXJ1  
UniRef90\_H8G752  
UniRef90\_V4YNS9  
UniRef90\_UPI000428EE86 E W K G K  
UniRef90\_UPI000345DC1B  
UniRef90\_N9KW85  
UniRef90\_V5X589 P F  
UniRef90\_Q9I0H4   
UniRef90\_Q390N9  
UniRef90\_UPI00036D0EF8 E Y K G E  
UniRef90\_UPI0002FB5193  
UniRef90\_W7SB63 A W N G  
UniRef90\_C9S8T2 D L Q A R  
UniRef90\_C2CT24 T  
UniRef90\_T0QB18 F L Q  
UniRef90\_Q292E3  
UniRef90\_I2ES74   
UniRef90\_H6RLL6   
UniRef90\_C5DS97 T  
UniRef90\_UPI0003455A06  
UniRef90\_UPI0002488605  
UniRef90\_UPI0002FD0E4E T  
UniRef90\_M4NAI4  
UniRef90\_Q1N8C9  
UniRef90\_U1P4T1  
UniRef90\_U1NPQ4 F Y A G E  
UniRef90\_M3K5K5 F Y E  
UniRef90\_M0ABX6 A Y E G  
UniRef90\_M5NBF9 F Y  
UniRef90\_UPI0003711A7B L K  
UniRef90\_D8NVH5  
UniRef90\_C6KVR8  
UniRef90\_U1YJ06 T L K D E  
UniRef90\_D7I3E2 T  
UniRef90\_A3KJ00  
UniRef90\_X1Q220  
UniRef90\_C8XE22   
UniRef90\_N6TYG8 Q W R G R  
UniRef90\_K1WV88  
UniRef90\_C6VW14  
UniRef90\_Q0SJH6   
UniRef90\_UPI00037C46BB H  
UniRef90\_D8Q402 F Y  
UniRef90\_UPI00037A277B   
UniRef90\_N9WH33 L K  
UniRef90\_V9VZX1  
UniRef90\_W9VWV0 E Y E  
UniRef90\_G2Q0W7  
UniRef90\_W3X6Y2  
UniRef90\_R4VIB4  
UniRef90\_S8BSP3  
UniRef90\_UPI00046349BE T  
UniRef90\_UPI00047BCAEB  
UniRef90\_J1R1U8 T  
UniRef90\_V5G252  
UniRef90\_Q5YS93 T  
UniRef90\_UPI0002DEDD4A   
UniRef90\_Q12EV8  
UniRef90\_UPI00037EB5F2 L N G Q  
UniRef90\_F3S356 T L G N  
UniRef90\_D6Z5A4  
UniRef90\_M7MUS8   
UniRef90\_A3KI24  
UniRef90\_UPI00046A8FFD T F T P  
UniRef90\_UPI00037845ED  
UniRef90\_A0A010QF42  
UniRef90\_B6BF99  
UniRef90\_C5FGF1 R W T P N  
UniRef90\_UPI00036753CC  
UniRef90\_M3ADL5 F Y D P Q  
UniRef90\_B2T1G6 F  
UniRef90\_G2DGY0  
UniRef90\_Q5AR63  
UniRef90\_UPI00047A4959 E L H G R  
UniRef90\_A0A059MIF4  
UniRef90\_Q0FJ67 E D K G  
UniRef90\_F2K5F7  
UniRef90\_B0KTP0 T  
UniRef90\_UPI00035EB6B4  
UniRef90\_F6T1X5  
UniRef90\_UPI0002F9621D F Y E G  
UniRef90\_L7L323   
UniRef90\_UPI0004706C8B H



1 10 20 30 40  
UniRef90\_UPI00035E6A70 P V R K M P C R V Q A L E F P A P D V A V L R L Q L P A N E V  
UniRef90\_UPI00046AAA98 F Q A T L E S R R E L T S D I T E F C F R G P A P A R  
UniRef90\_A4JLC6 T P A S A A P S A S G W R A L R I A K I V D E A R A L R S F H F D A A S D G Q A W  
UniRef90\_B2B713 L N D Q K F S P F E I A K I D R Q Q V S P T A F I V T V K L A A S G A W K  
UniRef90\_K6X433 K V H E I R E V V A D D T V A L T V R K L A D D P L E  
UniRef90\_Q3SHI5 H A V K L L M T Q F V T H D V K R F L V S K P P G  
UniRef90\_B2TCM0 W H K L K V A A V V E E T A S I R S F Y F E P V D G P A  
UniRef90\_B6WXA8 N P Y K P M L A T V V E T I Q E T G N L K T L R V V L D D P E Q  
UniRef90\_R4M0E3 H R L P V A S V D P I T A D A T L V T F A V P E A R D  
UniRef90\_B1J111 W L T W R V E R V E Q E S R D I R S F Y L A P D R P T  
UniRef90\_A0A022LYH5 W H A A T V A S V V R E T T N A R R I V L D V P T W  
UniRef90\_L8DDI2 R P Y R V V R R T Q E S P G T V S L V L E P A D G A P  
UniRef90\_L0IXQ4 Q W R V A R V V N S T P E T E S A R T I G L A V P D G  
UniRef90\_X2KCJ9 V P C R V A E I V R I A P D V V Q V F L R V P P S A R  
UniRef90\_A0A022L5R6 L E V D Q V I S E T S D A V T I R F S I P A D D D  
UniRef90\_F9UBN6 P C R V S R K E R L N H D V M R L F L K L P E N Q R  
UniRef90\_V6I544 K K A R I K N I A R T A G S V T I T F S L D G P L D  
UniRef90\_G7DLU1 T S P P P A W R G F R P F R V A R K I A E S G N V T S L L L E P A D G H P  
UniRef90\_E8TUN1 P V Q D F A G V V S R I E D L T P T I K G V W I E L D A P  
UniRef90\_UPI000465C560 N G W R D F R I E N V A R E S S V I S S F L R P V D G Q P  
UniRef90\_B8KT77 T Y N T L T V S Q V T P E T D S A V C V S F D V P E S R D  
UniRef90\_UPI00037CAF05 W R P F R I R R K V P E S A E I I S F E L V P E D G G A  
UniRef90\_K4E595 R E T K V L E S V D V A V D L K N I T F S C P E K L Q  
UniRef90\_V9DAJ7 D S F V T Y T L T G K E P V S S T A S I F H L Q P E N H E L T  
UniRef90\_R1EGH0 K D F T V T E I A D V A T G I K S F K F E P V N P L T  
UniRef90\_W2E2W1 F R P F I V A K K V P E S D V I T S F Y L R P E D G K E  
UniRef90\_UPI00047B4741 F K E L V L V D R V K E E C D D I V S F Y F K S V D D S K P  
UniRef90\_D5ZYF8 D I W R R W T V V E R H E E T D D V V S F L L R P A D G G P  
UniRef90\_Q5MBR9 Y H L K I I S K R D E G N D T A S L W L E V P Q D R G  
UniRef90\_R1H8H9 R A F V I E R K Q V E S E V I T S F V L A P V D G L P  
UniRef90\_W3AEK2 F K D F V V A R K V K E S D V I T S F Y L K P A D G S N  
UniRef90\_G0FYT2 F H R L R V R E V R P L T A D A V A I T F D V P H A P  
UniRef90\_QOCEI5 W R K F I V S K K V P E S D E I I S F H L T P V D G G K  
UniRef90\_E3IE82 K D F H R F I V Q K K V K E S D V I T S F Y F I P E D G G E  
UniRef90\_UPI000370B682 E D G S V W R H W Q V V E C I Q E T A D V I S F R L V P A D G G P  
UniRef90\_UPI0003B4CD78 P V Q D F A G V V S R I E D L T P T I K G V W I E L D A P  
UniRef90\_L9WL40 M L P N R F T P C R V E S I E K I T H D V A V L K L K I P A S E R  
UniRef90\_D5NWS7 T T S V L A K T G P E T F S A E V T K V G A L S D T V F E L E L E V E D R E R  
UniRef90\_UPI000289CBD4 E G F R N F V V E R K V K E S E V I T S F Y L K P E D G K E  
UniRef90\_A4TLX7 F D V V V S K I E V I T S D V K R F T L T A G N D R P  
UniRef90\_A1WR56 Y D A T L T K I S A L T H D I R L L E V E L S R P L S  
UniRef90\_C2V4F0 D G Y R N F I V R D K K E I E S N E V T S F Y L P E D G K V  
UniRef90\_E3HIM4 K L I V R E V R Q E S P L I R S F R L A R E D A G P  
UniRef90\_UPI0003B6C9D7 S T R G F Q P L T I S S V Q K E T D S A V V I G F N V E A Q Q A  
UniRef90\_G7GMU9 E V W R D V V V T E R R Y E S P D T V S L T L A A A D G S A  
UniRef90\_UPI000372FC07 F R P L A V A G I R R E S A D V I S I R L A D A G H P  
UniRef90\_Q221Q4 W R E F R V L R R E D D T H T Q C S F Y L V P V D G A A  
UniRef90\_A3WJN9 I A L T L D S K R Q L T P S I M E L T F V I S D P  
UniRef90\_Q25BV8 R I S F S P E D L C F E A E I T E V S Q I S S N V Y R L C L K R I G T N Q  
UniRef90\_V5F7X6 N D W R E F K I E K K V T E S D E I T S F Y L K P V D G K P  
UniRef90\_M2T559 R G W R D F A V V E K C K E S E I I T S F V L R P V D D G A  
UniRef90\_C7PTD3 V K I L S A D Y V T H D V R R R F R L E K P A D Y I  
UniRef90\_F6D3E8 L E I K R I T E E T P T V K T F I F D W K V E D E  
UniRef90\_I4VK93 F Q L R L V E S H M L A P T V R H L S F E R A D G Q P  
UniRef90\_X1JG5 A E L I R V E P I A E R E K V F E F R L K D G K  
UniRef90\_A0A024K4W3 E L Q I A E V V D E T D D A R S L V F A V P D P A E  
UniRef90\_K2KJK7 R A F R L A R K E P E S E K V T S F Y F E P L D G G P  
UniRef90\_B2T8C8 F R V A R K V R E S D E I T S F Y L R P A D N G E  
UniRef90\_D5UMF2 H R L L V A K V V A E T H D A H S I E F E V P A E A D  
UniRef90\_K6X3Q4 T V I V G A V T E A A D T V S V T V L L D E P L D  
UniRef90\_UPI000472B10D R D F V I S E L K Q E S E V I K S F V L T P E D G Q P  
UniRef90\_U2A642 T P A R A A W H P Q E F T A E C V E T I P E A G G L M T F V F R R C D G A  
UniRef90\_N2JD15 F R V A R K V A E S D E I T S F Y L V P E D G G A  
UniRef90\_Q9V045 N P Y Q S Y D A R I I E V R E L T P R E K L F S L K F P E V E E  
UniRef90\_N8TZ41 P L R D F E A T V E S I V E L T P T I R G I F L R V A E D V D  
UniRef90\_E8T7L1 F R D L K V V A K V R E S A L T R S F H I E P V D P Q D  
UniRef90\_B7QZB3 K T A R L R K T D L S E D T R D F A F E I L D G R F  
UniRef90\_Q6FL28 W K Q F E V V G K D K V A E D I Y E F T V K P T G D S G  
UniRef90\_E7FHW8 N P Y R S Y D A R I I E V K E L T S R E K L E S L K F L D N E I  
UniRef90\_W9AJB7 V T A I E P V T R D I V S L R L A V E P A T  
UniRef90\_G7DWJ8 L S A T Y F R R L T I N A V D K I N E D T S V F S L E L P D H L A  
UniRef90\_B4SMW9 F P L K L V G C R M L A P T V G H Y Q F V R D D G Q P  
UniRef90\_V7EJZ1 V Q A T V A G V E A L S E T S F R L R V T L P A A M P  
UniRef90\_F9VUX8 V R D V A A D T V S M T V L L D E P  
UniRef90\_K2SX56 T T L H P A L F S R Y T I A A R E P V S E S T S T L F T L A R A R D Q Q D  
UniRef90\_S7Z8A1 T W R E F K I V D K V Q E S E E I T S F Y L A P V D G K P  
UniRef90\_UPI0002EB41EB R P F V V T A K I K E S E L V T S F V L T P E D N Q A  
UniRef90\_UPI0003FBDF79 P A R V E K L D K V A P D V I E L H L R L P A S E K  
UniRef90\_UPI00046EB1D4 F K G F I V A D K I K E S D V I T S I Y F K P V D S G K  
UniRef90\_UPI00046B07CD T D P D N W R P H R V V D R V E E A R D V I S L S L E P V D G R R  
UniRef90\_UPI000403E24D D V W Q T A R V L A R T Q L S P D A I A L T L A A T D G D E  
UniRef90\_W9VZS9 N G W R T F T V A K K V Q E S D E I I S F Y L E P A D K D P  
UniRef90\_A4BMV8 P P E P F I E P R Q L P C R V A R I E D L C H D V R R L Y L R T P G V I E R  
UniRef90\_A0A011SUV9 Y S C C A V S T R S V T P L I R E I V L A L P E P E T  
UniRef90\_UPI0003774C75 H R C A V L A R R H L T P R T V R L T L G G P S L L G  
UniRef90\_K5BG78 R I V E V R R E T V D S A T L V I K P G W G F  
UniRef90\_V2JHF3 L R I A R K V Q E S E I I T S F Y L E P A D G G V  
UniRef90\_UPI00035DE06E F H D L K V K R V N P E A A G S V A I A F D I P H D A R  
UniRef90\_U6C0H5 H P A R I I K G T V T A I E Q A T H D I R R V R V K L A K P L E  
UniRef90\_C7MEL5 D V F R E A V V R R T E E S S R V S F D L A A P E G A E  
UniRef90\_UPI00046E817B F N T L T I A N I I R E T A K A V S I T F E I P A N K E  
UniRef90\_G7GWW4 L T V A D V V D E T A D A R S I V F D V P T A D K

UniRef90\_UPI00035E6A70 F R Y H A G Q Y L Q F L L R D G S R R S Y S M A S A P D G Q P A V Q  
UniRef90\_UPI00046AAA98 F L P G Q G Y T M L S L D G V P C P R A Y S M S N L A N T E G V W E F W  
UniRef90\_A4JLC6 L A P A Y E A G Q H L T L R V J A L P G G D A L R S D Y T L S D A P D G V A H Y R L T V  
UniRef90\_B2B713 L A W L E T L Q H K L T L A W E G T W A V E V A R D Y T P L P E L D G V A K G L F S P Q  
UniRef90\_K6X433 F S A G Q G Y V E I T V P G T G E V R Q Y S M A N P P R S D D H L E F H  
UniRef90\_Q3SH5 F S V M P G Q G V E L A I D R P G L R E Q R R P Y T P T G L A A D A  
UniRef90\_B2TCM0 L P S Y K G G Q F L P I R V P V E G T P L S R T Y T L S D A H D P Q R Y R I S  
UniRef90\_B6WXA8 M F T Y E P G Q V G Q L S V F G A G E S T F V I N T P L S D A P S Q K E Y L Q F S  
UniRef90\_B4M0E3 A F R F E P G Q H V I V R T D L G G Q G I R R N Y S I C A P A T S D A Q L R I A V  
UniRef90\_R1J111 V T F A P G Q H I P V R L P L G G D T P L I R T Y S L S C A P S D A G H L R I S  
UniRef90\_A0A022LYH5 P G N D P G Q H L D L R L T A E D G Y Q A Q R S Y S I A S A G P T T D R V V L A V  
UniRef90\_L8DDI2 L P A P A A G Q Y V T V F V D A D D G T R Q S P R Q Y S V S S L A S D T R L Q I T V  
UniRef90\_L0IXQ4 W G G H L A G Q H I D L K L T A E D G Y S A Q R S Y S L S R P A D G E H I E L T Q  
UniRef90\_X2KCJ9 F E F L P G Q Y I D V I G P G G E R R S Y S I L A N A N A D N H V L E L Q  
UniRef90\_A0A022L5R6 Y A F S P G Q F L T L A I P S E R D G W V A R C Y I S S S P S Q A G L A V I T V  
UniRef90\_F9UBN6 L R F L A G Q Y L D F L R D R G R R A R A F S I A N A P H D D A E I E  
UniRef90\_V6I544 F L G G Q Y V I F N S G V K T E D G K E I K R A Y S I L S S D Q Y Q G E F Q I C  
UniRef90\_G7DLU1 V A A A L P G Q F V I V R L G A S A A P A M T R S Y S L S S R S D A S E P W E I S  
UniRef90\_E8TUN1 M T F Q A G Q Y I N L Q I P G E S Q P R A F S I A S S P A Q A S E I E  
UniRef90\_UPI000465C560 V M E H K P G Q Y L T F S F E I D G E S A V K R N Y S I S S A A N G E T Y R I S  
UniRef90\_B8KT77 V Y N F K P G Q Y L T L K A E L D G E S S R S Y S I C V P P G H D Q L Q  
UniRef90\_UPI00037CAF05 I P Q H R P G Q Y L S L D L P D E G I R Q P R Q Y S L T H A P G H D A F V  
UniRef90\_K4E595 I M P G G H I S V L V P D G S S N G F I K V S H Y T P F V  
UniRef90\_V9DAJ7 Y K E A W R R G I L W N V Q F K P Q L Q I V R A Y T P L P P V D E K T G Q E T G  
UniRef90\_R1EGH0 S F A F E A G Q Y L T V K V D P N G D T A P R H Y T A T S P P G A K Y L Q C T T  
UniRef90\_W2E2W1 L A G F E P G Q Y L T I R L N I P G Y T L N R Q Y S L S S M A P P N E D I Y R I S V  
UniRef90\_UPI00047B4741 L P I H E P G Q Y L P F K I K T D D K D E L R T Y S L S S D P G D E L R R I T V  
UniRef90\_D5ZYF8 A P R A R A G Q Y V S V R V M P D D G V H Q L R Q Y S L S S S T P G A H R D L R I T  
UniRef90\_Q5MBR9 A F S Y Q P G Q F L T V E R E Q S G E R I S R Q Y S L S S D A P N G R N Y R I S V  
UniRef90\_R1H8H9 V L D F Q P G Q Y L S L K V L T H P D Y Q E I R Q Y S L S S D A P N G R N Y R I S V  
UniRef90\_W3AEK2 V P T Y I P G Q Y I S V K V S I P G Y T M I R Q Y S L S Q A S K P D E F R I S  
UniRef90\_G0FYT2 E F R F S P G Q H V A V R A T V D G R S V R R T Y S I C A P A D S G E L R I A  
UniRef90\_QOCEI5 L I S E Y L P G Q Y V S V K V S I P G Y T H I R Q Y S L S D V P N G K E R F Y R I S V  
UniRef90\_E3IE82 L P T F T P G Q Y V S V A V D L D G G Q I R Q Y S L S S G R P G E T Y W Q I T  
UniRef90\_UPI000370B682 L Q F M A G Q Y I D I L M R D G K A R S F S L A N A P H D D A F L E  
UniRef90\_UPI0003B4CD78 F D A A P G Q F V L L R A I P W D V A D M R H Y T L S P S V N E T F E I T  
UniRef90\_L9WL40 L N F L P G Q Y V N T V P G S T E T R S Y S F A T G P  
UniRef90\_D5NWS7 I A S Y Q A G G Y L T V K V Q P E G D E H I R H Y S L M S D A P G K H Y Y R I S  
UniRef90\_UPI000289CBD4 L P I F E G G S H L L V Q I P I G E K N L S N A Y S L M N S P F E T H R Y Q I A  
UniRef90\_A4TLX7 F A A Y K A G Q Y V E L T I P G S G I T R S F S M A S T P N G Q R K L E F V  
UniRef90\_A1WR56 L P A F G P G A H L K V T V P G L R E P R C Y S L V Q L A P E A G K F A Q P  
UniRef90\_C2V4F0 E L Y Y R P G Q Y L T L R A N I D G E S V Q R S Y S I C S  
UniRef90\_UPI0003B6C9D7 L P S F H A G Q Y I S V P A D G A R Q I R Q Y S L T G A T D R P D W Q  
UniRef90\_G7GMU9 L P A A L P G Q Y L T V P E H P A G E P A L I R D Y S L S L S G A P G A P E Y R  
UniRef90\_UPI000372FC07 L P P F R P G Q F L T F T L Q V A D R T I T R C Y S L S D R P E P T C Y R I T  
UniRef90\_Q221Q4 V I S Y E A G Q Y M Q F R I P H I N E L S R H Y S V A T R N P H P T Q F V  
UniRef90\_A3WJN9 Q I K L A A G Q Y Y E L Q I P N G E T W R S Y S P A N T E N N D G V M E F L  
UniRef90\_Q25BV8 L P S F R P G Q Y I S V M V D V P N H P Q A R Q Y S L S D M P R S D Y Y R I S V  
UniRef90\_V5F7X6 V V R H R P G Q Y L T L W L D G G P H S L K R N Y S L S A P N G E T Y R I S V  
UniRef90\_M2T559 F T P G Q A T E L S I N K E D W K D K R N P F T A L T D A P Y L E F T  
UniRef90\_C7PTD3 A P G Q F M M V W N F K D E K P M S I S I I D S V K D E L G I S  
UniRef90\_F6D3E8 L A F V P G Q F L Q V H F H Y D D G T A T K R S Y S V G T V G D G A  
UniRef90\_I4VK93 E L G H K P G Q F L V E L S I F G I G E A P I S I S S P T K K R S F E L A  
UniRef90\_X1JIG5 R L R Y A P G Q F L T L R V P S D R T S V A R C Y S L S S S P F T D D A L T V T  
UniRef90\_A0A024K4W3 V M D F L P G Q Y I K V K P S Q D D Y Q E I R Q Y S L S A A M N G K E Y R I S V  
UniRef90\_K2KJK7 L J A F H P G Q Y I G V R V L V I D G E E V R R N Y S L S A M S N G E Y R I S V  
UniRef90\_B2T8C8 R F T Y K P G Q F L T V R V P S E Q T S V A R C Y S L S C A P H D G G P L R V A  
UniRef90\_D5UMF2 F V S E F T A G Q F V A L A V E G H R Q I R Q Y S L T R T P D G K S Y R I A V  
UniRef90\_K6X3Q4 V S E F T A G Q F V A L A V E G H R Q I R Q Y S L T R T P D G K S Y R I A V  
UniRef90\_UPI000472B10D P L A F R A G Q Y V N I A F P V N G G E V D R S Y S L S S S P T E P W T F S I S  
UniRef90\_U2A642 L L D F Q P G Q Y I G M R L N L E G E E V R R N Y S L S A R A N G P E Y R I S V  
UniRef90\_N2JD15 S F T F K P G Q F V I V D I R G H G E F P I S L C S P T R K R I Q L C I  
UniRef90\_Q9V045 F Q A G Q Y I N L Y T P G L P E P R A F S I A S A P S Q A N L I E L N  
UniRef90\_N8TZ41 W R D F Q P G Q F L V F R I P V A R E A V L R N Y S I C S P D S A S Y R I S V  
UniRef90\_E8T7L1 S G L E P G A H V D I H L G A D L V R Q Y S I W S W S Q D G R Q I N V A  
UniRef90\_B7QZB3 V L P I I P G Q Y I T V N S H P N K Y D A L R H Y S I C S A D T T N G  
UniRef90\_Q6FL28 E E N F T F K P G Q F V I V D I R G F G E F P I S L C S S P T R R P Q L Q L C I  
UniRef90\_E7FHW8 F E F R A G Q Y A D I H I P G T D E H R S F S M A S T A A T P G Q V E F L  
UniRef90\_W9AJB7 P S S V R P E A L Q S I H V I Q P E L Q I E R P L T P L D L D A L D A H  
UniRef90\_G7DWJ8 L D F Q P G Q F I Q V H F S Y A D G T E T K R S Y S L A T H D H A L  
UniRef90\_B4SMW9 F L P G Q Y V N V Q V P G T A T R A Y S F S H P Q A T E  
UniRef90\_V7EJZ1 L D F T A G Q Y V E L A V P E T G E T R P Y S M A N P P S E P G K L E F  
UniRef90\_F9VUX8 L R D F W R R A V W S V E A K Q P E L Q I A R A Y T P T S T D A S A E E L R F L  
UniRef90\_K2SX56 L P S F Q P G Q Y L S L R I N V P Q L H C L A Q Y S L S S D K P N Q E Y R I S  
UniRef90\_S7Z8A1 V L D Y R P G Q Y I E V K P T L G Q Y R E I R Q Y S L S Q Q S N G K S Y R I S V  
UniRef90\_UPI0002EB41EB F Q F Y A G Q Y I D F L K D G K R R S Y S L S A P E K E G V L E  
UniRef90\_UPI0003FBDF79 V P S Y K P G Q Y I S V K L E I P G N T L I R Q Y S L S Q A P N G E S F R I S V  
UniRef90\_UPI00046B07CD A P H R I G Q Y V A V A V D L P D G T R Q P R Q Y T I S S S T P E A S L R V T  
UniRef90\_UPI000403E24D L G C F T P G Q Y V S V R V P S D G A R Q I R Q Y S L T G A T T D P T W  
UniRef90\_W9VZS9 L P G F K S G Q Y V S V R V F L P E L G I Y Q P Q Y S L S D V P D G K H F R I S  
UniRef90\_A4BMV8 L E L F A G Q Y I D I L L Q G G R R R S F S L A N P P H D N E L L E L H  
UniRef90\_A0A011SUV9 F R A E W Q R L G L D L V A A S P E P S R S R A Y S V A S R P Q D K G N I V L N  
UniRef90\_UPI0003774C75 L T P H P A Q D I E L L T D T R G S V V K R Y T I R H A R P Q I G E W D I  
UniRef90\_K5BG78 S F D Y Q P G Q Y I G I G L F V D G R W R W R S Y S L T S S P L T S  
UniRef90\_V2JHF3 L P A F R P G Q Y L T L L L T I D G A Q D T R R H Y S L S D A P G K P W E R I S V  
UniRef90\_UPI00035DE06E A F Q F E P G Q F L T L R A T I D G Q D V R R N Y S L S S S F H R D G E I E I G  
UniRef90\_U6C0H5 F S P G Q Y A T L Q F T P E H I R P Y S M A G L P G D A E M E F Q  
UniRef90\_C7MEL5 P L F L P G Q Y I S V G V V L P D G A R Q L R Q Y S L S D A P G E G R W R I T  
UniRef90\_UPI00046E817B A Y S F I S G Q Y I T I K T O V N E K E I R R A Y S I C S T P  
UniRef90\_G7GWW4 F T A Y K P G Q F L T L R I P S D Q T S V A R C Y S L A S S P V S G E L P K V T

UniRef90\_UPI00035E6A70 L H I R H M P G G K F T Q V F G A L K E R D L L R M E G P Y G S F  
UniRef90\_UPI00046AAA98 I R K K P G G R V T E P L F A L E P G D Q V L G L D G P Y G G R F  
UniRef90\_A4JLC6 K R E G R V S A W L H H A R A G D M T L D A Q M G P Y G G R F  
UniRef90\_B2B713 Q S I P T F K F L I R R T E G E V S S W L S R R K V G D T I E L R G P H Q S F F  
UniRef90\_K6X433 V R R V G L E F T I K G Y P S H A G V S T D A L H R L E P G A E M L M R G E P W G D F  
UniRef90\_Q3SHI5 V L E F T I K G Y P S H A G V S T D A L H R L E P G A E M L M R G E P W G D F  
UniRef90\_B2TCM0 V K R E M Q A G E V T S A I H R L S P G D K V G V R A P L G N F  
UniRef90\_B6WXA8 V P G G A F S T F V A N L K A G D V L E L M T P T G R F F  
UniRef90\_R4M0E3 V K A Q G A A S R Y L H E V G V G D L L D V R L P M G S F  
UniRef90\_B1J11 D R V D G G E V S P F L D A V E V G D A L D V H G P L G G F  
UniRef90\_A0A022LYH5 A Q V R N G P P G Q V S T H L D S V A V G D L E V S G P A G D  
UniRef90\_L8DDI2 V Q K F V E G G V M S Y W F H Q A K V N D L L R L H G P L G T F F  
UniRef90\_L0IXQ4 V R F V E G G V S T H L D S V A V G D L E V S G P A G D  
UniRef90\_X2KCJ9 K R T A D G Y G S N W L D N V A P G S T L R V L P P S M G Q F F  
UniRef90\_A0A022L5R6 L H V R H V P G G E F T A Y F D S M P E K S I L R L Q G P S M G T F  
UniRef90\_F9UBN6 I Q P V K E G L A S L H I P N L A I G A E L E F S G P W G K F F  
UniRef90\_V6I544 I K R E A H G A A S Q Y I D E V K L G D A V Q I L G A P R G S F F  
UniRef90\_G7DLU1 L N I R L V P G G A G S R Y L H Q L R P G E R V R L S G P Y G G R F  
UniRef90\_E8TUN1 V K R E P K G V A S N W L H H A T V G T V I K V A A P A G E F F  
UniRef90\_UPI000465C560 V A L K R V E G G I F S N F A D H L E A G H E I E V S M A P A G D F F  
UniRef90\_UPI00037CAF05 L R I S V K R E R G N G A P D G R V S G R L H L G E G D R L E V S A P A G D F  
UniRef90\_K4E595 C E A T S F T I T V K K Y P N G M T S S Y L H S L K P G D T M K Y E G P L  
UniRef90\_V9DAJ7 D L R F L I R H D P H G E V S S W L H R L P F T A E I E M R G P Y L  
UniRef90\_R1EGH0 K K V A G G V V S T Y M H E L K V G D T V K L T P Y G V F  
UniRef90\_W2E2W1 R I S V K K E A G R D G E A E G I V S G Y L H N V E E G D V L D I S A P A G D F F  
UniRef90\_UPI00047B474 K K I Q N G L I S T Y L H N L N I G D K I D A M A P C G L F  
UniRef90\_D5ZYF8 K R V A G A D G A P D G E V S R L L H E I G T G D E L T L S A P F G D  
UniRef90\_Q5MBR9 V K K I P G G A V S P W L V D I A Q G Q A L E V Q V P R G R F F  
UniRef90\_R1H8H9 K R E S Q G Q V S N L H K L Q P G D V V E A M P P A G D F F  
UniRef90\_W3AEK2 V K R E A D N D P N G I V S Y L H K V N E G D R L E V S A P A G V F  
UniRef90\_G0FYT2 V K R R A G G A F S G F T T L A A G D F L D V L P P S G A F F  
UniRef90\_QOCEI5 K R E F A S G V R P A G R I V S N V L H S L P E G A E V E I S M P F G D F F  
UniRef90\_E3IE82 V K R E A A T A D K P A G I V S N Y L H H V Q E G D L E L S A P A G V F  
UniRef90\_UPI000370B682 V K R V R A T G D A P E G V V S T L L H D V T A G D T L R L S P P F G E  
UniRef90\_UPI0003B4CD78 L H I R H M A G G T F S E Y F K T M K E R E T L R F K G P L G T F  
UniRef90\_L9WL40 V G I E D P D G D L S P W L A D L E G G E T V H I L D G P F G T I  
UniRef90\_D5NWS7 E V E K I G F L I K N T P D G L M T N W L K D V K V G D K L E F E G P M G S F F  
UniRef90\_UPI000289CBD4 V K R E E H G V V S N Y L H Q V V N E G E I T I T I S A P A G D F F  
UniRef90\_A4TLX7 V R L S E H S R G G A D F M H H V V K V G D K L R V S G P A N N L F  
UniRef90\_A1WR56 I K K Y P N G A F S S Q L D G A L K P G A R L V A K G P Y G  
UniRef90\_C2V4F0 V K R E N E H E M S P D G I V S S Y L H K I Q M G D S L S I S A P A G D F F  
UniRef90\_E3HIM4 A E Y R L G V R L E E T S Q G G S R H M H A L A A G D T L T V E G P K N D F F  
UniRef90\_UPI0003B6C9D7 I N D A A M T I A V K R V E G G K F S N F A D A L V A G A Q I E V M P P Q G N F L  
UniRef90\_G7GMU9 I S I K N I G E V S G F L H E V F E G D T L H V S T P F G D L  
UniRef90\_UPI000372FC07 I G V K A E P H G G A S N R L H S L R A G D R L E A A A P R G T F F  
UniRef90\_Q221Q4 I K R I P T P D D R P L V P P G A S S S H F H D I R A G D V L Q V K A P S G H F  
UniRef90\_A3WJN9 F N I R Q L P S P S E G I L P P G I G S N Y L C H N D E A G A R V D A V I G P F G D F  
UniRef90\_Q25BV8 I R V P D G K F S K F L H D A Q I G Q T V H L K G P S G V F F  
UniRef90\_V5F7X6 K K E T G V N P S N P Q A A G G Y L S N L L H T K K E G D V V L V S H P Y G D F F  
UniRef90\_M2T559 K R E P R G I A S N W L S H E V E T G T T L K V S V P A G E F F  
UniRef90\_C7PTD3 I K I Y P E H Q G V T H Q L S L N P G D E L I L R E S W G A I  
UniRef90\_F6D3E8 I R I V G K F T E A L H N M K V G D K L G L R G P Y G H F  
UniRef90\_I4VK93 S P V Q R V E I A V S Y V E G G A T K L L G E L P I G G I I D A S G P Y G R F  
UniRef90\_X1JG5 V R A V G N V T N A L H N L D I G A T V G I R G P Y G N  
UniRef90\_A0A024K4W3 V K R T A D G Y A S N W L D N A Q A G M R I H V L A P S G N F  
UniRef90\_K2KJK7 K R E D Q G L V S R Y L H E A L P A G A V A L I P P A G D F F  
UniRef90\_B2T8C8 K R E A N G K V S N H L H E A V N E N D T V E L F A P A G D F F  
UniRef90\_D5UMF2 V K R T A D G Y A S N W L D N A T P G M E L D V L V P A G I F  
UniRef90\_K6X3Q4 H I R R Q P G G L A T E I F Q T L D V G D P V T M S G P W G D F F  
UniRef90\_UPI000472B10D R R Q P E G K V S G W L H S A K C G D R V A M L S A P A G D F F  
UniRef90\_U2A642 V K R D A G L V S P W V H N V K P G T V L E M L I G P V G A F F  
UniRef90\_N2JD15 K R E A D G R V S N Y L H Q V N E G D R L E L F P P A G E F F  
UniRef90\_Q9V045 R R V G R L T R L I H K F S E G D V I G V R G P Y G N  
UniRef90\_N8TZ41 V R K V P G G I G T G W L H D L S V G Q T L K F S G P L G R F F  
UniRef90\_E8T7L1 K R E A A P G P G L P D G I S S C F L H D I D V G D V L Q A E G P R G D F F  
UniRef90\_B7QZB3 V K R E D A G R G S R A M H E L E S G A T V E I I G G P R N H F  
UniRef90\_Q6FL28 L K F A V K L Q T S T N N P D G L V S E F L H K V K V G D V L K L S A P A G D F  
UniRef90\_E7FHW8 R R V G R M T K E I K M N E G D L I G I R G P Y G N  
UniRef90\_W9AJB7 I K K Y P G K F S G L L D D I S V G D E L T I T I G P Y G T S  
UniRef90\_G7DWJ8 S S N R Q L R L L V R R Y E D G E M S K Y L H R L G V G S Q L F V R G P  
UniRef90\_B4SMW9 G P G E A V D I A V S F V P G G A A T A L F E A L Q Q G G Q I S A S G P Y G R F  
UniRef90\_V7EJZ1 A S F L I R N I P G G L M S G Y L S R A R A G D A M E L T G P M G A F F  
UniRef90\_F9VUX8 H I R R Q P G G L A T E I F E S L D V G D P V T M T G P W G D F F  
UniRef90\_K2SX56 I R R E R G E V S G Y L H R L P D G A T V E L R G P H V E F F  
UniRef90\_S7Z8A1 V K K E K G L P A T G T S H P G Y V S N L L H D Y N K G D I V E V S H P C G D F F  
UniRef90\_UPI0002EB41EB K R E S Q G T D K Q G L V S N Y L H Q I S V G D G I H V F A P A G D F F  
UniRef90\_UPI0003FBDF79 L H I R H V P G G L F T Q V F G T M K V K D I L R F E G P H G G F F  
UniRef90\_UPI00046EB1D4 K R E A D N N P N G K A S V Y L H K V N V G D V L E L S A P A G D F F  
UniRef90\_UPI00046B07CD V K R V R G A D G A P D G Q V S T W L H N A H V G T V L D V S Q P A G  
UniRef90\_UPI000403E24D H I S V K R R D G D V S T H L H N V F E G D L R V S T P F G D L  
UniRef90\_W9VZS9 V K K E S A R G Q I P A G R I S N V L H E V P E G A Q L D V S M P R G D F F  
UniRef90\_A4BMV8 I R R I P E G E F T S Y V F D E I E P E T L L R F E G P L G N F F  
UniRef90\_A0A011SUV9 I R L A T P P P G N P D A P P G I V S S W L F G L A P G D E V G V A G P Y G E F F  
UniRef90\_UPI0003774C75 D A V L H P G G G P G S A W A S A Q P G A P V E F V I G P R G K L  
UniRef90\_K5BG78 R R N K T I T I T V K A M P E G F L S T H L G G V K P G T V V R L A A P Q G N F  
UniRef90\_V2JHF3 K R E P G G R A S N W L H A A V G D V L Q A L Q P C G D F F  
UniRef90\_UPI00035DE06E I R P V V D G V F S N W A A V K A G Q T L S V M P P D G R F  
UniRef90\_U6C0H5 I R L V P G G R V T E H F D Q L A V G A A I R V S G P L G  
UniRef90\_C7MEL5 V C R E H G L D G T P D G E V S T W L H N L G E G D R L Q V T L P A G D F F  
UniRef90\_UPI00046E817B K S N Q L T V A V K E I L K D G T V S V A N N E L K G V G D R L Q V H T P E G N F  
UniRef90\_G7GWW4 V K R T N G G Y G S N W C D N L A A G S Q I E A L P P S G V F

UniRef90\_UPI00035E6A70  
UniRef90\_UPI00046AAA98  
UniRef90\_A4JLC6 T F  
UniRef90\_B2B713  
UniRef90\_K6X433  H  
UniRef90\_Q3SHI5 Q Y K G  
UniRef90\_B2TCM0  F  
UniRef90\_B6WXA8 F W K G K  
UniRef90\_R4M0E3  
UniRef90\_B1J11 T  D G  
UniRef90\_A0A022LYH5  W R P  
UniRef90\_L8DDI2  
UniRef90\_L0IXQ4  W R P  
UniRef90\_X2KCJ9  
UniRef90\_A0A022L5R6  
UniRef90\_F9UBN6   
UniRef90\_V6I544   
UniRef90\_G7DLU1 T  
UniRef90\_E8TUN1  
UniRef90\_UPI000465C560  
UniRef90\_B8KT77  
UniRef90\_UPI00037CAF05  L E P  
UniRef90\_K4E595  
UniRef90\_V9DAJ7 E Y E  
UniRef90\_R1EGH0 T  
UniRef90\_W2E2W1   
UniRef90\_UPI00047B4741 T  
UniRef90\_D5ZYF8  
UniRef90\_Q5MBR9  
UniRef90\_R1H8H9  L T A K  
UniRef90\_W3AEK2   
UniRef90\_G0FYT2 T  
UniRef90\_Q0CEI5   
UniRef90\_E3IE82 T  
UniRef90\_UPI000370B682  
UniRef90\_UPI0003B4CD78  
UniRef90\_L9WL40 T Y E  
UniRef90\_D5NWS7  
UniRef90\_UPI000289CBD4  L E S K  
UniRef90\_A4TLX7  
UniRef90\_A1WR56  
UniRef90\_C2V4F0  L K  
UniRef90\_E3HIM4  L H  
UniRef90\_UPI0003B6C9D7  
UniRef90\_G7GMU9   
UniRef90\_UPI000372FC07  
UniRef90\_Q221Q4  
UniRef90\_A3WJN9 Q  
UniRef90\_Q25BV8  
UniRef90\_V5F7X6  
UniRef90\_M2T559  
UniRef90\_C7PTD3 E Y K G  
UniRef90\_F6D3E8 Q M K G  
UniRef90\_I4VK93  
UniRef90\_X1JIG5  
UniRef90\_A0A024K4W3   
UniRef90\_K2KJK7  
UniRef90\_B2T8C8 K  E  
UniRef90\_D5UMF2 T  
UniRef90\_K6X3Q4  F E P  
UniRef90\_UPI000472B10D  
UniRef90\_U2A642 H  
UniRef90\_N2JDI5 T  
UniRef90\_Q9V045  
UniRef90\_N8TZ41  
UniRef90\_E8T7L1  Y K A  
UniRef90\_B7QZB3 K  L Q P  
UniRef90\_Q6FL28  
UniRef90\_E7FHW8  
UniRef90\_W9AJB7 T  K  
UniRef90\_G7DWJ8  
UniRef90\_B4SMW9  
UniRef90\_V7EJZ1  
UniRef90\_F9VUX8  H E P E  
UniRef90\_K2SX56  
UniRef90\_S7Z8A1  
UniRef90\_UPI0002EB41EB F Y Q E K  
UniRef90\_UPI0003FBDF79  
UniRef90\_UPI00046EB1D4  
UniRef90\_UPI00046B07CD  
UniRef90\_UPI000403E24D T  
UniRef90\_W9VZS9  
UniRef90\_A4BMV8  
UniRef90\_A0A011SUV9  
UniRef90\_UPI0003774C75  
UniRef90\_K5BG78   
UniRef90\_V2JHF3  L E P  
UniRef90\_UPI00035DE06E T  
UniRef90\_U6C0H5  
UniRef90\_C7MEL5 T  
UniRef90\_UPI00046E817B  
UniRef90\_G7GWW4 T

1 10 20 30 40  
UniRef90\_UPI0002559B6A S S Q R P A P A N P A L P T E A V I L G R L Q E T E D F T L Q L R L P D Q Q W  
UniRef90\_M3INL3 L L H P D E F H K F I V A H K E Q I D D D H Y L I E L V P K D P D G  
UniRef90\_G2XJ88 R G W R K F R I L D R R Q Q E S N T V I T S F Y L R L K P A E G D R  
UniRef90\_B9JQ11 T S L S N P Y L P E M A T I L E T V Q E T P T I K T F R L R L D D E A K  
UniRef90\_B9JQ18 A T S K M C K S G P M E F G A S L A E V R Q L S D T T I G F T L E I D Q P D N  
UniRef90\_UPI0003B47C05 K W Q S A T V R S A N R V S P R I V L R L E V E G R L Q  
UniRef90\_UPI00035F6157 L G H P V E D Y R A V V S A L V D L S P T I K G V H L K L D R P  
UniRef90\_H2K2X0 R V M D V R R E T H D S A T L F I K P G W G F  
UniRef90\_UPI0003721BBA F K T M R V A R I V P E T P T I S S I Y L K T T D D G T P  
UniRef90\_K8WE30 R Q A T L L E K N Y L T P D T L Q L K L Q L E D E D G  
UniRef90\_D2AYN2 R A T V L G R L T W R V A T V A A V R D E T P T A R T I A L D V P G  
UniRef90\_E3E3M9 Y K R F L L L K K T E E S K E I T S F Y L Q P A D G Q S  
UniRef90\_UPI000479FCA3 F R P F K V A R K Q V E S D E I T S F Y L T P A D G A A  
UniRef90\_E1T7R6 A L Q I E N I V A E A Q D V V S I T L V S P T G E D  
UniRef90\_UPI00037E9500 V W R E V R V A E R V Q V S P D T I A L T V E A V I E G A L  
UniRef90\_H5UE51 W R E F V V Q K R V K E T D E I T S F Y F V P K D G K P  
UniRef90\_UPI0004412F50 A S T R I D P Q L F P A R I V A I H D E T P D I R R Y V V R Y M D E R A  
UniRef90\_B6WSQ9 W R K F K I R R I D E S D V V A S F Y L A P V D G K L  
UniRef90\_L2FZX3 N T A T S L T L I D K K Y L S P R S L E L S Y Q S D K  
UniRef90\_Q2BI42 F R N F I V A D K V K E S E L I T S F Y L K A E D G L P  
UniRef90\_UPI00037CA68F K K M P A R V S S I E H L A P D V V R V M L Q L P A A D P  
UniRef90\_D5X4U3 R T M T V K R I E H E T E D I V R I T L A D A H G R P  
UniRef90\_J3HG16 R T M T V K R I E H E T E D I V R I T L A D A H G R P  
UniRef90\_H5XJK3 K K L R I V A I T Q E T A D A K T F V V E P L E G W Q  
UniRef90\_S5T9M0 H P V V D F E A T V V N N E R L T K D H L I Q V E M R Q N  
UniRef90\_UPI000367E3B9 H P V V D F E A T V V N N E R L T K D H L I Q V E M R Q N  
UniRef90\_N0AU02 R E F K V V N K V Q E S E L I T S F Y F E P V D G L P  
UniRef90\_R5S2N4 K T F K V I E L K K E A D N V T T V T F Q S V N S E G Y  
UniRef90\_UPI0003772010 L T C L L R H E E T A D C T R F E F A S P A G I H  
UniRef90\_UPI0003813722 P V K I M P C A R V Q K M E R V A D D V I V L S L K L P V N E R  
UniRef90\_W0SBF9 K P A E I L E V N D M T S I E K L F R L K L M D E E R  
UniRef90\_B1L3Q2 A T K I T T P L L P D D Y L Q L R V I D V R R E T E D S A T L V I K P G W G F  
UniRef90\_A1UCN0 P T R V Q E M Q K L A P D V M L L K L K L P A N E R  
UniRef90\_F5RGV5 Q M T P T I W S I Y L A L E G E T S  
UniRef90\_Q7NGQ7 R A F R I V K K Q P Q S E I I S S F I L A P V D G G K  
UniRef90\_L0MLH4 T W K K A K V V S I T A V A S D F Y Q I R L L P N H F K  
UniRef90\_N9BAC5 F H P L R V A E T R R E S P T V L S I E L E S I D G E V  
UniRef90\_G8RYY1 F T L R L A Q S R M L A P S V R H L A F A R T D G Q P  
UniRef90\_T1ACF9 N G W R A A R V L E V R P E S A T A R T L V L G I A S  
UniRef90\_A6W4I2 N Q Y H P L I V S E T E N I G N Y A K K I R F V S E T G F  
UniRef90\_M2C5Q9 P V R D Y T G R V R E M I D L T P T I K G I F V E L D G N G I  
UniRef90\_G8MIT5 I D V I V D K I N V E S P S V K S F Q L K A A D G S K  
UniRef90\_UPI0003696A47 K I V S V T S E T E D S A T I R I K P G W G F  
UniRef90\_UPI0004766DF3 P R R F E A V L A G Q R D L T H D M R E L R F S L P E A V D  
UniRef90\_Y5NZL8 E G F P F K I E K I D Q L S D T K S E T V V S D K Y D L  
UniRef90\_UPI00037AB8DD F V D S Y L P H A Q I I E R V Q E S T T I F T L K T R F L D A S V  
UniRef90\_Q5X259 K Q S L V V S K I I N E S E T V K T F K L S Y P D L S P  
UniRef90\_UPI000371029A D P Y L P K E V E I I Q R T Q E S S S I F I L R E T D E D H H K  
UniRef90\_A4U463 K L P V R V I A I E R A A P D V M L L K L Q L P A S E G  
UniRef90\_G0HBZ0 D P M V P V P F R I E K V R R D L S D T F T M E M V P E A G G  
UniRef90\_C3UVE3 D V F R D A V L V A R R D L S D R V T E E T F E V P D P G A  
UniRef90\_Q46PB5 H S L A V T G V E P Q G S D A I L L S L G V A E Q Q P  
UniRef90\_F5RH93 R A A E L L A R R A L T P D M S E F T F R V P G A T E  
UniRef90\_A3K807 T V T R I E Q L T P T I K G L F V E L D R  
UniRef90\_F8NC93 L T V T E V E H Y T D R L F R F R V A R P  
UniRef90\_UPI0004627DE0 A I L L N V K E W E C T V I S N S N V S S F I K E F K V A L P P G E H  
UniRef90\_Q0HFV0 W F V A T V S E V R P E T P T A V R L V L D V P G  
UniRef90\_M7NEY9 R E F I I S E K K A E S A V I T S F V L T P T D G Q A  
UniRef90\_Q0FPQ6 W H P Q E F L A E C V E I V P E A G G M L T F L F R R V D G A P  
UniRef90\_UPI000378F07D P L M D Y R A R V A R I D T L T P T I K G V F L E I E G G D T  
UniRef90\_A9ARM9 W R T F I V R D K R P E S S V I T S F V L E P A D G Q P  
UniRef90\_U3QS72 R T V V V R E V T P A A E G V V Q L R L A A P D G K P  
UniRef90\_M1PE37 F L I P E N V F A L T V R E V F H Y T D R L F K F S L N R P E S  
UniRef90\_A0PV13 E L Q I A E V V A E T D D A R S L V F A V P D G S D  
UniRef90\_F1YMN1 E V W Q S A L V T G R E Q V S P D A V A F T L G V D G T P  
UniRef90\_Q04WN6 T D G S A T I T F V I S K N P L N  
UniRef90\_G8ML35 S T A C K T A Q S K F A T T V T K I E P H N D A V V L E L D V D A A  
UniRef90\_UPI00036B72CD H P A K I L K G T V T G L E N L T H D T K R V R V G L P K P  
UniRef90\_G8T6X0 V L V D R E T V A E G V R R V T L R M P D G S D  
UniRef90\_F8J732 K V I Q V T P E T P D A K T Y V L E E A N G K P  
UniRef90\_UPI000288936C R R V R V A E V E Q V A A R I K R F R L V D I D N A P  
UniRef90\_C4XVY2 R I V Q V R R E T E D S A T L V I K P G W G F  
UniRef90\_UPI000314F922 R D F I V Q S K N V E S E E I T S F L L A P A D G Q C  
UniRef90\_W5WCY1 L L D P Y E F H K F V I T H K H Q V D D D H F L I E I R P K F K N W  
UniRef90\_UPI0002375188 L H P E S Q F L K I K Q V I E H S A D E R S F V L E P D T E K H  
UniRef90\_Q7N215 V W R R W R V T K R Q D E A V D A V S F T F V P D D G G T  
UniRef90\_D2BU70 A E P D E V V V H A A R I K A T V A I E D T T H D I K R L L K P A K A L D  
UniRef90\_X0ZA04 R P F R I V S K Q P Q S L I T S F T L E P T D G G P  
UniRef90\_W2S8F4 T I K S I V R E N E D I K T F E F V F N N E E D  
UniRef90\_Q0S4C6 W A P V Q L I R R A Q T A I D T C H I T F R T V N E G R R  
UniRef90\_A1K6X2 D A R S L V F D V P D E R H  
UniRef90\_K9AG72 T D P E H W R D Y R V V E R F D E S D E V F S L L A P V I S G E W  
UniRef90\_D3PVM2 P T L P L R Y R I T A K T S H S P D T V S L R L S P A E E S  
UniRef90\_G8ML13 N G W R R F V I K D K R A E S S V T M S F V L E P V D G K P  
UniRef90\_UPI0003A81EA0 A T S Q A C K S G P Q A Y R G R I A S V E H L S V I S T I R F A I E P V E G  
UniRef90\_S5TFZ3 L V V A E R R H E S D G V I S L T L A H P D G G E

UniRef90\_UPI0002559B6A R L G L Q P G Q F N M L Y R F G V G E I P I S F K A L G Q D D Q G Q P V L E H T  
UniRef90\_M3INL3 K T V W N G D R F W S V E V K Q P D I N V V R S Y T P L P L Y F L Q D P E I D V V Y  
UniRef90\_G2XJ88 F L P G Q Y V S I R V R S P E Y G D V W Q C R Q Y S L S M S E V P Q R G M H Y I L S V K  
UniRef90\_S7VM1 M F T F Q Q P G Q V G Q L V Y V Q V S V P Q T E D S R A Y S F S S R L N G G R V D F L  
UniRef90\_B9JQ18 L A F L P G Q G Y V R L T A D D G Y T A S R S F V S S A P P S G D P  
UniRef90\_UPI0003B47C05 H L P G Q H Y V V R L T A D D G Y T A S R S F V S S A P P S G D P  
UniRef90\_A0A010S6B6 L P G Q S G Q Y I N L Q L P G V E G T R A F S L L A N A P P S R A P D E V E  
UniRef90\_UPI00035F6157 N F R Y Q P G Q Y I G I G V L L D G R W N W R S Y S L L T S P P H P E G K L T S I  
UniRef90\_H2K2X0 L P E A R P G Q Y L S L R L P V A D D A P E V R T Y S L S S T P E E G T Y R I S  
UniRef90\_UPI0003721BBA N L S L A F E P G Q Y I E I W L P Q T E I K R A Y S L A N A P N W D G V L E L L  
UniRef90\_K8WE30 V A S Y R P G Q Y T I Y L H D F A N Q E I R Q Y S L T T A P N G Q S Y R I A V  
UniRef90\_D2AYN2 W P G H L A G Q H V I D V R T A P D G Y S T Q R S Y S L A S A P R G D H L E L T  
UniRef90\_E3E3M9 L P P F E A G Q Y I S V R V R P G Y T H I R Q Y S L S D A F H G N V Y R I S V  
UniRef90\_UPI000479FCA3 F D F T P G Q F V S C V A E D K N G K M Q T R A Y S L A S A P H G N V Y R I S V  
UniRef90\_E1T7R6 A C G F E P G Q Y V S V T R F V S D G V D K Q P R Q Y S L S D A P H G K W L R I S  
UniRef90\_UPI00037E9500 L P Q W R A G S H L D V F L P S G K Q R Q Y S L S D A P Q D R R Y R I S  
UniRef90\_H5UE51 P G F R P G Q Y I S V Q V P L L D G A R Q I R Q Y S L T G S P A E S R W R F S V  
UniRef90\_UPI0004412F50 L P T F K P G Q Y I S V Q K F V E G H Y Q S R Q Y S L S D T P A P D H L R I S  
UniRef90\_B6WS90 E T F R L T G G F F M V T V F V G V G E V A L S I P F G D Q H D G V L E L C  
UniRef90\_L2FZX3 P L P F K P G Q Y I S L Q V P V P G I T Q P R Q Y S L S D A H T G D Y Y R I S V  
UniRef90\_Q2BI42 P L K Y L A G Q Y I S L R F P C G D G F K S R S Y S V V N N K R A D Q N E E F T  
UniRef90\_UPI00037CA68F I A S F S P G Q Y I S I T I N I E G Y S H I R Q Y S L S D A P G K D Y R I S  
UniRef90\_D5X4U3 L R Y R A G Q Y I Q F L L R D G A R R S Y S M A S A P S E S P Q V E  
UniRef90\_J3HG16 L E F R P G Q F M Q I E V P G Y G V V R S Y S P S S T A A Q L P K L E F L  
UniRef90\_H5XJK3 L P K W S P G S H V D L E I G E F S R Q Y S L C G D A D D R L G Y E I A  
UniRef90\_S5T9M0 V F Q S G Q Y A N L Y I P G L N T P R P F S M A Q S P N E K T I L E F D  
UniRef90\_UPI000367E3B9 P V Y K P G Q F L T L V F Q N H L G E Q R R S Y S L S S P V L G E A L A F T  
UniRef90\_N0AU02 G I R Y S S G F L F E F D I P E I E Q T R A Y S M A N R Y V E K P L D F H  
UniRef90\_R5S2N4 Y L P A W Q K F N M F S L K C V N P E P T V R A Y S M A N Y P A E G D V F M L T  
UniRef90\_UPI0003772010 V A D Y Q P G Q Y I Y L H P E Q S E H R C L Q R Q Y S L S D A P N G R S Y R I S V  
UniRef90\_X7I538 L P D Y E P G Q H I T V S C C P M E E I V T R A Y S P A F V H D R K T Y S I S V  
UniRef90\_UPI0003813722 I D F L P G Q F I L G G L I E N Q L K L R A Y S I A S D P A V Q D  
UniRef90\_W0S5B9 L Q F L A G Q Y I E F L K D G K R R A F S I A N A P H D D G F L Q  
UniRef90\_B1L3Q2 S F N Y M P G Q F V Q V S V Y G V G E A T I S I C A N S K T R P G P L E L L  
UniRef90\_A1UCN0 T F D Y Q P G Q Y I G I G L L I D G R W R W R S Y S L T S S P R S G G  
UniRef90\_F5RGV5 L Q F L A G Q Y I D F L K E G K R R S F S I A N A P H D D E F I E L C  
UniRef90\_Q7NGQ7 F R F L P G Q A V W P R F E R E G R I F T K I Y S I A S P A L V P E I E L C  
UniRef90\_L0MLH4 V V D F K P G Q Y L A V Y I K D E G L E H I R Q Y S L T A A P N G E Y Y R I A V  
UniRef90\_N9BAC5 A P H F K A G Q S V L V T V P Q D G V M H Q R S Y S V M Q I D A N G V I Q L G  
UniRef90\_G8RYY1 L P T P R P G Q H L T V R V P A G D P A P L R S Y S I S R G G A T R Y R I S V  
UniRef90\_T1ACF9 F A F T P G Q F L Q I H F A Y A D G K P T K R S Y S V A T V A A R D G A A V E L  
UniRef90\_A6W4I2 W P G H L A G Q H L D V R T A P D G Y R A V R S Y S I A S A A L G P G P A E V E  
UniRef90\_M2C5Q9 L P I F E A G Q Y I N L F V A Q I E G V R T S R P Y S L S S S P K E R S Y F E I I  
UniRef90\_G8MIT5 E F Q A G Q Y V N V H I P G E D M P R A F S L S A D Q P A S R N V I E L N  
UniRef90\_UPI000369A47 L P H F S G G S H I T G R V Q S E K E L L E R H Y S L T N D I D Q D E Y Y S K I A  
UniRef90\_G7GQJ1 S F D Y T A G Q Y V I G V L V D G R W T W R S Y S L T S V P D I S Q T I A  
UniRef90\_UPI0004766DF3 F L P G Q Y A L L Q L P G V D G P R A Y S M S N I A R D G A T W H F Q  
UniRef90\_Y5NZL8 S Q F T P G E Y I T V V S E K M P Y R A K R H Y S I V S G D N N H L T F A  
UniRef90\_W0BHX5 C F A F H P G Q F S M L Y L P V G V E I P I S I A S D P E E K S Y L S H T  
UniRef90\_UPI00037AB8DD V P S V T A G A H L Y C Y L G N G L T R Q Y S L I N G E Q Q T D A Y Y I S  
UniRef90\_Q5X259 Q F Q F Y P G Q F N M L Y L Y G V G E V A I R R S Y S M A N A P H A A K F L E  
UniRef90\_UPI000371029A F R Y Y A G Q Y V E V L M K N G D R R S Y S M A N A P H A A K F L E  
UniRef90\_A4U463 D F T F R P G Q F N M L Y V F G V G E V P I S I S G D P A D R S V L V H T  
UniRef90\_G0HBZ0 F T A T K A G Q Y T S L V T M G D G A R Q L R Q Y S L V N W D D K G F T I A V  
UniRef90\_C3UVE3 H F G F R P G Q Y L T L A V E V Q G D E H W R C Y S L T S E P  
UniRef90\_Q46PB5 F R P G Q Y A L L Y P P R A P G A R A Y S M A N L P N E E G I W K F V  
UniRef90\_F5RH93 P L D F A G Q Y I N L G I G A E P G M S R A F S L A N A P S N G N E V E  
UniRef90\_A3K807 T F R F R S G E F V M I G L P N A D R P V M R A Y S I A S P A W D T L E F Y S  
UniRef90\_F8NC93 M D F P Q K F N I F S L K A H N P E P T I R A Y S M A N Y P A E G D I M L T  
UniRef90\_UPI0004627DE0 W P G S E A G S H L D L R T A P D G Y Q A T R S Y S I A S S E T  
UniRef90\_Q0HFV0 V K D F T P G Q Y I S L K R Q H P K F D E I R Q Y S L S D A P N G R T Y R I S V  
UniRef90\_M7NEY9 L A F R P G Q Y I S F P V N G E D Q D P A D R S Y S L S S S P T K P W T F D V T  
UniRef90\_Q0FPQ6 F K Y E P G Q F L T L E L P V P G G P L Y R T Y S I S S S P S R P L S L S I T  
UniRef90\_UPI000378F07D L P Y Q P G Q Y V N L W L A G E A P R A F S I A S A P S  
UniRef90\_A9ARM9 V A N F E P G Q Y V S V A V D V P G L Q Q I R Q Y S L S D M P N G R T Y R I S V  
UniRef90\_U3QS72 L P R W A P G S H I D V E C G D T G L S R Q Y S L C G D P E D A G A L E I A  
UniRef90\_M1PE37 F R F R S G E F V M I G L P N A E K P I Y R A Y S I A S P F W D E R L E F I S  
UniRef90\_A0PV13 D P R I P P E R L R Y A P G Q F L T L R V P R C Y S L C S S P F T D D A L T V T  
UniRef90\_F1YMN1 L G A F V P G Q Y I S V Q P M A D G A N Q I R Q Y S L T G A T S D P A W H V S V  
UniRef90\_Q04WN6 F L G G Q Y V I F N S G L K T P E G K V I K R A Y S I L F S D L Q Q E E F Q L C  
UniRef90\_G8ML35 T T A P V F L P G Q Y V N I D V P G S G Q H R S Y S F S S A P G E  
UniRef90\_A0A022GXM6 L D F S P G Q Y A T L Q F T P R H I R P Y S M A V A H G A D E L E F  
UniRef90\_UPI00036B72CD F P Q W E P G S H I D L L P H H M R Q Y S L C S P L A D R S R I Q V S  
UniRef90\_G8T6X0 V T W D A G Q S L T F L F S H L G H E I R R S Y S L C T T Q G I D K H I A I T  
UniRef90\_F8J732 L S E F S G G S H I S V V M H S G D R M M R N P Y S L M G S P F D  
UniRef90\_A0A024JVJ2 S F D F E P G Q Y I G I G L R I N G R W R W R S Y S L T S S P V A R S G S G P  
UniRef90\_UPI000288936C V L D F A P G Q Y I G V L V T V D G V A M R R Q Y S L S A A S N G R T Y R I S I  
UniRef90\_C4XVY2 Q Y S Y A H Y I L W S V E I K Q P Q N I M V S R S Y T P L S E R T R S G E K D P V  
UniRef90\_UPI000314F922 L A Y F R A G Q Y I S V E R I K I G N S V V T R P Y A I R S A P A D A  
UniRef90\_W5WCY1 V P D F L P G Q Y I S L A V D L P G G R R Q I R Q Y S L S Q G P G R G A L R V T  
UniRef90\_UPI0002375188 F S P G Q Y A Q L Q F T P T H A R P Y S M A G T T S D E T L E F H L  
UniRef90\_Q7N215 V M D Y K P G Q Y I Y L Q D D S F A N R E I R Q Y S L T A A P N G S S Y R  
UniRef90\_D2BU70 I A A F R P G Q Y V Y I R D K R F E Y Q E I R Q Y S L T T E P N G R Y Y R I A V  
UniRef90\_X0ZA04 Y F D Y V A G Q F A E L S V F G V G E C P I G I A S S P T E I G S I K F T  
UniRef90\_W2S8F4 Q L T V P A G Q H I Q L R A Q I G R L Q V T R S Y T P V I S T Q A D A S G Y T T L  
UniRef90\_Q0S4C6 E F A Y K P G Q F L T L R T P S D R T S V A R C Y S L A S S P F T D D L P K V T  
UniRef90\_A1K6X2 L A C R P G Q F I Q V E V P G A G V L R S Y S P V I S T E A D L P R L D L L  
UniRef90\_K9AG72 P S H R T G Q Y V A L L V E L P D G S T Q P R Q Y T I S S G P R G D S L R V T  
UniRef90\_D3PVM2 L P V F A A G Q F A M L Y A F G I G E I P I S S V I S D G C D G G D L T H T  
UniRef90\_G8ML13 V M N F E P G Q F V S V A V D V P K L Q Q L R Q Y S L S D M P N G H S Y R I S V  
UniRef90\_UPI0003A81EA0 A P G F L P G Q Y V V A V D V P G T E L T R S Y S F S S A P G A G Q A Q F V V  
UniRef90\_S5TFZ3 L P K W K P G A H L D L H I P T D G A E L I R Q Y S L S G N P D D R S T Y R V G

UniRef90\_UPI0002559B6A L R A V 90 G R V S R A L A A L K P G E R I 100 G L R G P F G Q 120  
UniRef90\_M3INL3 D K N G R M C L Y V K R Y K D G E V S R Y I T D R K V G D E I L E L R G P K Y K F  
UniRef90\_G2XJ88 R E R A A E D A G A T S A D H G E V S N I L H K F Q V G D E I E I T Y R P R G E F F  
UniRef90\_S7VIM1 V M R S G E V T T R L H G L V A G D K V I G V R R A P L S G H F F  
UniRef90\_B9JQ18 V R N I P G G L M S G Y L S R A M P G D R V L T G I V R R G P S G A F F  
UniRef90\_UPI0003B47C05 L V E L C I E R L D D D G G R V S G Y L Y E V E P G D R V L E V S R G P I G G F F  
UniRef90\_A0A010S6B6 L H V R R V D D G G R V S S K I H D L K V G D A V E L S S G P I G Q F F  
UniRef90\_UPI00035F6157 T V K A M P E G Q L S S H L V N G V P E G T I V R L A S A P K G N F F  
UniRef90\_H2K2X0 V K H E P H G K V S S Y I H T L R P G D L L T G V A S P R G T F F  
UniRef90\_UPI0003721BBA I K L R S H H G Q F A Q Y I E Q A Q V G D V L T G L A Q G A S G N F F  
UniRef90\_K8WE30 K R E D G G L V S Q H I H K L N E G D L V H L A P P G D F F  
UniRef90\_D2AYN2 V E S L P D G E V S P Y L T R L S A G D P L E L S A G P I G G F F  
UniRef90\_E3E3M9 K K D G V V S T Y L H Q L E E G D S I E V S R A P A G D F F  
UniRef90\_UPI000479FCA3 R A N A F D L C V N R V E G G F F S N L L C D L E E P G Q T V Q F H G P H G L F F  
UniRef90\_E1T7R6 V K R E D G R E D A A P G H V S N L L H A V E E G T V V H V I S A P M G D F F  
UniRef90\_UPI00037E9500 V R F I R D G G G G S R E I H S L S V G D T V R I R G S P R N G A F F  
UniRef90\_H5UE51 K L A G E V S A H L H E V F E G D L R D V S T P F G D L F F  
UniRef90\_UPI0004412F50 V K R E S G I D T T A A A H P G W I S N L L H T V K E G D V V L L A F P Y G E F F  
UniRef90\_B6WS90 V K K V G K V T S A L A K L G V G D V I G L R G P Y G K F F  
UniRef90\_L2FZX3 K R E A T V I D G S A E D K G G L I S N I L H E Y Q V G D E V E L S H P Q G E F F  
UniRef90\_Q2BI42 L S F V I T L V E G G A S E Y F R S A K P G S E I E A S G P A G N L F F  
UniRef90\_UPI00037CA68F V K R E Q E N D K P D G K I S N H L H K V Q P G D I L P L S A P A G D F F  
UniRef90\_D5X4U3 L H L R H M P G G K F T D H F T A M K E K E I Q R I L E G P F G S F F  
UniRef90\_J3HG16 V R L L P G G A M S G Y L E E K A T N D V L T L S G P Y G A F F  
UniRef90\_H5XJK3 V L H D P D R G G S R Y V H E L S V G D T V R V R G P R N H F F  
UniRef90\_S5T9M0 V A L T I P G G E G T T W I H N M Q V G D T L R L S A P Y G H F F  
UniRef90\_UPI000367E3B9 V K K I D N G E F S R Y L Y K A R T G D L L K T S G P S G F F  
UniRef90\_N0AU02 V K R I E N G A G S N Y M C D L Q P G A T V T G S G P Y G K M F  
UniRef90\_R5S2N4 V R I A T P P F K P M D V N P G I A S S Y T F L K P G D K V T M S G P Y G D F F  
UniRef90\_UPI0003772010 K R E G K G E T Q G M L S H H L H N V H I N D L V E L C P P G G D F F  
UniRef90\_X7I538 R H Q K A T D E K G E Y E G I M S S Y I N T H L Q I G K D V E L T P P G G N F  
UniRef90\_UPI0003813722 R V S V A T R R V P G Q V S N W L D H V Q P G S Q V P A L S P A G S F F  
UniRef90\_W0S5BF9 L H V R L I A G E F E T H F F G G M K E K D T L R F Q G P Y G N F F  
UniRef90\_B1L3Q2 V R R V G R V T N A L H R L K E G D V L R I R G P F G S W F  
UniRef90\_A1UCN0 R T I T I T V K A M P E G F L S T H L V G G V A P G T I V R L A A P Q G N F F  
UniRef90\_F5RGV5 T L H I R E V P G G H F T G H F N S M K E R D L L R F E G P H G S F F  
UniRef90\_Q7NGQ7 I S R V G W A S N F M C R L K P G D T I E L R G P Y G M M F  
UniRef90\_L0MLH4 K R E D R G L V S N Y L H K A Q E G D V I D I A P P H G D F F  
UniRef90\_N9BAC5 V K V Q G R V S R A F S Q L A V G D I I E I S Q P Q G G F F  
UniRef90\_G8RY01 K R E E Q G L V S S W I H N V H T G T V I E A A A P R G D F F  
UniRef90\_T1ACF9 I E I A V S Y V P G G A A S A L F T H L E E G G T V E A S G P T G A F F  
UniRef90\_A6W4I2 I G V E L L P D G E V S S F L T G E V R A G D V L E A V T G P L G G F F  
UniRef90\_M2C5Q9 V A R Q E K G F V S D Y L D N I K A G D R F E A N G P A G V F F  
UniRef90\_G8MIT5 V R R V P G G K G T G Y L H E I R S G D E I R F S G P Y G R F F  
UniRef90\_UPI000369A47 D R I I S I T V G R N T H S K G G S V Y W H D N I K E G D Q L E I S Y P K N H F F  
UniRef90\_G7GQJ1 I R R V P G G G F L S T H L V N G L E P G A I V R L A A P K G E F F  
UniRef90\_UPI0004766DF3 I R R V P G Q G G A A I F D R M K V G D R L T I D G P Y G F F  
UniRef90\_Y5NZL8 V K R D V S T D H E G E V S T I L H E L K E G N D I N L S A P V G P F F  
UniRef90\_W0BHX5 I R A V G R V T N A M Q R L K T G D L I G I R G P Y G R F F  
UniRef90\_UPI00037AB8DD V L K D A D S R G G S A W M H N L K V G D S L L V S G P K N Q F F  
UniRef90\_Q5X259 L R A V G R V T K A M Q K L Q V G D R L G I R G P F F G F F  
UniRef90\_UPI000371029A L H I R H T P G K F T D H V F Q M K E R E I R L E G P F G S F F  
UniRef90\_A4U463 T R A V G T V T E A L D A L K P G D V L G V R G P F G F F  
UniRef90\_G0HBZ0 Q R D G E V S T L D S T A V G D R V D A T L P A G D L F F  
UniRef90\_C3UVE3 V V I G Q P I S V L V R R V A G G R V S N W L D H A Q P L G R L K V L P A G H F F  
UniRef90\_Q46PB5 I R R V P G G A G S N A L D Q V G I G D S V V L D G P Y G H F F  
UniRef90\_F5RH93 L N I R I V P G G R G T T W I H S L K A G D R V K L S G P Y G R F F  
UniRef90\_A3K807 I K V P D G P L T E H L Q N I R V G D T V L M R K T G T L F F  
UniRef90\_F8NC93 V R I A T T P F K P Q D V P T G V G S S Y I F S L K P G D K V R M S G P Y G D F F  
UniRef90\_UPI0004627DE0 K G T I V L J A V D E L P T D G E V S P F L R E L R V G D Q L E V H G P L G S F F  
UniRef90\_Q0HFV0 K R D P K G L V S Q W V H N V G P G T V L S V M P A G D F F  
UniRef90\_M7NEY9 V K A Q P G S I G T R W L E K L M P G M R V K A I G P A G Q F F  
UniRef90\_UPI000378F07D S N E I E L N I R L V P G G K V T S Y V H E L A V G D N V M L S G P Q G R F F  
UniRef90\_A9ARM9 K R E G G G P Y P G H V S C L L H H V N V G D E M R L A A P Y G C F F  
UniRef90\_U3QS72 V L R D P D S R G G S A W V H S V S V G D R L R I R G P R N H F F  
UniRef90\_Q0FPQ6 I K V P G P L T Q H L Q K I K I G D T V L M R  
UniRef90\_M1PE37 V K R T A D G Y A S N W L D N A H Q G M R I H V L A P S G N F F  
UniRef90\_A0PV13 K C D G E V S T H L H V F E G D V I R V S T P F G D L F F  
UniRef90\_F1YMN1 T K I S F I Q P I Q G P A S N H I P N L A I G D S V I E F S G P W G K F F  
UniRef90\_Q04WN6 T K I S F I Q P I Q G P A S N H I P N L A I G D S V I E F S G P W G K F F  
UniRef90\_G8ML35 H I R L V P D G R V T S Y V A S L K V G D A I R V S G P L G F F  
UniRef90\_A0A022GXM6 V L R T R D S R G G S A Y V H S L A E G D T V H I N S G P R N F F  
UniRef90\_UPI00036B72CD V K K K E N G E V S R H L R T W Q P G T L V N S L P A G R F F  
UniRef90\_G8T6X0 T S S Y Q I S V L N C G A D S R G G S K F M H N V S V G T E L E I S E P L N L F F  
UniRef90\_F8J732 E R T V T I T V K A M P E G F L S H L V A G V E P G T I V R L A A P Q G N F F  
UniRef90\_A0A024JVJ2 K R E H G G K V S N F F H H V Q V G A T V Q L T P P T G N F F  
UniRef90\_UPI000288936C L R V T D M T F Y I K R Y E D G E V S R Y I V N K E V G D E I D V R G P H V F F  
UniRef90\_C4XVY2 L K D Q Y I I T I K R V K N G F V T S F I F D N K A V G T P I E A S A P A G N L F F  
UniRef90\_UPI000314F922 V R R V R G T G N A P S G A V S T W L H E R V D N D D V V L L G P  
UniRef90\_W5WCY1 R L I P Q G R V T A Y V A N L R V G D S V R V S G P L G F F  
UniRef90\_UPI0002375188 I A I K R E P Q G L V S N H M H K M Q E G D T V E L T A P R G D F F  
UniRef90\_Q7N215 K R E A M G S V S G Y L H E I R E G D V I E L A A P H G D F F  
UniRef90\_D2BU70 V K K A G E V T T A L H N L E V G D T V E L R G P V L G N F F  
UniRef90\_X0ZA04 T L A V R V Y P D G K M G R L S E L P L N T I E C R G P V G S F F  
UniRef90\_W2S8F4 I K R V A G G Y G S H W L D N V G V G D R I E V L P P A G V F F  
UniRef90\_Q0S4C6 I R L L P Q G A M T S W L T C A K V D D V V R I T G P Y G A F F  
UniRef90\_A1K6X2 I K R V R G V G G A P D G V V S G W L D N A E P G T V V K L S Q P A G D V F F  
UniRef90\_K9AG72 I R A V G K V S Q A L H D A A V G S I V A V R S P F G R F F  
UniRef90\_D3PVM2 K R E E G D A T R P P G Y V S S L L H H V G V G D E I A L A A P F G T F F  
UniRef90\_G8ML13 R N V P G R V S G Y L A E A K A G D E I G F A G P F G S F F  
UniRef90\_UPI0003A81EA0 V L R E V D G R G G S I A A H E I R E G D A I T V S W P R N N F F  
UniRef90\_S5TFZ3

UniRef90\_UPI0002559B6A  
UniRef90\_M3INL3 P Y H P  
UniRef90\_G2XJ88  
UniRef90\_S7VIM1 P Y E  
UniRef90\_B9JQ18  
UniRef90\_UPI0003B47C05  W  
UniRef90\_A0A010S6B6  
UniRef90\_UPI00035F6157  
UniRef90\_H2K2X0  L Q  
UniRef90\_UPI0003721BBA T  L Q D R  
UniRef90\_K8WE30  
UniRef90\_D2AYN2  W R P  
UniRef90\_E3E3M9   
UniRef90\_UPI000479FCA3 T  
UniRef90\_E1T7R6 T  E  
UniRef90\_UPI00037E9500 Q  
UniRef90\_H5UE51   
UniRef90\_UPI0004412F50   
UniRef90\_B6WS90 P Y R  
UniRef90\_L2FZX3  
UniRef90\_Q2BI42   
UniRef90\_UPI00037CA68F   
UniRef90\_D5X4U3  
UniRef90\_J3HG16  
UniRef90\_H5XJK3 K  
UniRef90\_S5T9M0  
UniRef90\_UPI000367E3B9   
UniRef90\_N0AU02 Q  
UniRef90\_R5S2N4 H  
UniRef90\_UPI0003772010 Y  L N P R  
UniRef90\_X7I538  
UniRef90\_UPI0003813722 H  
UniRef90\_W0SBF9  
UniRef90\_B1L3Q2  
UniRef90\_A1UCN0   
UniRef90\_F5RGV5  
UniRef90\_Q7NGQ7 T  E  
UniRef90\_L0MLH4  
UniRef90\_N9BAC5 Y  L E P K  
UniRef90\_G8RYY1 Y  L G  
UniRef90\_T1ACF9  
UniRef90\_A6W4I2  W R P  
UniRef90\_M2C5Q9 H F N P  
UniRef90\_G8MIT5  
UniRef90\_UPI0003696A47  
UniRef90\_G7GQJ1   
UniRef90\_UPI0004766DF3  
UniRef90\_Y5NZL8  
UniRef90\_W0BHX5  
UniRef90\_UPI00037AB8DD  
UniRef90\_Q5X259  
UniRef90\_UPI000371029A  
UniRef90\_A4U463  
UniRef90\_G0HBZ0   
UniRef90\_C3UVE3 T  
UniRef90\_Q46PB5  
UniRef90\_F5RH93  
UniRef90\_A3K807   
UniRef90\_F8NC93 H  
UniRef90\_UPI0004627DE0  
UniRef90\_Q0HFV0  
UniRef90\_M7NEY9 H  
UniRef90\_Q0FPQ6 T  
UniRef90\_UPI000378F07D  
UniRef90\_A9ARM9 H  
UniRef90\_U3QS72 R F  
UniRef90\_M1PE37  
UniRef90\_A0PV13   
UniRef90\_F1YMN1 T  
UniRef90\_Q04WN6   
UniRef90\_G8ML35  
UniRef90\_A0A022GXM6  
UniRef90\_UPI00036B72CD P Y  
UniRef90\_G8T6X0   
UniRef90\_F8J732  
UniRef90\_A0A024JVJ2   
UniRef90\_UPI000288936C   
UniRef90\_C4XVY2 E Y K  
UniRef90\_UPI000314F922 Y F E P  
UniRef90\_W5WCY1  
UniRef90\_UPI0002375188  
UniRef90\_Q7N215  
UniRef90\_D2BU70  
UniRef90\_X0ZA04  
UniRef90\_W2S8F4 K  
UniRef90\_Q0S4C6 T  
UniRef90\_A1K6X2  
UniRef90\_K9AG72   
UniRef90\_D3PVM2  
UniRef90\_G8ML13  
UniRef90\_UPI0003A81EA0  
UniRef90\_S5TFZ3 R F



UniRef90\_A4ESG1  
UniRef90\_UPI00035CAD24  
UniRef90\_UPI0002558F29  
UniRef90\_A1UJZ98  
UniRef90\_UPI0002DB6308  
UniRef90\_N1VWT6  
UniRef90\_UPI00047D8B3D  
UniRef90\_Q13LJ8  
UniRef90\_R1EDB4  
UniRef90\_F3ZU85  
UniRef90\_A0A059FPC2  
UniRef90\_Q9RAL1  
UniRef90\_A0A016PRR8  
UniRef90\_A0R525  
UniRef90\_Q6BIR8  
UniRef90\_E4TAS8  
UniRef90\_R5G6R5  
UniRef90\_U2DV31  
UniRef90\_A0A014PA09  
UniRef90\_UPI0004030D25  
UniRef90\_F8GFD7  
UniRef90\_E9UNZ6  
UniRef90\_V5UF55  
UniRef90\_W7CH26  
UniRef90\_G4NDV3  
UniRef90\_G2J3C4  
UniRef90\_M1NUP9  
UniRef90\_F9RCN7  
UniRef90\_UPI0003A24C0C  
UniRef90\_W9A3Q7  
UniRef90\_M1YXD3  
UniRef90\_Q1QCV6  
UniRef90\_C4GDA7  
UniRef90\_W9CHZ0  
UniRef90\_D5URF0  
UniRef90\_F0P1G2  
UniRef90\_M3G126  
UniRef90\_M3D9H8  
UniRef90\_Q76KR4  
UniRef90\_J9S6I5  
UniRef90\_U2P8Q6  
UniRef90\_UPI00047AE5B4  
UniRef90\_D3VIU1  
UniRef90\_F4CMB2  
UniRef90\_C5CEV8  
UniRef90\_Q12CA0  
UniRef90\_V5RWI6  
UniRef90\_F5Z178  
UniRef90\_W8B308  
UniRef90\_D1KDH7  
UniRef90\_U5D8S5  
UniRef90\_Q84AQ0  
UniRef90\_V8GA83  
UniRef90\_UPI00036D9B47  
UniRef90\_F1Z4E1  
UniRef90\_W0DEZ5  
UniRef90\_UPI0003FB319D  
UniRef90\_G8SE21  
UniRef90\_Q3C2D2  
UniRef90\_R4X3Z1  
UniRef90\_H1SIQ4  
UniRef90\_Q29GQ2  
UniRef90\_A6SYL6  
UniRef90\_E1VYE7  
UniRef90\_U2SF85  
UniRef90\_UPI000373A545  
UniRef90\_V4YPA7  
UniRef90\_Q5AX11  
UniRef90\_W0QN87  
UniRef90\_J4Y6B7  
UniRef90\_A4FQN9  
UniRef90\_Q11TL8  
UniRef90\_U6BCV3  
UniRef90\_A0A024TY32  
UniRef90\_MOQM64  
UniRef90\_I3YGZ8  
UniRef90\_UPI00037534F5  
UniRef90\_A1KBA6  
UniRef90\_V5XT8  
UniRef90\_UPI00025583CA  
UniRef90\_X5E1N8  
UniRef90\_UPI00036FE874  
UniRef90\_V6S2C5  
UniRef90\_UPI000317617C  
UniRef90\_F0KIB2  
UniRef90\_K9HQS0  
UniRef90\_I0G7L1  
UniRef90\_N6YI82  
UniRef90\_UPI0003759304  
UniRef90\_D4LY01  
UniRef90\_L8F4D9  
UniRef90\_E5XRI1

1 10 20 30 40

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

UniRef90\_A4ESG1 FFDYQPGQFLLTLEIPQPGGVVHRTYTILSSSPSRPSITLT80  
UniRef90\_UPI00035CAD24 LPAWLPGQYLVTRVVPQLGLMQSPRQYSSLSSAPGGSTL  
UniRef90\_UPI0002558F29 VLRAMHFLPGQYVNVVQVDTGTQSSRAYSSFMVNEA  
UniRef90\_A1UZ98 LPRWSAGAGHIDVECGQDTPGSSRQYSSLCGDPAERKGVYEIA  
UniRef90\_UPI0002DB6308 FRYYAGQYIEFILLKDGSSRRQYSSMAAPNEERKNLVELIH  
UniRef90\_N1VWT6 WKGFSAAGQHIPVIVLADGRWVTRFYSSLSTPGEKYLSIT  
UniRef90\_UPI00047D8B3D SFDYQSAGQYIGIVGLMDPDSRWTWRYSLLTSPAVS  
UniRef90\_Q13LJ8 LGLFPGQYVNVVDIPDSDTFRSYSSSSAPGAAQAQAFVV  
UniRef90\_R1EDB4 GDDPSLPTCKLKVLPHEGTEDEAGRAYSPLVSHPATEGSVLDLV  
UniRef90\_F3ZU85 MDFDWDKFKMWDLNCNKNDTEITRAYSMANYPAEGDVIITLN  
UniRef90\_A0A059FPC2 FRFRRTGEFVMIGLPREDDGKPIILRAYSLIASPAWDDLEFYS  
UniRef90\_Q9RAL1 TIKFDFDSGQFDFDLLEIPGTTLITRYSPLANTSNKTDLEFL  
UniRef90\_A0A016PRR8 KSDSAFEQFPFVRRFGPDGSLSRAYSVVISG  
UniRef90\_A0R525 LRYSPGQFLTLTRVPSDRDTGSVVARCYSSLSSSPTTTDDRRTVT  
UniRef90\_Q6BIR8 WQYWNQDKKLVSWVDVKKQPDILMVVRAYTPPLSEYNTRSRSDRKP  
UniRef90\_E4TAS8 SKIKKHFSAAGNIEFRVSDTQFRHAYTPSYFNQEKGVCEVL  
UniRef90\_R5G6R5 FKA EWDFKFNMWGLTGKNTTEETVTRAYS MANYPAEGNLTILN  
UniRef90\_U2DV31 YLPARWEKFGFLGLCKVYVTEETVTRAYS MANYPAEGDRIMLT  
UniRef90\_A0A014PA09 LPEARPGQYLSIRLAVGDAPAVRSYSSLSAPTAGA YRISV  
UniRef90\_UPI0004030D25 EFRFRPGQALTLRRLREGELDERRSYSSLCGPAAGSAPRI  
UniRef90\_F8GFD7 LQFLAGQYIDILTKDGGKRRRSYSSLANAAPDDHDFLEFLQ  
UniRef90\_E9UNZ6 NGLFLPGQHYVDVRLTA PDGYQAVRYSLLAAPADDGVILEIT  
UniRef90\_V5UF55 LPDYLPAAQHITVTRVKIPGHPLTRAYSLTGPDPVERGYRTIAV  
UniRef90\_W7CH26 LVJAYEPGQYLSLRILKELKELFHNRQYSSLEKAFYDGESYQVVA  
UniRef90\_G4NDV3 PLPFRFLPGQYQLRFLVPELGLYLRQYSSLESGYRKGESYVAHY  
UniRef90\_G2J3C4 LSLFLPGQYVNVVGTIPGTLELTRAYS FSSAPGASSEAFVV  
UniRef90\_M1NUP9 LNYLPGQY YMNLSVPGWDDHRSYSSFSPPSE  
UniRef90\_F9RCN7 KFDYLPGQYVLDLSFKGVKRSYSSLANAKSELEKELE  
UniRef90\_UPI0003A24C0C WQGFKAAGQFVKLSVIEDGILRRTRCYSSPANSQF  
UniRef90\_W9A3Q7 VADYKPGQYLYINADLEHEHQEQRYSSLSSTPNSTNYRSLSV  
UniRef90\_M1YXD3 RFAFKPGQYFNLYNADFVGVGEVPISSSGNDPQKPDTL  
UniRef90\_Q1QCV6 VNNQTIDQYITVKTDPAESHEHIRHYSLYSANSDDQGIQFAV  
UniRef90\_C4GDA7 WRAGQYAWLWQLQDYVPEGEKEDRVFTILASAMEDFLMFST  
UniRef90\_W9CHZ0 YA VYENGLWSVEFKYPLQLIARSYTPLPDEN  
UniRef90\_D5URF0 FTGFEAGQFIQVSVVTDGVRRQTRCFSPAGSALWPGDLEFT  
UniRef90\_F0P1G2 EAYS YQAGQYLTLEVMGERRDYSSLCSPPKNHEW  
UniRef90\_M3G126 LPARAGQFQYWRFPGHNHWLANSFSLSTAPRSGRYRISV  
UniRef90\_M3D9H8 LPEYLPGQYISLMTPHFGYMQSRQYSSLSDAPRSGRYRISV  
UniRef90\_Q76KR4 QFCFRPGQYLTLLAVISVQDEDELWRCSITSEPVQGPQISV  
UniRef90\_J9S615 MGEYTPGAGHIDVVGSP TAILTRQYSSLCRSRDPGRESFVA  
UniRef90\_U2P8Q6 MDFIPLYAQIKIIPAYDCIDYDTRVTRAYS MANYPAEGDITILT  
UniRef90\_UPI00047AE5B4 YSFLPGQATEVAVLNKKGWEQKTRPFTFTCLPSDKEYLEFL  
UniRef90\_D3VIU1 LPAFTGGSHIFVQMQDGDKRYSNAYSLSSPFDKHSYQIFA  
UniRef90\_F4CMB2 FNPGQYVQLSTPAGGETRPHYSLAVAPADATTIELH  
UniRef90\_C5CEV8 FEFKTKGQFVTEVQVPGGLIGEARRNYSSSPSQYAKNPIEVI  
UniRef90\_Q12CA0 LPAFTAGSHLTVQVLPNGARRNYSSSPADTGPYQI  
UniRef90\_V5RWI6 WQPGQYVHYTLPHDNADD RGD ERWFTISSAPFEGDITWIT  
UniRef90\_F5Z178 HFDYTAGQYIGIIGLTVDRGRWRYSLLTSSP  
UniRef90\_W8B308 WPGHRPGQHLDVRLTAPDGGYHAERSYSSLAAPADGDHIEIT  
UniRef90\_D1KDH7 SLQYLAGQYIDLHPDFDPDRPTLRTYSSLSDYAPTAGAGDER  
UniRef90\_U5D8S5 LPDFKPGQFLTKLSLIPDRPTLRTYSSLSDYAPTAGAGDER  
UniRef90\_Q84AQ0 MTFAQAGQYINIELEPGVGEGARAFSLANPPSKADEVE  
UniRef90\_V8GA83 FRYEAGQYVEFILLKDGSSRRAYSLLATR PQEGAALE  
UniRef90\_UPI00036D9B47 LPPWSPGAHVLDLJAPGSLERQYSSLCGDQDQPDQWQVA  
UniRef90\_F1Z4E1 VSAASPDDHILKLVFFTDASGETVMRDFTPRRFDTV  
UniRef90\_W0DEZ5 LQFLAGQYIDILKGGERRSYSSLANAAPHDDDAHL  
UniRef90\_UPI0003FB319D FRFRSAGEFVMIGLPNAERP VFRAYSVAWDDDELEFFS  
UniRef90\_G8SE21 PLLEYRAGQYLSVEASPYQPRRLWRAYS PANAPRRDNTLEFH  
UniRef90\_Q3C2D2 APVFLPGQYVNVIEVPGSGQHRAYS FSSAPGD  
UniRef90\_R4X3Z1 APVFLPGQYVNIIDVPESGLHRSYSSLSAPGES  
UniRef90\_H1SIQ4 LRFAGAAGQYLDLDFLENGVRRSYSSLATPPAAAGLIALE  
UniRef90\_Q29GQ2 VLDLPPGHVMLRIGSLLRPYSYWTDFASKEFKILL  
UniRef90\_A6SLY6 LPAFTPGSHIDVHIGELLRQYSSLCNGPDEPDRYLIA  
UniRef90\_E1VYE7 EYDYVAGQYVVALRKEIPNVLELRRYSLLCAAPTGD  
UniRef90\_U2SF85 AHFEPEGHEVEFRVVGPTAFRHYTPTHVVDVATGALVV  
UniRef90\_UPI000373A545 GNAAEFEPEGQFVELEVEPEQGITKRAYSSLSNTGNWEGRLLEFL  
UniRef90\_V4YPA7 AAYRFVVGQVTLRFLFALNGQDVRAYSLLCOSTPDFE  
UniRef90\_Q5AX11 LPSFLPGQYVSIQVQVPHQAQCRRQYSSLDQPKPTYRISV  
UniRef90\_W0QN87 FYYPYQAGQYALVSLIKNTPHITRAYSSLSSTPGE SRFVSIIT  
UniRef90\_J4Y6B7 LDFFVPGQYMNVLPLDNGETRFSMASASA  
UniRef90\_A4FQN9 PVPYVPGQYVSVVVEVQRPRRLWRYLTPANAPREDDGTMEF  
UniRef90\_Q11TL8 LAYLPGQYVRIIFIGMDKKREKRTYSSITWNYHSGNG  
UniRef90\_U6BCV3 PARYRAGQYITVRILQDKDGLVHNRQYSSLITASNTEYTGIV  
UniRef90\_A0A024TY32 MAFLPILLAGHHC SVRVNGVTRSYTPVPGDVAVDLSAI  
UniRef90\_MOQM64 VPTWTPGAHYVDLVLGADVVRQYSSLCGDVDDDRSGLRVA  
UniRef90\_I3YGZ8 LPLRYRPGQYLTFLKLDVLPDQVVRCSYSSLSDRPADMYRVS  
UniRef90\_UPI00037534F5 DVPLYRPGQFLTVRVCGEFGALARCYSLSAPGVDDRILQIT  
UniRef90\_A1KBA6 FQFRAAGQYIDLALADGQRRRSYSSLANAPEGADHYE  
UniRef90\_V5TXT8 VADYLPGGQYTA VVIK PQEHQEIRQYSSLTRKPNKGSYRIA  
UniRef90\_UPI00025583CA FKQEWDFKGLWPLV MKNDETEIRAYS MASYPAEGREIMLN  
UniRef90\_X5E1N8 EYREPEWKFGMFDLV MKNPEPTFRAYS SMANVRPAEGNIVML  
UniRef90\_UPI00036FE874 LGSFA PGQFAMLYAFGVGEVPLVSVSRIPGERRIT  
UniRef90\_V6S2C5 FLPQA T DVS LNIPGWEKKLRPFTFTCLR EQNYLEFM  
UniRef90\_UPI000317617C FEKAGQYADITIPGTEDEHRSFSMA TTPATTD R VQFL  
UniRef90\_F0KIB2 DTHFLAGQYVNVAVIPETGETRYS FSSKPNRNLTG VV  
UniRef90\_K9HQS0 PLGFRPGQFNMLYVFGVGEVPISSISGDPAVPEVL  
UniRef90\_I0G7L1 LPAYRPGQHVLNLNPGVNIIRAYSLLTG HGG  
UniRef90\_N6YI82 GLRFQAAGQYINLELPGALIGSRAFSIASVP SQCDEVE  
UniRef90\_UPI0003759304 MKNFTFHPGQVGLS VFGTGESTFVINSPTTRMDYLQFS  
UniRef90\_D4LY01 AQYARPGQFLSLYTGNAGKLLPRPILSLCEDKETSRIILV  
UniRef90\_L8F4D9 FLJAGQYTSVETLWWPRVWRHYSAAPRSDGLLSL  
UniRef90\_E5XRI1 PRFA PGQYVIGVVRIDGRWVRSYSLTSPAYS IIRGR

	90	100	110	120
UniRef90_A4ESG1	A K A Q S D S	I G T R W M	L D N L Q P G M R I	K A L G P A G L F
UniRef90_UPI00035CAD24	R I S V K R E A A S A D R P A	G M V S N V L H T V E E G A L I D V A P P M G D F		
UniRef90_UPI0002558F29	D E S V S F L I R V V P D	G L M S T Y M D Q A Q V G D Q L V L R G P P R N G S F		
UniRef90_A1UJZ98	V L R E P A S R G	G S A W M H E L R P G M R V K I R G P F R N H F		
UniRef90_UPI0002DB6308	L R H M P G G V F T D H V F	G A G D T Q F I M K L R E T L R V E G P L G S F		
UniRef90_N1VWT6	V K R Q S	E G F L V S N F I N N I K K G D L L E L G A V S G E F		
UniRef90_UPI00047D8B3D	S E R T V A V T V K A M P E	G F L S S H L V S N G L A P G T V V R L A A P A G E F		
UniRef90_Q13LJ8	R N V	P D G R M S R Y L E S Q A Q P G Q R I T F S G P Y G S F		
UniRef90_R1EDB4	V K A Y E P	R P G G G V G T W L C G L E E G		
UniRef90_F3ZU85	V R I A T P P F D R M K V N P	G I A S S Y I F S L K P G D K V M M S G P Y G D F		
UniRef90_A0A059FPC2	I K V	P D G P L T S R L Q A I L Q P G D K V L L K K P T G T L		
UniRef90_Q9RAL1	I R I	V D G G K F S E Y L D N N A K L G Q K L N V K G P S G V F		
UniRef90_A0A016PRR8	T N R F E L G V S R D D N S R	G G S V Y L H D N L Q V G D V I K I		
UniRef90_A0R525	V K R T A D	G Y A S N W L D N A H A G M R I H V L A P S G T F		
UniRef90_Q6BIR8	L K V I D N D A D D Y D K N Q	G G V V S R Y I E S S K K I G D E L E L R G N I		
UniRef90_E4TAS8	F	Y V H N Q G V G S K W V E Q L K V G D N Y K L I G P G G K		
UniRef90_R5G6R5	V R I A T P P F G W M K V P P	G I A S T Y I F S L K P G D K V M M S G P Y G H F		
UniRef90_U2DV31	V R I A T P P F K P K E Q P	G G F M S S Y I F T L K P G D K V T M S G P Y G D F		
UniRef90_A0A014PA09	K H	E P H G K V S G Y I H A L H P G D L V D I A S P Y R G T F		
UniRef90_UPI0004030D25		G V R E V P D G L V S R W L N E V A V G D V V E A L P P T G R F		
UniRef90_F8GFD7		L H A R N Y P G G A F T E H F T H M R V K D L L R F T G P L G S F		
UniRef90_E9UNZ6	V Q R	L P G G E V S E F L T D I A I G D E L E V R G P L G N F		
UniRef90_V5UF55	R H Q Q G R T A D G R S S E	G I V S S W L N T G A R V G D V V E I G A P S G R F		
UniRef90_W7CH26	K Q E N E K	E P A G V V S N H F E N Y H V G D T I L A T L P A G D F		
UniRef90_G4NDV3	R I S V K R E E G V E V G A	P G I I S N M L H K I S V G D E V E V S H P Q G E F		
UniRef90_G2J3C4	R N V	P N G R M S H F L H D A K V G E R M T F A G P Y G S F		
UniRef90_M1NUP9	I V T F L V K L T R G G L M S E Y L	D F T A K V G D E L M L T G P M G S F		
UniRef90_F9RCN7		L H I R K V P N G Q M S E L L F E L K E N Q Q L M R I E G P K G T F		
UniRef90_UPI0003A24C0C	R K D G K I E L T I K V D P N G L V S P W L	A N A K P G M I V Q V S A A Q G E F		
UniRef90_W9A3Q7	K R	E A Q G T V S N Y L H N V N V G D K V K L V A P A G D F		
UniRef90_M1YXD3	L H T I R A V	E A Q G T V T R H L K N L R K G D V I G I R G P F G		
UniRef90_Q1QCV6	R R D N R N	E H H G L V S N Y L H H L A I G D T V L L S A P A G D F		
UniRef90_C4GDA7	R	I A D Q H S W F K D I L L R Q L E A G D T M L V S A P A G E M		
UniRef90_W9CHZ0	V A M G D L R F L I R K E P N G E M S N Y L	F R G L Q V N S E I E L R G P H V E F		
UniRef90_D5URF0	V	T A D A G G Q V S T H L D N L Q V G D V L G L S P A A G S F		
UniRef90_F0P1G2		T L A V K A T K N G K I S N Y L K E T K I G D Q L K V S T P N G R F		
UniRef90_M3G126	K A A G G A S A G	L R H L P V G S R V F V E G P Y G A F		
UniRef90_M3D9H8	K R A T G L D P H H P R K S P S W V S N I L	H E K Q I G D V V K V S H P A G D F		
UniRef90_Q76KR4	V R R V A E	G R V S N W L D H A Q P G Q Q I K V L P A G R F		
UniRef90_J9S615	V K R E D Q S R G	G S A A L H E L R V G D R L Q I S		
UniRef90_U2P8Q6	V R I A S T P F L P Q D V P T G I G S S Y I	F S L K P G D K V L M S G P Y G D F		
UniRef90_UPI00047AE5B4	I K S	Y P S H E G V T K E M W N V P G D S L I I G E S W N G A I		
UniRef90_D3VIU1	V K R E E H S R G G S A F M H	D K V V I G N T L I I S E P N N L I		
UniRef90_F4CMB2	V K R S P	D G A A T E G W I F K L A V G D A V P V S G P Y G Q F		
UniRef90_C5CEV8	I M K V	G Y M T E K M H E I K P G A T V A L R G P Y G N		
UniRef90_Q12CA0	V K R D A A G	R G G S I S M A D D V Q V G Q L A V S A P R N N F		
UniRef90_V5RWI6	R	I N D P G S T F K Q R L Q S L K P G E T I E T D A P E G D F		
UniRef90_F5Z178	E A R T I A I T V K A M P E	E G F L S S H L V D G V A P G T V V R L A A P Q G E F		
UniRef90_W8B308	I Q R V	E D G E V S T Y L V D T F P I G A Y I E V R G P Y G Q F		
UniRef90_D1KDH7		L H I R L V E G G K F T N F L F N L K E K A L L R L E G P K G T F		
UniRef90_U5D8S5	H H Q Y Y R P P K G Q D V P P	G L A S N F M H D V E E G T V I L A K P S Y G K F		
UniRef90_Q8AQ0		L H V R L V E G G A A T Y I H E L K T G D A L N L S G P Y G Q F		
UniRef90_V8GA83		L H I R H M P G G L F T D H V F A M K V R E L R L E G P L G S F		
UniRef90_UPI00036D9B47	V L R E P	D G R G G S A F V H K L D V G D T V L V R G P R N H F		
UniRef90_F1Z4E1	A R T L T I D F A I H	P A G P A T Q W A A A K V G D R L D I G G P R G		
UniRef90_W0DEZ5		V L H I K K V P G G R F S D V F H D L K D K A L L R I E G P L G S F		
UniRef90_UPI0003FB319D	I K V	P G G P L T E H L Q K V K V G D T I L M R K P T G T L		
UniRef90_G8SE21	V R	A L G A G W V S S A L V R K L K V G D M I K L A A P M G S M		
UniRef90_Q3C2D2		T R L A F L I K K I P G G V M S R W L E A A R P G D T L Q M H G P L G S F		
UniRef90_R4X3Z1		K I S F L I K K I P G G L M S T W L E A A R P G N K V Q L T G P L G S F		
UniRef90_H1SIQ4		L H R H T P G G V T D F E G E I Q P G Q I L Q F E A P L G T F		
UniRef90_Q29GQ2	V K	L Q P D G P M S K N L A A M Q L N D R L E F R G P I L G N Y		
UniRef90_A6SYL6	V K K E V T S R G	G S Q A M H S I R E G D Q I K I S A P R N N F		
UniRef90_E1VYE7		I K V A I K R D L G G L F S T W A E S L A A G D Q I D V M S P A G A F		
UniRef90_U2SF85	F F L H G Q G P G	S A W A E A L Q P G A L V D I L I G P G G R F		
UniRef90_UPI000373A545	I R	L Q P G G L F S T W L E Q A Q A G Q T L L V H G P D G A F		
UniRef90_V4YPA7	R S G L L R V G I K R V I G L V S N H V	D T V R V G H V M D V M T P Q G R F		
UniRef90_Q5AX11	R K D L G L D A S D P S A P P	G Y V S N I L H N I N V G D I V K L T H P Y G D F		
UniRef90_W0QN87	V R E	I E D G V G S T W L N N V K V G D Q V W F S N P M G E F		
UniRef90_J4Y6B7	G Q Q V D F H V R R I P G G R Y T H W L	Q A Q A G A L T I E A P L G V F		
UniRef90_A4FQN9		H I K S V E G G W V S R A L G H A R P G D T W R I G S P M G R L		
UniRef90_Q11TL8		T M N L T L C A H S G P G S N W I K S V K A G E E I Y L T A P Q G N F		
UniRef90_U6BCV3	K R E	G I V S D Y L H A A Q V G D T V F I S A P A G A F		
UniRef90_A0A024TY32	S R S N Q L N L M V K L V P N	G K I S T L L H T A P L G T L V E V L A P I G T F		
UniRef90_MOQM64	V L L E A N G R G G S R R V H	D D L R V G D L V D V V G P R N H F		
UniRef90_I3YGZ8	I K R V P A P P G K P D A P P	G I A S N H F H D I Q E G S R L S V R A P S G H F		
UniRef90_UPI00037534F5	V K R T R A	G R A S N W I D N V T D G S Y L D V L P P S G Q F		
UniRef90_A1KBA6		L H V R R I D G G R E T Q V F E T M K V R D T L R F E G P L G T F		
UniRef90_V5TXT8	K R E G E	G Q V S N W L H H A A Q P G D V V N L A A P A G D F		
UniRef90_UPI00025583CA	V R I A T P P F D R M D V N P	G V A S S Y V F N Q K P G D K V V I S G P Y G E F		
UniRef90_X5E1N8	N L R I A T P P W D R A N N G	G I C S Y I F N L K P G D K V T V S G P Y G E F		
UniRef90_UPI00036FE874	H T V R A V	G A V T R A L C G L R T G A W L G V R G P F G		
UniRef90_V6S2C5	I K I	Y T D H E G V T N M L G R M N A G A E L L H D V F G A I		
UniRef90_UPI000317617C	I K K	Y P G G V F S G L L D D L H V G D E L A L T G P Y G		
UniRef90_F0KIB2	R N V	P N G K M S E F L S N A K A G D K M L T F T G P F G S F		
UniRef90_K9HQS0	V H T T R A V	G T V T R A M W A M K A G A T I G I R G P F G		
UniRef90_I0G7L1	N N V L S V A V K K Q P S D S	G L L S E H I H R L A I G D E V Q L E S P G G I F		
UniRef90_N6YI82		G E A T Y V H E L R M G D R L R I S G P Y G R F		
UniRef90_UPI0003759304	V M R A	G E V T A K L H S L S A G D Q V G V R A P L G N F		
UniRef90_D4LY01	Y R V T G K N T G	T E A F S K M Q P G D K I E A L G P L G N		
UniRef90_L8F4D9		H V K A V P A G W V S N A M H R A R P G D V I R L G P S G S M		
UniRef90_E5XRI1	A L H E P L S V T V R A V P A	G R L S T H L T S V R P G T V V R L Q A P S G D F		

UniRef90_A4ESG1	T
UniRef90_UPI00035CAD24	
UniRef90_UPI0002558F29	
UniRef90_A1UZ98	R L D G
UniRef90_UPI0002DB6308	
UniRef90_N1VWT6	V
UniRef90_UPI00047D8B3D	V
UniRef90_Q13LJ8	
UniRef90_R1EDB4	
UniRef90_F3ZU85	H
UniRef90_A0A059FPC2	V
UniRef90_Q9RAL1	
UniRef90_A0A016PRR8	
UniRef90_A0R525	V
UniRef90_Q6BIR8	E Y K
UniRef90_E4TAS8	
UniRef90_R5G6R5	H
UniRef90_U2DV31	H
UniRef90_A0A014PA09	V L E
UniRef90_UPI0004030D25	
UniRef90_F8GFD7	
UniRef90_E9UNZ6	V W
UniRef90_V5UF55	V
UniRef90_W7CH26	E
UniRef90_G4NDV3	
UniRef90_G2J3C4	
UniRef90_M1NUP9	
UniRef90_F9RCN7	F V K D N
UniRef90_UPI0003A24C0C	
UniRef90_W9A3Q7	
UniRef90_M1YXD3	
UniRef90_Q1QCV6	E
UniRef90_C4GDA7	
UniRef90_W9CHZ0	
UniRef90_D5URF0	T L P G
UniRef90_F0P1G2	V
UniRef90_M3G126	T
UniRef90_M3D9H8	F H
UniRef90_Q76KR4	I
UniRef90_J9S6I5	
UniRef90_U2P8Q6	H
UniRef90_UPI00047AE5B4	N Y K G K
UniRef90_D3VIU1	
UniRef90_F4CMB2	
UniRef90_C5CEV8	
UniRef90_Q12CA0	E L H P R
UniRef90_V5RWI6	T
UniRef90_F5Z178	V
UniRef90_W8B308	V W T P E
UniRef90_D1KDH7	Y F K
UniRef90_U5D8S5	V
UniRef90_Q84AQ0	
UniRef90_V8GA83	
UniRef90_UPI00036D9B47	
UniRef90_F1Z4E1	
UniRef90_W0DEZ5	V
UniRef90_UPI0003FB319D	V
UniRef90_G8SE21	T
UniRef90_Q3C2D2	
UniRef90_R4X3Z1	
UniRef90_H1SIQ4	H
UniRef90_Q29GQ2	R H
UniRef90_A6SYL6	P L E
UniRef90_E1VYE7	I
UniRef90_U2SF85	V
UniRef90_UPI000373A545	
UniRef90_V4YPA7	H
UniRef90_Q5AX11	H
UniRef90_W0QN87	
UniRef90_J4Y6B7	S Y H
UniRef90_A4FQN9	
UniRef90_Q11TL8	
UniRef90_U6BCV3	T
UniRef90_A0A024TY32	
UniRef90_M0QM64	
UniRef90_I3YGZ8	H
UniRef90_UPI00037534F5	V
UniRef90_A1KBA6	
UniRef90_V5TXT8	
UniRef90_UPI00025583CA	
UniRef90_X5E1N8	F L K D N
UniRef90_UPI00036FE874	
UniRef90_V6S2C5	Q Y K G
UniRef90_UPI000317617C	
UniRef90_F0KIB2	
UniRef90_K9HQS0	
UniRef90_I0G7L1	T
UniRef90_N6YI82	
UniRef90_UPI0003759304	P Y E
UniRef90_D4LY01	
UniRef90_L8F4D9	T
UniRef90_E5XRI1	

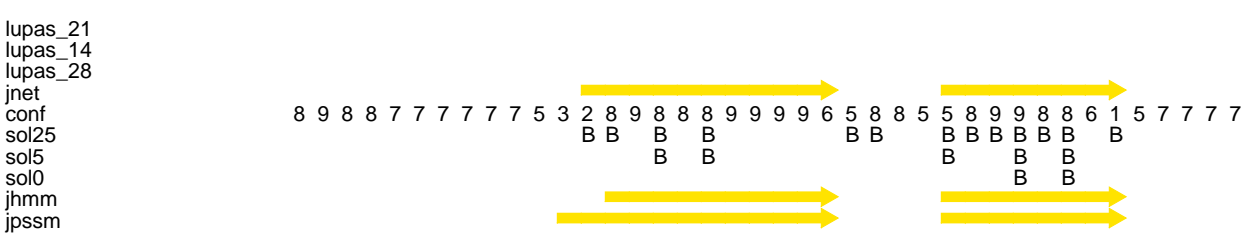
UniRef90\_A0A024FH82  
UniRef90\_T1CAL3  
UniRef90\_B3RB96  
UniRef90\_UPI000366F531  
UniRef90\_A0A059G1Q8  
UniRef90\_O84963  
UniRef90\_UPI00035E97F9  
UniRef90\_E5R0X4  
UniRef90\_UPI000381F35E  
UniRef90\_UPI0004630555  
UniRef90\_UPI00036F97B5  
UniRef90\_F0EYF8  
UniRef90\_B7V840  
UniRef90\_M3V3M3  
UniRef90\_UPI000474A2D0  
UniRef90\_X8BP34  
UniRef90\_UPI0003A61223  
UniRef90\_C7QIC3  
UniRef90\_R4YTV2  
UniRef90\_Q1LMG5  
UniRef90\_R7DG18  
UniRef90\_D3G0B8  
UniRef90\_M5DQW7  
UniRef90\_K0WPR2  
UniRef90\_A7AUC0  
UniRef90\_UPI0002628CCA  
UniRef90\_UPI00034B10F6  
UniRef90\_G8PRS9  
UniRef90\_T1DS97  
UniRef90\_UPI000372B9EC  
UniRef90\_D3V8J6  
UniRef90\_D0IW16  
UniRef90\_S6BF62  
UniRef90\_W9ADN1  
UniRef90\_B4NBZ1  
UniRef90\_V6RVY7  
UniRef90\_UPI00036778FC  
UniRef90\_E1SAS4  
UniRef90\_UPI0004777610  
UniRef90\_E3J2Z0  
UniRef90\_V8C366  
UniRef90\_I3CK77  
UniRef90\_C6CK98  
UniRef90\_UPI00037376AF  
UniRef90\_C5FNM2  
UniRef90\_F6IM06  
UniRef90\_UPI00047A33E8  
UniRef90\_UPI0001D2E234  
UniRef90\_B4UZ93  
UniRef90\_C4UGH9  
UniRef90\_W6LWY4  
UniRef90\_G7D8L2  
UniRef90\_K2CXX1  
UniRef90\_D5PC14  
UniRef90\_M7MGV4  
UniRef90\_UPI00047AF3A6  
UniRef90\_R7HWX1  
UniRef90\_UPI000376479E  
UniRef90\_UPI00034A3150  
UniRef90\_Q5LM61  
UniRef90\_UPI00046809A3  
UniRef90\_K0INB2  
UniRef90\_A0JSP7  
UniRef90\_A0A059MIA8  
UniRef90\_I7LJ99  
UniRef90\_Q7QHR3  
UniRef90\_UPI00037A7765

1 10 20 30 40

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

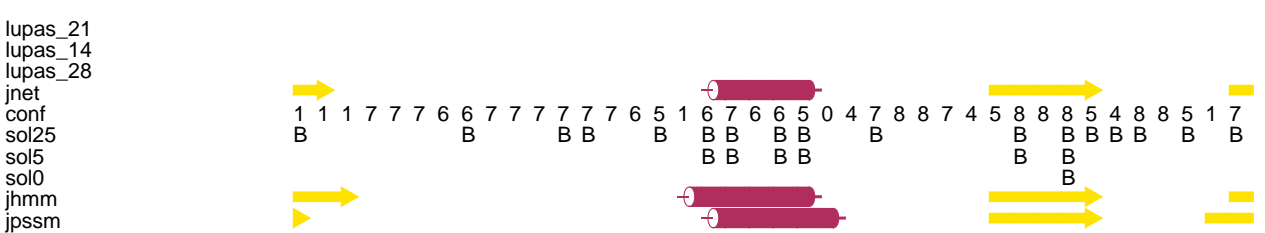
L T V A A R T L V A D G V V S L T L R R P D G G P  
P A R I A D I E T R G D M A V L T I A L P K A P P  
H S G V V R E L R L L S E D T A L R L D A G A A G R  
T R V R I V G R E V V A H D V V A L T L A A A D G E E  
R E F R I S A I T D Q S S V I K S I E L T P V D G A A  
D V W L Q A I V R R Q L E S A D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

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



		50	60	70	80																																			
UniRef90_A0A024FH82	F	K	S	D	W	E	K	F	G	L	W	P	L	V	M	K	N	S	E	T	V	E	R	A	Y	S	M	A	S	Y	P	A	E	G	R	E	I	M	L	N
UniRef90_T1CAL3	A	L	S	F	L	P	G	Q	F	N	M	L	Y	L	F	G	V	G	E	A	L	A	R	S	F	S	M	A	S	V	P	D	E	Q	G	A	Y	R	I	A
UniRef90_B3RB96	L	D	Y	R	P	G	Q	Y	L	K	L	L	S	S	E	G	L	A	R	S	F	S	M	A	S	V	P	D	E	Q	G	A	Y	R	I	A				
UniRef90_UPI000366F531	L	P	R	W	H	P	G	S	H	L	D	I	H	L	P	S	G	L	V	R	Q	Y	S	L	C	G	D	P	D	E	Q	G	A	Y	R	I	A			
UniRef90_A0A059G1Q8	F	R	A	G	S	Y	V	Q	V	E	I	P	P	F	R	S	H	D	T	P	L	H	R	T	Y	S	L	A	N	S	P	G	E	L	G	D	I	L	L	N
UniRef90_O84963	V	A	F	Q	A	G	Q	Y	L	N	L	Q	V	P	G	C	D	Q	P	R	A	F	S	L	A	N	A	P	D	E	E									
UniRef90_UPI00035E97F9	L	P	P	F	S	G	G	H	I	V	V	T	M	D	A	E	G	R	T	Y	R	N	P	Y	S	L	M	G	S	P	S	D	T	R	A	Y	H	I	S	
UniRef90_E5R0X4	V	L	R	W	I	P	G	Q	Y	A	T	V	S	F	R	D	M	G	Y	S	H	M	R	D	D	D	P	T	S	I	N	D	D	Y	I	R	T	F	T	V
UniRef90_UPI000381F35E	F	Q	D	E	W	D	K	F	K	L	W	D	L	K	M	V	N	D	E	P	V	R	R	A	Y	S	L	A	P	A	D	G	G	R	L	G	L			
UniRef90_UPI0004630555																																								
UniRef90_UPI00036F97B5	L	P	A	W	T	P	G	T	H	I	D	V	L	L	D	G	E	G	D	L	V	R	Q	Y	S	L	C	G	H	P	A	D	R	E	T	W	Q	I	A	
UniRef90_F0EYF8	F	V	F	H	S	G	Q	Y	M	E	L	L	K	D	G	S	R	S	S	L	A	N	A	P	H	E	S	G	T	L	E	F								
UniRef90_B7V840	Q	L	D	F	L	P	G	Q	Y	A	R	L	Q	V	P	G	S	D	C	R	A	Y	S	F	A	N	R	P	N	P	Q	N	H	L	Q	F	L			
UniRef90_M3V3M3	L	P	S	W	H	A	G	A	H	I	D	V	L	L	P	S	G	R	M	R	E	Y	S	L	C	G	D	P	A	D	R	G	R	Y	R	I	A			
UniRef90_UPI000474A2D0	V	V	D	Y	R	P	G	Q	Y	L	S	L	V	Q	A	E	G	M	R	Q	I	R	Q	Y	S	L	T	A	T	P	N	G	R	N	Y	R	I	A		
UniRef90_X8BP34	P	N	F	I	P	G	Q	Y	L	S	V	V	T	L	P	D	G	A	R	Q	I	R	Q	Y	S	L	S	R	G	S	T	A	G	D	W	R	I	A		
UniRef90_UPI0003A61223	T	F	R	F	R	A	G	E	F	V	M	I	G	L	E	G	E	K	K	P	I	L	R	A	Y	S	V	A	S	P	T	W	D	E	E	L	E	F	Y	
UniRef90_C7QIC3	L	K	V	R	P	G	Q	F	F	R	L	Q	F	Q	T	R	D	L	R	W	V	A	N	P	Y	S	L	S	A	A	P	H	P	N	Y	L	R	F	T	
UniRef90_R4YTV2	V	I	D	Y	Q	A	G	Q	Y	I	E	V	Q	P	K	Q	S	E	F	K	E	I	R	Q	Y	S	L	S	D	K	A	N	G	E	S	Y	R	I	S	
UniRef90_Q1LMG5	G	D	A	L	R	F	Q	P	G	Q	Y	V	N	V	W	I	G	K	E	A	T	P	R	A	F	S	L	A	S	A	P	S	A	D	E					
UniRef90_R7DG18	L	N	F	Q	P	G	S	Y	I	M	W	G	L	V	C	K	N	D	E	E	T	Y	R	A	S	M	A	N	H	P	A	E	G	N	L	V	M	L	N	
UniRef90_D3G0B8	I	A	E	F	K	A	G	Y	I	T	K	V	K	P	R	D	S	E	Y	T	H	R	Q	Y	S	L	S	D	A	S	G	K	N	Y	R	I	S			
UniRef90_M5DQW7	V	I	D	F	T	P	G	Q	Y	V	G	L	V	L	T	D	G	Q	P	V	R	R	N	Y	S	L	S	D	A	P	G	K	R	G	V	R	I	S		
UniRef90_K0WPR2	F	R	F	R	A	G	Q	F	A	R	L	G	V	T	K	A	D	G	S	T	V	W	R	A	S	M	V	S	S	P	F	D	E							
UniRef90_A7AUC0	H	F	M	L	H	I	F	A	H	F	E	I	C	Q	N	D	T	N	Q	V	S	R	K	Y	T	P	I	Y	I	D	Q	E	K	K	E	V	H	I	L	
UniRef90_UPI0002628CCA	F	E	A	G	Q	Y	V	E	L	V	V	P	G	S	G	A	R	R	Q	Y	S	L	A	N	T	A	D	E	D	K	V	L	E							
UniRef90_UPI00034B10F6	S	Q	F	F	P	G	Q	Y	I	T	V	I	S	S	D	K	L	P	Y	Q	A	K	R	H	Y	S	I	V	D	G	G	L	D	F	L					
UniRef90_G8PRS9	F	R	F	R	S	G	E	F	V	M	I	G	L	M	I	D	G	K	P	L	F	R	A	Y	S	L	A	S	P	S	W	D	E	E	L	E	F	F		
UniRef90_T1DS97	L	N	F	Q	W	D	K	F	K	M	W	D	L	S	A	R	N	D	E	E	T	V	R	A	Y	S	M	A	N	Y	P	A	E	G	N	I	T	L	N	
UniRef90_UPI000372B9EC	V	I	A	H	K	P	G	Q	Y	I	T	F	R	L	D	V	P	G	A	P	G	E	K	R	N	Y	S	L	S	G	G	P	N	G	E	T	Y	R	I	
UniRef90_D3V8J6	V	I	D	Y	K	A	G	Q	Y	I	Y	L	D	T	P	V	F	E	N	R	E	I	R	Q	Y	S	L	T	T	A	P	N								
UniRef90_D0IW16	L	P	R	W	T	P	G	S	H	I	D	L	H	C	G	D	T	G	I	S	R	Q	Y	S	L	C	G	D	P	Q	Q	A	N	T	Y	E	I	A		
UniRef90_S6BF62	L	P	P	F	S	G	G	S	N	V	V	L	T	P	H	A	S	G	T	Y	R	N	A	S	L	M	S	P	Y	D	S	S	A	Y	Q	I	A			
UniRef90_W9ADN1	I	Q	A	Y	D	P	G	Q	Y	I	T	V	Q	I	E	N	D	Y	D	H	L	R	Q	Y	S	L	S	T	A	P	G	K	D	Y	R	I	S			
UniRef90_B4NBZ1	I	L	D	I	P	P	G	H	H	V	M	L	R	I	G	S	L	L	R	P	Y	S	P	F	W	T	D	F	V	R	K	E	F	K	I	L				
UniRef90_V6RVY7	F	V	P	G	Q	A	T	E	V	S	I	N	H	P	D	W	K	N	E	A	R	P	F	T	F	T	N	L	K	E	A	D	Y	L	E	F	M			
UniRef90_UPI00036778FC	F	Q	F	R	A	G	Q	Y	L	D	V	L	P	D	G	Q	R	S	F	S	I	A	N	A	P															
UniRef90_E1SAS4	V	A	A	F	K	P	G	Q	Y	L	T	V	H	L	Q	P	A	S	F	E	H	I	R	Q	Y	S	L	T	H	L	S	N	G	K	A	Y	R	I	A	
UniRef90_UPI0004777610	P	V	V	A	A	P	G	Q	F	T	M	L	Y	A	F	G	V	G	E	V	P	L	S	V	S	S	L	P	S	E	V	P	L	L	H	T				
UniRef90_E3JZ20	P	G	H	L	A	G	Q	R	V	D	I	R	L	T	A	E	D	G	Y	R	A	S	R	A	Y	S	L	A	A	P	A	D								
UniRef90_V8C366	Y	L	P	T	W	K	F	N	I	F	S	L	K	A	H	N	P	E	E	T	V	R	A	Y	S	M	A	N	Y	P	A	E	G	D	R	I	T	L		
UniRef90_I3CK77	H	A	N	Y	T	Y	H	P	G	Q	F	N	M	L	Y	L	Y	G	V	G	E	V	A	L	S	I	V	S	D	P	E	H	E	L	L	V	H	T		
UniRef90_C6CK98	D	F	Y	P	W	P	G	Q	Y	A	L	V	S	I	A	N	S	V	S	E	T	L	R	A	Y	T	L	S	S	P	G	L	S	P	F	I	T	S		
UniRef90_UPI00037376AF	R	F	L	P	G	Q	W	V	D	L	S	I	E	A	D	G	M	T	H	T	A	G	Y	S	L	I	T	S	P	I	H	R	G	G	I	E	L			
UniRef90_C5FNM2	R	M	E	L	G	L	G	Q	H	L	R	L	S	A	E	D	G	A	V	I	Q	R	S	Y	T	P	V	S	E	L	N	P	G	P	V	D	L			
UniRef90_F6IM06	F	I	P	G	Q	Y	A	D	L	T	A	P	G	I	A	E	P	R	S	Y	S	F	A	F	A	P	E	A	G	E	T	R	L	E						
UniRef90_UPI00047A33E8	V	S	F	R	P	G	Q	F	A	W	L	K	I	G	T	S	P	Y	V	F	E	E	H	P	F	T	I	A	S	A	A	T	E	P	W	R	K	E		
UniRef90_UPI0001D2E234	G	R	A	A	E	F	L	P	G	Q	F	M	E	L	T	L	P	G	T	S	I	T	R	A	Y	S</														

	90	100	110	120
UniRef90_A0A024FH82	V R I A T P P F G W M N V N P	G I A S S Y I F N Q K V G D K V T I S G P Y G E F		
UniRef90_T1CAL3	I R G V	G K I T T A L C R S G P G S V V G V R G P Y G		
UniRef90_B3RB96	R D G R I D L H V R R I P	G G A F T G I L P R M R A G D A I E V E L P L G S F		
UniRef90_UPI000366F531	V R R I P	D G G G G S I E A H E L A V G D V I T T N G P R N A F		
UniRef90_A0A059G1Q8	I R L A L A K P D T S G V P V G I G S A Y L S T L G Q G D T V R L R G P F G D F			
UniRef90_O84963	L V E L H V R K V E G G Q A T G Y L H E L A V G D A L R F S A P Y G R F			
UniRef90_UPI00035E97F9	V R R Q E S S R G	G S V F M H E V Q V G M R L K I T H P V N L F		
UniRef90_E5R0X4	S S Y P G R N L A K N E F E K G N A T S H L F R A R S G L E L S L R G F D G S F			
UniRef90_UPI000381F35E	I R I A T P P F G W M N V N P	G V C S S Y V F D Q K P G D K V T L S G P Y G E F		
UniRef90_UPI0004630555	V R F S P G G A R G G R H P P	G K G S A W V Y T L K P G D R V R Y S G P F G D F		
UniRef90_UPI00036F97B5	V L R E P	Q G R G G S A Y V H Q L L E G A E V L V R G P R N N F		
UniRef90_F0EYF8		H V R L R E G G L F S P Q L F D L K K G S I R V R G P L G S F		
UniRef90_B7V840	I R	P G G G A M S D Y L R C R V G D E I R F E A P L G T F		
UniRef90_M3V3M3	V R R I P D G	G G G S V E V H D A L R V G D T L P I K G P R N A F		
UniRef90_UPI000474A2D0	K H E S A	G T V S G W L H E A K V G D V V E L A A P H G D F		
UniRef90_X8BP34	V K R	L N V G D T P A G E V S N F I D N V F E G Q Q L R V S V P M G E F		
UniRef90_UPI0003A61223	I K V	P G G A L T S R L K N I Q P G D R V L M K K P T G T L		
UniRef90_C7QIC3	I K S L	G D H S A A V S S L R P G T K V R A E G P Y G A F		
UniRef90_R4YTV2	K R E I V G K P	G I V S N Y L H D L R L A D E V L T L Y A P A G D F		
UniRef90_Q1LMG5		I E L N I R L V P G G S A T T Y V H E L A V G E R L Q L S G P L G R F		
UniRef90_R7DG18	I R I A T P P F D R N T I K P	G I C S S Y I F S R K P G D K V T V S G P Y G E F		
UniRef90_D3G0B8	V K	H E N D G V V S Y L H E V V I E G D K V E L T A P A G D F		
UniRef90_M5DQW7	K K	E S N G L V S S Y L H N A R I D D E V W L T A P A G D F		
UniRef90_K0WPR2		F L E F F S I V V P G G E F T S E L S R L Q V G D T L V		
UniRef90_A7AUC0	M R I Y R	P C E K Y P D G G S T R V I E C L I P Q D Q L T I Y P S M F K F		
UniRef90_UPI0002628CCA		L H V R R V P G G V A T W L F D G L A A G D R V E A T G P L G D F		
UniRef90_UPI00034B10F6	T F G V R R D M T E T H E	G E V I T L L H E V A V G D T L M L S A P V G G F		
UniRef90_G8PRS9	I K V	P D G P L T H L Q K I K E G D H V L L K		
UniRef90_T1DS97	V R I A T P P I D R N T H P A G I S S Y I F S L K A G D K V R M S G P Y G D F			
UniRef90_UPI000372B9EC	V K R	E D L G A A S R F L H D I Q V G D V L S A T P P A G D F		
UniRef90_D3V8J6		N H S Y Q I A I K R E A Q G K V S N Y M H N V Q E G D T I L L A P P R G D F		
UniRef90_D0IW16	V L R E E H S R G	G S A W I H A L Q A G M K V Q M R G P R N H F		
UniRef90_S6BF62	V R R V	E D G R G G S R Q M H Q V N E G D V L E I L R P V N L F		
UniRef90_W9ADN1	V K R E D A L D N	L P A G V V S T F L H Q V R A G D I I P I T A P S G D F		
UniRef90_B4NBZ1	V K L V L D	G P M S Q H L A D L H I D D V L Q F R G P I G S Y		
UniRef90_V6RVY7	V K I	Y K E R K G V T N E L S R I N A G D E L L H D V E G T I		
UniRef90_UPI00036778FC		G D T L E L H I R Q I P N G L F S K V F T S M K P R D I L R L E G P L G S F		
UniRef90_E1SAS4	K R E A Q G T V S G W L H Q N G	R V G D E L M L A A P H G D F		
UniRef90_UPI0004777610	V R A V	G A V T E A I C A T R P G G M L G V R G P F G R		
UniRef90_E3J2Z0		G D R V E V T V Q R V P D G E V T S P Y L V E V A V G D P V E L R G P I G G F		
UniRef90_V8C366	V R I A T T P F K P Q D V P T	G I A S S Y I F S R K P G D K V V M S G P Y G D F		
UniRef90_I3CK77	I N R V	G R V T K G F S Q L K A G Q R I G I R D A F Q G R		
UniRef90_C6CK98	V R R	L E N G T G S R W L E Q V K P G D Y L W I S D A P G G F		
UniRef90_UPI00037376AF	I K S A R H P V A R W V H E H A	R T G D T V R V S Q G Q G P F		
UniRef90_C5FNM2	V K I	Y P E G R M S K H L L H L P L H T P L A I R G P Y G S		
UniRef90_F6IM06	F	H V R H V P G G L F T D W L F G A R I G Q T L D L S G P Y G Q F		
UniRef90_UPI00047A33E8	I K G M	G D F S E L I A G L R P G R N V F I D G P H G S F		
UniRef90_UPI0001D2E234	I R	L H P Q G A F S A Y L R R A E I G D A L C V R G P Q G S F		
UniRef90_B4UZ93	V K T A	G G H S A A L R L S P G T R V W A E G P Y G A F		
UniRef90_C4UGH9	K R	E E Q G T V S N F L H N A Q E G D T V R I A P P R G D F		
UniRef90_W6LWY4		L H I R R V P G G F F T D Y F N K M K D K A L R F Q G P L G T F		
UniRef90_G7D8L2	R R A	E D S R G G S R Y M W Q L A P G A R L D I T R P		
UniRef90_K2CXX1	R F D S E H	G S S F K K D L A S L N I G E A L D A E G P M G G F		
UniRef90_D5PC14	V R R I	A D G G G S I E M H S F D V G D T I E F E G P R N A F		
UniRef90_M7MGV4	I K V	Y P E H N G I T V A L S K L K V N D T I L I T D A W D S F		
UniRef90_UPI00047AF3A6	R A N R F D L C V N R V E G	G F F S N H L A D L P P G A S V K M H G P H G H F		
UniRef90_R7HWX1	Y R V V	G K G T K E F S K M N A G D T I R V M G P L G N F		
UniRef90_UPI000376479E	A R V	G D G T D A L G A L R P G T R V L V E G P Y G R M		
UniRef90_UPI00034A3150	V R R	I D G G T G S G L A H A L A E G D V L T L R G P R N A F		
UniRef90_Q5LM61	N F N N L S L T V K R E P H G I C S N H V C D L K P G D T V R V T P F G A			
UniRef90_UPI00046809A3	V R R E E Q S K G G S A F M H	D K V E I G S Q L T I A A P N N L F		
UniRef90_K0INB2	I R W V R K P V	P G R L T T E L F N K K E G D E I L W V K P T G I F		
UniRef90_A0JSP7	E A G T S R T F T T K K D D G	G E V S P V L H N V Q V G D E I L E I S N P Y G E I		
UniRef90_A0A059MIA8	V L R A E R S R G	G S A Y V H S L Q I G A E I D V D G P R S A F		
UniRef90_I7LJ99		I T V L E V G D A T A A L F A M R E G D R I G I R G P Y G N F		
UniRef90_Q7QHR3	C P G T F I P L L V K S Y Q D G C L S K H L T R V P L G T S L Q V S Q P S G N F			
UniRef90_UPI00037A7765	E D K V I S I T V K A N P D G F L S T H L V D G L E P G T I I R L Q S P R G D F			



UniRef90\_A0A024FH82  
 UniRef90\_T1CAL3  
 UniRef90\_B3RB96 F Y R A R  
 UniRef90\_UPI000366F531  
 UniRef90\_A0A059G1Q8 H  
 UniRef90\_O84963  
 UniRef90\_UPI00035E97F9  
 UniRef90\_E5R0X4 R F E  
 UniRef90\_UPI000381F35E F I K P  
 UniRef90\_UPI0004630555 A L K P  
 UniRef90\_UPI00036F97B5  
 UniRef90\_F0EYF8  
 UniRef90\_B7V840  
 UniRef90\_M3V3M3 P F  
 UniRef90\_UPI000474A2D0  
 UniRef90\_X8BP34 T  
 UniRef90\_UPI0003A61223 V  
 UniRef90\_C7QIC3 T  
 UniRef90\_R4YTV2  
 UniRef90\_Q1LMG5  
 UniRef90\_R7DG18 H  
 UniRef90\_D3G0B8 V  
 UniRef90\_M5DQW7 V  
 UniRef90\_K0WPR2  
 UniRef90\_A7AUC0  
 UniRef90\_UPI0002628CCA H  
 UniRef90\_UPI00034B10F6 K L E N K  
 UniRef90\_G8PRS9  
 UniRef90\_T1DS97 H  
 UniRef90\_UPI000372B9EC  
 UniRef90\_D3V8J6  
 UniRef90\_D0IW16  
 UniRef90\_S6BF62  
 UniRef90\_W9ADN1 T  
 UniRef90\_B4NBZ1  
 UniRef90\_V6RVY7 N Y Q G  
 UniRef90\_UPI00036778FC  
 UniRef90\_E1SAS4 F L E  
 UniRef90\_UPI0004777610  
 UniRef90\_E3J2Z0 V W  
 UniRef90\_V8C366 H  
 UniRef90\_I3CK77  
 UniRef90\_C6CK98 T  
 UniRef90\_UPI00037376AF V Y L P E  
 UniRef90\_C5FNM2 Y H P K  
 UniRef90\_F6IM06 R L K  
 UniRef90\_UPI00047A33E8 T L D G  
 UniRef90\_UPI0001D2E234 V  
 UniRef90\_B4UZ93 T  
 UniRef90\_C4UGH9  
 UniRef90\_W6LWY4  
 UniRef90\_G7D8L2  
 UniRef90\_K2CXX1 V  
 UniRef90\_D5PC14  
 UniRef90\_M7MGV4 A Y K G E  
 UniRef90\_UPI00047AF3A6 I  
 UniRef90\_R7HWX1 T L E G K  
 UniRef90\_UPI000376479E H  
 UniRef90\_UPI00034A3150 P F  
 UniRef90\_Q5LM61  
 UniRef90\_UPI00046809A3  
 UniRef90\_K0INB2 T  
 UniRef90\_A0JSP7 T L K  
 UniRef90\_A0A059MIA8  
 UniRef90\_I7LJ99 T V T G R  
 UniRef90\_Q7QHR3  
 UniRef90\_UPI00037A7765 H

lupas\_21  
 lupas\_14  
 lupas\_28  
 jnet →  
 conf 8 7 1 8 9  
 sol25 B  
 sol5  
 sol0  
 jhmm →  
 jpssm →