

QUERY 1 10 20 30 40
 UniRef90_B8CWP4 A K D P R Y V G N L P K I G I R P T I D D G R R R K K G V I R E S L E E G Q T T M N M A K A
 UniRef90_C6CWF9 K Q H R L R G N L P K I G I R P T I D D G R R R K K G V I R E S L E E V Q Q T T M N M A K A
 UniRef90_S0EW00 T H R L R Q S A P P K I G I R P T I D D G R R Y G G V V R E S L E E V Q Q T T M A L A R S
 UniRef90_L1QNV8 T N H L I G A M P K I G I R P T I D D G R R R G G V V R E S L E E E Q Q T T M N M A K Q
 UniRef90_I0I4U2 E N R L I G A M P K I G I R P T I D D G R R R G G V V R E S L E E E Q Q T T M T M A R T
 UniRef90_UPI00036D8FFB M Q Q N Y P K I G I R P V I D D G R R R G G G I R E S L E E D T T M N L A K S
 UniRef90_UPI00036E4EF6 N R L Q N E L P K I G I R P V I D D G R R R G G G I R E S L E E D V T T M D M A K R
 UniRef90_D3EM02 E K R F L E E Y P K I G I R P T I D D G R R Y G G V V R E S L E E A Q T T M N L A K A
 UniRef90_B5YC67 N R L K G S N P K I G I R P T I D D G R R R K G V V R E S L E E A Q T T M Q M A L N
 UniRef90_R9H2V6 Q T K R F L G E N P K I G I R P T I D D G R R L G G V V R E S L E E E T T M M M A Q N
 UniRef90_UPI00037F1581 Q D Y R Y K Q A F P K I G I R P T I D D G R R R K G V V R E S L E E E Q T T M N M A G R
 UniRef90_G5H5K9 M G R L P K I G I R P V I D D G R R E R G G V V R E S L E E V Q T T M K M A Q A
 UniRef90_W4BVC5 M K K K Y P K I G I R P T I D D G R R Q G G V V R E S L E E V K T T M S L A K A
 UniRef90_UPI000475DA1A M F T Q L P K I G I R P T I D D G R R R K G V V R E S L E E A Q T T M D M A K A
 UniRef90_UPI000362A153 M F T Q L P K I G I R P T I D D G R R R K G V V R E S L E E E Q T T M G M A R R
 UniRef90_UPI0002EF8BD9 Q Y P K I G I R P T I D D G R R R K G V V R E S L E E E Q T T M G M A R R
 UniRef90_UPI000366EB93 N H P K I G I R P T I D D G R R R G K V V R E S L E E E Q T T M M M A R A
 UniRef90_C6JJZ1 N H P K I G I R P T I N G R R R M G V V R E S L E E D Q T T M A M A K S
 UniRef90_S6EG66 E D R F G A A L P K I G I R P T I D D G R R R K G V V R E S L E E G V T T M E M A R V
 UniRef90_G0GEM3 R L F G D M P K I G I R P T I D D G R R R K G V V R E S L E E E K T T M N M A K A
 UniRef90_UPI00036261F7 W Q G E L P K I G I R P T I D D G R R L G G V V R E S L E E E Q T T Q A L A Q R
 UniRef90_M5RU47 R N S R L I G G K P K I G I R P T I D D G R R R G G I R E S L E E D M T M A M A H K
 UniRef90_R7EMR5 R L Q G N L P R I G I R P T I D D G R R L R G V V R E S L E E E Q T T M N M A K A
 UniRef90_UPI000477E198 N Y P K I G I R P T I D D G R R W G G V V R E S L E E K Q T T M N M A Y S
 UniRef90_S0FMN6 E Q R Y R G E L P K I G I R P T I D D G R R L G G V V R E S L E E E K T T M G M A K A
 UniRef90_F8F285 N R L R G E L P K I G I R P V I D D G R R R N G V V R E S L E E E K T T M G M A K K
 UniRef90_U2UMD9 S R L V G S Y P V I G I R P T I D D G R R Q M G V V R E S L E E V Q T T M N M A K N
 UniRef90_A6D1C2 M I Q H P R I G I R P T I D D G R R R Q G V V R E S L E E V Q T T M N M A K S
 UniRef90_D4LJR3 R M Q N N L P K I G I R P V I D D G R R R N G V V R E S L E E D T T M N M A K I
 UniRef90_A5M8L7 N R Y L G D L P K I G I R P A I D D G R R R R G V V R E S L E E E T T M M M A K A
 UniRef90_D5U660 M T N H P K I G I R P T I D D G R R R R G V V R E S L E E D Q T T M N M A R R
 UniRef90_W4EQ32 M T N Y P T I G I R P L I D D G R R R F G V V R E S L E E E K T T M Q M A K M
 UniRef90_I6XVT6 M T N Y P T I G I R P L I D D G R R Y G G V V R E S L E E E Q T T M K Q A E R
 UniRef90_R6P4I7 N R M L G A Y P L I G I R P A I D A R R G D V R G S L E E E Q T T M G M A E A
 UniRef90_B5JDH6 E H R F Q G E W P K I G I R P T I D D G R R M G G V V R E S L E E K Q T T M D M A K S
 UniRef90_UPI00046F3C1E M T D H P R I G I R P A I D D G R R R R G V V R E S L E E D Q T T M G M A E A
 UniRef90_G8UJM8 E K R W V G D F P R I G I R P A I D D G R R Q G G I R E S L E E D V T T M G M A Q S
 UniRef90_K0YXW1 M T D H P R I G I R P A I D D G R R R R G V V R E S L E E E Q T T M A M A R V
 UniRef90_UPI0003F91734 L R K K H V P I G I R P V I D D G R R K G V V R E S L E E A Q T T M Q M A K K
 UniRef90_I6YW57 S R L I G E Y P I G I R P I I D A R E G N V R A S L E E L T T M R M A H Q
 UniRef90_U1GNA5 T N R Y V G E Y P V I G I R P V I D A R R G Q V R Q S L E E E Q T T M G M A H A
 UniRef90_E8LLY8 M K N Y P K I G I R P I I D G R R Q G G I R E S L E E D K T T M M L A N A
 UniRef90_R5C7T1 K L I G E M P K V G I R P L I D D G R R R K G I R E S L E E E K T T M N M A L S
 UniRef90_UPI0004728209 M T N Y P A I G I R P T I D D G R R R R G V V R E S L E E E Q T T M T M A Q S
 UniRef90_G2Z8W1 N K L I G A L P T I G I R P T I D D G R R R M G V V R E S L E E D Q T T M T M A R M
 UniRef90_A0A023S640 F P K I G I R P T I D D G R R R R G I R E S L E E E Q T T M N M A H S
 UniRef90_C7T7P3 A D Q R K L V G G H P V I G I R P V I D D G R R K G D V R G A L E E E Q T T M S M A K R
 UniRef90_R6X0A5 K A K L G I R P I I D D G R R W G G V V R E S L E E E K T T M N M A L A
 UniRef90_X8GRE7 N Y P K I G I R P I I D D G R R R G G I R E S L E E D M T M K M A N L
 UniRef90_R6HXF8 E L R Y A G S F P K I G I R P V I D D G R R Q R G V V R E S L E E V Q T T M N M A K S
 UniRef90_R6EEG7 N N L P K L G I R P T I D D G R R R N G V V R E S L E E D Q T T M G M A K A
 UniRef90_G8QU00 N R Y Q L D F P K I G I R P V I D D G R R R K G I R E S L E E E Q T T M K M A L A
 UniRef90_UPI000418D35B N R Y Q L D F P K I G I R P T I D D G R R W G G I R E G L E E E Q T T M G M A K A
 UniRef90_B6VMR0 R F A D S Y P K I G I R P T I D D G R R E G S V R A S L E E E Q T T M N M A K R
 UniRef90_R5C412 E N R L I G G N P V I G I R P T I D D G R R R G G V V R E S L E E E Q T T M S M A K A
 UniRef90_B9Y9I4 M D N R I R I G I R P V V D A R R V G N V R E A L E P Q T L S M A Q A
 UniRef90_H3NGE4 L P T I G I R P T I D D G R R L G V V R E S L E E D Q T T M N M A K A
 UniRef90_R6TJG3 K Y P K I G I R P V I D D G R R W G G V V R E S L E E D Q T T M G M A K A
 UniRef90_UPI00037EBCCD N R Y L G E Y P V I G I R P I I D D G R R R G Q L R E S L E E D Q V M A M A E A
 UniRef90_B2UN39 R L A G T W P K I G I R P I I D D G R R R G G V V R E A L E E E Q T T M N M A R S
 UniRef90_R6QHV4 S L P K I G I R P I I D D G R R M G V V R E S L E E E Q T T M N M A K A
 UniRef90_R5ICG7 E E R R Y A G G F P K V G I R P I I D D G R R R G V V R E S L E A Q C M E M A K N
 UniRef90_F4GKI0 N R L I G R L P K V G I R P V I D D G R R R R G V V R E S L E A D K T W W M A H A
 UniRef90_UPI00036AF779 M V H H P K I G I R P T I D D G R R R R G V V R E S L E A Q C R A M A E S
 UniRef90_UPI000479F4BC Y G K I G I R P T I D D G R R W G G V V R E S L E A Q C R A M A E S
 UniRef90_UPI00037AE05A Y G K I G I R P V I D D G R R Q F G I R E S L E E V Q T T M N M A K A
 UniRef90_U2TCE4 H P R I G I R P T I D D G R R Q G G V V R E S L E E E K T T M N M A H L
 UniRef90_R5GXL0 M T L Y P K I G I R P T I D D G R R Q G G V V R E S L E E E K T T M Q M A L A
 UniRef90_UPI0002FAEA5F K P R I G I R P T I D D G R R W G G V V R E S L E E E K T T M A M A N A
 UniRef90_G7RZW4 Y P K I G I R P T I D D G R R Q F G V V R E S L E E D Q T T M D M A Y A
 UniRef90_R6MLV4 N H P R I G I R P T I D D G R R W G G I R E G L E E D Q T T M A M A K A
 UniRef90_U2KD09 N Y P K I G I R P T I D D G R R Q G G V V R E S L E E Q Q T T L D M A R R
 UniRef90_U1QFV9 S F P K I G I R P T I D D G R R R G G I R E S L E E D V T T M A M A H R
 UniRef90_C0EDQ6 N Y P K I G I R P A I D D G R R Q G G V V R E S L E G Q T T M A M A Q A
 UniRef90_I6RYL4 N Y P K I G I R P T I D D G R R Q G G V V R E S L E E Q Q T T L D M A R R
 UniRef90_A9HPK3 N Y P K I G I R P T I D D G R R R G G I R E S L E E D V T T M A M A H R
 UniRef90_G1WHZ1 N Y P K I G I R P A I D D G R R Q G G V V R E S L E G Q T T M A M A Q A
 UniRef90_R6N7M6 Q N L R F G Q F H K I G I R P V I D P R R R A V Y Q A I Y G Q T M E M A R Q
 UniRef90_Q2NWL9 N L P R V G I R P V I D D G R R R M G V V R E S L E A Q T T M A M A R A
 UniRef90_UPI0004249842 R M Q F N L K I G I R P L I D D G R R R H G V V R E S L E E G K T R Q L A E D
 UniRef90_F8IDY5 L L H Q Y P T I G I R P L I D D G R R R G G V V R E S L E P I T M Q M A H R
 UniRef90_F3P146 L L H Q Y P T I G I R P L I D D G R R R G G V V R E S L E G Q T M K L A H D
 UniRef90_K1SF10 S L P K I G I R P V I D D G R R R M G V V R E S L E E E Q T M N M A K A
 UniRef90_M9DAY0 K K P L I A I R P V I D D G R R R G V V R E S L E E E Q T M N M A K T
 UniRef90_D0YS06 P K I G I R V V V D D G R R N G V V R E K L E A P T F A L A Q K
 UniRef90_E2ZFZO P K I G I R V V V D D G R R N G V V R E K L E A P T F A L A Q K
 UniRef90_UPI0002D509DD S R L I G E Y P V I G I R P T I D A R R G V V R G S L E E E Q T M T M A K S
 UniRef90_T0CTP9 M G K H P V I A I R P L I D D G R R R R G V V R E S L E E D K T T M L M A H T
 UniRef90_X4R8Q5 M G K H P V I A I R P L I D D G R R R R G V V R E S L E E D K T T M L M A H T

QUERY	50	60	70	80
UniRef90_B8CWP4	V A N F L E E E N L V	F Y Y N N G G T E P	V E Q Q C C V I A D	T T T C C I G G G
UniRef90_C6CWF9	V A N F L I A E E N L	R Y P N S G L G T E	P V V Q Q C C V I A	D T T T C C I G G
UniRef90_S0EW00	T A Q F L I A E E N L	R H Y P N S G L G T	P V V Q Q C C V I A	D T T T C C I G G
UniRef90_L1QNV8	V A V L Y S S E S T L L	R Y P N S G L G T E	P V V E E E E V I A	S D T T T I G G G
UniRef90_I014U2	V A R F L I S S E N L L	R R H Y N N G L G L	P V V E E E E V I A	S D T T T I G G G
UniRef90_UPI00036D8FFB	A A Q F L I S S E N L L	R R H Y N N G L G L	P V V E E E E V I A	S D T T T I G G G
UniRef90_UPI00036E4EF6	V E K L L Y S R E N L L	R Y S P D G G S L G	P V V E E E E V I A	A D S T S C C I G G G
UniRef90_D3EM02	T A R L L E S T E N L L	R H S P N G G L G L	P V V E E E E V I A	A D S T S C C I G G G
UniRef90_B5YC67	V A E F L I T E N N L V	L Y L P N G G L G L	K V V K E E E V I A	P D Q R S C C C I G G
UniRef90_R9H2V6	A A K Y L T E N N L K	H A D G G T S V V E	E E E E E V I A	A D S C C C I G G G
UniRef90_UPI00037F1581	V A A L Y Q S T E N L L	R Y T D G G T P V V	Q Q C C V I A	A D S Q S T C C I G G
UniRef90_G5H5K9	V A E L L I T A E L L R	Y P D G G S A K V	E E E E E V I A	A E T T T C C I G G G
UniRef90_W4BVC5	V A E L L I T A E L L R	Y P D G G S A K V	E E E E E V I A	A E T T T C C I G G G
UniRef90_UPI000475DA1A	A A K L I R E T N L K	R F N G G Q S K V	E E E E E V I A	A D T T T I G G G
UniRef90_UPI000362A153	V A E L I R S E N N L L	R K N G D G S A V	E E E E E V I A	A D T T T I G G G
UniRef90_UPI0002EF8BD9	V A Q L I S E T L K Y	P N G G S A V E E	Q Q C C V I A	A D T T T I G G G
UniRef90_UPI000366EB93	T A A F L T D D N L R	Y S P D G G T P V	E E E E E V I A	A D T T T I G G G
UniRef90_C6JJZ1	A A K L F T D N L R Y	S D G G T P V E E	E E E E V I A	A D T T T I G G G
UniRef90_S6EG66	V A Q L L E S H I R R	H S D G G S F V E	E E E E V I A	A D S T S C C I G G G
UniRef90_G0GEM3	A A R L L E S E N N L	R H P N N G A P V	E E E E V I A	A D T T T I G G G
UniRef90_UPI00036261F7	V A Q L L S E N N M Y	N N G A P I E E T	V I A	A D T T T I G G G
UniRef90_M5RU47	V K T L L S T E N L V	R Y S P N G G D P	V E E E E V I A	A N P C C I G G G
UniRef90_R7EMR5	V A E L L Y S E T L R	R H S P N G G L P	V E E E E V I A	A D T T T I G G G
UniRef90_UPI000477E198	A A R L L E S E N L L	V Y P D G G T P V	E E E E V I A	S D S T T I G G G
UniRef90_S0FMN6	A A R L L E S E N L L	V Y P D G G T P V	E E E E V I A	S D S T T I G G G
UniRef90_F8F2B5	A A A L I Q S S K L K	R H P S G G M P V	E E E E V I A	A D T T T I G G G
UniRef90_U2UMD9	L A E L I S E E N L K	H H P S G G E P V	E E E E V I A	A D T T T I G G G
UniRef90_A6D1C2	L A A F I S E E N L K	H V C G G T A V	E E E E V I A	A D S T T I G G G
UniRef90_D4LJR3	A A K L F E S E N L K	Y S N G G E P V	E E E E V I A	A D T T T I G G G
UniRef90_A5M8L7	V A D L I S E E S T L	K Y P N G G E P V	E E E E V I A	S P S T T I G G G
UniRef90_D5U660	A A K L I S E E N L K	H P S G G E K V	E E E E V I A	S D S T T I G G G
UniRef90_W4EQ32	V A K L L E S E N L S	Y Y N G G Q P V	E E E E V I A	A D S T S C C I G G G
UniRef90_I6XVT6	V A A L Y E A E L R Y	I D G N P V E E	E E E E V I A	A D S T S C C I G G G
UniRef90_R6P4I7	A K E L I S E S E I R	Y P D G G T P M	K E E E V I A	S D S T T I G G G
UniRef90_B5JDH6	V A A F L A S D S L R	Y S P D G G S A V	E E E E V I A	A P S C C I G G G
UniRef90_UPI00046F3C1E	A R E L L A S N I R Y	S N G D P V E Q	V V I A	A D G S T I G G G
UniRef90_G8UJM8	V V K L T A K T L Q	Y P D G G T P V	A E E E V I A	A D S T T I G G G
UniRef90_K0YXW1	V A K L F S E E N L R	Y T D G G T P V	E E E E V I A	A D T T T I G G G
UniRef90_W4QI84	V L T F L Q E E N L R	H Y P N G A P V	E E E E V I A	A D T T T I G G G
UniRef90_UPI0003F91734	T A D L L T A N L R R	A N G K P V E E	E E E E V I A	A D T T T I G G G
UniRef90_I6Y5W7	T A D L I Q N T L R	Y S D G G M P V	E E E E V I A	A D T T T I G G G
UniRef90_U1GNA5	A K E L L E Q N V R	Y T N G G E P V	E E E E V I A	A D S T T I G G G
UniRef90_E8LLY8	A A K L I S E E N L R	Y S N G G E P V	E E E E V I A	A D T T T I G G G
UniRef90_R5C7T1	V A N L I S E A N V K	N G D G S P V E	Q Q C C V I A	A D S T T I G G G
UniRef90_UPI0004728209	V A K L I E S S K L K	Y P N G G S P V	E E E E V I A	A D A T T I G G G
UniRef90_G2Z8W1	V A V L L E K T L K Y	P N G G K P V S	R S C C V I A	A D Q T T I G G G
UniRef90_A0A023S640	T A D F L E S T H L R	H P S G G E R V	E E E E V I A	A D S T T I G G G
UniRef90_C7T7P3	V A K L L E S T L K Y	P D G G S P V S	Q T V I A	A D S T T I G G G
UniRef90_R6X0A5	V A D L I S E T N L K	N G D G S P V E	E E E E V I A	A D S T T I G G G
UniRef90_X8GRE7	A K K L F E E D K L F	Y A D G G S K V	E E E E V I A	S D C C C I G G G
UniRef90_R6HXF8	A K K L I E E N V R	Y S D G G T P F	E E E E V I A	S P C C T I G G G
UniRef90_R6EEG7	V A M L Y S E E R L R	Y S D G G T P A	Q E E E V I A	A D T T T I G G G
UniRef90_G8QU00	A A K L I S D N V R	Y S N G G K V E	E E E E V I A	A D T T T I G G G
UniRef90_UPI000418D35B	V A E L V T A T L R H	H P T G D P V E	E E E E V I A	A D T T T I G G G
UniRef90_B6VMR0	T A N L L T Q H I C	H T C G T P V E	E E E E V I A	A D S C C I G G G
UniRef90_R5C412	A K E L I Q E G Q L L	R Y P N G G P V	E E E E V I A	A D T T T I G G G
UniRef90_B9Y914	A K A L I E A N L T Y	S N G G T P V E	E E E E V I A	A D S T T I G G G
UniRef90_H3NGE4	A A E L I R S E V L K	Y S N G G D P V	E E E E V I A	F D S T T I G G G
UniRef90_R6TJG3	A K S L F E S E L R C	S N G G E P V E	K V V I A	S D S T T I G G G
UniRef90_UPI00037EBCCD	V A R L L S E S Q L R	H Y S D G G S P V	E E E E V I A	A S T T T C C I G G G
UniRef90_B2UN39	A A A L I S E A N I R	H A S G G E P V	E E E E V I A	A D T T T I G G G
UniRef90_R6QHV4	A A K L I E E N V Y	C Y P D G G T P V	E E E E V I A	S N T T T I G G G
UniRef90_R5ICG7	A K K L F E E E N L Y	Y S N G G E P V	K V V V M A	A D T S T I G G G
UniRef90_F4GKI0	A A A L L T E E N L R	Y N D G G T P V	E E E E V I A	A D S T T I G G G
UniRef90_N1HH01	T A A L L T E T E R H	A A C G G A Q V	E E E E V I A	A D T T T I G G G
UniRef90_UPI00036AF779	A A Q V I T E H L R	Y P D G G S P V	E E E E V I A	A D T T T I G G G
UniRef90_UPI000479F4BC	A A K L I T E E N L R	F P S G G E K V	E E E E V I A	A D T N T I G G G
UniRef90_UPI00037AE05A	A A D L I T K N L R Y	L D G G S P V E	E E E E V I A	A E T T T I G G G
UniRef90_U2TCE4	A K R L I E S E L R F	L D G G S P V E	E E E E V I A	S P C C T I G G G
UniRef90_R5GXL0	A A E L I S S K V R H	A S G G E P M E	E E E E V I A	A D T T T I G G G
UniRef90_UPI0002FAEA5F	A K E L I E S N L R Y	A D G G T P V E	E E E E V I A	S N T T T I G G G
UniRef90_G7RZW4	A K D L I E S N L R Y	A D G G T P V E	E E E E V I A	S N T T T I G G G
UniRef90_R6MLV4	A K E L I E S N V H	Y Q D G G T P V	E E E E V I A	S P C C T I G G G
UniRef90_U2KD09	A Q K L I E S R L R	H Y P D G G T K	V E E E V I A	A D T T T I G G G
UniRef90_U1QFV9	V A E L L Q S H I R	R Y T D G G T F	V E E E V I A	A D T C C I G G G
UniRef90_C0EDQ6	A A D L I S S E L R Y	A D G G S P V E	E E E E V I A	S D S T T I G G G
UniRef90_I6RYL4	A K E L V E S S E L R	H Y M D G G T P	V E E E V I A	P E Q T T I G G G
UniRef90_A9HPK3	T A A F L T S E L R Y	A A G G E A V E	E E E E V I A	A D T C C I G G G
UniRef90_G1WHZ1	A K E L I E S S L R Y	A D G G Q P V E	E E E E V I A	S R T T T I G G G
UniRef90_R6N7M6	A A D L I S S S I C	Y A D G G S P V	E E E E V I A	N P C C C I G G G
UniRef90_Q2NWL9	T A A L I S T R L R H	A A C G G T P V	E E E E V I A	A E Q C C I G G G
UniRef90_UPI0004249842	V A E L I S S R L T Y	P D G G S P V E	R C C V I A	A Q T S T I G G G
UniRef90_F8IDY5	V G E L L R T H V	R K P D G G S P	V E E E T V I A	P D F T C I G G G
UniRef90_F3P146	V A K L I E S T V V	Y Y H A D G S P	V E E E T V I A	S K T T I G G G
UniRef90_K1SF10	T A A L L T E E K L R	H A C G G A V E	E E E E V I A	S D T C C I G G G
UniRef90_M9DAY0	A A A L I S T E N L L	K R H A C G G A	V E E E V I A	S D T C C I G G G
UniRef90_D0YS06	A A K L I T E E N L L	K Y T D G G T P	V E E E V I A	A D R T T I G G G
UniRef90_E2ZFZO	A K E L L E S H V	F H A D G Q P L	E E E E V I A	G S V G V I G G G
UniRef90_UPI0002D509DD	A A K L F E E N L K	Y S N G E P V	K V V V I A	A D T T T I G R V
UniRef90_T0CTP9	A A D L I T R N L T	Y T D G T S V	Q C C V I A	A D S T T I G R A
UniRef90_X4R8Q5	A A D L I T R N L T	Y T D G T S V	Q C C V I A	A D S T T I G R A

QUERY	90	100	110	120
UniRef90_B8CWP4	RRE	EGV	GVV	SIV
UniRef90_C6CWF9	RE	ENG	VGV	SVS
UniRef90_S0EWF0	RE	ENG	VGV	SVS
UniRef90_L1QNV8	RE	EDV	GLV	SLV
UniRef90_I014U2	RE	EGV	GLV	SLV
UniRef90_UPI00036D8FFB	H	S	N	V
UniRef90_UPI00036E4EF6	K	E	N	V
UniRef90_D3EM02	K	E	N	V
UniRef90_B5YC67	K	E	N	V
UniRef90_R9H2V6	L	N	G	V
UniRef90_UPI00037F1581	T	S	N	V
UniRef90_G5H5K9	K	E	N	V
UniRef90_W4BVC5	R	S	N	V
UniRef90_UPI000475DA1A	R	E	G	V
UniRef90_UPI000362A153	R	E	G	V
UniRef90_UPI0002EF8BD9	Q	H	Q	V
UniRef90_UPI000366EB93	T	E	N	V
UniRef90_C6JJZ1	R	K	N	V
UniRef90_S6EG66	L	E	N	V
UniRef90_G0GEM3	K	E	N	V
UniRef90_UPI00036261F7	K	E	N	V
UniRef90_M5RU47	R	E	N	V
UniRef90_R7EMR5	N	S	G	V
UniRef90_UPI000477E198	R	E	G	V
UniRef90_S0FMM6	K	K	G	V
UniRef90_F8F2B5	R	E	N	V
UniRef90_U2UMD9	D	Q	N	V
UniRef90_A6D1C2	R	E	N	V
UniRef90_D4LJR3	K	E	G	V
UniRef90_A5M8L7	K	E	S	N
UniRef90_D5U660	E	N	N	V
UniRef90_W4EQ32	K	E	G	V
UniRef90_I6XVT6	R	E	N	V
UniRef90_R6P4I7	T	Q	N	V
UniRef90_B5JDH6	E	N	R	V
UniRef90_UPI00046F3C1E	K	M	G	V
UniRef90_G8UJM8	R	E	N	V
UniRef90_K0YXW1	V	N	N	V
UniRef90_W4QI84	R	E	G	V
UniRef90_UPI0003F91734	R	E	N	V
UniRef90_I6YW57	E	N	N	V
UniRef90_U1GNA5	K	A	G	V
UniRef90_E8LLY8	H	A	G	V
UniRef90_R5C7T1	K	C	G	V
UniRef90_UPI0004728209	K	E	N	V
UniRef90_G2Z8W1	K	E	E	V
UniRef90_A0A023S640	A	H	N	V
UniRef90_C7T7P3	R	A	G	V
UniRef90_R6X0A5	R	E	G	V
UniRef90_X8GRE7	R	E	G	V
UniRef90_R6HXF8	T	Q	N	V
UniRef90_R6EEG7	A	E	N	V
UniRef90_G8QU0	K	E	G	V
UniRef90_UPI000418D35B	R	Q	N	V
UniRef90_B6VMR0	T	L	N	V
UniRef90_R5C412	R	E	G	V
UniRef90_B9Y9I4	R	E	N	V
UniRef90_H3NGE4	K	E	G	V
UniRef90_R6TJG3	K	A	G	V
UniRef90_UPI00037EBCCD	L	E	N	V
UniRef90_B2UN39	A	N	N	V
UniRef90_R6QHV4	T	E	N	V
UniRef90_R5ICG7	R	E	G	V
UniRef90_F4GKI0	R	E	N	V
UniRef90_N1HH01	S	Q	N	V
UniRef90_UPI00036AF779	R	E	G	V
UniRef90_UPI000479F4BC	R	E	G	V
UniRef90_UPI00037AE05A	N	Q	N	V
UniRef90_U2TCE4	T	Q	N	V
UniRef90_R5GXL0	T	E	N	V
UniRef90_UPI0002FAEA5F	T	E	N	V
UniRef90_G7RZW4	R	E	N	V
UniRef90_R6MLV4	T	Q	N	V
UniRef90_U2KD09	T	Q	N	V
UniRef90_U1QFV9	L	N	N	V
UniRef90_C0EDQ6	V	N	N	V
UniRef90_I6RYL4	R	Q	D	V
UniRef90_A9HPK3	S	A	H	V
UniRef90_G1WHZ1	D	K	N	V
UniRef90_R6N7M6	T	S	N	V
UniRef90_Q2NWL9	T	C	Q	V
UniRef90_UPI0004249842	T	E	N	V
UniRef90_F8IDY5	S	Q	G	V
UniRef90_F3P146	T	E	N	V
UniRef90_K1SF10	K	C	G	V
UniRef90_M9DAY0	S	Q	N	V
UniRef90_DOYS06	P	F	N	V
UniRef90_E2ZFZ0	Q	E	N	V
UniRef90_UPI0002D509DD	K	E	G	V
UniRef90_T0CTP9	R	E	G	V
UniRef90_X4R8Q5	Q	Y	P	V

QUERY	130	140	150	160
UniRef90_B8CWP4	G A V Y L A A V L K A A G H D Q K K G L L P A F F G P Y Y G R E Q V Q Q D D A G D D D R T S I P P E D D V V K Q			
UniRef90_C6CWF9	G A V Y L A A A T L A A G Y A N Q K K G I L P A F F G G Y Y G G Q Q Q Q D D A A S G D D T T T P P P P P			
UniRef90_S0EW00	G A V Y L A A A T L A A G Y H N Q K K G I L P A F F G G Y Y G K R D D V V V V V V V V V V V V V V V V			
UniRef90_L1QNV8	G A V Y L A A A L S A G H N N Q K K G L L P A F F G G Y Y G K R D D V V V V V V V V V V V V V V V V			
UniRef90_I014U2	G A V Y L A A A V S A A G H N N Q K K G L L P V F F N G Y Y G R E V V Q Q D D A V G N D D T T S I P P P P			
UniRef90_UPI00036D8FFB	G A V Y L A A A L A A G H N N Q K K G L L P A F F G G Y Y G R E V V Q Q D D M N D D P S I P P P P P P P			
UniRef90_UPI00036E4EF6	G A V Y L S A A L A A V H N N Q K K G L L P A F F G G Y Y G R E V V Q Q D D M N D D P S I P P P P P P P			
UniRef90_D3EM02	G A V Y L A A A L G A G H N N Q K K G L L P A F F S Y Y G R K D D V V V V V V V V V V V V V V V V			
UniRef90_B5YC67	G A V Y L A A A V S A A G H N N Q K K G L L P A F F K Y Y G K H D D V V V V V V V V V V V V V V V V			
UniRef90_R9H2V6	G A V Y L A A A L A A G H T Q K K G L L P A F F G Y Y G R H D D V V V V V V V V V V V V V V V V			
UniRef90_UPI00037F1581	G A V Y L A A A T L A A G H N N Q K K G L L P A F F G Y Y G R Q D D A L G D D T T S I P P P P P P P			
UniRef90_G5H5K9	G A V Y L A A A L A A G H N N Q K K G M P A F F G G Y Y G R H D D V V V V V V V V V V V V V V V V			
UniRef90_W4BVC5	G A V Y L A A A V L S A G H A Q K K G L L P A F F G G Y Y G E D D V V V V V V V V V V V V V V V V			
UniRef90_UPI000475DA1A	G A V Y L A A A A L A G S Y S Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_UPI000362A153	G A V Y L A A A V L A S H S Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_UPI0002EF8BD9	G A V Y L A A A V L S A H A Q K K G I L P A F F G G Y Y G K E D D V V V V V V V V V V V V V V V V			
UniRef90_UPI000366EB93	G A V Y L A A A V L S A Y A Q K K G L L P A F F G G Y Y G E D D V V V V V V V V V V V V V V V V			
UniRef90_C6JJZ1	G A V Y L A A A V L A G H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_S6EG66	G A V Y L A A A L A A G H S Q K K G L L P A F F S Y Y G T E V V Q Q D D A Q D D T T S I P P P P P P P			
UniRef90_G0GEM3	G A V Y L A A A V L A A H N N Q K K G L L P A F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_UPI00036261F7	G A V Y L A A A V L A A H N N Q K K G I L P A F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_M5RU47	G A V Y L A A A V L A G H S Q K K G L L P T F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_R7EMR5	G A V Y L A A A L A A G H T Q K K G L L P T F F G G Y Y G Q D D V V V V V V V V V V V V V V V V			
UniRef90_UPI000477E198	G A V Y L A A A L A A G H T Q K K G I L P A F F G G Y Y G Q D D V V V V V V V V V V V V V V V V			
UniRef90_S0FMN6	G A V Y L A A A V M A A H A Q K K G L L P A F F S Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_F8F285	G A V Y L A A A V L A A H N N Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_U2UMD9	G A V Y L A A A L A A G H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_A6D1C2	G A V Y L A A A M A G H S Q K K G L L P A F F S Y Y G Q E V V Q Q D D A D D D T T S I P P P P P P P			
UniRef90_D4LJR3	G A V Y L A A S V L A T H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_A5M8L7	G A V Y L A A A V L A S H A Q K K G I L P A F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_D5U660	G A V Y L A A A A D A G H T Q K K G L L P V F F S Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_W4EQ32	G A V Y L A A A V L A A G Y N Q K K G L L P A Y F G G Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_I6XVT6	G A V Y L A A A L A A G H T Q K K G I L P A F F G G Y Y G E H D D V V V V V V V V V V V V V V V V			
UniRef90_R6P4I7	G A V Y L A A A V M A A H N Q R K G L L P A F F S Y Y G H D D V V V V V V V V V V V V V V V V			
UniRef90_B5JDH6	G A V Y L A A A T L A A H V Q K K G L L P A F F G G Y Y G K E V V Q Q D D A G Q D A S I P P P P P P P			
UniRef90_UPI00046F3C1E	G A V Y L A S V L A A A H A Q K K G I L P A F F G G Y Y G K E V V Q Q D A Q D A K D S I P P P P P P P			
UniRef90_G8UJM8	G A V Y L A A A V L A A H A Q K K G L L P A F F G G Y Y G H H E V V Q Q D D A D A K D S I P P P P P P P			
UniRef90_K0YXW1	G A V Y L A A A L A A G H A Q K K G I L P A F F G G Y Y G K D D D D D N S I P P P P P P P P P P P			
UniRef90_W4QI84	G A V Y L A A A T A A G H N Q K K G L L P V F F N Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_UPI0003F91734	G A V Y L A A A V L S A H N Q K K G L L P A F F G G Y Y G H H E V V Q Q D R A D D T S I P P P P P P P			
UniRef90_I6YW57	G A V Y L A A A L A A G Y N Q K K G V P A F F G G Y Y G K S T V V Q K F D D D K T S I P P P P P P P			
UniRef90_U1GNA5	G A V Y L A S V L A G Y A R K K G L L P A F F G G Y Y G S T V V Q K F D D D K T S I P P P P P P P			
UniRef90_E8LLY8	G A V Y L A A V L A G Y A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_R5C7T1	G A V Y L A A A V L A A H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_UPI0004728209	G A V Y L A A A V L A A H N Q K K G I L P A F F G G Y Y G D Q I Q D D L E N D D T T S I P P P P P P P			
UniRef90_G2Z8W1	G A V Y L A A A V L S A F A Q K K G I L P A F F G G Y Y G R D I V Q Q D A D D T T T S I P P P P P P P			
UniRef90_A0A023S640	G A V Y L A A A L A A G H T Q K K G L L P A F F S Y Y G Q D D V V V V V V V V V V V V V V V V			
UniRef90_C7T7P3	G A V Y L A A A V L A A G H T Q K K G I L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_R6X0A5	G A V Y L A A A V L A A H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_X8GRE7	G A V Y L A S V L A T H A A Q K K G L L P A F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_R6HXF8	G A V Y L A A A V M A A H A Q R G L L P A F F G G Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_R6EEG7	G A V Y L A S A L A A G H N Q K K G L L P A F F G G Y Y G G E V V Q Q D D L G M E T T S I P P P P P P P			
UniRef90_G8QU00	G A V Y L A A A V L A A H T Q K K G L L P A F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_UPI000418D35B	G A V Y L A A A V L A A H N Q K K G L L P A F F G G Y Y G S E V V R D S S D R T S I P P P P P P P			
UniRef90_B6VMR0	G A V Y L A A A L A A H A Q K K G I L P A F F S Y Y G H H E V V Q Q D T D D P H I P P P P P P P			
UniRef90_R5C412	G A V F L A A A V L A A V H G Q K K G L L P A F F G G Y Y G R N V V Q Q D D C D D T D R S I P P P P P P P			
UniRef90_B9Y9I4	G A V Y L A A A V M A A H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_H3NGE4	G A V Y L A A A V L A A H A Q K K G L L P A F F G G Y Y G Q D D V V V V V V V V V V V V V V V V			
UniRef90_R6TJG3	G A V Y L A S V L A T H A A Q K K G L L P A F F G G Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_UPI00037EBCCD	G A V Y L A A A L A A H N Q K K G L L P A F F G G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_B2UN39	G A V Y L A A A L A A G L N Q K K G F P A F F S Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_R6QHV4	G A V Y L A A A V M A A Y A Q K K G M P A F F S Y Y G H H E V V Q Q E K R D D S T E I P P P P P P P			
UniRef90_R5ICG7	G A V Y L A S V L A T H A Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_F4GKI0	G A V Y L A A A V L A A H S Q K K G L L P A F F G G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_N1HH01	G A V Y L A A A L A A H S Q K K G I L P A F F S Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_UPI00036AF779	G A V Y L A A A L H A A H N Q K K G L L P A F F K Y Y G R H V Q Q D L E E R E M P P P P P P P			
UniRef90_UPI000479F4BC	G A V Y L A A A L A G Y A Q K K G L L P A F F S Y Y G R E V V Q Q D T G D T E I H P P P P P P P			
UniRef90_UPI00037AE05A	G A V T L A A A N L A A Y A Q Y G L L P A F F S Y Y G H H E V V Q Q D A D D D E I P P P P P P P			
UniRef90_U2TCE4	G A V Y L A A A V M A A Y A Q R G L L P A F F S Y Y G H H E V V Q Q E K E D R E I P P P P P P P			
UniRef90_R5GXL0	G A V F L A A A N S A Y A Q I G M P C Y F S I Y Y G H H E V V K D A D D A V I P P P P P P P			
UniRef90_UPI0002FAEA5F	G A V Y L A A A V M S A Y A Q R K G Y P A F F S Y Y G S E V V Q Q E A D D D N S T T I P P P P P P P			
UniRef90_G7RZW4	G A V Y L A A A M S G Y A Q K G Y P A F F K Y Y G H H E V V Q Q D L D D D N S T T I P P P P P P P			
UniRef90_R6MLV4	G A V Y L A A A V M A A F A Q R G L L P A F F S M Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_U2KD09	G A V Y L A A A C M A A H A Q R K G L L P A F A S I Y Y G K T E V V Q Q D K W N D T T I P P P P P P P			
UniRef90_U1QFV9	G A V Y L A A A L A A G H S Q K K G L L P A F F S Y Y G T E V V Q Q E A S D N S T T I P P P P P P P			
UniRef90_C0EDQ6	G A V Y L A A A V L A A H A Q K K G L L P A F F S Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_I6RYL4	G A V Y L A A A M S G Y A Q K K G I P A F Y S Y Y G E Q V V Q Q D S D D K S I P P P P P P P			
UniRef90_A9HPK3	G A V Y L A A A L A A H N Q K K G L L P A F S Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_G1WHZ1	G A V Y L A A A M A A H A Q C G L P A F F K Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_R6N7M6	G A V Y L A A A K S S G N Q Y G L L P I F S Y Y G K D D V V V V V V V V V V V V V V V V			
UniRef90_Q2NWL9	G A V Y L A A A L A A H N Q K K G L L P A F F S Y Y G R E V V Q Q D A G D H A I P P P P P P P			
UniRef90_UPI0004249842	G A V T L A A A A A A Y N M M G I P C F G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_F8IDY5	G A V Y L S A A V A A L S T L G I V V F A Y Y G S D V V Q Q D V N S A S T P P P P P P P			
UniRef90_F3P146	G A V T L A A A T A A L N M K L G V S C F G Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_K1SF10	G A V Y L A S V L A T H A Q K K G L L P A F F G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_M9DAY0	G A V Y L A A A L A A H S Q K K G I P A F F S Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_D0YS06	G A V T L A A A M A A Y A Q K G I P A F F G Y Y G E H V Q Q D A D D D T S I P P P P P P P			
UniRef90_E2ZFZ0	G S V Y L A A A V A V A E Q K G V P I F K Y Y G Q D V V Q Q D A D D D I S V I P P P P P P P			
UniRef90_UPI0002D509DD	G A V Y L A A A A S A H N Q K K G L L P V F N Y Y G R D D V V V V V V V V V V V V V V V V			
UniRef90_T0CTP9	G A V Y L A S V L A T H A Q K K G L L P A F F G Y Y G H H D D V V V V V V V V V V V V V V V V			
UniRef90_X4R8Q5	G A V T L A A A M A A Y A Q F G I P A F G Y Y G H H D D V V V V V V V V V V V V V V V V			

QUERY UniRef90_B8CWP4 UniRef90_C6CWF9 UniRef90_S0EW00 UniRef90_L1QNV8 UniRef90_I014U2 UniRef90_UPI00036D8FFB UniRef90_UPI00036E4EF6 UniRef90_D3EM02 UniRef90_B5YC67 UniRef90_R9H2V6 UniRef90_UPI00037F1581 UniRef90_G5H5K9 UniRef90_W4BVC5 UniRef90_UPI000475DA1A UniRef90_UPI000362A153 UniRef90_UPI0002EF8BD9 UniRef90_UPI000366EB93 UniRef90_C6JJZ1 UniRef90_S6EG66 UniRef90_GOGEM3 UniRef90_UPI00036261F7 UniRef90_M5RU47 UniRef90_R7EMR5 UniRef90_UPI000477E198 UniRef90_S0FMN6 UniRef90_F8F2B5 UniRef90_U2UMD9 UniRef90_A6D1C2 UniRef90_D4LJR3 UniRef90_A5M8L7 UniRef90_D5U660 UniRef90_W4EQ32 UniRef90_I6XVT6 UniRef90_R6P4I7 UniRef90_B5JDH6 UniRef90_UPI00046F3C1E UniRef90_G8UJM8 UniRef90_K0YXW1 UniRef90_W4QI84 UniRef90_UPI0003F91734 UniRef90_I6YW57 UniRef90_U1GNA5 UniRef90_E8LLY8 UniRef90_R5C7T1 UniRef90_UPI0004728209 UniRef90_G2Z8W1 UniRef90_A0A023S640 UniRef90_C7T7P3 UniRef90_R6X0A5 UniRef90_X8GRE7 UniRef90_R6HXF8 UniRef90_R6EEG7 UniRef90_G8QU00 UniRef90_UPI000418D35B UniRef90_B6VMR0 UniRef90_R5C412 UniRef90_B9Y9I4 UniRef90_H3NGE4 UniRef90_R6TJG3 UniRef90_UPI00037EBCCD UniRef90_B2UN39 UniRef90_R6QHV4 UniRef90_R5ICG7 UniRef90_F4GKI0 UniRef90_N1HH01 UniRef90_UPI00036AF779 UniRef90_UPI000479F4BC UniRef90_UPI00037AE05A UniRef90_U2TCE4 UniRef90_R5GXL0 UniRef90_UPI0002FAEA5F UniRef90_G7RZW4 UniRef90_R6MLV4 UniRef90_U2KD09 UniRef90_U1QFV9 UniRef90_C0EDQ6 UniRef90_I6RYL4 UniRef90_A9HPK3 UniRef90_G1WHZ1 UniRef90_R6N7M6 UniRef90_Q2NWL9 UniRef90_UPI0004249842 UniRef90_F8IDY5 UniRef90_UPI00037P146 UniRef90_K1SF10 UniRef90_M9DAY0 UniRef90_D0YS06 UniRef90_E2ZFZ0 UniRef90_UPI0002D509DD UniRef90_T0CTP9 UniRef90_X4R8Q5

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

QUERY	210	220	230	240
UniRef90_B8CWP4	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_C6CWF9	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_S0EW00	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_L1QNV8	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_I014U2	LKERWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00036D8FFB	LKERWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00036E4EF6	LKERWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_D3EM02	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_B5YC67	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R9H2V6	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00037F1581	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G5H5K9	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_W4BVC5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI000475DA1A	LQDQYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI000362A153	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI0002EF8BD9	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI000366EB93	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_C6JJZ1	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_S6EG66	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G0GEM3	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00036261F7	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_M5RU47	WEKWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R7EMR5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI000477E198	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_S0FMN6	LQKQYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_F8F2B5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_U2UMD9	LQDQYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_A6D1C2	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_D4LJR3	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_A5M8L7	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_D5U660	LQDQYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_W4EQ32	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_I6XVT6	WEKWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6P4I7	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_B5JDH6	WEKWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00046F3C1E	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G8UJM8	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_K0YXW1	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_W4QI84	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI0003F91734	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_I6YW57	LQDQYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_U1GNA5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_E8LLY8	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R5C7T1	MQKEYL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI0004728209	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G2Z8W1	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_A0A023S640	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_C7T7P3	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6X0A5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_X8GRE7	WEKWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6HXF8	WEKWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6EEG7	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G8QU00	LQSYL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI000418D35B	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_B6VMR0	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R5C412	MQKEYL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_B9Y9I4	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_H3NGE4	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6TJG3	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00037EBCCD	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_B2UN39	WEKWL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6QHV4	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R5ICG7	MEEYLL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_F4GKI0	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_N1HH01	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00036AF779	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI000479F4BC	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI00037AE05A	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_U2TCE4	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R5GXL0	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI0002FAEA5F	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G7RZW4	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6MLV4	MQKEYL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_U2KD09	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_U1QFV9	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_C0EDQ6	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_I6RYL4	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_A9HPK3	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_G1WHZ1	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_R6N7M6	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_Q2NWL9	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI0004249842	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_F8IDY5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_F3P146	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_K1SF10	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_M9DAY0	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_DOYS06	MEDSYL	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_E2ZFZ0	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_UPI0002D509DD	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_T0CTP9	LQKEYF	LVGMRNNEY	VVDMSSE	FFVIRRR
UniRef90_X4R8Q5	FQNEY	LVGMRNNEY	VVDMSSE	FFVIRRR

QUERY
UniRef90_B8CWP4
UniRef90_C6CWF9
UniRef90_S0EWO0
UniRef90_L1QNV8
UniRef90_I014U2
UniRef90_UPI00036D8FFB
UniRef90_UPI00036E4EF6
UniRef90_D3EM02
UniRef90_B5YC67
UniRef90_R9H2V6
UniRef90_UPI00037F1581
UniRef90_G5H5K9
UniRef90_W4BVC5
UniRef90_UPI000475DA1A
UniRef90_UPI000362A153
UniRef90_UPI0002EF8BD9
UniRef90_UPI000366EB93
UniRef90_C6JZ1
UniRef90_S6EG66
UniRef90_G0GEM3
UniRef90_UPI00036261F7
UniRef90_M5RU47
UniRef90_R7EMR5
UniRef90_UPI000477E198
UniRef90_S0FMM6
UniRef90_F8F2B5
UniRef90_U2UMD9
UniRef90_A6D1C2
UniRef90_D4LJR3
UniRef90_A5M8L7
UniRef90_D5U660
UniRef90_W4EQ32
UniRef90_I6XVT6
UniRef90_R6P4I7
UniRef90_B5JDH6
UniRef90_UPI00046F3C1E
UniRef90_G8UJM8
UniRef90_K0YXW1
UniRef90_W4QI84
UniRef90_UPI0003F91734
UniRef90_I6YW57
UniRef90_U1GNA5
UniRef90_E8LLY8
UniRef90_R5C7T1
UniRef90_UPI0004728209
UniRef90_G2Z8W1
UniRef90_A0A023S640
UniRef90_C7T7P3
UniRef90_R6X0A5
UniRef90_X8GRE7
UniRef90_R6HXF8
UniRef90_R6EEG7
UniRef90_G8QU0
UniRef90_UPI000418D35B
UniRef90_B6VMR0
UniRef90_R5C412
UniRef90_B9Y9I4
UniRef90_H3NGE4
UniRef90_R6TJG3
UniRef90_UPI00037EBCCD
UniRef90_B2UN39
UniRef90_R6QHV4
UniRef90_R5ICG7
UniRef90_F4GKI0
UniRef90_N1HH01
UniRef90_UPI00036AF779
UniRef90_UPI000479F4BC
UniRef90_UPI00037AE05A
UniRef90_U2TCE4
UniRef90_R5GXL0
UniRef90_UPI0002FAEA5F
UniRef90_G7RZW4
UniRef90_R6MLV4
UniRef90_U2KD09
UniRef90_U1QFV9
UniRef90_C0EDQ6
UniRef90_I6RYL4
UniRef90_A9HPK3
UniRef90_G1WHZ1
UniRef90_R6N7M6
UniRef90_Q2NWL9
UniRef90_UPI0004249842
UniRef90_F8IDY5
UniRef90_F3P146
UniRef90_K1SF10
UniRef90_M9DAY0
UniRef90_D0YS06
UniRef90_E2ZFZ0
UniRef90_UPI0002D509DD
UniRef90_T0CTP9
UniRef90_X4R8Q5

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

QUERY UniRef90_B8CWP4 UniRef90_C6CWF9 UniRef90_S0EWF0 UniRef90_L1QNV8 UniRef90_I0I4U2 UniRef90_UPI00036D8FFB UniRef90_UPI00036E4EF6 UniRef90_D3EM02 UniRef90_B5YC67 UniRef90_R9H2V6 UniRef90_UPI00037F1581 UniRef90_G5H5K9 UniRef90_W4BVC5 UniRef90_UPI000475DA1A UniRef90_UPI000362A153 UniRef90_UPI0002EF8BD9 UniRef90_UPI000366EB93 UniRef90_C6JJZ1 UniRef90_S6EG66 UniRef90_G0GEM3 UniRef90_UPI00036261F7 UniRef90_M5RU47 UniRef90_R7EMR5 UniRef90_UPI000477E198 UniRef90_S0FMN6 UniRef90_F8F2B5 UniRef90_U2UMD9 UniRef90_A6D1C2 UniRef90_D4LJR3 UniRef90_A5M8L7 UniRef90_D5U660 UniRef90_W4EQ32 UniRef90_I6XVT6 UniRef90_R6P4I7 UniRef90_B5JDH6 UniRef90_UPI00046F3C1E UniRef90_G8UJM8 UniRef90_K0YXW1 UniRef90_W4QI84 UniRef90_UPI0003F91734 UniRef90_I6YW57 UniRef90_U1GNA5 UniRef90_E8LLY8 UniRef90_R5C7T1 UniRef90_UPI0004728209 UniRef90_G2Z8W1 UniRef90_A0A023S640 UniRef90_C7T7P3 UniRef90_R6X0A5 UniRef90_X8GRE7 UniRef90_R6HXF8 UniRef90_R6EEG7 UniRef90_G8QU00 UniRef90_UPI000418D35B UniRef90_B6VMR0 UniRef90_R5C412 UniRef90_B9Y9I4 UniRef90_H3NGE4 UniRef90_R6TJG3 UniRef90_UPI00037EBCCD UniRef90_B2UN39 UniRef90_R6QHV4 UniRef90_R5ICG7 UniRef90_F4GKI0 UniRef90_N1HH01 UniRef90_UPI00036AF779 UniRef90_UPI000479F4BC UniRef90_UPI00037AE05A UniRef90_U2TCE4 UniRef90_R5GXL0 UniRef90_UPI0002FAEA5F UniRef90_G7RZW4 UniRef90_R6MLV4 UniRef90_U2KD09 UniRef90_U1QFV9 UniRef90_C0EDQ6 UniRef90_I6RYL4 UniRef90_A9HPK3 UniRef90_G1WHZ1 UniRef90_R6N7M6 UniRef90_Q2NWL9 UniRef90_UPI0004249842 UniRef90_F8IDY5 UniRef90_F3P146 UniRef90_K1SF10 UniRef90_M9DAY0 UniRef90_D0YS06 UniRef90_E2ZFZ0 UniRef90_UPI0002D509DD UniRef90_T0CTP9 UniRef90_X4R8Q5

290 300 310 320

N K K L E E M G Y G E E A M G H N A I V A G F Q Q G Q R Q Q W T D H F P N G D F F M E
UniRef90_B8CWP4 N P R L A E E L G F G E E A M G H N A I V V S G F Q Q G Q R Q Q W T D H F P N G D F F M E
UniRef90_C6CWF9 N P R L A E E L G F G E E A M G H N A I V V S G F Q Q G Q R Q Q W T D H F P N G D F F M E
UniRef90_S0EWF0 N P R L A S L G F A E E S E G H N A I V A G F Q Q G Q R Q H W T D Y M P N G D F F M E
UniRef90_L1QNV8 N P K L R E M G F G E E A L G H N A I C A G G F Q Q G Q R Q Q W T D F L P N G D F F T E
UniRef90_I0I4U2 N K K L R A D M G Y G E E A L G H N A I A G G F Q Q G Q R Q Q W T D H F P N G D F F M E
UniRef90_UPI00036D8FFB N P V L D T M G Y G E E A L G H N A I A G G F Q Q G Q R Q Q W T D F L P N G D F F S E
UniRef90_UPI00036E4EF6 N P K L A A M G Y G E E S L G R H N A I A A G F Q Q G Q R A W T D Y F P T G D F F T E
UniRef90_D3EM02 N K K L E E L G Y P E E S L G H N A I V A G F Q Q G Q R A W T D H F P N G D F F T E
UniRef90_B5YC67 N P V L D D L G F G E E A L G H N A I I S G F Q Q G Q R Q Q W T D H F P N G D F F L E
UniRef90_R9H2V6 N P K L K E K G F G E E A F G H D A I V S G F Q Q G Q R Q Q W T D F L P N G D F F A E
UniRef90_UPI00037F1581 N P K L R E L G F K E E A L G H N A I V S G F Q Q G Q R Q Q W T D H L P N G D F F A E
UniRef90_G5H5K9 N P R L A E L G F T E E S M G H H A I V S G F Q Q G Q R Q Q W T D H S P N G D F F L E
UniRef90_W4BVC5 N P K L K E M G F G E E S H G R N A I V S G F Q Q G Q R Q Q W T D Y F L P N G D F F S E
UniRef90_UPI000475DA1A N P K L E A M G F K E E A L G H N A I F G G F Q Q G Q R Q Q W T D F L P N G D F F S E
UniRef90_UPI000362A153 N P K L A E L G Y E E E A E G H F A I A T G F Q Q G Q R Q Q W T D F Y P N G D F F T E
UniRef90_UPI0002EF8BD9 N P R L A E L G F E E E A G G H F A I A G G F Q Q G Q R H W T D H F P N G D F F M E
UniRef90_UPI000366EB93 N P R L P E G C E E E R C G H N A I A A G F Q Q G Q R Q W T D F Y P N G D Y A M E
UniRef90_C6JJZ1 N E K L A T L N Y G E E A L G H N A I A A G F Q Q G Q R H W T D H M P N G D F F M E
UniRef90_S6EG66 N P V L R E S G W E E E S L G H H A I L A G F Q Q G Q R Q W T D Y F P N G D F F L E
UniRef90_G0GEM3 N P K L A E L G Y E E E A M G R N A I A S G F Q Q G Q R Q W T D H F P N G D F F M E
UniRef90_UPI00036261F7 N P R L A E M G L G E Q A M G H Q A I A S G F Q Q G Q R Q Q W T D H F P N G D F F L E
UniRef90_M5RU47 N P K L A E M G F K E E S M G H N A I A A G F Q Q G Q R Q Q W T D Y K P N G D G F S E
UniRef90_R7EMR5 N P R L A E R G H G E E A L G H N A I L A A G F Q Q G Q R Q Q W T D F M P N G D M M E
UniRef90_UPI000477E198 N P V L D E M G F H E E A M G R N A I L G G F Q Q G Q R M W T D W L P N G D F F T E
UniRef90_S0FMN6 N S D L K R K G L Y E E A L G H N A I L A G F Q Q G Q R H W T D H F P N G D F F L E
UniRef90_F8F2B5 N P K L A E M G F V E E S E G H N A I V S G F Q Q G Q R Q W T D F M P N G D F F S E
UniRef90_U2UMD9 N P K L A Q L G F G E E A M G H N A I V V G G F Q Q G Q R H W T D H L P N G D F F S E
UniRef90_A6D1C2 C D N L A P E F S E E A L G H N A I L A A G F Q Q G Q R Q W T D F Y P N G D F F M E
UniRef90_D4LJR3 N P R L A E L G F V E G R S S W S P C F S S W F P R R S T S V D R P F P N G D F F M E
UniRef90_A5M8L7 N P K L A E M G Y I E E A Q G H N A I V G G F Q Q G Q R H W T D F M P N G D F F A E
UniRef90_D5U660 N D K I A A K G W E E E A L G R N A I L A G F Q Q G Q R Q W T D H F P N G D F F M E
UniRef90_W4EQ32 N P R L T E K G W G E E A L G R G A I L A G F Q Q G Q R Q W T D G F P N G D L M E
UniRef90_I6XVT6 N P K L A E M G W E E E S M G R N G I L G G F Q Q G Q R M W S D W Q P N G D F F T E
UniRef90_R6P4I7 N P R L K E I G F P E Q S Q G H G A I A G G F Q Q G Q R Q W T D Y F P N G D F F L E
UniRef90_B5JDH6 N P N L G Q E F G E E M L G H N A I A G G F Q Q G Q R Q W T D Y Y P N T D F F A E
UniRef90_UPI00046F3C1E N P K L K S L G F G E E A L G H H A I V A G F Q Q G Q R Q Q W T D F Y P N G D F F T E
UniRef90_G8UJM8 N P R L A E L G F G E E A G G H G A I A A G F Q Q G Q R Q W T D H F P N G D V M S E
UniRef90_K0YXW1 N E K L A Q K G F L E E A K G H N A I A A G F Q Q G Q R A W T D F M P N G D V S E
UniRef90_W4QI84 N P V L A E M G Y H E E S K G H N A I A A G F Q Q G Q R H W T D F M P N G D F F M E
UniRef90_UPI0003F91734 N P K L A E L G F G E E A L G H N A I A A G F Q Q G Q R Q W T D F M P N G D F F L E
UniRef90_I6YW57 N P K L R E L G W S E E A L G H N A I A A G F Q Q G Q R Q W T D F P N D T D F P E
UniRef90_U1GNA5 N P N L P E G R E E E A V G F N A I A G G F Q Q G Q R Q W T D H F P N T D F F A E
UniRef90_E8LLY8 N E K L L D A G F K E E A L G H N A I A S G F Q Q G Q R Q W T D F K P N G D F F S E
UniRef90_R5C7T1 N E A L A D K G F L E E A G G H N A I L S G F Q Q G Q R Q W T D F M T N G D F F M E
UniRef90_UPI0004728209 N K K L A E A G F E E E A A G H H A I L S G F Q Q G Q R Q W T D Y F P N G D F F M E
UniRef90_G2Z8W1 N S K L A E L G F G E E A L G Y N A I V G G F Q Q G Q R H W T D Q Y P N G D T A M E
UniRef90_A0A023S640 N E K L A D L G F K E E A E G H N A I A A G F Q Q G Q R Q W T D H F P N G D Y M E
UniRef90_C7T7P3 N P R L E E L G F K E E S L G H N A I A A G V Q Q G Q R Q W T D Y I P N F D F P E
UniRef90_R6X0A5 N E K L A D K F P E E A L G R N A I C G G F Q Q G Q R Q W T D H W P N G D Y T E
UniRef90_X8GRE7 N D K L N D D G W H E E A L G R N A I L G G F Q Q G Q R Q W T D F M P N G D F F T E
UniRef90_R6HXF8 N P R L A E M G F A E E A M G H N A I S G G F Q Q G Q R Q W T D F R P N G D F F S E
UniRef90_R6EEG7 N K E L K K I G F G E E S L G H N A I F A G F Q Q G Q R Q W T D H W P N G D F F M E
UniRef90_G8QU00 N P R L A E L G Y V E E S C G H H A I A A G F Q Q G Q R Q W T D F M P N G D F F M E
UniRef90_UPI000418D35B N P T L K V K G Y S E E A L G Y N A I V A G F Q Q G Q R H W T D Q Y P N G D M A E
UniRef90_B6VMR0 N P K L A K M G F L E E S C G H N A I A A G F Q Q G Q R Q W T D F R P N F D F L E
UniRef90_R5C412 N D K L N A I G R H E E A I G R N A I A G G F Q Q G Q R M W T D Y M P N G D F F A E
UniRef90_B9Y9I4 N P D L E N K F S E E Q L G H N A I A S G F Q Q G Q R Q W T D H W P N A D F F A E
UniRef90_H3NGE4 N P N L P A G C E E E R L G H N A I A A G F Q Q G Q R Q W T D F Y P N G D F G S E
UniRef90_R6TJG3 N P Q L A K A G F T E E A L G H H A I A A G F Q Q G Q R H W T D Y I P N G D F S E
UniRef90_UPI00037EBCCD N P K L K K I D R E E E S L G Y Q A I A G G F Q Q G Q R H W T D F Y P N G D I A E
UniRef90_B2UN39 N K K L D E M G W H E E S L G K N A V A A G F Q Q G Q R N W T D W L P N A D F F T E
UniRef90_R6QHV4 N K N L P A G F I E E S V G H N A I A A G F Q Q G Q R Q W T D H W P N C D Y P E
UniRef90_R5ICG7 N L K L A E M G F E E E A E G H N A I A S G F Q Q G Q R Q W T D H W P N G D F M E
UniRef90_F4GKI0 N K T L A D K G L V E E S L G Y N A I A A G F Q Q G Q R H W T D Q Y P N G D T A M E
UniRef90_N1HH01 N P K L A E L G Y E E E A Y G Y R A I A A G F Q Q G Q R E W T D H R P S A D F L E
UniRef90_UPI00036AF779 N P K L K E M G Y G E E A F G R N A I A A G F Q Q G Q R Q W T D H M P N G D F F P E
UniRef90_UPI000479F4BC N P K L A E L G F E E E A C G F N A I A S G F Q Q G Q R Q W T D T Y P N G D F F M E
UniRef90_UPI00037AE05A N P R L K E L G W E E E A L G R N G I A G G F Q Q G Q R M W T D W L P N A D F F T E
UniRef90_U2TCE4 N P K L A E M G W L E E A K G R N A I L G G F Q Q G Q R M W T D F M P N A D F F T E
UniRef90_R5GXL0 N P K L A E I G W S E E A L G K N A I A G G F Q Q G Q R Q W T D W L P N A D F F T E
UniRef90_UPI0002FAEA5F N P R L A E I G W E E E A R G R N A I S G G F Q Q G Q R Q W T D W L P N G D F F A E
UniRef90_G7RZW4 N P K L A E L G W H E E A L G K N A I V G G F Q Q G Q R H W T D W L P N A D F F T E
UniRef90_R6MLV4 N P K L L E M G W A E E S H G R N A I L G G F Q Q G Q R M W T D W L P N G D F F T E
UniRef90_U2KD09 N P K L A K L N F G E E A L G H N A I A A G F Q Q G Q R H W T D H L P N G G F M D
UniRef90_U1QFV9 N P K L D E M G W H E E A L G R N A I A G G F Q Q G Q R M W T D W L P N G D F F M E
UniRef90_C0EDQ6 N P E L A K L G W L E E A K G R N A I A G G F Q Q G Q R Q W T D W L P N G D F F M E
UniRef90_I6RYL4 N A R L A A M G W A E E A L G Y D A I A A G F Q Q G Q R H W T D Q Y P N A D V A E
UniRef90_A9HPK3 N P K L A E M G W L E E S R G R N A I A G G F Q Q G Q R Q W T D W L P N G D F F A E
UniRef90_G1WHZ1 N P R L S A L G Y E E E A N G Y G A I C S G F Q Q G Q R A W T D F Y V N A D F F M E
UniRef90_R6N7M6 N P R L I S L G F T E E A Q G Y D A I A A G F Q Q G Q R H W T D Q Y A N G D I A E
UniRef90_Q2NWL9 N P R L A E L G H I E E A G G H D A I A A G F Q Q G Q R Q W T D C R P N A D I M E
UniRef90_UPI0004249842 N D R L K G L G Y P E E S F G H A I A A G F Q Q G Q R S W T D H F P I S D F F M E
UniRef90_F8IDY5 N P K L A E I G W P E E A G G H D A I A A G F Q Q G Q R Q W T D Y K P N G D M M E
UniRef90_F3P146 N K N L P A G C E E E S V G H N A I A A G F Q Q G Q R Q W T D F Y P N C D F P E
UniRef90_K1SF10 N S K L A D I G R V E E S L G Y N A I A A G F Q Q G Q R H W T D Q Y P N G D T A
UniRef90_M9DAY0 N P K L A E K L G F H E E A A G H N A I V A G F Q Q G Q R Q W T D Y K P N G D L L E
UniRef90_D0YS06 N P E L A E K L G W K E E A H G H Y A L M A G F Q Q G Q R Q W T D F M P N G D F S E
UniRef90_E2ZFZ0 N S K L A K K G F P E E S L G H N A I L A A G F Q Q G Q R A W T D F M P T G D V M E
UniRef90_UPI0002D509DD N E N L P K G C E E E
UniRef90_T0CTP9 N P K L A E L G F A E E A A G H D A I V A G F Q Q G Q R Q W T D Y K P N G D L M E
UniRef90_X4R8Q5

QUERY T I L N S S F D W N G L R R A P Y I F A T E N D N L N G V V S M L F G G Y L L T N T
 UniRef90_B8CWP4 A I L N S S F D W N G L R R A P Y I F A T E N D N L N G V V S M L F G G Y L L T N T
 UniRef90_C6CWF9 A I L N S S F D W N G L R R A P Y I F A T E N D N L N G V V S M L F G G Y L L T N T
 UniRef90_S0EW00 A I L N T S F D W S G I R R Q P P Y I I V A T E N D D A L N G V V S M L F F G G H L L L T N T
 UniRef90_L1QNV8 A I L N S S F D W N G I R R Q P P Y I I V A T E N D D A L N G V V S M L F F G G H L L L T N T
 UniRef90_I0I4U2 A I L N T S F D W N G I R R Q P P Y I I V A T E N D D A L N G V V S M L F F G G H L L L T N T
 UniRef90_UPI00036D8FFB T I L N T S F D W N G I R R E P P F L F A T E N D D L N G I A M L F W N Q L L L L T N T
 UniRef90_UPI00036E4EF6 A I L N S S F D W N G I R R K P F T F A T E N D D H L N G I S M L F F N Q L L L L T N T
 UniRef90_D3EM02 A I L N T S F D W N G L R R A P Y I V A T E N D D N L N G V I T M L F F G G H L L L T N T
 UniRef90_B5YC67 A I L N T S F D W N G L R R Q P P Y I I V A T E N D S L N G V V S M L F F G G H L L L T N T
 UniRef90_R9H2V6 A I L N S S F D W N G I R R A P Y I V A T E N D S L N A V V V M L F F G G H L L L T N T
 UniRef90_UPI00037F1581 A L L N S S F D W N G L R R A P F M V A T E N D S S L N G V V S M L F F N S K L L L T G S
 UniRef90_G5H5K9 A M L N S S F D W N G L R R A P F V M A T E N D S S L N G V V S M L F F G G S L L L T H T
 UniRef90_W4BVC5 S I L N S S F D W N G K R R A P A Y L V A T E N D S L N G V V S M L F F G G S L L L T H T
 UniRef90_UPI000475DA1A A I L N S S F D W N G L R R A P A Y L V A T E N D S L N G V I S M L F F G G H L L L T G T
 UniRef90_UPI000362A153 T I L T T S F D W N G L R R E A Y T F A T E N D S L N A V V V M L F F G G H L L L T N T
 UniRef90_UPI0002EF8BD9 T I L N T S F D W D G T R R T P Y I I V A T E N D S L N G V V T M L F F N Y L L L T N T
 UniRef90_UPI000366EB93 T I L N S S F D W N G R R R V P Y I I V A T E N D S L N G V V V M L F F N H L L L T N T
 UniRef90_C6JJZ1 A L L N S S F D W N G V R R P P Y I I V A T E N D S L N G L G M L F F Q K L L L T N
 UniRef90_S6EG66 A I L N S T Y D W N G V R R P P Y I I V A T E N D S L N G V V Y M L L L G N Q L L T G
 UniRef90_G0GEM3 A I L N S S F D W N G L R R E P P Y I V A T E N D S L N G V A M L F F G H L L L T G T
 UniRef90_UPI00036261F7 A I L N S S F D W N G L R R A P Y I V A T E N D T L N A V T M L F F G H L L L T N T
 UniRef90_M5RU47 A I L N T S F D W N G K R R A P Y I V A T E N D A L N G A T M L F F G H L L L T N T
 UniRef90_R7EMR5 A I L N T S F D W N G L R R A P F T F A T E N D N L N C T S M L F F N G H L L L T G S
 UniRef90_UPI000477E198 A I L T S S F D W N G L R R Q P P Y M V A T E N D N L N A M T M T F F G H L L L T G S
 UniRef90_S0FMN6 A I L N S S F D W N G K K E P T I L V A T E N D S L N A M A M L F F G K L L L T G T
 UniRef90_F8F285 T I L N S S F D W N G L R R S Q A F T V A T E N D S L N G A S M L F F G H L L L T G T
 UniRef90_U2UMD9 A I L N S S F D W N G I R R Q P P Y I V A T E N D D A L N G V I S M L F F G H L L L T G T
 UniRef90_A6D1C2 A L L N S S F D W N G L R R E P F A L A T E N D S L N G V N S M L F F G K M L L T G
 UniRef90_D4LJR3 A M L N T S F D W N G A R R P P Y I I V A T E N D V L N G V L S M L F F M K L L L T G T
 UniRef90_A5M8L7 T F L N T S F D W N G I R R K P Y I V A T E N D S L N G V S M L F F N Y L L L T N T
 UniRef90_D5U660 A I L N S S F D W N G L R R E P P Y V V A T E N D S L N G L S M L F A H L L L L T
 UniRef90_W4EQ32 T I L N S S F D W N G K R R A P Y I L L A T E N D S L N G V T M A L F G H L L L N T
 UniRef90_I6XVT6 T I L N T T F D W N G T R A P H I L L A T E N D S L N G A S M L F N G H L L L T N T
 UniRef90_R6P4I7 A F M N T T F D W R G K K Q P I P F A T E N D G L N A V S M M F F G N L L L T N S
 UniRef90_B5JDH6 A I L N S S F D W N G K R R A P Y I V A T E N D A L N G A T M L F F G H L L L T N S
 UniRef90_UPI00046F3C1E A I L N S S F D W N G A R R E P Y V F A T E N D T L N G A A M L F M N K L L L T N
 UniRef90_G8UJM8 A I L N S S Y D W S G I R R A P P F I L A T E N D S L N G A A M L F F G H L L L T N T
 UniRef90_K0YXW1 T I L N T S F D W T G P R P N N V L A T E N D S L N G A S M L F F G H L L L T N T
 UniRef90_W4QI84 A I L N S S F D W N G I R R E P P Y I V A T E N D T L N G A T M L L G H L L L T N
 UniRef90_UPI0003F91734 T I L N S S F D W N G P R H P L I M A T E N D S L N G A G M L F F G N L L L T G
 UniRef90_I6YW57 A I L N S S F D W N G I R R E P P Y I V A T E N D S L N G A T M L F F G L L L L T N T
 UniRef90_U1GNA5 A I L N T P F D W N G A R R E P Y V F A T E N D T L N G A T M L L L L K L L L T N
 UniRef90_E8LLY8 A L L N S S F D W E G A R R E P P Y V T A T E N D S L N G A T M L F N K L L L T N T
 UniRef90_R5C7T1 A L L N T S F D W N G R R R E P P Y V V A T E N D T L N G L T M L L J E H L L L T N
 UniRef90_UPI0004728209 S I L N T S F D W N G K R R E P Y I V A T E N D S L N A V S M L F F G Y L L L L T N T
 UniRef90_G2Z8W1 T I L N S S F D W N G P R A P Y L M A T E N D S S L N G V S M L F F N Y L L L L T N T
 UniRef90_A0A023S640 T L L N S S F D W N G A R A P P L I M G T E N D S L N A M T M L L G Y L L L L T G T
 UniRef90_C7T7P3 A F M N S Q Y D W N G I H R P H V F A T E N D S S L N G A S M L F F N Y L L L L T N T
 UniRef90_R6X0A5 S L M C T S F D W N G T R E A N V L A T E N D S L N G V A M L F F G H L L L T N
 UniRef90_X8GRE7 A F L S T S F D Y D G K K R P Y I L V A T E N D D L N G L C M L F F E K Q L L T G
 UniRef90_R6HXF8 A M L N T T F D W N G K K E P L T F A T E N D G L N G L S M L L G M K L L L T G
 UniRef90_R6EEG7 A I L N S S F D W N G I R R E A I P F A T E N D T L N G V S M L L G M K L L L T G
 UniRef90_G8QU00 T M L C T S F D W N G L R R E P F V M A T E N D F L N G I G M L F F G K L L L T N
 UniRef90_UPI000418D35B T M L N T S F D W S G P R R P L L L A T E N D C L N G V S M L F F G N L L L T
 UniRef90_B6VMR0 A I L N S S F D W N G I R R Q P L M I A T E N D S L N G I A M L F F G H L L L T G T
 UniRef90_R5C412 A M L N S Q F D W N G L R R E S Y V I A T E N D T L N A I T M L F F E H L L L L D
 UniRef90_B9Y9I4 A I T N S S F N W N G K K E P L V L A T E N D T L N G V A M L F F E K L L L T H
 UniRef90_H3NGE4 A I L N S T F D W N G T R E P L V T A T E N D L N G L G M V F N N L L L T N
 UniRef90_R6TJG3 A I L N T S F D W E G A R R A P Y I L A T E N D C L N G L S M L F F M K L L L T G
 UniRef90_UPI00037EBCCD A I L N S S F D W N G R R A P Y V M A T E N D S L N G A S M L L G S L L L L T H T
 UniRef90_B2UN39 T L L N S T S F D W N G P R A P L P F A T E N D S L N G A C L L F G Y L L L L T G
 UniRef90_R6QHV4 S I M A S S F D W N G K K M P P P F A T E N D T L N G V S M M L G L L L V T S D T
 UniRef90_R5ICG7 A V L N S S F D F E G P K E P M V F A T E N D V L N G L G M L F F M E L L L L T N
 UniRef90_F4GKI0 T M L T T S F D W N G I R R E P Y V V A T E N D H L N G V S M L F F G K L L L T G
 UniRef90_N1HH01 A L L N S S F D W N G V R R A P P Y V V A T E N D S L N G V A M L F F G H Q L L L T G T
 UniRef90_UPI00036AF779 A V L N S S F D W N G R R A P Y I V A T E N D N L N A V T M L F F S H Y L L L T H T
 UniRef90_UPI000479F4BC A L L N S S F D W N G I R R Q A F M V A T E N D S L N G V S M L L G H L L L T N T
 UniRef90_UPI00037AE05A T M L N T T F D W N G A R R P V V I V A T E N D T L N G A S M L L N Y L L L T N
 UniRef90_U2TCE4 A I M A S S L D W N G P K Q P I P F A T E N D T L N G I J A M M F G W L L T N
 UniRef90_R5GXL0 A I L N T T F D W N G A R R E P I P F A T E N D T L N G T T L M F L H M L T G
 UniRef90_UPI0002FAEA5F S I M A S T F D W N G P K P P T A F A T E N D T L N G V A M L F F G T L L L T N
 UniRef90_G7RZW4 A I L A S T F D W N G P R P V T A F A T E N D T L N A T A M L F F G T L L L T N
 UniRef90_R6MLV4 A I M A S S F N W N G K K M P T P F A T E N D T L N G I S M L L J A T L V T G
 UniRef90_U2KD09 A I L N S S F D W N G K K E P S I L A T E N D G L N G T A M L F F G K L L L T G T
 UniRef90_U1QFV9 E V
 UniRef90_C0EDQ6 A I L N S T F D W N G A R Q P P I T F A T E N D T M N G A A M L L L G H L V L T N
 UniRef90_I6RYL4 S I L N S S F D W N G P K P P V S F A T E N D T C L N A A A M L F F G S L L L T N
 UniRef90_A9HPK3 A L L N S S F D W N G A R A P S I L J A T E N D C L N G A T M L F F G L L L M S G
 UniRef90_G1WHZ1 A V I T S T F D W N G A R Q P P I A F A T E N D T L N G A S M L L G T L L L L T N T
 UniRef90_R6N7M6 A I L N S G F D W N G Q R P P F I T S T E N D S C M N A V T M L F F G Y L L L T
 UniRef90_Q2NWL9 A L L N S A F D W N G V R R P P L I V A T E N D S L N A V A M L F F G H L L L T G S
 UniRef90_UPI0004249842 T L L N T S F D W N G P R K E S V F A T E A D A C L N A L A M L F F N S V L L L T H
 UniRef90_F8IDY5 S I L C S S F D W N G P R R P Y I V A T E N D S L N A V S M L F F G Y L L L T G T
 UniRef90_F3P146 T F L N T T F D W N G K R R E S V F A T E A D A G N A L S M L F F N S V L L T H
 UniRef90_K1SF10 A M L N T S F D W N G A R E P Y I L L A T E N D V L N G L G M L F F M K L L L T N
 UniRef90_M9DAY0
 UniRef90_D0YS06 T F A N T T F D W N G P R E P L T L A T E N D V L N G I T M L F N H L L L T N
 UniRef90_E2ZFZO A I L N S S F D W D G P R R P Y T L A T E N D S L N A V T M L W G T L L L T G T
 UniRef90_UPI0002D509DD A I L S S S F D W N G I R E P Y I V A T E N D T L N G A T M L L G H L L L T N
 UniRef90_T0CTP9
 UniRef90_X4R8Q5 T L L N T T F D W T G A R E P S V M A T E N D T L N G A S M L L L N Y L L L T N

QUERY

UniRef90_B8CWP4
UniRef90_C6CWF9
UniRef90_S0EW00
UniRef90_L1QNV8
UniRef90_I0I4U2
UniRef90_UPI00036D8FFB
UniRef90_UPI00036E4EF6
UniRef90_D3EM02
UniRef90_B5YC67
UniRef90_R9H2V6
UniRef90_UPI00037F1581
UniRef90_G5H5K9
UniRef90_W4BVC5
UniRef90_UPI000475DA1A
UniRef90_UPI000362A153
UniRef90_UPI0002EF8BD9
UniRef90_UPI000366EB93
UniRef90_C6JJZ1
UniRef90_S6EG66
UniRef90_G0GEM3
UniRef90_UPI00036261F7
UniRef90_M5RU47
UniRef90_R7EMR5
UniRef90_UPI000477E198
UniRef90_S0FMN6
UniRef90_F8F285
UniRef90_U2UMD9
UniRef90_A6D1C2
UniRef90_D4LJR3
UniRef90_A5M8L7
UniRef90_D5U660
UniRef90_W4EQ32
UniRef90_I6XVT6
UniRef90_R6P4I7
UniRef90_B5JDH6
UniRef90_UPI00046F3C1E
UniRef90_G8UJM8
UniRef90_K0YXW1
UniRef90_W4QI84
UniRef90_UPI0003F91734
UniRef90_I6YW57
UniRef90_U1GNA5
UniRef90_E8LLY8
UniRef90_R5C7T1
UniRef90_UPI0004728209
UniRef90_G2Z8W1
UniRef90_A0A023S640
UniRef90_C7T7P3
UniRef90_R6X0A5
UniRef90_X8GRE7
UniRef90_R6HXF8
UniRef90_R6EEG7
UniRef90_G8QUN0
UniRef90_UPI000418D35B
UniRef90_B6VMR0
UniRef90_R5C412
UniRef90_B9Y9I4
UniRef90_H3NGE4
UniRef90_R6TJG3
UniRef90_UPI00037EBCCD
UniRef90_B2UN39
UniRef90_R6QHV4
UniRef90_R5ICG7
UniRef90_F4GK10
UniRef90_N1HH01
UniRef90_UPI00036AF779
UniRef90_UPI000479F4BC
UniRef90_UPI00037AE05A
UniRef90_U2TCE4
UniRef90_R5GXL0
UniRef90_UPI0002FAEA5F
UniRef90_G7RZW4
UniRef90_R6MLV4
UniRef90_U2KD09
UniRef90_U1QFV9
UniRef90_C0EDQ6
UniRef90_I6RYL4
UniRef90_A9HPK3
UniRef90_G1WHZ1
UniRef90_R6N7M6
UniRef90_Q2NWL9
UniRef90_UPI0004249842
UniRef90_F8IDY5
UniRef90_F3P146
UniRef90_K1SF10
UniRef90_M9DAY0
UniRef90_D0YS06
UniRef90_E2ZFZ0
UniRef90_UPI0002D509DD
UniRef90_T0CTP9
UniRef90_X4R8Q5

1

UniRef90_D6PCI0 N L P K V G I R P T I 20 D G R Q G G V R E S L E E Q T M N Q A N S 40
UniRef90_E2NKZ2 M K K Y P K I G I R P T I D G R Q G G V R E S L E E K T M N L A K A
UniRef90_X0V7T4 Q N R L C G N L P K I G I R P T I D G R R K G I R E S L E E Q T M R M A K S
UniRef90_X0TRU2 M L Q H P R L G I R P T I D G R R Q G V R E S L E V Q T M N M A K S
UniRef90_H7PVV7 S L P K L G I R P V I D G R R M G V R E S L E E Q T M N M A K A
UniRef90_R7G547 D Y P K L G I R P I I D G R R G G I R E S L E E M T M G M A R R
UniRef90_W1GNE1 M N K K P K I G V I G F S D G E P E V H E E L K G I V Q E Q M D A
UniRef90_R5YBH0 M A R I G V I S I S D G R D Y V H E G I A E F I R T N E D Q L
UniRef90_K1SX58
UniRef90_T1B4T8
UniRef90_R6NEA5
UniRef90_W5TCC5
UniRef90_X1D611
UniRef90_S1ACS5
UniRef90_UPI00037DE34E
UniRef90_A5IKA8 M A K V G V I T F S D G R P H V H R E L L S M N L A
UniRef90_X0T5X4 M K Q K Y R V G L I S F S D G R E Y V H K E L E G I V K K F E D E
UniRef90_UPI00047EC598 Q N R L C G T L P K I G I R P T I D G R R R G I R E S L E E N Q T M D M A R T
UniRef90_A8F356 M A R I G V L T I S D G R D F V H R D I A D W A R S S E D A
UniRef90_I2F686 K V G L M T F S D G R E Y V H K D L I N I N K A F E Q K
UniRef90_D4LYN2 K K R K V G V I T F S D G R D F V H N D L I E M N K G F Q D R
UniRef90_A0A010ZQ40 R K P V L G I L T F S D G D K A A H E M L K P I V Q A Q V D A
UniRef90_C0C0Y7 M A R I G L L G M S D G R D Y V A N D I R E F V Q N A E K A
UniRef90_UPI00037FA337 M R K K P V I G I V G L S D G D P Q V H E Q L K G I V K E Q V D A
UniRef90_UPI00035C283B M A R I G L I S I S D G R D Y V H S G I V G F V R G T E D R
UniRef90_UPI00026255E9 M A R I G L L S I S D G R D Y V Q R D V R D H V S R A A R E
UniRef90_F5SB51 R L Q G E L P K I G I R P V I D G R R G G I R E S L E D V T W Q M A E S
UniRef90_D3F3N7 M A R I A V M S V S D G R E S V H R E V E A F G L D V Q R R
UniRef90_Q1AXS8 M A R I G I L T M S D G R G F V H R D V E G F C R K S E E R
UniRef90_D3QAL4 M A R I G V I S I S D G R E Y V Q K D L G D F I A G Y E D R
UniRef90_UPI00036F405A M A R I G V L S V S D G R D H V H A R N A D F V R R K Q A E L
UniRef90_UPI0003B3D5CF M N R K P M I G L I G F S D G E P A V H E Q L K E I V I Q K Q V D V
UniRef90_D9V2N6 M A R I G V L A V S D G R D H V H R R N T G F I R S K V D E F
UniRef90_UPI0003613BE4 M A R I G V I S I S D G R G H V H E R V R F I R A K Q D R
UniRef90_X1QV97 K V P V I G V F A T S D P R I D K A S R T R C Q N I A K M
UniRef90_UPI00036A4C23 L G L L T F S D P R P T A Y Q E M L P V N L E F Q S R
UniRef90_F3ZY71 I G I V M M N D A R P H V Y N L N N A E N M A V V H G
UniRef90_Z5EPJ9 S L P K I G I R P V I D G R R M G V R E S L E A Q T M N M A K A
UniRef90_R5FFU1 G L P K V G M I T F S D A R E H E Y K V L Y E E K T
UniRef90_L0FY42 G K P V I G V F A P C D P R I D A A S R E R S T N I K H
UniRef90_X1RDT2 V G N K A K I G F L D F N D E R E H V L E E T F Q N A Q E L
UniRef90_R5IW24 K V A I V T L G D S R R E F Y R E A I
UniRef90_E3GEC1
UniRef90_X0Y0D7
UniRef90_R6LHU1 T V A D S R D D Y Y Q Q R
UniRef90_X1LAP2
UniRef90_UPI00035FF548
UniRef90_X1NCZ7 K V P V I G I F A T S D P R I D Q A S R A R C K N I V K M
UniRef90_X1M0E1 I G V A S F T D P R E T A L S S E R E E A I K E K H E K
UniRef90_O59131 I G V V T F T D P R P T A L S K E
UniRef90_I6U868 I A V I T F T D P R P T A L S I E R E R A L M E K H
UniRef90_I3RF52 I G F I T T C S G R W P R E V P E Q R N R E
UniRef90_C5A757
UniRef90_F4HK98
UniRef90_R5TXL2
UniRef90_C6A1D5
UniRef90_UPI0003B6AAA0
UniRef90_U1YGK4
UniRef90_E7FHF7
UniRef90_F0LL40 I A V A T F T D P R P T A L S E E R E R A L M E K H R A
UniRef90_G5IA08 I G F L T T Y S G R W P Q E V P N Q R N R E
UniRef90_I8TST5 M N K Q L N V G F V T T L S G R W P R E L P E N R C K E
UniRef90_X1PDM6 M A N K A K I G I L D F N D E R E H V L Q Q T F E K A Q R L K K N
UniRef90_X1EVR5
UniRef90_UPI0003B3EC27
UniRef90_D9WV27
UniRef90_UPI0003B52064
UniRef90_B0PG86 N E K P K L G I L L P I T N Q Y Q G N I R K Y I E
UniRef90_W1V5K2
UniRef90_UPI00036BC224
UniRef90_B5H4D6
UniRef90_N9XQF8 M K Q K L N I G F V V T Y S G R W P K E L P E K R N R E
UniRef90_L0A0C2
UniRef90_H5XNX4
UniRef90_G8TIX0 K L
UniRef90_UPI00036D3825
UniRef90_UPI00036E5ECE
UniRef90_E8SCC8
UniRef90_A8RJP6 P K M G F I V F G V H K D G L K F I N Q K I I D E
UniRef90_UPI00036C1A54
UniRef90_Q9V0T8
UniRef90_UPI00036D7439 K L
UniRef90_B8FVE5
UniRef90_UPI0003B5C18F
UniRef90_UPI00037AF636
UniRef90_I4C1B2 A K I G I F W P G D Y R S K L A R P N A E E A T V Q L E R A
UniRef90_UPI00047C0105
UniRef90_UPI00040F7EC3
UniRef90_UPI000478ADB1
UniRef90_C1D435
UniRef90_Q02AC1
UniRef90_UPI000479C994

UniRef90_D6PCI0 V A Q W I E E Q L K Y P N G E P V E C V I A D T C I G G V T E A A M A A D K F S 50 60 70 80
UniRef90_E2NKZ2 V A E L I T S N L K N G D G S P V E C V I S D S T I G R V A E S A A C A E K F E
UniRef90_X0V7T4 T A A L I T K K L R H P N G L P V E C V I A D T T I G G V A E A A R C A D K F A
UniRef90_X0TRU2
UniRef90_H7PVV7 V A D L I S S T L K Y P D G E P V E C V I S P S T I G R V P E A A A S H E L F K
UniRef90_R7G547
UniRef90_W1GNE1 T A A L L T E K L R H A C G A A V E C V I S D T C I A G M A E A A A C E E K F S
UniRef90_R5YBH0
UniRef90_K1SX58 V A Q L Y T D N L H Y A D G T P V E C V I A D T T I G G V K E A A M A A E K F A
UniRef90_T1B4T8
UniRef90_R6NEA5 I V K A L R A S G E V D V V E A D Y L V H S P E E A K L Q G Q K M V
UniRef90_W5TCC5 V A E L T S A G H E V V R G S A P V S T N T L A V S V A R E V A
UniRef90_X1D611
UniRef90_S1ACS5
UniRef90_UPI00037DE34E F Q E R L V R R L R E S G H E V V T A P E P P W N N E T A V Q A G K L L Q
UniRef90_A5IKA8 I A K T L E E T G E V E V I R A K E L V W K P S I A K K E A K R L A
UniRef90_X0T5X4 A A S L I T E N L R H S N G L P V K C V I S D T T I G G V A E A A R C A D K F S
UniRef90_UPI00047EC598 I V T A L E G A G H E V V R A P E L V S T N E L A T S Q A R L V A
UniRef90_A8F356 L V E A L E S T G E I Q V I R S N K I V N K P S V A R E E A V F L N
UniRef90_I2F686 L V K A L E A T G E V E V T A S D I V W K P S L A K K A G K E L M
UniRef90_D4LYN2 I A E A L K K D G R V D V V V A E D I V H S D K T A K S Y A E G L K
UniRef90_A0A010ZQ40 L V A A L E A D G H E V V V G V E E I W T N Q L A T S E A R R V A
UniRef90_C0C0Y7 L V A L K A S G E V E V V E A G E L V C S V R T A K E Q A E Y L K
UniRef90_UPI00037FA337 L A A A L A E A G H E V V R A S A P V S A S T V A T S V A R E I E
UniRef90_UPI00035C283B L A A M L G D A G H E V I V A P E H V E S N V L A T S Q A R W L A
UniRef90_UPI00026255E9 I Q S K Q D E L V R S L T A A G H E V V A G R D L V A T N T L A T S V A R E V A
UniRef90_F5SB51 V A T F L T E S L R Y P N G Q P V Q C L A D T C I G G V T E A A Q T A E K F S
UniRef90_D3F3N7 I V A A L Q A R G H V V I A A P D A V W T N D G A V V T A R R L A
UniRef90_Q1AXS8 L A S A L R E A G H E V V R A R E V V W T N R L A V S E A R R V A
UniRef90_D3QAL4 L V A S L E A A G H E V I R G E E Q V T S N T V A T A V A R R V A
UniRef90_UPI00036F405A V A S L R S V G H E V V D T S E P L S S G P G A T D A A R R V A
UniRef90_UPI0003B3D5CF I A E L L E K Q G E I I V L K A D R L V C S V E S A K E E A E K L K
UniRef90_D9V2N6 T A A L T A A G H D V V T G G L V A T N T A T A A A R S V A
UniRef90_UPI0003613BE4 L A G A L E A A G H E V V R A G E S L S S N A I A T G R A R E V A
UniRef90_X1QV97 A A D C I S G S V V M P D K T S V P V V Y S T V L I D G E A Q A D I V A Q Q F R
UniRef90_UPI00036A4C23 L V E A L E R T G Q V Q V I A G E K V I Q T P Q E A K T E V I E Q L D
UniRef90_F3ZY71 W A D V I R Q R F K N V D G S S P E V I T A S E T I T G V R V A K I G E E L R
UniRef90_Z5EPJ9 T A A L I S E K L R H A C G A R V E C V I A D T C I A G M A E S A A C E E K F S
UniRef90_R5FFU1 A A R I K R T V E Y F A D Y E M E L H T F D T V A R S P Q D I D R Q T D E L K
UniRef90_L0FY42 T A E S L A G K I K L P D G T A E M V V Y S D V L I D A E S Q A D Q V A S Q F K
UniRef90_X1RDT2 K K D V V R T L E R V G G M E I A D P A K S D K M V W R V K I A R K Q A K I L A
UniRef90_R5IW24 V A S E I E K V K K A F G D K Y D L Y I S P I V F D T E D G Q N I S D E I K
UniRef90_E3GEC1 M E V F T C G S V A C N A K D I E E Q A K E L K
UniRef90_X0Y0D7
UniRef90_R6LHU1 A G L L Q E E L E S T A F V D E L G A V I R S E V I R T P Q A A D D F G R Q A A
UniRef90_X1LAP2
UniRef90_UPI00035FF548 A A D C I S G S V V L P D K T P V P V V Y S T V L I D G E A Q A D I V A Q Q F R
UniRef90_X1NCZ7 I R
UniRef90_X1M0E1 A K E F R
UniRef90_O59131 L V K E L S K E F E V L D I Y S K D V F G I N S V D E A I K A G R I A K
UniRef90_I6U868 I N S V E E A I E A G R I A K
UniRef90_I3RF52 R E E A I K Q K H N Y L I D E E F E V V I N A E L I H S V D E A I R A G R I V K
UniRef90_C5A757 S A E L R K A G F E V L D V G K Y E A L N A G K N F G S M D E S F K A G E I I A
UniRef90_F4HK98 I D S K G D V L R A A K T I N
UniRef90_R5TXL2 Y G E W L E A Q M P E V K V V R A P E L G S G I E S V E A A V R E F K
UniRef90_C6A1D5 I D S K E E V R A S N L I G
UniRef90_UPI0003B6AAA0 G W K V Q V L N P E K P V A S V A E G L Q V I N N A K
UniRef90_U1YGK4 E V F A
UniRef90_E7FHF7 K Y E A L E R G E N F G V D D K E E V L K A S R L I G S
UniRef90_F0LL40 L T J E A L E E F E L L D V N A K L K K Y E A F E K I D S K E E V L E A A R L V N
UniRef90_G5IA08 Y G D W L E A N L P K L H V V R A D V L G C G K A E V A A I T R Q F K
UniRef90_I8TST5 Y G N W L Q E N L P G I N I I K A E R L G D S P Q A L E A V V I E Q F K
UniRef90_X1PDM6 V V J E T L E K T G E M D I I D P S E S F R F D K M V W R P E I A R K Q T R M L A
UniRef90_X1EVR5 D Q G V N L I E Y D T I A T K D E A R V A L K K M K
UniRef90_UPI0003B3EC27 G H G V D P V I T G H G F I D S Q R A G L E V F K
UniRef90_D9VW27 F G
UniRef90_UPI0003B52064 D V F A
UniRef90_B0PG86 T A K E V Y G A D P A I E C V I P D E P L F E L D G I M R A C T Q M E
UniRef90_W1V5K2 E V F K
UniRef90_UPI00036BC224 E V F K
UniRef90_B5H4D6 R A G I E V F K
UniRef90_N9XQF8 Y G D W L E A N L K E A S V I R A S V M G C S R E T V E Q V T K E F K
UniRef90_L0A0C2 F R
UniRef90_H5XNX4 E V F K
UniRef90_G8TX0 V A E A I V A L F E K L N I T P I L L T D A D T K L G G V E E A Q R C A D L F K
UniRef90_UPI00036D3825
UniRef90_UPI00036E5ECE P V D A A K G H G F I S
UniRef90_E8SCC8 R A G I E V F R
UniRef90_A8RJP6 S K A A I E A K G V K L V E N E I V V A Y K Q E A R E A L A R L K
UniRef90_UPI00036C1A54
UniRef90_Q9V0T8
UniRef90_UPI00036D7439 V S E A R A E V L K M L N E Q G I K P I I K D T K L G G V A D A R K C A D L F K
UniRef90_B8FVE5 P V S T D A E A L S L A E S V S
UniRef90_UPI0003B5C18F V N E T T G H G F I D S Q R A G E V F K
UniRef90_UPI00037AF636
UniRef90_I4C1B2 L K K L G R K S Y R I E G F L T R P H E A I E K L G
UniRef90_UPI00047C0105 D V F A
UniRef90_UPI00040F7EC3 I D P V T G H G F T T S Q R A G D V F K
UniRef90_UPI000478ADB1
UniRef90_C1D435 D V F R
UniRef90_Q02AC1 E V F R
UniRef90_UPI000479C994

UniRef90_D6PCI0 S E G V G V S L T V T P C W C Y G S E T M D M D P L I P K A V W G F N G T E R P 90 100 110 120

UniRef90_E2NKZ2 R E G V G S T I T V T S C W C Y G A E T M D M N P Y Y P K A V W G F N G T E R P

UniRef90_X0V7T4 R E G V G V S L S V T P C W C Y G M E T I D M D P L I P K A I W G F N G T E R P

UniRef90_X0TRU2

UniRef90_H7PVV7 K S N V C A T I T V T P C W C Y G S E T M D M S P D I P H A I W G F N G T E R P

UniRef90_R7G547 S Q N V G L T I T V T P C W C Y G S E T I D M D P T R P K A I W G F N G T E R P

UniRef90_W1GNE1

UniRef90_R5YBH0

UniRef90_K1SX58 A M N V G A V L S V T P C W C Y G S E T I D M D P L M P K A I W G F N G T E R P

UniRef90_T1B4T8

UniRef90_R6NEA5 A E D V D G T I F S Y G V F S F P N F S A I A A K F G P F L L A A N L N P D W P

UniRef90_W5TCC5 S A G V D L T V L H Y A V W A F P H F T M L V Q G A T P G A L L S N I D P V Q P

UniRef90_X1D611 E T I D M D P L I P K A I W G F N G T E R P

UniRef90_S1ACS5

UniRef90_UPI00037DE34E R E D V D C T I F N Y A V W S W P H F T V L A A Q F A P R P Y L C N I N P Q Y P

UniRef90_A5IKA8 E E G A E V T I F N Y A V W A F P H F T V L A S K F A P G P F L L F S N P Q Y P

UniRef90_X0T5X4 K E G V G V S L T V T P C W C Y G M E T I D M D P L I P K A I W G F N G T E R P

UniRef90_UPI00047EC598 E S R P D L T I F N Y S V W A F P H F S M L A A D S T P G P L L S N I D P V Q P

UniRef90_A8F356 N S G A Q M T I F N Y A V W A F P H F S V I A S K F A P G P F L L F N G P K Y P

UniRef90_I2F686 K A E V E A T I F N Y A I W C W P H L S V M A S L Y A P G P F L L T Y G N P S Y P

UniRef90_D4LYN2 A K G V D A T V F A Y G V F A F P V F S V I A A R Y G P F L L A A P F N P D W P

UniRef90_A0A010ZQ40 A A R P D L T I F H Y P V W A F P H F T M L A A A N G P L L L A S L D P V Q P

UniRef90_C0C0Y7 G M D V D G T I L S Y G V F A F P N F V V A Q N G K G P Y L L A A N L N P D W P

UniRef90_UPI00037FA337 A A G V D L T V L H Y C V W A F P H F T M L A A G S G P L V L V A N P D P V Q P

UniRef90_UPI00035C283B E R H V D V T I F H Y S V W T F P H F T M L A A E A T P G P I L A N L D P Q F P

UniRef90_UPI00026255E9 A A G V D V T I F Y Y A V W S F P H F T M L A A T R S P L L L V A S T D P T E P

UniRef90_F5SB51 R N G V D L T I T V T P S W C Y P T E T M D Q D P H M P K A I W G F N G T E R P

UniRef90_D3F3N7 D A R P D L T L V N I P V W A F P H F T V L A A S Q T P G P L A L F S D P K Y P

UniRef90_Q1AXS8 D A R P D L T V F N I P V W A F P H F S L L A A A E T P G P L L L F S D P Q Y P

UniRef90_D3QAL4 A R G V D L T V L H Y A V W A F P H F T M L A A D A S P G P L L L S D P A Q P

UniRef90_UPI00036F405A S A G V D L T V L Y A V W A F P R F T M L A A A G E T P L A L V A S T D P T E P

UniRef90_UPI0003B3D5CF A K G V D G T I F S Y G V F A F P N F S A I A A Q N G P F L L A A N L N P D W P

UniRef90_D9V2N6 A S S V D L T V L Y A V W A F P H F T M L A A D A T P G P L L A S T D P T E P

UniRef90_UPI0003613BE4 A A E V D L T V F Y A V W A F P H F T M L A A D A T P L V L V A S T D P T E P

UniRef90_X1QV97 K A G V D L L V C V P D T W A F P Q L T T I F D A N T P I N I T C G N S G P K P

UniRef90_UPI00036A4C23 R M G V D G V I F H F A G W S F P H L A T V A A K N S P V L L V A S F N P R Y P

UniRef90_F3ZY71 R A N C R Q V I M C Y N V W D F P Y L V N S L G R D V P I L S L S N N G Q Y P

UniRef90_Z5EPJ9 S Q N V G V T I T V T P C W C Y G S E T I D M D P L R P K A I W G F N G T E R P

UniRef90_L05FFU1 K K G V S V E I A N I P C W T W P N V R G V L N M G L P T L L L S N D D P G T H

UniRef90_L0FY42 E A G V S V L V C V P D T W S F P Q L T T I F K D T P I N F T T G N S A T R P

UniRef90_X1RDT2 E A D I D G L I L H Y S L W A S P R L A K K N R S I P I L I L T N L A P G Q P

UniRef90_R5IW24 K Q G L E A V I L H V P I W A T P S E R I A Y G T S Y P V L L L G N L Q R N T S

UniRef90_E3GEC1 A K G A E I F L G H I P C W T W P N L V V A Q A M D M P T V L V A N D D P G T H

UniRef90_X0Y0D7

UniRef90_R6LHU1 Q S G A Q A M I I H I P I W A D P S L S L A Q S F G G P V L L L G N T R G T T S

UniRef90_X1LAP2 T I V V L T N L A P E Q P

UniRef90_UPI00035FF548 R A T G D R F I N F M A G W A Y P D F S V Q L P H E V P K L L L G S S I P D F P

UniRef90_X1NCZ7 K A G V D L L V C V P D T W A F P Q L T T I F P S N T P I N I T C G N S G P K P

UniRef90_X1M0E1 D E G A C C L I F L V G T W V Y T P Q I T V K E I H L P F I L W A L P D P K S F

UniRef90_O59131 S E G L S G V I L G L W H W T E S N L V T I R E A E V P I L L Y T D G D P N W A

UniRef90_I6U868 S K G V S G V I L G L W H W T E S N L V T I K E A N V P I L L Y S D G D P N W A

UniRef90_I3RF52 K I G L S G V I L G L W H W T E S N L V T L R K A N V P V L L Y T D G D P A W A

UniRef90_C5A757 G S S V S G I I A G L W H W T E S N L V T A L V R E R P I L L Y A D D D P A W A

UniRef90_F4HK98 S E E V S G I I V G L W H W T E S N L V T L V K E T P L L L Y A D D D P A W A

UniRef90_R5TXL2 R Q E A D V I L V Y G A F T G D D V A S Y P I I L W A F E R E D R N

UniRef90_C6A1D5 A Q D I S G I I I G L W H W T E S N L V T L L A K K V P L L L Y A D D D P A W A

UniRef90_UPI0003B6AAA0 G E R F I N F M G G W A Y P D F S V Q L P S E V P K L L L G S A V P D F P

UniRef90_U1YK4 T I P D A P L V V A A V W Q Y S H H V L L R T H R G P V L T A N F A G D W P

UniRef90_E7FHF7 R D I S G I I L G L W H W T E S N L V T L L A K E T P L L L Y A D D D P A W A

UniRef90_F0LL40 S K D V S G I T L G L W H W T E S N L V T L L A K E T P L L L Y A D D D P A W A

UniRef90_G5IA08 E A E V D V I V M V Y G A F T G D D I S T Y L S E M V P I I L W A F Q K D D R N

UniRef90_I8TST5 T N A V D L I V M V Y G A F T G D D A S A H L A E M V P I I L W A P K E P P F N

UniRef90_X1PDM6 R A G L D G V I F H Y S V W A S P R E N K K N K S T P I V V L T N L A P E Q P

UniRef90_X1EVR5 D D Q M D C V V L F S G T W V W A H L I A A V R D F A L L I W T H P G S Q G W

UniRef90_UPI0003B3EC27 T L P A E A P V V I E A V W Q Y S H H V L L R T H R G P I L L V A N W A G D F P

UniRef90_D9VV27 S I P S D A P L V V A A V W Q Y S H H V L L R T H R G P I L L T V A N F D G T W P

UniRef90_UPI0003B52064 S I P P T A P L I V A A I W Q Y S H H V L L R T H R G P I L L T V A N F A G E W P

UniRef90_B0PG86 R A G C D L Y L F V I G S W M Y T S L V T T A V N A L I G G K P

UniRef90_W1V5K2 Q I P S D A P L I V T A N W Q Y S H H V L L R T H R G P I L L T V G N F D P T W P

UniRef90_UPI00036BC224 T I P A D A P L I V A A V W Q Y S H H V L L R T H R G P I L L T V A N F A G D W P

UniRef90_B5H4D6 N I P R D A P I V V E G V W Q Y S H H V I L R S H R G P I L I V A N W N G E Y P

UniRef90_N9XQF8 E Q E V D V I V M V Y G A F S Y L T E M L K V P I I L W A F E K D D R N

UniRef90_L0A0C2 D I P K D A P I V I V A A V W Q Y S H H V L L R D H R G P I L L T V G N W S G E W P

UniRef90_H5XNX4 T V P K D V P L I V A A V W Q Y S H H V L L R T H R G P I L L T V A N F V I G D W P

UniRef90_G8TX0 K H A A D I Q G I L V V L P N F G D E I K L A N L N V P V L V Q G Y P D D R R D

UniRef90_UPI00036D3825 N Q R M G M D V F A T A A W Q Y T H H V L M R S H R G P I L L T V A N W S G Q W P

UniRef90_UPI00036E5ECE S I P A D V P L V V V A V W Q Y S H H V L L R A H R G P I L L T V A N W S G E Y P

UniRef90_E8SCC8 H D D V D G V I L F S G T W V W A S E I V A A V R D F E R A I W T V P G S Q G W

UniRef90_A8RJP6 V V V I E A V W Q Y S H H V L L R D H T G P I L L V A N F A G D F P

UniRef90_UPI00036C1A54

UniRef90_Q9V0T8

UniRef90_UPI00036D7439 K N D I A G V L V V L P N F G D E R G L A D L Q V P I L L Y A G D G P N W A

UniRef90_B8FVE5 H Q D L H G L I V V Q G T F C D A S I L T L N L A S N I P I M I W A T K E Q P T G

UniRef90_UPI0003B5C18F H I P A E A P I V V I E A V W Q Y S H H V L L R T H K G P I L L T V A N W A G D F P

UniRef90_UPI00037AF636 V P G G R F P H L A T I A A R N S P S P V L A S F N P R Y P

UniRef90_I4C1B2 P V D D P L I V C V H W C Y G P H T T D V G K D S P L L L A S N F S G Q W P

UniRef90_UPI00047C0105 N I P A D A P L V F T A A W Q Y T H H V L M R F H R G P I L L T V A N W S G Q W P

UniRef90_UPI00040F7EC3 N I P A D A P L V V V A I W Q Y S H H A G L R S H R G P I L L T V G N F A G D F P

UniRef90_UPI000478ADB1 V V V V D A V W Q Y S H H V L L R A H R G P I L I V A N W A G E F P

UniRef90_C1D435 R I P K D A P V I V A A V W Q Y S H H V L L R A H R G P I L L T V A N W S G Q W P

UniRef90_Q02AC1 T L P P D A P V V V E A V W Q Y S H H L L L Y T H K G P I L L T V A N W S G Q W P

UniRef90_UPI000479C994 V I V A I A N W Q Y S H H V L L R T H R G P I L L T V A N F S G R W P

UniRef90_D6PCI0 G A V Y L A A V S A A H A Q K G L I P A Y K I Y G E D V Q D A S D D R I P L D V R
UniRef90_E2NKZ2 G A V Y L A A V L A G H A Q K G L P A F G I Y G R D V Q D D D N S I P T D V A
UniRef90_X0V7T4 G A V Y L S A A L A G H D Q I Q M L P A F G I Y G K D V Q D R D D K T I V P E D D V K
UniRef90_X0TRU2 G A V Y L S A A L A G H D Q I Q M L P A F G I Y G K D V Q D R D D K T I V P E D D V K
UniRef90_H7PVV7 G A V Y L A A V L A S H A Q K G L I P A F G I Y G R D V Q E A S D T A I P P E D D V K S
UniRef90_R7G547 G A V Y L A S V L A T H S N Q K G L I P A F S I Y G H E V Q D A D D T S I P A D D V E
UniRef90_W1GNE1 G A V Y L A A A L A A H S Q K G L I P A F S I Y G H E V Q D A D D T S I P A D D V E
UniRef90_R5YBH0 G A V Y L A S A L A G H N Q K G L P T F G I Y G R D V Q D D L D D N T S I P P E D D V A
UniRef90_K1SX58 G A V Y L A S A L A G H N Q K G L P T F G I Y G R D V Q D D L D D N T S I P P E D D V R
UniRef90_T1B4T8 G A V Y L A S A L A G H N Q K G L P T F G I Y G R D V Q D D L D D N T S I P P E D D V R
UniRef90_R6NEA5 G M V A M L A A G G A L H H L G I E H F R A A G D I N D K E V L
UniRef90_W5TCC5 G M V G M L A A G G A L D Q I G R T H T R L W G D P A D P E D L
UniRef90_X1D611 G A V Y L S A A L A G H D Q I G L P A F G I Y G K D V Q D Q N D N S I P E E V E
UniRef90_S1ACS5 G A V Y L S A A L A G H D Q I G L P A F G I Y G K D V Q D P D D T S I P A D D V E
UniRef90_UPI00037DE34E G L V G M L A S S G A L E A N V G I P Y I R V S G D V E D E K V F
UniRef90_A5IKA8 G M V A M L S A A G A L E Q D G T K H Y R M W G S I K D E K V L
UniRef90_X0T5X4 G A V Y L S A A L A G H E Q I G L P A F S T Y G K D V Q D Q N D N S I P E D V E
UniRef90_UPI00047EC598 G M V G M L A A G G A L D Q I G R V I G R V W G D V A D P A T L
UniRef90_A8F356 G M V G M L A A G G A L D Q D G T Q T Y R V W G D I K Q K D V L
UniRef90_I2F686 G M V G Q L A A A G A L E Q V G I M P E R V W G N P E D S D V I
UniRef90_D4LYN2 G M V S M L A A G G G L D H E G I E H F R V A G D V N E K E V L
UniRef90_A0A010ZQ40 G M V G M L A G G G A L D Q I G R V H S R A W G G L T
UniRef90_C0C0Y7 G M V A M L A A G G A L N H L G I R H F R A S G D V T E P E V L
UniRef90_UPI00037FA337 G M V G M L A A G G A L D Q I G R R H S R L W G G P S S A A
UniRef90_UPI00035C283B G M V G L L A G A G G L D Q I G R V H A R A W G D L A D P A V R
UniRef90_UPI00026255E9 G L V G M L A A G G A L D Q I G R A H T R L W G A P D D A D L A
UniRef90_F5SB51 G A V Y L A A A A A H N Q K G L P V F T Y G Q H V Q D M D D T T I P E D V Q
UniRef90_D3F3N7 G M V G M L A A A G A L D Q V L G R L G R A W G D I E D P A V A
UniRef90_Q1AXS8 G M V G M L A A A G G L D Q V L G R T Y G R A W G D V S E P A V L
UniRef90_D3QAL4 G M V G M L A A G G A L D Q I G R E H T R L W G D A D D T E L L D A I G
UniRef90_UPI00036F405A G L V G M L A A G G A L D Q V G R E H H R L W G E P D D D A E L A A D
UniRef90_UPI0003B3D5CF G M V A M L A A G G A L H H L G I E H F R A A G D F R D P K V L
UniRef90_D9V2N6 G L V G M L A A G G A L D Q I G R T H T R L W G A P S D P E L L A E V L
UniRef90_UPI0003613BE4 G L V G M L A A G G A L D Q I G R E H T R L W G A P D G A E L V
UniRef90_X1QV97 G V V Y A H A L N G A I S Q Y G R M V T L N V G T W P D T G M D P K M T E Q T A
UniRef90_UPI00036A4C23 S L I G M T A S G A L R Q V G I R H G R V W G D P G D P E I V A
UniRef90_F3ZY71 G N V G L L A T D G A L D Q A G I R T H R I V G D M N D Q S T Q D Q V
UniRef90_Z5EPJ9 G A V Y L A A A L A A H S Q K G L I P A F S I Y G H D V Q D A D D T S I P A D V E
UniRef90_R5FFU1 G T V G F L G S G G A I A N Q Y G K L H L R I Q Q D F T D E H P N L F D
UniRef90_L0FY42 G V V Y T H A T S G A I A Q Y G K L T H I N V G K W P D A G Q N P E M S P A T L
UniRef90_X1RDT2 G M V G G M A A A G G L D Q L G I A N T R I W S R N I A N D P E K L K Q V M
UniRef90_R5IW24 S L V T L L A V G G M L D Q T G K K I R V S G D Y E D P Q I Q
UniRef90_E3GEC1 A T V G L L G G G A L D Q V G I C H V R I S S D F E G P K K F E
UniRef90_X0Y0D7 G V V Y A H A L N G A I S Q Y G R M V A L N V G T W P D T G M D P K M T E Q T A
UniRef90_R6LHU1 S V V G T L G A G G G L D Q L G I S H S R V F G S G E A Q Q
UniRef90_X1LAP2 G M V G G M A A A G G L D Q L G I P N F R I W S T K L S E D P R R V E Q M V
UniRef90_UPI00035FF548 G A V G L F A A A S G T E H I G I E T D R L F V E K F D D H V G Y I D A I
UniRef90_X1NCZ7 G V V Y A H A L N G A I S Q Y G R M V T L N V G T W P D T G M D P K M T E Q T A
UniRef90_X1M0E1 S L T G A G V V H G L D E L G I K H K L V Y G S P E D P K V I
UniRef90_O59131 G A T C V T S V G A S L N E Y A K R H C R V I D D I
UniRef90_I6U868 G A T C V T S V G A S L N E Y A I R H S R V I G D V
UniRef90_I3RF52 G A T C V T S V G A S L N E Y A I R H S R V I G D V
UniRef90_C5A757 G T T C I T S V G A S L N E Y A L N H V R L K G D V
UniRef90_F4HK98 G T T C I T S V G A S L N E H A L N H V R V K G D V
UniRef90_R5TXL2 A L C S M T M N A A A L R R L G V S C H T I Y G S R E D D K A A
UniRef90_C6A1D5 G T T C I T S V G A S L N Y Y A L C H T R L K G D I
UniRef90_UPI0003B6AAA0 G A V G L L A A T S G T E Q V G I R T D R L F V D N F Q K E Y S E A I P E T I E
UniRef90_U1YGK4 G L V G L L G L N A G L T K M G R P Y S T V W T V D G S D A W F P E L P D S A E
UniRef90_E7FHF7 G S T C I T S V G A S L N Y H A L H H V R L K G D V
UniRef90_F0LL40 G T T C I T S V G S L N Y Y A L H H T R L K G D V
UniRef90_G5IA08 A L C A M T M N S A A L R R V G V K C H T I Y G S W D D E R A A R K V K
UniRef90_I8T5T5 A L V A A T M N S A S L K K L G Y T C Y A V Y G D K E D I A T A
UniRef90_X1PDM6 G M V G G M A A A G G L D Q L G I P N F R I W S T K L S E D P E L K V E
UniRef90_X1EVR5 R V V G G L V V H G L M E V G I Q H K F V Y G A A D D P T E L D
UniRef90_UPI0003B3EC27 G L V G L L N L T A S L T K A G V E Y S A L W S A D F T D E W A K A K L A
UniRef90_D9VV27 G L V G L L G V N A G L T K M G T A Y S T I W G T V P Q D A S H V R P L P L P
UniRef90_UPI0003B52064 G L V G L L G L N A G L T K M G K A Y S T I W G T L E H D A S H V R D L P A L P
UniRef90_B0PG86 C V M Y G L C A N G S L E E M K L P F V Y L Y G R I D D A R A A D I K
UniRef90_W1V5K2 G L V G L L N L N G S L T K M G R D Y A T L W G K I T H D Q S H P A L P D N D E
UniRef90_UPI00036BC224 G L V G L L G L N A G L T K M G K D Y A S I W G R I T H D A S H V R P L P S L P
UniRef90_B5H4D6 G L V G L L N L A G S L T K A D I A Y S V L W G T L V H D T G H V R D L P A L P
UniRef90_N9XQF8 A L C S M T M N A A A V R R L G A V C H T A Y G S L D D E R A A
UniRef90_L0AOC2 G L V G L L N L N G S L T K M N V R Y S S L W S E D F S D G Y F T E A Q P L D A
UniRef90_H5XNX4 G L V G L L G L N A G L T K M G K P Y S T I W T V D G S D H D D S H V R D D L P
UniRef90_G8TX0 A W C G K I S V C N N L Y Q F G I K Y S L T T K H V V S P S D E S F I A D L Q
UniRef90_UPI00036D3825 G L V A L L N H S A T L D R L N V A H S R L W S E T F S D L D T G K V V H D L A
UniRef90_UPI00036E5ECE G L V G L L N L N G S L A K A G V P F S T L W S E D F K D P Y F L
UniRef90_E8SCC8 G L V G L L N L A G S L T K A G V R Y S T L W S E D F T D E W A P V L R P D E E
UniRef90_A8RJP6 R L V G T L A L G A S F K E I G M K Y R S V Y G S D N D T V
UniRef90_UPI00036C1A54 G L V G M L N L H G S L V K A G V E H S T L W S K D F T D E W A P A L P D S E E
UniRef90_Q9V0T8 G A T C V T S V G A S L N E H A I R H V R V I G D L
UniRef90_UPI00036D7439 S W C G K I S V C N N L Y Q Y G I K Y S I T T K H V V H P T D P S F L E D
UniRef90_B8FVE5 G R L S L N S N L G A H T N A G I K F K G V Y G S P G S P A V I
UniRef90_UPI0003B5C18F G L V G L L N L T G S L T K A G V T Y S A L W S K D F T D D W A R E K L A
UniRef90_UPI00037AF636 G L I G M I A S G A S L D Q V G I R H G R V W G D P E D P E I V A
UniRef90_I4C1B2 G L V G L L N T G A C L E S L G R K F S R V W S D A K D W T A D E Q I G Y S V P
UniRef90_UPI00047C0105 G L V G L L N L N G S L V K A G V E F S S I W S E S F E D S E I G T I R H D V S
UniRef90_UPI00040F7EC3 G L V G L L N L T A S L T K A A V G H S I L W S K D F T D A W T G S I K H D V S
UniRef90_UPI000478ADB1 G L V G L L N L T A S L T K A G I E H S I L W S E D F T D E W T G A I E H D T S
UniRef90_C1D435 G L V G L L N L N G S L T K M N I D Y S S L W S E D F Q D E F F V
UniRef90_Q02AC1 G L V G M L N L N A S M T K A G I N Y S T L W S E D F T D L A G E A V R H D T V
UniRef90_UPI000479C994 G L V G L L N L N A G L T K M D K P Y S T L W G T V P H D E S H V R P L P A L P

UniRef90_D6PC10
 UniRef90_E2NKZ2
 UniRef90_X0V7T4
 UniRef90_X0TRU2
 UniRef90_H7P7V7
 UniRef90_R7G547
 UniRef90_W1GNE1
 UniRef90_R5YBH0
 UniRef90_K1SX58
 UniRef90_T1B4T8
 UniRef90_R6NEA5
 UniRef90_W5TCC5
 UniRef90_X1D611
 UniRef90_S1ACS5
 UniRef90_UPI00037DE34E
 UniRef90_A5KA8
 UniRef90_X0T5X4
 UniRef90_UPI00047EC598
 UniRef90_A8F356
 UniRef90_I2F686
 UniRef90_D4LYN2
 UniRef90_A0A010ZQ40
 UniRef90_C0C0Y7
 UniRef90_UPI00037FA337
 UniRef90_UPI00035C283B
 UniRef90_UPI00026255E9
 UniRef90_F5SB51
 UniRef90_D3F3N7
 UniRef90_Q1AXS8
 UniRef90_D3QAL4
 UniRef90_UPI00036F405A
 UniRef90_UPI0003B3D5CF
 UniRef90_D9V2N6
 UniRef90_UPI0003613BE4
 UniRef90_X1QV97
 UniRef90_UPI00036A4C23
 UniRef90_F3ZY71
 UniRef90_Z5EPJ9
 UniRef90_R5FFU1
 UniRef90_L0FY42
 UniRef90_X1RDT2
 UniRef90_R5IW24
 UniRef90_E3GEC1
 UniRef90_X0Y0D7
 UniRef90_R6LHU1
 UniRef90_X1LAP2
 UniRef90_UPI00035FF548
 UniRef90_X1NCZ7
 UniRef90_X1M0E1
 UniRef90_O59131
 UniRef90_I6U868
 UniRef90_I3RF52
 UniRef90_C5A757
 UniRef90_F4HK98
 UniRef90_R5TXL2
 UniRef90_C6A1D5
 UniRef90_UPI0003B6AAA0
 UniRef90_U1Y6K4
 UniRef90_E7FHF7
 UniRef90_F0LL40
 UniRef90_G5IA08
 UniRef90_I8T5T5
 UniRef90_X1PDM6
 UniRef90_X1EVR5
 UniRef90_UPI0003B3EC27
 UniRef90_D9WV27
 UniRef90_UPI0003B52064
 UniRef90_B0PG86
 UniRef90_W1V5K2
 UniRef90_UPI00036BC224
 UniRef90_B5H4D6
 UniRef90_N9XQF8
 UniRef90_L0AOC2
 UniRef90_H5XNX4
 UniRef90_G8TX0
 UniRef90_UPI00036D3825
 UniRef90_UPI00036E5ECE
 UniRef90_E8SCC8
 UniRef90_A8RJP6
 UniRef90_UPI00036C1A54
 UniRef90_Q9V0T8
 UniRef90_UPI00036D7439
 UniRef90_B8FVE5
 UniRef90_UPI0003B5C18F
 UniRef90_UPI00037AF636
 UniRef90_I4C1B2
 UniRef90_UPI00047C0105
 UniRef90_UPI00040F7EC3
 UniRef90_UPI000478ADB1
 UniRef90_C1D435
 UniRef90_Q02AC1
 UniRef90_UPI000479C994

170180190200

E K I L F R F R C G L A V S L M R G K S Y L S M G G T V S M G I A G S S T V D P N F
 E K L L R F F A R A A Q A V A T M R G K S Y L S M G G V S M G I A G S S T V D P N F
 Q K L L Q F F T K A G L A V A T M R G K S Y L S M G G V S M G I A G S S T V D P N F
 Q K L L Q F F T K A G L A V A T M R G K S Y L S M G G V S M G I A G S S T V D P N F
 E K L L R Y A R A A G L A V A T G L M R D T A Y L S L M G S V S M G I G G S I I V I D P P F F
 E K L L R F A R A A G L A V A T M R G K S Y L S L Q L G G S V S T M G I G G S I I I V D P P F F
 E K L L R F A R A A G L A V A T S M K G K S Y L S L G G V S M G I A G S S I I V D H H F F
 E K I L L R W A R S A I A V A Q M R G G E S Y L S I G G S Q C M G I A G S S I I D Q D F F
 E K L L R F A R A A G L A V A M Q M R G K S Y L S I G G S V S M G I A G S S T P N D S A F F
 Q K L L Q F F A K C A H V V N S L K G S T Y G L I L G G R S L G M Y S A T V V D S M Q D Q
 A K I L G V Q A V A S A V S N L R G S T F G R F G G R P M G M N T A V A N T D D Q
 Q K L L Q F F T K A G L A V A T M R G K S Y L S L G G V S M G I A G S S T V D H N F
 E K L L R F A R A G L A V A S M K G K S Y L S L G G V S M G I A G S S I V D H N F
 R K I L E T F I R A A S T Y C V K S L R G G S T F G C F G G R P M G M Y T A T V I G A D V L
 R K V M A F I R A G S T Y K K L R G Q R Y G V F G G R S M G M Y T A V P N V D L
 Q K L L Q F F T K A G L A V A T M R G K S Y L S L G G S V S M G I A G S
 E R L L V H V R A A Q A V G G L R G S T F G R F G G R P M G M Y T A V A N T D Q
 R K V L A F V R A A T A R N M L R G Q R Y G L F G G R S M G M Y T A V P N V D L
 E R V M H F V R A A S A A R L L K G E R Y G M F G G R P M G M Y T A S A N G D D Q
 E K I V T F A K C A K V S S L S G S T Y G L I L G G R S L G M Y S T T V S M Q D Q
 E E V A A Q L R A A T A V S R L C G G S T F G K I G G R P M G M N T A T A N T D Q
 K K Y I R F A R C A R V V T R L N G Q K Y G L I L G G R S L G M Y S A T V S M Q D Q
 A A I G P R G N A A A V A K L R G S T F G R I L G G R P M G M N T A V A N T D Q
 D R I L T H V R A G A A V Q Q L R G S T F G R I L G G R P M G M Y T A T A N T D Q
 G R V G A H A R A A A V A S L R G S T F G R F G G R P M G M N T A V A N T D Q
 E K L V I Q F A K A G L V A G I R G K S Y L S L G G S V S M G I A G S
 A R L A A F L I G A E A V Q R L S G T T F G R I G G R P M G M Y T A V S P A D E
 A R L E A H A R A A R A A N G L R G S T F G R I L G G R P M G M Y T A V S N P D D Q
 V R A S A A A A V S L R G S T F G R L G G R P M G M Y T A V A N T D Q
 U P I 0 0 0 3 6 F 4 0 5 A
 U P I 0 0 0 3 B 3 D 5 C F
 E K I T H F A R C A M V V S R L N G Q K Y G L I L G G R S L G M Y S S T V S M Q D Q
 I G A H A S A A A V G T L R G S T F G R F G G R P M G M N T A V A N T D Q
 G A H A S A A A V R G L R G S T F G R F G G R P M G M N T A V A N T D Q
 D R I G A V A G A A A V R G L R G S T F G R F G G R P M G M N T A V A N T D Q
 K N L I D W C F A A V T T V A L R G R R V V I L G H D S M G M E T A L A H V I P
 R I L R F G R A A R A V R R L R G R R C G L L G G R S M G M Y V G T A D T A Q
 L D W L R A S E A Y T M H N E V Y G I Y G G P S M G M D T G Y F H L V P
 E K L L R F A R A G L A V A S G R W R P L C S A L P T A V G
 T K M M P Y I R A A A A V R K L Q G R L F G F I G G R S L G I D T G S F P M Q
 K A L V D W C Y A A V T F Q G L K G K R V V V F G H D S M G M E T A L P H V L P
 T F A R F A S A D E V V E R L H G Q I Y G E I G G R S I Q I V T A E A D P L Q
 E K V D N F Y I K G V Y V A E G I R R S S Y G M L G G R S L G I G T V A D P S Q
 K K M M P Y I K A S A A G R I K G R T F G L F G G R S M G I D T G T F D P M Q
 K N L I D W C Y A A V T T V A L R G R R V V I F G H D S M G M E T A L A H I L P
 E T V L Q F L R A A Y A K K A L A G S T M L R F G G E R S L G I V T A D P V E A L
 A F A R F A R A A V I E R L H G Q I Y G E I G G R S I Q I V T A E A D P L Q
 E A F L H R E R A R S V I N Q L K G S I Y G A V G P R S M Q M W N K I S E A D F
 K N L I D W C Y A A V T A V A L R G R R V V I F G H D S M G M E T A L A H I L P
 N E I V K Y A K A A M V V K R L S K S R F G M F G G R T G M Y T A A A D M T Q
 E L V K S W I R A S E A V K V L S E G S L L L F G G T Y T L G M E H L M D D L P
 E L V K A W A R A S E A I K A L S E R A L L L F G G T Y T L G M E H L M D D L P
 E L V K A W R A A E A V K R L S E R A L L L F G G T Y T L G M E H L M D D L P
 E K V K A W V R A V E A V S K L S R K S I L L W G A P Y T L G M E H L M D D L P
 E K V K A W A R A V E A V S K L S K A S L L L W G A P Y T L G M E H L M D D L P
 E K V K N L L J A Y G V V S K S L K H T L L G L Y R P T A F Y N C A F D E G L
 E K V K A W V R A V E A V S E L S R K S L L L W G P Y T L G M E H L M D D L P
 I A V E D R E K A R K A I S S L S G S I Y G A V G P R S M Q M W N K I S E A D F
 K Q L G E A L A A Q L L R E K A I G V F D E G C M G M Y N A I F D D E
 E K V K A W A R A A E A V S K L S K K S L L L W G A P Y T L G M E H L M D D L P
 G K V K A W R A A V E A V S K L S K K S L L L W G A P Y T L G M E H L M D D L P
 S L L M A Y H I V K C K K T Q L G L G Y R P T A F Y N C A F D E S L
 S K V T N L V T A Y N V V K K L K G T M L G L F G Y R P T A F Y N C S F D E S L
 Q M V A R F A R A D E V I E R L H G Q I Y G E I G G R S I Q I V T A E A D P L Q
 K I V S C R A A Y M K H W L N M S T Y G A F G G R G M G V T C G V A D P S Q
 E W L L S H V R A A L A V E L R E E K A I G V F D E G C M G M Y N A I I D D E
 A T P E R E L G H A V A D Q L M A D K A I G V F D E G C C M G M Y N A I I D D E
 S S D E R D L G V A L A E Q L L R E K A I G V F D E G C C M G M Y N A I I D D E
 K A L R A A W A K N D L S G R N I A L I G G K C M M M Y Q T Q V N E F C
 V K L G R A L A E Q L R T D K A I G I F D E G C C M G M Y N A I I D D E
 D T P E V E L G R A L G D Q L L J A E K A I G V F D E G C C M G M Y N A I I D D E
 E D A E T A L G V A L A R Q L R E E K A I G V F D E G C C M G M Y N A I I D D E
 S K V K N L L R A Y H T I K A M K H T N L G L L G Y R P T A F Y N C S F D E S L
 H R L P G D A R A T L A A R L Q H D K A I G V F D E G C C M G M Y N A I I D D E
 A T P E T E L G E Q L L A A R L L E D K A I G V F D E G C C M G M Y N A I I D D E
 H F I A V C R V V K G M R N V R I G A V F D E G P G A F N T V R Y S E K I
 E K L E Q F G K K L A E D I L R N R R I G Q V F D P G C M G M L N A V M D P A K
 T R L K E W I R Q G S V I T H D M R K A I L G V F D E G C C M G M Y N A I I D D E
 V E L G V A L A R K L V S E R A I G V F D E G C C M G M Y N A I I D D E
 E K V A C F S R A C A L A R N K L N M T T I G A F G G R G M G L T C G C A D P S Q
 K K L G E A L A A Q L K A D K A I I A F D E Y C M G M Y N A I I D D E
 E L V K S W R A V E A V D K L S K G S I L L L G G T Y T L G M E H L M D D L P
 L R Q F I G V C R V V K G M K N V R I G A I G A R P T A F N T V R Y S E K I
 K K V T S F A R A G A V K W L K G K R I G L F G H R P S G Y Y P S N F N E I L
 E W L E S H V R A A Q L L Q Q D K A I G I F D E G C C M G M Y N A I I D D E
 R I L R F G R A R A V R R L R G Q T C G L L G G R S M G M Y V G T A D T A Q
 I S K E A H A H S R L V V E E I R K R R I L A L L G D T S M G M I N G Y F G P R R
 H R S L N L A S L P S Q A R T L R T K K L G V F D E G C C M G M Y N A I I D D E
 H V A S Q E K R L G T A L A Q L R D E K I G I F D E G C C M G M Y N A I I D D E
 H G P E A E L G S A L A Q Q L R D A V I G I F D E G C C M G M Y N A I I D D E
 S R L A E W R T G L A Q S M L J E Q Q A I G T F D E G C C M G M Y N A I I D D E
 H A L G E V L R K A L A R E L L R D K A I G V F D E G C C M G M Y N A I I D D E
 D T P E T Q L G R A L A A E L L A E K A I G I F D E G C C M G M Y N A I I D D E

UniRef90_D6PCI0
UniRef90_E2NKZ2
UniRef90_X0V7T4
UniRef90_X0TRU2
UniRef90_H7PVV7
UniRef90_R7G547
UniRef90_W1GNE1
UniRef90_R5YBH0
UniRef90_K1SX58
UniRef90_T1B4T8
UniRef90_R6NEA5
UniRef90_W5TCC5
UniRef90_X1D611
UniRef90_S1ACS5
UniRef90_UPI00037DE34E
UniRef90_A5IKA8
UniRef90_X0T5X4
UniRef90_UPI00047EC598
UniRef90_A8F356
UniRef90_I2F686
UniRef90_D4LYN2
UniRef90_A0A010ZQ40
UniRef90_C0C0Y7
UniRef90_UPI00037FA337
UniRef90_UPI00035C283B
UniRef90_UPI00026255E9
UniRef90_F5SB51
UniRef90_D3F3N7
UniRef90_Q1AXS8
UniRef90_D3QAL4
UniRef90_UPI00036F405A
UniRef90_UPI0003B3D5CF
UniRef90_D9V2N6
UniRef90_UPI0003613BE4
UniRef90_X1QV97
UniRef90_UPI00036A4C23
UniRef90_F3ZY71
UniRef90_Z5EPJ9
UniRef90_R5FFU1
UniRef90_L0FY42
UniRef90_X1RDT2
UniRef90_R5IW24
UniRef90_E3GEC1
UniRef90_X0Y0D7
UniRef90_R6LHU1
UniRef90_X1LAP2
UniRef90_UPI00035FF548
UniRef90_X1NCZ7
UniRef90_X1M0E1
UniRef90_O59131
UniRef90_I6U868
UniRef90_I3RF52
UniRef90_C5A757
UniRef90_F4HK98
UniRef90_R5TXL2
UniRef90_C6A1D5
UniRef90_UPI0003B6AAA0
UniRef90_U1YGK4
UniRef90_E7FHF7
UniRef90_F0LL40
UniRef90_G5IA08
UniRef90_I8TST5
UniRef90_X1PDM6
UniRef90_X1EVR5
UniRef90_UPI0003B3EC27
UniRef90_D9VV27
UniRef90_UPI0003B52064
UniRef90_B0PG86
UniRef90_W1V5K2
UniRef90_UPI00036BC224
UniRef90_B5H4D6
UniRef90_N9XQF8
UniRef90_L0AOC2
UniRef90_L5XNX4
UniRef90_G8TX0
UniRef90_UPI00036D3825
UniRef90_UPI00036E5ECE
UniRef90_E8SCC8
UniRef90_A8RJP6
UniRef90_UPI00036C1A54
UniRef90_Q9V0T8
UniRef90_UPI00036D7439
UniRef90_B8FVE5
UniRef90_UPI0003B5C18F
UniRef90_UPI00037AF636
UniRef90_I4C1B2
UniRef90_UPI00047C0105
UniRef90_UPI00040F7EC3
UniRef90_UPI000478ADB1
UniRef90_C1D435
UniRef90_Q02AC1
UniRef90_UPI000479C994

210 220 230 240
F E S F L G M R V E F C D M S E F N R R L D A D L F D S E E L I R A K E Y V S T
F Q E Y L G I R T C E S V D L T E I I R R R M T E G I I Y D K E E F A K A M V W T E K
F Q D Y L G M R T E E Y V V D D M S E I I I R R R I K E E E I Y D K E E Y E K A L L S W V K E
F C D Y L G M R N E E Y V V D D M S E I I I R R R I K E E E I Y D K K E Y K K A L L S W V K E
F Q E Y L G M R N E S V V D D M T E E F T R R R M D R E G I I Y D P E E F E R A L L K W V K E
F E E Y L G M R V E S V V D D M T E E I I R R R R M T D R E G I I Y D R T E Y K K A L L A W V K E
UniRef90_W1GNE1 F E E S W L G M K V Q A V V D D M T E L R R R I D D Q G I Y D E A E L E M A L A W A D K E
UniRef90_R5YBH0 F Q E Y L G M R N E S V V D D E V E I I R R R M D E G I I Y D K E E Y A K A M A W V E K
UniRef90_K1SX58 F E T Y L G M R N E F V V D D M T E L T R R R I E R R I D R K I Y D P K E L A H A L K W T K A
UniRef90_T1B4T8 W Q D K F G I D I E H I D D Q S E I V R R L A D T I P Q E Q V D K A F G W L T E E
UniRef90_R6NEA5 W Q R I F G V D V E E I D D Q W E I V R R A E L E A D A A E E V S K A R T W L E E E
UniRef90_W5TCC5 F C D Y L G M G T E E Y V V D D M T E I I R R R I E E E K I Y D D E A E L E M A L A W A D K E
UniRef90_X1D611 F E S W L G M K V Q A V V D D M T E L R R R I D D Q K I Y D E A E L E M A L A W A D K E
UniRef90_S1ACS5 W A K V F G I D V E E H I D D Q W E I V R R A E T I P R E K I E Q A F K W C E E E
UniRef90_UPI00037DE34E W N K I F G V D V E E H I D D Q F E I V R R S Q L I P D E R A R K G R L W L E E
UniRef90_A5IKA8
UniRef90_X0T5X4
UniRef90_UPI00047EC598 W L S T F G V I D V E E E I D D Q W E I V R R S E L I V S S T R A R E G R E W L E K
UniRef90_A8F356 W N K I F G I R D V E E I D D Q L E I V R K S K K I P D Q Q A A K S A R E W L E K
UniRef90_I2F686 W L K E F G V D V E E Q I D D Q Y E I V V R A E K E I P K D V T K A A R E W L E K
UniRef90_D4LYN2 W Q E K F G V D V E E H I D D Q L E I V R K A E E E V D V A Q V E K A Y K W L E K
UniRef90_A0A010ZQ40 W M A T F G I D V E E I D D Q W E I V R R S E E H V E Q S R V T A G R E W L E R
UniRef90_C0C0Y7 W Q K K F G V D V E E H M D D Q S E L V R R L A E E I P E K K V E K A L G W L E D
UniRef90_UPI00037FA337 W Q R Q F G V D V E E E I D D Q W E I V R R A E A A D P A E K R T A R E W L E R
UniRef90_UPI00035C283B W N K V F G V D V E E I D D Q W E I V R R S E N A D A A R V K N A R S W I E R
UniRef90_UPI00026255E9 W M R Q F G V D V E E I D D Q Y E I V L R A E K A D V G E A A K A R R W L E E
UniRef90_F5SB51
UniRef90_D3F3N7 W M R R F G V D V E E E I D D Q Y E I V R R A E Q G V D P A R A R D G R A W L E R
UniRef90_Q1AXS8 W M Q K F G V D V E E E I D D Q W E I V R R S E E G V E A G K V R R A R E W L E E
UniRef90_D3QAL4 W Q R E F G I D V D V E E I D D Q Y E I V R R A E L A D A S E K K H A R E W L E T
UniRef90_UPI00036F405A W Q R L F G V D V E E E I D D Q Y E L V L R A R H A D Q G E V G T A R E W L E R
UniRef90_UPI0003B3D5CF W Q K K F G I D V D H L D D Q S E I L R R L A E E I P E A Q V E K A F E W L S E
UniRef90_D9V2N6 W M R Q F G V D V E E I D D Q Y E L V R R A E E G G S A E A V H G R K W L E Q
UniRef90_UPI0003613BE4 W M R Q F G I D V E E E I D D Q Y E L V L R A E K A Y N E K E L K A L R A W L N R
UniRef90_X1QV97 I R N T F G L E I T R L D M K L L A D M L N K K A Y N E K E L K A L R A W L N R
UniRef90_UPI00036A4C23 W Q S L F G V D L E H V D D Q F E I V R R S Q E I P E D Q V Q K A L D W F K
UniRef90_F3ZY71 N V K T F G T N V F F V D Q L L L K K M E K E V D E A E V E K G F K W F
UniRef90_Z5EPJ9
UniRef90_R5FFU1 W K K L F G I D S D H I L D H E E I V R R A E A L D E S R V E A V F R T W L V D
UniRef90_L0FY42 T R N Q F G I E V T R I L D M K L L A D M L Q K E S Y D K E L K L R T W L E G
UniRef90_X1RDT2 W A K I F A V E T Q P I L D D Q L E I L R A S Q M I I R D K R I N K A F N F L T E
UniRef90_R5IW24 W Q S T F G V E F D H C D D Q E E I V Y R A K A L D E E R V Q K H L K W V K E
UniRef90_E3GEC1 W K R M F K I D S D H I L D H E E I V R R A E V I D E E V R I E K M F L D W L T S
UniRef90_X0Y0D7 I R N T F G L E I T R L D M K L L A D M L N K K A Y N E K E L K S L R A W I N R
UniRef90_R6LHU1 W R Q D F S V S V R Q L P G Q A E I V E L A E A T I P E A E V E R Q L Q W L T R
UniRef90_X1LAP2 W S R I F G V D I R P L Q Q A E I I R K A N Q M I I K D E R I S K A F D F L T R
UniRef90_UPI00035FF548 L K Y F G I A R E G F D G L R L L K M A E K I I S E R K A E A A L N F V L E
UniRef90_X1NCZ7 I R N T F G L E I A R L D M K L L A D M L N I G A V Y Q Y E I E A Q D V P D G K A E E T L G R V K S
UniRef90_X1M0E1 V K N I F G L E Y D Q I D Q H R L V L E A Q D V P D G K A E E T L G R V K S
UniRef90_O59131 G L K S F V G D F I M L D D Q Y T I I K E G E S V N E E Q V N E F Y E W L I K
UniRef90_I6U868 R L K K F V G D F I L L D D Q Y V I K E G E S L E D E K V E E F Y N W L M K
UniRef90_I3RF52 M L K R F V G D F I M L D D Q Y V I K E G E A T S E E E V D R F Y S W L L E
UniRef90_C5A757 G L K R I V G D F I M L D D Q Y V L V R K A E K M L S D E R R V E E F Y D W L T E
UniRef90_F4HK98 R L K R F L G D F I M L D D Q Y V L V R R A E E L L A N E E R I E K F L E W L N S
UniRef90_R5TXL2 I R R T F G V K I E E T D L K V V F D K M A D L P A E K Y E A D M A
UniRef90_C6A1D5 L K R F I G D F I F L D Q Y L I V K R A D W M L S D E K R I E E F F D W L H K
UniRef90_UPI0003B6AAA0 L K Y F G I V R E G F D G L R L L K L A E K V P D D K A E I A L N F L T E
UniRef90_U1YGK4 L L N G L G I Y K E R L S Q S A L W A E M Q R V V G D D K A D A V Q R W L E D
UniRef90_E7FHF7 R L K R F I G D F I L L D D Q Y T I I K R A D S M I S D E K E V E E F F D W L N E
UniRef90_F0LL40 R L K R F L G D F I M L D D Q Y L I V R K A D E M L S D E K K V E E F Y D W L T S
UniRef90_G5IA08 I R R V F G V K I E E T D L K V V F D K M D A L L K E A Y E A D M A
UniRef90_I8TST5 I R K N F G I R I E E T D L K V V F D Q M D N I P K D V Y E A D M A D V T S
UniRef90_X1PDM6 W S R I F G V D I P L G Q A E I R T A Q E I T E E E L A A L K P
UniRef90_X1EVR5 W M R T F G V D I L D T R D T A E L L R T A Q E I T E E E L A A L K P
UniRef90_UPI0003B3EC27 M L N P L G I Y K E R L S Q S A L L F A E M A R V S D A E A D A A F A W L E D
UniRef90_D9VV27 L L N P L G I Y K E R L S Q S A L F A E M S T V P E A E T T A V R T W L T E
UniRef90_UPI0003B52064 L N Q I T G I Y K E R L S Q S A L W A E M Q R V P E Q E A E A V G R W L T E
UniRef90_B0PG86 W K R V F D I D F P Q Y D H V E V F K E L E H I D E A E A Q R L A Q Q
UniRef90_W1V5K2 M L N S L G I Y K E R L S Q S A L W A E M Q T V T S D E E A D A L G D W L I N
UniRef90_UPI00036BC224 L N R T G I Y K E R L S Q S A L Y A E M L N V T D A E A D A R D W L T D
UniRef90_B5H4D6 L L N P L G I Y K E R L S Q S A L V A E M R H V P D E E A L A V R A W L D K
UniRef90_N9XQF8 I R R T F G V K I E E T D L K V V F D K M D A L S A E A W
UniRef90_L0AOC2 L M N P T G M Y K E R L S Q S G L V A E M R L V T D E E A R T A L D W L T S
UniRef90_L5XNX4 L L N P L G I Y K E R L S Q S A L W A E M Q R V D D A E A D A V G E W L K A
UniRef90_G8TX0 L Q R N G I S V T T V D L S E I L L G N A N K L T A D H A R V K E K L E G I K A
UniRef90_UPI00036D3825 L G A V G L P I E Y L N Q S D I L L A E M N L V S D E E A Q K H L D W L V K
UniRef90_UPI00036E5ECE L L N P L G V F K E R L S Q S A L V A R M R L V S D D E A S A V R Q W L N A
UniRef90_E8SCC8 L L N P L G V F K E R L S Q S A L V A E M A R V R T D E A R A V L A W L E A
UniRef90_A8RJP6 F M R E F G V D I D S R D S S M D I L K A E E V T E E I Q D V K E
UniRef90_UPI00036C1A54 L M N P A G I Y K E R L S Q S A L V A E M G K V S D A E A D A V R T W L D E
UniRef90_Q9V0T8 K L K K F V G D F I M L D D Q Y A I I K E G E E V E D G D V E R F Y E W L S
UniRef90_UPI00036D7439 L Q K N G I S V T T V D L S E I L L G H A N K L G P D H P R V K A H L E K I H N
UniRef90_B8FVE5 L R K Q F G I T V E Y L S L S E V F S L A Q K M E I K D T Q P F I N T
UniRef90_UPI0003B5C18F L L N P L G I Y K E R L S Q S A L Y A E M L N V S D A E A N E V R S W L D A
UniRef90_UPI00037AF636 W Q S L F G V D L E H V D D Q F E I V R R S Q E I P E D Q V Q K A L D W F K E
UniRef90_I4C1B2 L A P I G F S E H K V D Q A W I I D R G R S I V D D R L N R A M N F V K K
UniRef90_UPI00047C0105 L L N P L G V F K E R L S Q S A L V A R M R T V T D Q E A E H I R K W L D N
UniRef90_UPI00040F7EC3 M L N Q L G I Y K E R L S Q S A L L A E M G R V P D E A A A A R R W L E E
UniRef90_UPI000478ADB1 L N A T G I Y K E R L S Q S A L L A E M D R V P A S E A E A L A W L E D
UniRef90_C1D435 L L N P L G I Y K E R L S Q S A L Y A G M Q Q V T D S E A E A L D W L L E
UniRef90_Q02AC1 L H A T G V F K E R L S Q S A L F A E M E Q V S D A E A K G V R Q W L D D
UniRef90_UPI000479C994 L L N P I G I Y K E R L S Q S A L W A E M Q R V S D D E A A E V G R W L T D

UniRef90_D6PCI0 H F R E G K D Y N A P G Q Q R P R A Q L D Q E W E T S K M C L I A R D L M V G 250 260 270 280
UniRef90_E2NKZ2 Y C N E G K D F N P P R K D Q D P
UniRef90_X0V7T4 N C P E G K D
UniRef90_X0TRU2 N C Q E G E D R N K K E K H S R T Q K D V E W E M V V K M T L I A R D L M V G
UniRef90_H7PVV7 K C R P D F D K N P V E M Q K T P A Q K E K D W E F T A K M A C I I K D L F N G
UniRef90_R7G547 K
UniRef90_W1GNE1 Y C N E G W D K N R P E K Q K D R P A K D A D W E F V V K M T L I I R D L M I G
UniRef90_R5YBH0
UniRef90_K1SX58 N G P E G L D A N S A S R R R N R A Q K N K E W E H C V K M A L I V R D L M I G
UniRef90_T1B4T8 N V G R I E Y D D K K L T P E K L K Q Q I R H Y E A T
UniRef90_R6NEA5 T T A G V H Y D G D K L T P E L L E R Q I R S Y L A V R D L M V G
UniRef90_W5TCC5 N C K E R E D R N E D L K H S R P Q K D T E W E M V V K M T L I V R D L M V G
UniRef90_X1D611 N F R Y G E D E N N K Q Y Q R N A E Q S R A V L R E S L L M A M C I R D M M Q G
UniRef90_S1ACS5 N V G K I L Y D G K Q L T P E L L K R Q I A S Y Y A V K S L
UniRef90_UPI00037DE34E K A K A F H Y D G K Y L T P E K L E L Q I K S Y H A V R E I
UniRef90_A5IKA8
UniRef90_X0T5X4
UniRef90_UPI00047EC598 H A N V H Y D G K Q L T P E V L L E R Q I R S Y H A V R E S L
UniRef90_A8F356 L T R K I H Y D G K Q L T P E K L E K Q I A L Y E A A L S I I K E Y L Q I K S Y Y A V
UniRef90_I2F686 L A T V K Y D G K Q L T P E K L E K Q I A L Y E A A L S I I K E Y
UniRef90_D4LYN2 N V G K V E F N G T S F T P E K L K T Q L R H Y E A T
UniRef90_A0A010ZQ40 H A A G V H Y D G K Q L T P E L L E R Q I R S Y A M R E L
UniRef90_C0C0Y7 N M G E I R Y N G S S F T P D K L K T Q I S H Y E A L
UniRef90_UPI00037FA337 H A T V R Y D G V L L E R Q I G A Y L A M R S L
UniRef90_UPI00035C283B H A A G V H Y D G R L T P E L L E R Q I R S Y A M R E L I
UniRef90_UPI00026255E9 H A A G V H Y D G Q K L T P E L L E R Q I R S Y L A T R D I I D E
UniRef90_F5SB51
UniRef90_D3F3N7 H A A E V R Y D G D R L T P E L L E R Q I R V Y H A M R E L I
UniRef90_Q1AXS8 H A A G V H Y D G R Q L T P E L L E R Q I R S Y Y A M R E L I
UniRef90_D3QAL4 N A N V H Y D G K L T P E L L E R Q I G S Y M A M R E L I
UniRef90_UPI00036F405A H V I G A V H Y D G K L T P E L L E R Q I R S Y L A V R E L I A
UniRef90_UPI0003B3D5CF N V G E I K Y N G T S F T S E K L K Q Q I R H Y E A T
UniRef90_D9V2N6 H A T V H Y D G D R L T P E L L E R Q L R L Y L A V R D
UniRef90_UPI0003613BE4 Y A A G V H Y D G A K L T P E L L E R Q I R S Y L A I R D I I
UniRef90_X1QV97 Y V G K R L E L R D E A D S E R F N M S L A M Y L I V R D L M A
UniRef90_UPI00036A4C23 K V G H I H W D G K S L T E E K L K L Q I R S Y Y A T
UniRef90_F3ZY71 N D L L G D R I L Y D G H M L T P E T L K T Q I R L Y L A M K L V N
UniRef90_Z5EPJ9
UniRef90_R5FFU1 S V G S V K Y D E K L T E E R L L K Y Q V A C Y L A T K D I I A
UniRef90_L0FY42 H A G D R L E L P D G E K D K L D Q S L A L Y L I V R D L M
UniRef90_X1RDT2 N V P R I E Y E S V N Y E D K F T E D K L K Y Q L A C Y Y A T Q D I I A E
UniRef90_R5IW24 N V K A V N Y N E G D K F T E K T L E L Q V R S Y L A K D M A A
UniRef90_E3GEC1 N V K A V N Y N E K F T K E K L K Y Q I A C Y F A T K D I I
UniRef90_X0Y0D7 H I G K R L E L R D E A D S E R F D M S L A M Y L I V R D L M A
UniRef90_R6LHU1 D G S A D F D E V F T E A A F R R Q I R S Y L A T K Q L I
UniRef90_X1LAP2 Y T K S I N Y E D K F S Q G K L K Y E C Y Y A T Q D I I A E
UniRef90_UPI00035FF548 H G M E I R F G N D P V E S L T K D M V L F Q M K V Y F A L L E L
UniRef90_X1NCZ7
UniRef90_X1M0E1 E F G R I E P P H D V M I R S V K L Y L A L K I R L Y L G A K K I L L G
UniRef90_O59131 N T N V K F D G K M L T P E V L R K Q I R L Y L G
UniRef90_I6U868 N T N V K F D N K M L T P E S V L K K Q I R L Y L G
UniRef90_I3RF52 K A E V K F D D T M L T K E S L R K Q I R L Y L G
UniRef90_C5A757 K T E V K F D D L M L T P E A L R R Q I A I Y L A A K E
UniRef90_F4HK98 N V E I V Y D G K M L T T E V L K K Q I A L Y L A A K D
UniRef90_R5TXL2 K M A E A Y D T G K L P E G H L E N H S R L Y L A L K E V M A
UniRef90_C6A1D5 Y A T I K Y D G T M L T P E A L K R Q I G I Y L A A K D I
UniRef90_UPI0003B6AAA0 K G M D I R L G K N P K N E L T R E M A L Q M K A Y F A
UniRef90_U1YGK4 A G M T F R L G D E A T E L T P A Q L R W Q H K M Y I A A
UniRef90_E7FHF7 K A K V N Y D N K M L T P E V L R R Q I A I Y L A A K D I
UniRef90_F0LL40 K A K V K F D N V M L T Q E A L R R Q I A I Y L A A K D I
UniRef90_G5IA08 K M E Q E F D T S R V P E G H L E N H S K L Y L A A K D V M
UniRef90_I8TST5 N F G T D K L P D G H L E N H S K L Y L A A K D V I
UniRef90_X1PDM6
UniRef90_X1EVR5 R M E S L F G V L P E T S Q V N E R S M R L Y L A I K K L V E K
UniRef90_UPI0003B3EC27 A G L T F H F G T D E A T E L T R A Q V Q S Q L K M Y I A A
UniRef90_D9VV27 R G M R F E T G D E A T E L T D E Q L R Q Q F A M Y I A A L R I S D
UniRef90_UPI0003B52064 A G M T F R T G T D P D T E L T E E Q L T W Q Y K M Y V A A L R I S D
UniRef90_B0PG86 F I D R C E R V N W E L P N G E R I N G D A I L S Q M R L Y L A
UniRef90_W1V5K2 A G M T F R T G D D E A T D L T K T Q L R W Q Y K M Y I A A L H I
UniRef90_UPI00036BC224 R G M T F R T G T D E Q T E L T E A Q V R W Q L K M Y I A A
UniRef90_B5H4D6 A G M T F H T G T D E A T E L T D A Q L L S Q F K M Y I A A L R I S D
UniRef90_N9XQF8 E A D M K M E E S Y S T E K L P E G H L E N H S K L Y L A L K E V M
UniRef90_L0A0C2 R G M T F R F G E D E A T E L T L R Q T L E Q L K M Y I A A
UniRef90_H5XNX4 A G M T F R L G T D E A T E L T E N Q L R W Q Y K M Y I A A L R I S D
UniRef90_G8TX0 Y T P T G K T P N D K L V Q I A K L D V V L A D F M A E
UniRef90_UPI00036D3825 K G T W F D W G T N K F T D L V Y D Q V L S O M K M Y
UniRef90_UPI00036E5ECE K G M R F N T G Q D E K T A L T D R Q I H E Q C K M Y I A A L Q I
UniRef90_E8SCC8 A G M T F H T G T D E A T E L T Y A Q L L S Q C R M Y V A A
UniRef90_A8RJP6 N L I K P Y F Q E M P D D G C T E R S I R L Y L A V K
UniRef90_UPI00036C1A54 A G M T F H I D N D G D W K E C L T D E Q V H S Q M K M Y V A A
UniRef90_Q9V0T8 K A K V K F D G K M L T P E V L K R Q I R L Y L G
UniRef90_UPI00036D7439 Y A S T G K T P S E S L I Q M A K L D V V L N D F M
UniRef90_B8FVE5 L V I G V E G L E M V S T S K S V I Q A Y L A L K E L I A Q
UniRef90_UPI0003B5C18F A G F T F H F G T D E T T E L T E D Q V H S Q F K M Y I A A
UniRef90_UPI00037AF636 K V I G H I H W D G K S L T E E K L K L Q I R S Y Y A T
UniRef90_I4C1B2 T F H W G E D G A D D F D E N T R E Q L R D Y L T V L D L V S E
UniRef90_UPI00047C0105 R G L R F R T G T D E S K Q L T D S Q I L S Q C K M Y I A A
UniRef90_UPI00040F7EC3 A G F T F N F G T D E A S D L T E S Q V H A Q M K M Y I A A
UniRef90_UPI000478ADB1 A G L R F H W G T D E A T E L T R A Q V L S Q M R M Y V A A L R I G D
UniRef90_C1D435 R G M Q F A W G A D P A T E L T R A Q T L D Q L K M Y V A A M R I
UniRef90_Q02AC1 K G M R F A T G S N P E T D L T D D Q L L S Q C K M Y I A A
UniRef90_UPI000479C994 K G M T F R L G T D E K T D L T E R Q L M W Q Y K M Y V A A

UniRef90_D6PCI0 UniRef90_E2NKZ2 UniRef90_X0V7T4 UniRef90_X0TRU2 UniRef90_H7PVV7 UniRef90_R7G547 UniRef90_W1GNE1 UniRef90_R5YBH0 UniRef90_K1SX58 UniRef90_T1B4T8 UniRef90_R6NEA5 UniRef90_W5TCC5 UniRef90_X1D611 UniRef90_S1ACS5 UniRef90_UPI00037DE34E UniRef90_A5IKA8 UniRef90_X0T5X4 UniRef90_UPI00047EC598 UniRef90_A8F356 UniRef90_I2F686 UniRef90_D4LYN2 UniRef90_A0A010ZQ40 UniRef90_C0C0Y7 UniRef90_UPI00037FA337 UniRef90_UPI00035C283B UniRef90_UPI00026255E9 UniRef90_F5SB51 UniRef90_D3F3N7 UniRef90_Q1AXS8 UniRef90_D3QAL4 UniRef90_UPI00036F405A UniRef90_UPI0003B3D5CF UniRef90_D9V2N6 UniRef90_UPI0003613BE4 UniRef90_X1QV97 UniRef90_UPI00036A4C23 UniRef90_F3ZY71 UniRef90_Z5EPJ9 UniRef90_R5FFU1 UniRef90_L0FY42 UniRef90_X1RDT2 UniRef90_R5IW24 UniRef90_E3GEC1 UniRef90_X0Y0D7 UniRef90_R6LHU1 UniRef90_X1LAP2 UniRef90_UPI00035FF548 UniRef90_X1NCZ7 UniRef90_X1M0E1 UniRef90_O59131 UniRef90_I6U868 UniRef90_I3RF52 UniRef90_C5A757 UniRef90_F4HK98 UniRef90_R5TXL2 UniRef90_C6A1D5 UniRef90_UPI0003B6AAA0 UniRef90_U1YGK4 UniRef90_E7FHF7 UniRef90_F0LL40 UniRef90_G5IA08 UniRef90_I8TST5 UniRef90_X1PDM6 UniRef90_X1EVR5 UniRef90_UPI0003B3EC27 UniRef90_D9WV27 UniRef90_UPI0003B52064 UniRef90_B0PG86 UniRef90_W1V5K2 UniRef90_UPI00036BC224 UniRef90_B5H4D6 UniRef90_N9XQF8 UniRef90_L0A0C2 UniRef90_H5XNX4 UniRef90_G8TX0 UniRef90_UPI00036D3825 UniRef90_UPI00036E5ECE UniRef90_E8SCC8 UniRef90_A8RJP6 UniRef90_UPI00036C1A54 UniRef90_Q9V0T8 UniRef90_UPI00036D7439 UniRef90_B8FVE5 UniRef90_UPI0003B5C18F UniRef90_UPI00037AF636 UniRef90_I4C1B2 UniRef90_UPI00047C0105 UniRef90_UPI00040F7EC3 UniRef90_UPI000478ADB1 UniRef90_C1D435 UniRef90_Q02AC1 UniRef90_UPI000479C994

290 300 310 320

N P A L K Q K G W G R

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

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

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

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

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

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

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

UniRef90_UPI00037DE34E C E E L H L D F C G I K G Q P E L T N N F C T M D V A E

UniRef90_A5IKA8 V E E M E L D F V G I K G Q L E L T E H F V T M D V T E

K K I I D E W N L D F S G I K G Q P E L T T H F T T M D I T E

UniRef90_A8F356 K K I C E E F E E L D F T G I K A Q P E L T E H F V T M D L T E

UniRef90_I2F686 K K I I E E N E E L D F I G V K C H Y E M S A H Y C T Q C L S A

UniRef90_D4LYN2 K K I I D E W N L D F S G I K G Q P E L T Q Y F A T M D L T E

UniRef90_A0A010ZQ40 K K I I K E N E Y D F V G V K C H Y E M S R H Y C T E C I C A

UniRef90_C0C0Y7 I D E W E E W N L D F S G I K G Q P E L T A H F A T M D V A E

UniRef90_UPI00037FA337 R K L D F S G I K G Q P E L T E H F A T M D V T E

UniRef90_UPI00035C283B D E R H L D F V G I K G Q P E L T D H Y C T M D V A E

UniRef90_UPI00026255E9 E E W N L D F S G I K A Q P E L T T H F C T M D V T E

UniRef90_F5SB51 E E W N L D F T G I K G Q P E L T Q Y F A T M D I A E

UniRef90_D3F3N7 K R I V Q E N E R G L D F S G I K A Q P E L T E N F A T M D V T E

UniRef90_Q1AXS8 V A A E R H L D F S G I K A Q P E L T E H F A T A D V A E

UniRef90_D3QAL4 E E D L N A L G G G F M S Q L E W G S P L P V A D V M E

UniRef90_UPI00036F405A K D V I K E K G L D F V A V K C Q P E L S D A F V T Q C L S Q

UniRef90_UPI0003B3D5CF E E E G F D F C G L K G Q R E L T E N V C L G D I A E

UniRef90_D9V2N6 D R H L D F G A I K C M P D M T N F R A P Q C I S T

UniRef90_UPI0003613BE4 N E K K Y N K D I A I G G G F M S Q L E W G S Q L P V A D I M E

UniRef90_X1QV97 E K K Y N L D F I G I K C Q P E L S E Y H V T Q C L T Q

UniRef90_UPI00036A4C23 S D R S L D F A A I K C M P D M T N F R I P Q C L S T

UniRef90_F3ZY71 D L N A I G G G F M S Q L E W G S P L P V A D V M E

UniRef90_Z5EPJ9 D R F G G S F L M G I K C Q P E M S E Y V T Q C L A H

UniRef90_R5FFU1 N D K R Q F G L D F I G I Q D Q L D W T D H Y P A T D L S L

UniRef90_L0FY42 K I I S E D S Y D F V G I K C M P E V A D N Y A S C C L A V

UniRef90_X1RDT2 A K K I V E E R K E R V S E S R K E N I I G V S I K C Q P E L S E V Y V T A C C T I P

UniRef90_R5IW24 A K R V W E R Y K D K V I G L S I K C Q P E L S E V Y V T A C C L I P

UniRef90_E3GEC1 S W S E V K G V S A V S I K C Q P E L S E V Y V T A C C L I P

UniRef90_X0Y0D7 S W K E F K D E V M A V S V K C Q P E L S E I Y V T A C C L I P

UniRef90_R6LHU1 E Q H Y D F A A I K C W P E M G N L H T T P C

UniRef90_X1LAP2 W S D H E N E T A A V S I K C Q P E L S E V Y V T G C L I P

UniRef90_UPI00035FF548 L L E L K K Q Y G L D F M G I Q D Q L D W T E H Y P A T D L A L

UniRef90_X1NCZ7 L R I A D D F G L D A V G I Q Y Q Q G L K D I C P A S D L A E

UniRef90_X1M0E1 W K E Y E Q E T V A V S I K C Q P E L S E I Y V T A C C L I P

UniRef90_O59131 W E Q Y K S E V A G V S I K C Q P E L S E I Y V T A C C L I P

UniRef90_I6U868 A E Q G Y D F G T L C C W P E M G N L H T T P C

UniRef90_I3RF52 K Q Q A Y D F A T K C W P E M G N L H T T P C

UniRef90_C5A757 N G W D F Y T I Q S F P G L A D D Y C A T C F A Q

UniRef90_F4HK98 V R I S D D Y G L D A V G I Q Y Q Q G L K D M V P A S D L A E

UniRef90_R5TXL2 D F G L D A V G I Q Y Q Q G L K D L V A A S D L A E

UniRef90_C6A1D5 D F G L D A V G I Q Y Q Q G L K D L S P A S D L A E

UniRef90_UPI0003B6AAA0 Y K R F Q Q L Y D V D M F A T K C M P E L V N K C Y G A C L A T

UniRef90_U1YGK4 A E D F G L D A V G I Q Y Q Q G L K D V C P A S D L V E

UniRef90_E7FHF7 L R I A D D F G L D A V G I Q Y Q Q G L K D L V P A S D L A E

UniRef90_F0LL40 D F G L D A V G I Q Y Q Q G L K D T V P A S D L A E

UniRef90_G5IA08 K D Q Q Y D F G T L K C W P E M G N L H T T P C

UniRef90_I8TST5 V R I A H R F G C D A I G I Q Y Q Q G L K D M A P A S D L A E

UniRef90_X1PDM6 D F G L D A V G I Q Y Q Q G L K D L A P A S D L V E

UniRef90_X1EVR5 A L D A T A I Q C W T S L Q Q N Y C N V C T N M S M M S

UniRef90_UPI0003B3EC27 N S S A V R M V A R Y G L S A I G I P Y Q Y G L V R C C P A S D L V E

UniRef90_D9WV27 A D E F G C D A I G I Q Y Q Q G L K D M V P A S D L V E

UniRef90_UPI0003B52064 L R I A D D F G L D A V G I Q Y Q Q G L K D T V P A S D L A E

UniRef90_B0PG86 K I I E K E K F D M Y V I Q S F P G L A E E Y A S C F T Q

UniRef90_W1V5K2 V R M A D D F G A D V V G I Q Y Q Q G L K D M V P A S D L V E

UniRef90_UPI00036BC224 A K R I W D K R R E E I I G L S V K C Q P E L S E I Y V T A C C T I P

UniRef90_B5H4D6 E E N Q L D A N A I Q C W T S L Q Q N F G C N V C T S S

UniRef90_N9XQF8 K A L D A V A V E C W P E M A G F G G A V C Y A L

UniRef90_L0A0C2 K D I M K E K G L D F V A

UniRef90_H5XNX4 F K T R I A S D F S C D A I G I Q Y Q Q G L K D M V P A S D L V E

UniRef90_G8TX0 V R I A D D F G D A I G I Q Y Q Q G L K D M A P A S D L P E

UniRef90_UPI00036D3825 D F G V D A I G I Q Y Q Q G L K D Q C A S D L A E

UniRef90_UPI00036E5ECE A A F G C D A I G I Q Y Q Q G L K D L A P A S D L A E

UniRef90_E8SCC8 L R I A D D F G C D T I G I Q Y Q Q G L K D L A P A S D L A E

UniRef90_A8RJP6 V R L T D D F G L D S I G I Q Y Q Q G L K D L S P A S D L V E

UniRef90_UPI00036C1A54 V R I S D D Y G L D A V G I Q Y Q Q G L K N L V P A S D L A E

UniRef90_Q9V0T8 T R I A S D F S C D A I G I Q Y Q Q G L K D M V P A S D L V E

UniRef90_UPI00036D7439 V R I A D D F G D A I G I Q Y Q Q G L K D M A P A S D L P E

UniRef90_B8FVE5 A A F G C D A I G I Q Y Q Q G L K D L A P A S D L A E

UniRef90_UPI0003B5C18F L R I A D D F G C D T I G I Q Y Q Q G L K D L A P A S D L A E

UniRef90_UPI00037AF636 V R L T D D F G L D S I G I Q Y Q Q G L K D L S P A S D L V E

UniRef90_I4C1B2 F K T R I A S D F S C D A I G I Q Y Q Q G L K D M V P A S D L V E

UniRef90_UPI00047C0105 V R I A D D F G D A I G I Q Y Q Q G L K D M A P A S D L P E

UniRef90_UPI00040F7EC3 A A F G C D A I G I Q Y Q Q G L K D L A P A S D L A E

UniRef90_UPI000478ADB1 L R I A D D F G C D T I G I Q Y Q Q G L K D L A P A S D L A E

UniRef90_C1D435 V R L T D D F G L D S I G I Q Y Q Q G L K D L S P A S D L V E

UniRef90_Q02AC1 V R L T D D F G L D S I G I Q Y Q Q G L K D L S P A S D L V E

UniRef90_UPI000479C994 V R L T D D F G L D S I G I Q Y Q Q G L K D L S P A S D L V E

UniRef90_D6PCI0
 UniRef90_E2NKZ2
 UniRef90_X0V7T4
 UniRef90_X0TRU2
 UniRef90_H7PVV7
 UniRef90_R7G547
 UniRef90_W1GNE1
 UniRef90_R5YBH0
 UniRef90_K1SX58
 UniRef90_T1B4T8
 UniRef90_R6NEA5
 UniRef90_W5TCC5
 UniRef90_X1D611
 UniRef90_S1ACS5
 UniRef90_UPI00037DE34E
 UniRef90_A5IKA8
 UniRef90_X0T5X4
 UniRef90_UPI00047EC598
 UniRef90_A8F356
 UniRef90_I2F686
 UniRef90_D4LYN2
 UniRef90_A0A010ZQ40
 UniRef90_C0C0Y7
 UniRef90_UPI00037FA337
 UniRef90_UPI00035C283B
 UniRef90_UPI00026255E9
 UniRef90_F5SB51
 UniRef90_D3F3N7
 UniRef90_Q1AXS8
 UniRef90_D3QAL4
 UniRef90_UPI00036F405A
 UniRef90_UPI0003B3D5CF
 UniRef90_D9V2N6
 UniRef90_UPI0003613BE4
 UniRef90_X1QV97
 UniRef90_UPI00036A4C23
 UniRef90_F3ZY71
 UniRef90_Z5EPJ9
 UniRef90_R5FFU1
 UniRef90_L0FY42
 UniRef90_X1RDT2
 UniRef90_R5IW24
 UniRef90_E3GEC1
 UniRef90_X0Y0D7
 UniRef90_R6LHU1
 UniRef90_X1LAP2
 UniRef90_UPI00035FF548
 UniRef90_X1NCZ7
 UniRef90_X1M0E1
 UniRef90_O59131
 UniRef90_I6U868
 UniRef90_I3RF52
 UniRef90_C5A757
 UniRef90_F4HK98
 UniRef90_R5TXL2
 UniRef90_C6A1D5
 UniRef90_UPI0003B6AAA0
 UniRef90_U1YK4
 UniRef90_E7FHF7
 UniRef90_F0LL40
 UniRef90_G5IA08
 UniRef90_I8TST5
 UniRef90_X1PDM6
 UniRef90_X1EVR5
 UniRef90_UPI0003B3EC27
 UniRef90_D9WV27
 UniRef90_UPI0003B52064
 UniRef90_B0PG86
 UniRef90_W1V5K2
 UniRef90_UPI00036BC224
 UniRef90_B5H4D6
 UniRef90_N9XQF8
 UniRef90_L0AOC2
 UniRef90_H5XNX4
 UniRef90_G8TX0
 UniRef90_UPI00036D3825
 UniRef90_UPI00036E5ECE
 UniRef90_E8SCC8
 UniRef90_A8RJP6
 UniRef90_UPI00036C1A54
 UniRef90_Q9V0T8
 UniRef90_UPI00036D7439
 UniRef90_B8FVE5
 UniRef90_UPI0003B5C18F
 UniRef90_UPI00037AF636
 UniRef90_I4C1B2
 UniRef90_UPI00047C0105
 UniRef90_UPI00040F7EC3
 UniRef90_UPI000478ADB1
 UniRef90_C1D435
 UniRef90_Q0ZAC1
 UniRef90_UPI000479C994

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

UniRef90_D6PCI0
UniRef90_E2NKZ2
UniRef90_X0V7T4
UniRef90_X0TRU2
UniRef90_H7PVV7
UniRef90_R7G547
UniRef90_W1GNE1
UniRef90_R5YBH0
UniRef90_K1SX58
UniRef90_T1B4T8
UniRef90_R6NEA5
UniRef90_W5TCC5
UniRef90_X1D611
UniRef90_S1ACS5
UniRef90_UPI00037DE34E
UniRef90_A5IKA8
UniRef90_X0T5X4
UniRef90_UPI00047EC598
UniRef90_A8F356
UniRef90_I2F686
UniRef90_D4LYN2
UniRef90_A0A010ZQ40
UniRef90_C0C0Y7
UniRef90_UPI00037FA337
UniRef90_UPI00035C283B
UniRef90_UPI00026255E9
UniRef90_F5SB51
UniRef90_D3F3N7
UniRef90_Q1AXS8
UniRef90_D3QAL4
UniRef90_UPI00036F405A
UniRef90_UPI0003B3D5CF
UniRef90_D9V2N6
UniRef90_UPI0003613BE4
UniRef90_X1QV97
UniRef90_UPI00036A4C23
UniRef90_F3ZY71
UniRef90_Z5EPJ9
UniRef90_R5FFU1
UniRef90_L0FY42
UniRef90_X1RDT2
UniRef90_R5IW24
UniRef90_E3GEC1
UniRef90_X0Y0D7
UniRef90_R6LHU1
UniRef90_X1LAP2
UniRef90_UPI00035FF548
UniRef90_X1NCZ7
UniRef90_X1M0E1
UniRef90_O59131
UniRef90_I6U868
UniRef90_I3RF52
UniRef90_C5A757
UniRef90_F4HK98
UniRef90_R5TXL2
UniRef90_C6A1D5
UniRef90_UPI0003B6AAA0
UniRef90_U1YGK4
UniRef90_E7FHF7
UniRef90_F0LL40
UniRef90_G5IA08
UniRef90_I8TST5
UniRef90_X1PDM6
UniRef90_X1EVR5
UniRef90_UPI0003B3EC27
UniRef90_D9WV27
UniRef90_UPI0003B52064
UniRef90_B0PG86
UniRef90_W1V5K2
UniRef90_UPI00036BC224
UniRef90_B5H4D6
UniRef90_N9XQF8
UniRef90_L0A0C2
UniRef90_H5XNX4
UniRef90_G8TIX0
UniRef90_UPI00036D3825
UniRef90_UPI00036E5ECE
UniRef90_E8SCC8
UniRef90_A8RJP6
UniRef90_UPI00036C1A54
UniRef90_Q9V0T8
UniRef90_UPI00036D7439
UniRef90_B8FVE5
UniRef90_UPI0003B5C18F
UniRef90_UPI00037AF636
UniRef90_I4C1B2
UniRef90_UPI00047C0105
UniRef90_UPI00040F7EC3
UniRef90_UPI000478ADB1
UniRef90_C1D435
UniRef90_Q02AC1
UniRef90_UPI000479C994

	1	10	20	30	40
UniRef90_D7CSI2					
UniRef90_UPI00047995AC					
UniRef90_D2R0S1					
UniRef90_UPI00036B582E					
UniRef90_UPI0004789055					
UniRef90_G0IVG8					
UniRef90_UPI00037149B5					
UniRef90_X1TLU1					
UniRef90_L0DKL8					
UniRef90_UPI000471180A					
UniRef90_B0M9Y1					
UniRef90_E8N4N3					
UniRef90_D1PI96					
UniRef90_UPI000413F89D					
UniRef90_R7ZMZ5					
UniRef90_UPI00036D0E08					
UniRef90_UPI000372675A					
UniRef90_W0IVJ2					
UniRef90_UPI00047818BE					
UniRef90_UPI00036D0E08					
UniRef90_M5SBA1					
UniRef90_C6Y1L9					
UniRef90_UPI00041BE8C9					
UniRef90_UPI0002558A0E					
UniRef90_UPI0003B66B87					
UniRef90_S0FGZ4					
UniRef90_I0IEI9					
UniRef90_W0F4Z0					
UniRef90_UPI00029A6F1C					
UniRef90_C6Y170					
UniRef90_UPI0003B76EA7					
UniRef90_UPI0003FC2FA7					
UniRef90_L0G577					
UniRef90_UPI0001744E39					
UniRef90_B4EZP2					
UniRef90_UPI0004636202					
UniRef90_UPI0004655EF2					
UniRef90_L0FX13					
UniRef90_UPI00036F814A					
UniRef90_H1YHP8					
UniRef90_UPI00047DE37C					
UniRef90_W6W9P8					
UniRef90_UPI00037DA8F3					
UniRef90_UPI0003B42864					
UniRef90_F4CFL2					
UniRef90_I3ZBW1					
UniRef90_UPI0003A82481					
UniRef90_B6R4F6					
UniRef90_H1YEQ5					
UniRef90_U2J462					
UniRef90_DOMES0					
UniRef90_UPI00046597A7					
UniRef90_UPI000463AEC0					
UniRef90_B5JCW5					
UniRef90_C0C1I0					
UniRef90_N2AX75					
UniRef90_C6VXK8					
UniRef90_V3TML2					
UniRef90_R7JRY9					
UniRef90_B9KA18					
UniRef90_R6FZX9					
UniRef90_X0NC22					
UniRef90_S0FGE2					
UniRef90_L4M2V9					
UniRef90_G5IEV1					
UniRef90_M3HYW9					
UniRef90_J9Z094					
UniRef90_UPI000410830E					
UniRef90_E0SEP7					
UniRef90_A0A023CZ64					
UniRef90_I0I7N5					
UniRef90_H9UFE0					
UniRef90_A8F6D0					
UniRef90_M1MKX4					
UniRef90_R5N7G5					
UniRef90_S6ER19					
UniRef90_W0HT76					
UniRef90_B9XQI3					
UniRef90_R6W1W7					
UniRef90_UPI00036A2422					
UniRef90_Q74J46					
UniRef90_C0D796					
UniRef90_UPI0004017F32					
UniRef90_S5KBA3					
UniRef90_D4JQT6					
UniRef90_I0I6H4					
UniRef90_G8NYM0					
UniRef90_E1RCT6					
UniRef90_R5C953					
UniRef90_E6QNA2					

[R][L]T A N Q R [C] W A A Q A E M E T Q [L] T E A [V] E A

M R E R [K][V][G][V] F S P N D P R P W [V] R S Q N [L][G][L][L][K] Q E F S [L]

M G K K [K][K][G] F [L] P [L] T K [V] N W T N E A M Q K Q R R D A

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

G D [L] R E S A N [L] Q [C] W P T Q K A

K [L]

R [L]

A M E A K

E S

R [L]

R [L]

N M E S R

Q Q F E G R

M Q N A R P T [L][G][I][V] G N R N F F A D S [L]

D K [K][K][G] F A P T R R N [L] F S A D A A [L] E

E [L]

H [L]

A E [L]

UniRef90_D7CSI2
UniRef90_UPI00047995AC
UniRef90_D2R0S1
UniRef90_UPI00036B582E
UniRef90_UPI0004789055
UniRef90_G0IVG8
UniRef90_UPI00037149B5
UniRef90_X1TLU1
UniRef90_L0DKL8
UniRef90_UPI000471180A
UniRef90_B0M9Y1
UniRef90_E8N4N3
UniRef90_D1PI96
UniRef90_UPI000413F89D
UniRef90_R7ZM25
UniRef90_R7LC26
UniRef90_B1ZTE3
UniRef90_A3ZUS2
UniRef90_UPI000372675A
UniRef90_W0IVJ2
UniRef90_UPI00047818BE
UniRef90_UPI00036D0E08
UniRef90_M5SBA1
UniRef90_C6Y1L9
UniRef90_UPI00041BE8C9
UniRef90_UPI0002558A0E
UniRef90_UPI0003B66B87
UniRef90_S0FGZ4
UniRef90_I0IEI9
UniRef90_W0F4Z0
UniRef90_UPI00029A6F1C
UniRef90_C6Y170
UniRef90_UPI0003B76EA7
UniRef90_UPI0003FC2FA7
UniRef90_L0G577
UniRef90_UPI0001744E39
UniRef90_B4EZP2
UniRef90_UPI0004636202
UniRef90_UPI0004655EF2
UniRef90_L0FX13
UniRef90_UPI00036F814A
UniRef90_H1YHP8
UniRef90_UPI00047DE37C
UniRef90_W6W9P8
UniRef90_UPI00037DA8F3
UniRef90_UPI0003B42864
UniRef90_F4CFL2
UniRef90_I3ZBW1
UniRef90_UPI0003A82481
UniRef90_B6R4F6
UniRef90_H1YEQ5
UniRef90_U2J462
UniRef90_DOMES0
UniRef90_UPI00046597A7
UniRef90_UPI000463AEC0
UniRef90_B5JCW5
UniRef90_C0C110
UniRef90_N2AX75
UniRef90_C6VXK8
UniRef90_V3TML2
UniRef90_R7JRY9
UniRef90_B9KA18
UniRef90_R6FZX9
UniRef90_X0NC22
UniRef90_S0FGE2
UniRef90_L4M2V9
UniRef90_G5IEV1
UniRef90_M3HYW9
UniRef90_J9Z094
UniRef90_UPI000410830E
UniRef90_E0SEP7
UniRef90_AA0A23CZ64
UniRef90_I017N5
UniRef90_H9UFE0
UniRef90_A8F6D0
UniRef90_M1MKX4
UniRef90_R5N7G5
UniRef90_S6ER19
UniRef90_W0HT76
UniRef90_B9XQI3
UniRef90_R6W1W7
UniRef90_UPI00036A2422
UniRef90_Q74J46
UniRef90_C0D796
UniRef90_UPI0004017F32
UniRef90_S5KBA3
UniRef90_D4JQT6
UniRef90_I0I6H4
UniRef90_G8NYM0
UniRef90_E1RCT6
UniRef90_R5C953
UniRef90_E6QNA2

50 60 70 80

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

UniRef90_D7CSI2 T[V]P K D A P L V V A A V W Q Y S H H V L L R D H R G P I L T V A N W S G Q W P
UniRef90_UPI00047995AC S I D P T A P L I V A A S V W Q Y S H H V L L I T H R Q G P I L T V A N W S G E W P
UniRef90_D2R0S1 E I D P D A P L I V A A V W Q Y S H H V L L I S T H R G P I L T V A N W S G T K P
UniRef90_UPI00036B582E G R G V T V L V V V Q P T I S D G R L A P L L S R I W E K P I L L W A T T E K P
UniRef90_UPI0004789055 K I P A D A L V F A T A A W Q Y T H H V L M R S H Q G P I L T V A N W S G Q W P
UniRef90_G0IVG8 Q I P A E A P V V V E A S V W Q Y S H H V L L I S H R G P I L T V A N W S G E W P
UniRef90_UPI00037149B5 K E N P D A L I I N E G A W T F P Y D S V D A V K A F M R I I F T C K D P K I P
UniRef90_X1TLU1 K E N P D A L I I N E G A W T F P Y D S V D A V K A F M R I I F T C K D P K I P
UniRef90_L0DKL8 K E N P D A L I I N E G A W T F P Y D S V D A V K A F M R I I F T C K D P K I P
UniRef90_UPI000471180A K H R E D T A G V L V L L P N F G D E K G V A D T N V P V L L Q A Y P D D R R D
UniRef90_B0M9Y1 N E H A D C L L Q C G T F C G G E E L L A L A Q R L P V V L W G F P E P E A
UniRef90_E8N4N3 A H R D E L D G L L V T L P N F G E E K A L A N T N V P V L L H A F P D D R R D
UniRef90_D1PI96 A A G V D G L L L A H C N F G T E R L A K D L G V P V L L W G P L D P E P
UniRef90_UPI000413F89D K S R P D M L V A L F A T F S L G T V S L F A K N V P V L L W S P P P A
UniRef90_R7ZM25 E I D P T A P L I V A A V W Q Y S H H V L L I S H R G P I L T V A N W S G Q W P
UniRef90_R7LC26 T I P R D A P L I V A A V W Q Y S H H V L L R D H R G P I L T V A N W S G Q W P
UniRef90_B1ZTE3 R M D P T A P V I V A S V W Q Y S H H V L L V S H R G P I L T V A N W S G T W P
UniRef90_A3ZUS2 R M D P T A P V I V A S V W Q Y S H H V L L V S H R G P I L T V A N W S G T W P
UniRef90_UPI000372675A R M D P T A P V I V A S V W Q Y S H H V L L V S H R G P I L T V A N W S G T W P
UniRef90_W0IVJ2 R M D P T A P V I V A S V W Q Y S H H V L L V S H R G P I L T V A N W S G T W P
UniRef90_UPI00047818BE R M D P T A P V I V A S V W Q Y S H H V L L V S H R G P I L T V A N W S G T W P
UniRef90_UPI00036D0E08 R M D P T A P V I V A S V W Q Y S H H V L L V S H R G P I L T V A N W S G T W P
UniRef90_M5SBA1 E I D P D A P L I V A A V W Q Y S H H I L L T T H R G P I L T V A N W S G Q W P
UniRef90_C6Y1L9 E I D P D A P L I V A A V W Q Y S H H I L L T T H R G P I L T V A N W S G Q W P
UniRef90_UPI00041BE8C9 E I D P D A P L I V A A V W Q Y S H H I L L T T H R G P I L T V A N W S G Q W P
UniRef90_UPI0002558A0E G L D P D A P L I V A A V W Q Y S H H V L L T T H R G P I L T L A N W S G Q W P
UniRef90_UPI0003B66B87 T L D P H Q P L I V A S V W Q Y S H H V L L T T H K G P I L T V A N W S G Q W P
UniRef90_S0FGZ4 S I H P D A P V V V A A V W Q Y S S H V L L C Q H R G P V L V L A N W S G T W P
UniRef90_I0IEI9 R E T I E G V L V L L P N F G D E K G L A G L D V P V L V Q A Y P D D R R D
UniRef90_W0F4Z0 E I P A D A P L I V A A V W Q Y S H H V L L S T H R G P I L T L A N W S G Q W P
UniRef90_UPI00029A6F1C R E E I T G V L V L P N F G D E R G V A E T N V P V L I Q A Y P D D R R D
UniRef90_C6Y170 T I P R E V P L V V I G N W Q Y S H H V L L R T H S G P I L T V A N F L P G W P
UniRef90_UPI0003B76EA7 N I D P H A P I I V A S V W Q Y S H H V L L T T Q K G P I L T L A N F D G A S S
UniRef90_UPI0003FC2FA7 N I D P H A P I I V A S V W Q Y S H H V L L T T Q K G P I L T L A N F D G A S S
UniRef90_L0G577 N V D P D A P L I V A A V W Q Y S H H V L L T T H R G P I L T V A N W S G Q W P
UniRef90_UPI0001744E39 A I D P D A P V I V L L T W Q Y S H H S S L A H H R G P I L L L A N F D G T W P
UniRef90_B4E2P2 A I D P D A P V I V L L T W Q Y S H H S S L A H H R G P I L L L A N F D G T W P
UniRef90_UPI0004636202 K H R D D I M G V L V L P N F G D E R G L A N L N V P V L V Q G Y P D D R R D
UniRef90_UPI0004655EF2 K N A D K I D G I L V C L P N F G D E K G V A D A I R P I L I Q G Y P D R R R D
UniRef90_L0FX13 R E E I T G I M V F L P N F G D E K G V A D T N V P V L I Q A Y P D D R R D
UniRef90_UPI00036F814A T I D P D A P V I V L L T W Q Y S H H I S L A T H R G P V L L L A N F D G T W P
UniRef90_H1YHP8 T I D P H V P V I V A S V W Q Y S H H V L L T S H K G P I L T V A N W S G Q W P
UniRef90_UPI00047DE37C K H A D D M M G V L V L P N F G D E K G L A R L D V P V L L Q A Y P D D R R D
UniRef90_W6W9P8 P D L I V L Q N V T F A N A Y A S E V M H H F S S V P L L L W T R E P V I D
UniRef90_UPI00037DA8F3 R H A S E I V G I L V L P N F G D E R G L A G L D V P V L V Q A Y P D R R R D
UniRef90_UPI0003B42864 T I P P D A P L V F T A A W Q Y T H H V L M R S H R G P I L T V A N W S G Q W P
UniRef90_F4CFL2 Q I D A D A P V I V L L T W Q Y S H H I S L I H H R G P V L L L A N F D G T W P
UniRef90_UPI0003A82481 K I D P E A P L I V L L T W Q Y S H H I S L A K H K G P I L L L A N F D G T W P
UniRef90_B6R4F6 N I D P T K P I V L E T W Q Y T H H V L L E T H Q G P I L T M A N W S G T A P
UniRef90_H1YEQ5 N I D P T K P I V L E T W Q Y T H H V L L E T H Q G P I L T M A N W S G T A P
UniRef90_U2J462 N I D K D A P L I V A S V W Q Y S H H V L L I A H R G P I L V V A N W S G T Y P
UniRef90_D0MES0 A H R D E L D G V L V S L P N F G D E R A L A N T D V P V L I H A F P D Q R R D
UniRef90_UPI00046597A7 E Q G V D G L F V P H G N F G T E R L A K E L N V P V L L W G P R D E R P
UniRef90_UPI000463AEC0 A H R E E I G G V Y V C L P N F G D E K G V A D T D V P V L V Q G Y P D D R R D
UniRef90_B5JCW5 E N A D R L Q G I L V C L P N F G D E V G V V S A N V P V L V Q A C D D G R R D
UniRef90_C0C110 R E N I D G L F L P H C N F G T E R L A K D L N V P V L L W G P L D P E A D
UniRef90_N2AX75 A H R D E I M G V L V L P N F G D E R G L A D L N V P V L V Q G Y P D D R R D
UniRef90_C6VXK8 A I D P D A P V I V L L T W Q Y S H H I S L V H H R G P V L L L A N F D G T W P
UniRef90_V3TML2 R E N V D K G I F F P H G N F G T E R L A K E M G L P V L L W G L R D P D E N
UniRef90_R7JRY9 E K A G E I D G I I V T L P N F G D E K G V A Q A N V P V L V H A F P D D R R D
UniRef90_B9KA18 D A K V D G L F V P H C N F G T E R L A K K L N V P V L L W G P R D P D E N
UniRef90_R6FZX9 A I A P E A P V I V L I T W Q Y S H H S S L V H H K G P I L L L A N F E G T Y P
UniRef90_X0NC22 S E K I D G L F L P H C N F G T E R L A K T L N V P V L L W G P R D E R P
UniRef90_S0FGE2 T L D P D A P V I V L L T W Q Y S H H I S L V H H R G P V L L L A N F D G T W P
UniRef90_L4M2V9 A A K V D G L F F P H G N F G T E R L A K E L N V P V L L W G P R D E R P
UniRef90_G5IEV1 K I N R D A P L I V A A V W Q Y S Q L A G L I A H R G P I L T V A N W S G T Y P
UniRef90_M3HYW9 A E Q I E G I L V I L P N F G D E K G V A D T N V P V L I Q A T P D D R R D
UniRef90_J9Z094 A H R D D I D G L V I S L A N F G D E V M A A G L N V P I L L Q A C N D S R R D
UniRef90_UPI000410830E A L D P D A P V I V L L T W Q Y S H H V S L V H H R G P V L L L A N F D G T W P
UniRef90_E0SEP7 A E N I D G L F L P H C N F G T E R L A K D L N V P V L L W G P D G P N R D
UniRef90_AA023CZ64 R N R D R I D G I L V T L P N F G D E K G I A D A N V P V L V H A F P D T R R D
UniRef90_I01N5 T A G V T V M L L V Q P T I S D G R L A P M L A R L W Q R P I L L W A T T E K P
UniRef90_H9UFE0 A E E I D G I I V T L P N F G D E R S A A T A N V P V L V H A F P D D R R D
UniRef90_A8F6D0 K E K V D A I L F F P H C N F G T E R L A K A K M Q L P V L L W G P R D D A R D
UniRef90_M1MKX4 Q N R I D G I I V S L P N F G F I N A I S I A D L N V P V L V Q A C D D S R R D
UniRef90_R5N7G5 F K A A D I D G L F I A N E N F G T E R L A K N L D V P V L L W G P K D E R P
UniRef90_S6ER19 H I D A D A P L I V L L T W Q Y S H H I S L V H H R G P V L L L A N F D G T W P
UniRef90_W0HT76 K L D P N A P L I V A S V W Q Y S H H L L H G L L Q G P I L T V A N W S G T W P
UniRef90_B9XQI3 R D R I D G I I V S L P N F G F I N A I S V A D L H V P V L V Q A C D D S R R D
UniRef90_R6W1W7 A H R D D I D G V I V T L P N F G D E R A L A D L R V P V L I Q A T P D T R R D
UniRef90_UPI00036A2422 K A K T D G L F I A N E N F G T E R L A K L N V P V L L W G P K D P A P D
UniRef90_Q74J46 R E G I D G L F F P H C N F G T E R M A R N L N V P V L L W G P R D E R P
UniRef90_C0D796 R E K V D G L F L P H C N F G T E R L A K E L N V P V L L W G P R D P E P D
UniRef90_UPI0004017F32 K A G I Q G L F L P H T N F G T E R L A K E L D V P V L L W G P R D P D E N
UniRef90_S5KBA3 A E K V D G I F F P H G N F G T E R L A K E M N L P V L L W G P C P D P E R D
UniRef90_D4JQT6 R H R E E I D G V L V T L P N F G E E R A I A D T D V P V L I Q A F P D D R R D
UniRef90_I016H4 K H A S E I D G I I T L P N F G E E R G L A D A Q V P V L I Q A T P D H R R D
UniRef90_G8NYM0 A H R G D I D G V I V L P N F G D E L T M A D L K V P V L V Q A A N D Q R R D
UniRef90_E1RCT6 A N R D D I D G I V S L P N F G D E V G I I N A H V P V L V Q A C D D S R R D
UniRef90_R5C953 K E T I D G I L V T I L P N F G D E R G V A D A I R P V L V Q A T P D T R R D
UniRef90_E6QNA2 K E T I D G I L V T I L P N F G D E R G V A D A I R P V L V Q A T P D T R R D

UniRef90_D7CSI2
UniRef90_UPI00047995AC
UniRef90_D2R0S1
UniRef90_UPI00036B582E
UniRef90_UPI0004789055
UniRef90_G0IVG8
UniRef90_UPI00037149B5
UniRef90_X1TLU1
UniRef90_L0DKL8
UniRef90_UPI000471180A
UniRef90_B0M9Y1
UniRef90_E8N4N3
UniRef90_D1PI96
UniRef90_UPI000413F89D
UniRef90_R7ZMZ5
UniRef90_R7LC26
UniRef90_B1ZTE3
UniRef90_A3ZUS2
UniRef90_UPI000372675A
UniRef90_W0IVJ2
UniRef90_UPI00047818BE
UniRef90_UPI00036D0E08
UniRef90_M5SBA1
UniRef90_C6Y1L9
UniRef90_UPI00041BE8C9
UniRef90_UPI0002558A0E
UniRef90_UPI0003B66B87
UniRef90_S0FGZ4
UniRef90_I0IEI9
UniRef90_W0F4Z0
UniRef90_UPI00029A6F1C
UniRef90_C6Y170
UniRef90_UPI0003B76EA7
UniRef90_UPI0003FC2FA7
UniRef90_L0G577
UniRef90_UPI0001744E39
UniRef90_B4E2P2
UniRef90_UPI0004636202
UniRef90_UPI0004655EF2
UniRef90_L0FX13
UniRef90_UPI00036F814A
UniRef90_H1YHP8
UniRef90_UPI00047DE37C
UniRef90_W6W9P8
UniRef90_UPI00037DA8F3
UniRef90_UPI0003B42864
UniRef90_F4CFL2
UniRef90_I3ZBW1
UniRef90_UPI0003A82481
UniRef90_B6R4F6
UniRef90_H1YEQ5
UniRef90_U2J462
UniRef90_D0MES0
UniRef90_UPI00046597A7
UniRef90_UPI000463AEC0
UniRef90_B5JCW5
UniRef90_C0C110
UniRef90_N2AX75
UniRef90_C6VXK8
UniRef90_V3TML2
UniRef90_R7JRY9
UniRef90_B9KA18
UniRef90_R6FZX9
UniRef90_X0NC22
UniRef90_S0FGE2
UniRef90_L4M2V9
UniRef90_G5IEV1
UniRef90_M3HYW9
UniRef90_J9Z094
UniRef90_UPI000410830E
UniRef90_E0SEP7
UniRef90_A0A023CZ64
UniRef90_I017N5
UniRef90_H9UFE0
UniRef90_A8F6D0
UniRef90_M1MKX4
UniRef90_R5N7G5
UniRef90_S6ER19
UniRef90_W0HT76
UniRef90_B9XQI3
UniRef90_R6W1W7
UniRef90_UPI00036A2422
UniRef90_Q74J46
UniRef90_C0D796
UniRef90_UPI0004017F32
UniRef90_S5KBA3
UniRef90_D4JQT6
UniRef90_I016H4
UniRef90_G8NYM0
UniRef90_E1RCT6
UniRef90_R5C953
UniRef90_E6QNA2

UniRef90_D7CSI2 S A L S A E A G A H L A E T L R R D K A I G V F D E G C M G M Y N A I I D D E
UniRef90_UPI00047995AC H V K A F D K A A F A K A F R K D K A I G V F D E G C M G M F N A I I V P D D H
UniRef90_D2R0S1 K E L P S R E R K Q A L A K E L L R G D K A I G V F D E G C M G M F N A I I V P D D H
UniRef90_UPI00036B582E R E I L Y T R E L V H A A Q O S T R G K I F G V I G Y H A P G F I D F H A D P V F
UniRef90_UPI0004789055 K L P A G P A A L G L A E E L L K R K V I G V F D E G C M G M Y N A I I T D D D E
UniRef90_G0IVG8 H V L R D F A K A V E A K E F R R D K A I G V F D E G C M G M F N A I I V P D D H
UniRef90_UPI00037149B5 V K L P R G D A G F S E A R K L H R D K A I G V F D E G C M G M F N A I I V P D D H
UniRef90_X1TLU1 I L R F K K A K S A I E A L G E Q K Y L A F G G M A L R M P T T T C D V D Q
UniRef90_L0DKL8 E R L D E W C T T G R V L A E L R R K R I L A L I G G A R S M G M I N G Y F G S E P R L
UniRef90_UPI000471180A K D L L D F V S V C R V V K G M R T V R I G A I G G A R P G A F N T V R Y S E K I
UniRef90_B0M9Y1 S L L L N H L K A L N V V C L I L K Q S K F M T I G G A R A P G F Y F S S A S D E L K
UniRef90_E8N4N3 G L R R F A A V C R V V R G L R N A R F G A I G G A R P A A F N T V R Y S E K L
UniRef90_D1PI96 Q G V R D F L A V C R V V R T F K M R I L Q I G G P R P F D F W S T M C N E G E
UniRef90_UPI000413F89D E K S E R F A T E F F H G K S I G I F D E G C M G M F N A I I V P D K
UniRef90_R7ZMZ5 E K G R D F A R R F R R Q E K A I G V F D E G C M G M F N A I I V P D H
UniRef90_R7LC26 R V V R A M N A V K N M R I G L I G G R V P G F Y T S C C D E M M
UniRef90_B1ZTE3 A K C T V P A K A A T V A R R L R K A L G V F D E G C M G M F N A I I T P D E L
UniRef90_A3ZUS2 R I P S A E A A V G L A S E L R R D K A I G V F D E G C M G M F N A I I I P D D H
UniRef90_UPI000372675A H L P R E L G E A L A G L R R D K A I G V F D E G C M G M Y N A I I I D D E
UniRef90_W0IVJ2 E W L K S L A R A A V L A D E L R T K K M G I F D E G C M G M Y N A I I I P D D E
UniRef90_UPI00047818BE H V N R F D R T T L Q A D D L L A N V T M G V F D E G C M G M F N A I I V P D D N
UniRef90_UPI00036D0E08 E I G R A F I G K K L R D D K A I G V F D E G C M G M F N A I I V P D D L
UniRef90_M5SBA1 D K L K S W L D T G S V A H E M R E K A I G V F D E G C M G M F N A I I I P D H L
UniRef90_C6Y1L9 E Q G R S F A R K L K E R K M G V F D E G C M G M Y N A I I V P D D E
UniRef90_UPI00041BE8C9 S K D D V R N R A K V F A E T F K K K M G V F D E G C M G M F N A I I V P D H
UniRef90_UPI0002558A0E E W L E S H V R G G S A D A E L R K T I L G V F D E G C M G M Y N A I I I P D E
UniRef90_UPI0003B66B87 Q T G R A F G K R F Q Q N K A I G V F D E G C M G M Y N A I I V P D E L
UniRef90_S0FGZ4 K E V R Q Y V R V Y N T L K R L R Q T F L G L I G Y R P T A F Y S S T V D E T
UniRef90_I0IEI9 Q A A E R E L G E A L A A E L Q H R P A I G V F D E G C M G M F N A I I V P D H
UniRef90_W0F4Z0 K D L L D F T S V C K V V G G L K K V R I G A V G A R P T A F N T V R Y S E K I
UniRef90_UPI00029A6F1C E K L G R F A R D F R R K K A I G V F D E G C M G M F N A I I I P D D L
UniRef90_C6Y170 L K D F I A V C R V V K G L R N V R I G A I G A R P G G F N T V R Y S E K I
UniRef90_UPI0003B76EA7 T A L G R A L A E E L L H A K A L G V F D E G C M G M Y N A I I T D D E
UniRef90_UPI0003FC2FA7 I A V D A A V K A A L A Y A Q R R K A I M G V F D E G C M G M F N A I I V P D K
UniRef90_L0G577 E L A E V Q I P T E L A D K G R S G K A I G V F D E G C M G M Y N A I I I P D T Y
UniRef90_UPI0001744E39 V K S A Q L G G K A G E L R L Q K A I M G V F D E G C M G M F N A I I V P D H A
UniRef90_B4E2P2 T W L L S Y L K Q G E V G R I J K K I I G L F D T F C M G M I N G V F P Q Q A
UniRef90_UPI0004636202 H V R P F D A A A V P A E L S R N K V I G V F D E G C M G M Y N A I I I P D E
UniRef90_UPI0004655EF2 K K L S A T I R A A K L K H D M K D L K V C A I G H T P Q G G F G F G R A L D L E
UniRef90_L0FX13 Q F T A V C R I V K G L R N A R I G A I G A R P G G F N T V R Y S E K I
UniRef90_UPI00036F814A M D L Q K F I G V C R V V R G L T N L R I G A V G A R P G A F N T V R Y S E K I
UniRef90_H1YHP8 A N L K D F V A I C R V V K G L R S V R I G A I G A R P G A F N T V R Y S E K L
UniRef90_UPI00047DE37C S E A G K V G A A V G A W S L R H K E I L G L F D T L C M G M M N G V F P Q K A
UniRef90_W6W9P8 H D L K A L A R E I A E D F R R N K V I G I F D E G C M G M Y N A I I I P D E
UniRef90_UPI00037DA8F3 A D L K N F L A V C R V V K G L R N V R I G A V G A R P G G A F N T V R Y S E K I
UniRef90_UPI0003B42864 E K I S A T V R A A K L V F D M R N L K I A A I G H T P Q G F G F G R A L D L E
UniRef90_F4CFL2 Q E V L D F L A V C R V V G G L K R L R I G A V G A R P G G F N T V R Y S E K L
UniRef90_I3ZBW1 H A L S A D A K G L A S D L L L A R K K A I G V F D E G C M G M Y N A I I T D D E P
UniRef90_UPI0003A82481 Q G L A T W L R N G A V S H L L R N K A I G L F D T F C M G M I N G V F P Q Q A
UniRef90_B6R4F6 H A L L Q T G Q A G Q V G I L K N K A I G L F D T F C M G M M N G Y F P V K A
UniRef90_H1YEQ5 M E G R A F A R Q L K S E K A I G V F D E G C M G M Y N A I I V P D A
UniRef90_U2J462 E K G D R H I A K D L A Q R I L E D R I M G V F D E G C M G M F N A I I V P D A
UniRef90_DOMES0 L R R F A A V C R V V R S L R G L R I G Q I G A R P A A F N T V R Y S E K L
UniRef90_UPI00046597A7 A T P A A E L G H T L A E R L L K D K A I G V F D V G C M G M Y N A I I T D D E
UniRef90_UPI000463AEC0 R G I R N F L A V C R V V K T F R K T R I L Q I G I G P R P F D F W S T M C N E G E
UniRef90_B5JCV5 E D I R D F A K V C R I T A G L K G L R I A Q M S T R P A A F Q T V R Y S E K L
UniRef90_C0C110 R G L R D F L A V C R V V K T F R N I R I L Q I R I R I Q I S T R P A A F W S T M C N E G E
UniRef90_N2AX75 L N D F V A V C R V V K T F R N T R I G A I G A R P G G F N T V R Y S E K I
UniRef90_C6VXK8 Q D L S T W L R D G A V S H I L R H K A I G L F D T F C M G M I N G M F P Q Q A
UniRef90_V3TML2 R G I Q D F L A V C R V V D T F R T R I L Q I T P R P F D F W S T M C N E G E
UniRef90_R7JRY9 K E I D R F A A V C R I V K G M R N I K V G A I G A R P S A F N T V R F S E K I
UniRef90_B9KA18 T D L R T W L R D G V V H R K L Q N K A I G L F D S Y C M G M I N G V F P Q K S
UniRef90_R6FZX9 R G M R D F L A V C N V V K T F R N T R I L Q I S T R P F D F W S T M C N E G E
UniRef90_X0NC22 S H K L S Y A S A P L L A S I L K K A I G L F D T F C M G M I N G V F P Q K A
UniRef90_S0FGE2 R G V R D F L A V C N V V K A F R S T R I L Q I G I G P R P F D F W S T M C N E G E
UniRef90_L4M2V9 S H V K S F N H A T V A K D L V E N R S I G I F D E G C M G M Y N A I I T P D E
UniRef90_G5IEV1 K E L D R F S I C K V V K G M R R V R I G A V G A R P Q A A F N T V R Y S E K L
UniRef90_M3HYW9 R D L D A F S R V C R T V R G I R H A R I G A I G A R T A F N T V R Y S E K L
UniRef90_UPI000410830E Q G L A T W L R D G T V S H I L R H K A I G L F D T F C M G M I N G V F P Q Q
UniRef90_E0SEP7 R G V Q D F V R L C R V V K V F R S R T R I L Q I G P R P F D F W T M V N E G E
UniRef90_A0A023CZ64 Q E I D R F V R L C R T V R G M R S A R L G A V G A R P N A F Q T V R F S E K L
UniRef90_I017N5 Q S I R A V H A A D S L Q R R K L G L V G Y H A P G F V D F H A D P V F
UniRef90_H9UFE0 K D L Q D F L A V C R V V K G V R L K I G A V G A R T R P A A F N T V R F S E K L
UniRef90_A8F6D0 R G I R N F L A A T N V V K E L G S L R I L Q I S T R P S A F W T M C N E G E
UniRef90_M1MKX4 K D I N R F A S V C R V V N G L R H A R I G A I G T R P A G F Q T V R A S E K I
UniRef90_R5N7G5 R G M Q D F V R L C R V V K T F R N T R I L Q V P R P F D F W T M V N E G E
UniRef90_S6ER19 H H A T H Y L R A A T A A G Q L R H K A I G L F D T L C M G M I N G V F P V K A
UniRef90_W0HT76 H R D L E H V K L P A A D E R L G R R I M G V F D E G C M G M F N A I I V P D E
UniRef90_B9XQI3 K D I N R F A A V C R V V N G L R H A R I G Q I G A R P L G F N T C R A S E K L
UniRef90_R6W1W7 K D L T W F I S V C R V V R G M R N L R I G V S I G A R P A A F N T V R Y S E K L
UniRef90_UPI00036A2422 R G M I D F I K V C N V V K T F K N T R I L Q I G T R P F D F W S V I V N E G E
UniRef90_Q74J46 R G I K D F L A V C N V V K V F R H T R I L Q I A P R P F D F W S T M C N E G E
UniRef90_C0D796 R G V K D F L A V C N V V K K F R N I R I L Q I G P R P F D F W S T M C N E G E
UniRef90_UPI0004017F32 R G I R D F L A V C N T V K T F Q N M R I L Q I G P R P F D F W T M C N E G E
UniRef90_S5KBA3 R G I K D F L A V C R V V R T F R H T R I L Q I S T R P A A F N T V R Y S E K L
UniRef90_D4JQT6 Q D L A R F A G I C R V V R G F K N A R V G V I G A R P A A F N T V R Y S E K L
UniRef90_I016H4 W F A A V C R L V R G L R N V R F G A I G A R P T A F N T V R Y S E K L
UniRef90_G8NYM0 L H R F A A V C R V R G L R K A R I G A I G A R P A G F Q T V R F S E K L
UniRef90_E1RCT6 K D I N K F A A I C R V V R K L H A R I G Q I G T R P L G F N T C R Y S E K L
UniRef90_R5C953 A D I E W F G Q V C R L V K G L K N L R I G A I G A R P S A F N T V R Y S E R I
UniRef90_E6QNA2

UniRef90_D7CSI2 R G V T F V T G T 250 D D E T E L T E A Q L L E Q 260 A R M Y V I A A 270 280
UniRef90_UPI00047995AC K G M Q F D W G T D E A T E L T E R N Q T L L L Q C K M Y I A A
UniRef90_D2R0S1 E G L K F H T G P K H E T D L T D A Q I L L L Q C K M Y I A A
UniRef90_UPI00036B582E L G I F E T G K D P L T E L T D E Q T H E Q C K M Y I A A
UniRef90_UPI0004789055 R G L T F N W G K N P E T E L T R E Q T L E E Q C K M Y V I A A L R L
UniRef90_G0IVG8 K G M K F K T G P N P E T D L T D G Q I H D Q C R M Y I A A
UniRef90_UPI00037149B5 P G E S D Y K I N
UniRef90_X1TLU1 R G V T F H W G A Q D A T D F T A D S T R E Q L R G Y L A V L D L L
UniRef90_L0DKL8 Y V P K G K T P N E A M I Q I A K L D V V L K E V M
UniRef90_UPI000471180A K T L E A A E N R Y G S C R L D R Q Q I D K A A R M Y L S L K E I
UniRef90_B0M9Y1 Y V P T K N T P G E A L T R M A V V I E D W M A E
UniRef90_E8N4N3 K M E V E V T D D Q L R N I A G L A V A M R H L I A
UniRef90_D1PI96 K G M R F N W G T N P D T E L T K E Q T L E E Q C K M Y I A A
UniRef90_UPI000413F89D Q G M V F R W G E G D V E F T K D Q T I A Q C K M Y I A A L R L
UniRef90_R7ZMZ5 D A A C Y E S S E E D L R K S A A L Y A A V C G
UniRef90_R7LC26 K G L K F H L G H R E A T E L T E D Q V L W Q C R T Y I A A L R L A D
UniRef90_B1ZTE3 N G M H F H F G E I D A E E L T Q R Q V L Q Q C R M Y V A A
UniRef90_UPI000372675A R G M F D L G E D E A T E L T E R O V L E Q L K M Y V A A
UniRef90_W0IVJ2 K G F K F H F G K D E A T E L T E S Q V I W Q C K L Y I A A
UniRef90_UPI00047818BE K G M T F V W G T D P A N E L T R E Q T L E Q C K M Y V A A
UniRef90_UPI00036D0E08 K G M K F H W G T D E A T E L T R N Q T L I Q C K M Y I A A L R L
UniRef90_M5SBA1 A G M K F H T G P N H E T D L T D A Q I L L G Q C R V Y I A A M
UniRef90_C6Y1L9 K G M F N W G E N P E A E L T R A Q S M E Q C K M Y I A A V H I
UniRef90_UPI00041BE8C9 K G M K F S W G T L P E T E L T K D Q T F E Q C K M Y V A A
UniRef90_UPI0002558A0E K G M T F H L G D N P A T D L T E A Q V L D Q C R M Y V A A V R L M
UniRef90_UPI0003B66B87 R G M K F N W G T N E A T Q L T K N Q T L E E Q C K M Y I A A
UniRef90_S0FGZ4 E I K T I E I S D E Y L E N H S R L Y L T L R N L I Q
UniRef90_I0IEI9 A G I T F E T G D D P E T D L T E D Q I L D Q C R M Y V A A
UniRef90_W0F4Z0 Y T S V I G K T P S E K L V I Q I A K L D V V L R A F M Q E
UniRef90_UPI00029A6F1C R G I R L K L G Q D E A T E L T E S Q V L L L Q C K M Y I A A
UniRef90_C6Y170 Y A P S G T T P S E A L I Q I A K L D V V L N D F M
UniRef90_UPI0003B76EA7 A G M T F R L G T D E A T E L T E A Q L R W Q Y K M Y V A V
UniRef90_UPI0003FC2FA7 K G M K F N W G T N P E I E L T R A Q T L E Q C K M Y I A A
UniRef90_L0G577 E G M H F E W G K N P Q T E L T R E Q T L E E Q C K M Y I A A
UniRef90_UPI0001744E39 K G M K F H L G K D H A T E L T E A Q V L K Q C Q M Y I
UniRef90_B4EZP2 N G M T F K F G T D D K T E L T R E Q V K E Q C A M M I A M A
UniRef90_UPI0004636202 K G M T F H F G A D P K E A L T E E Q V I D Q C R M Y I A A
UniRef90_UPI0004655EF2 R C V G L D K T P E K N T K D F A R L Y K A Y K E Y V T E
UniRef90_L0FX13 Y A A V G K T P Q H A L H Q I A K M D V V L N Q F M E E
UniRef90_UPI00036F814A Y S P T G K T P G E K L V Q M A K M G V V L S D F M E A
UniRef90_H1YHP8 Y A P K G L T P D D A M I Q I A K L D V V L N Q F M
UniRef90_UPI00047DE37C R G M K F R F G T D G A R E L T R E Q V K E Q C A M M I A L A
UniRef90_W6W9P8 R G M T F H L G S D P K T E L T E A Q V I D Q C R M Y I A A
UniRef90_UPI00037DA8F3 Y T P T G R T P D D K L V Q I A K L D V V L N E F M Q
UniRef90_UPI0003B42864 R M V G L D K T P E K N A K D F A R L Y K A Y K E Y V T E
UniRef90_F4CFL2 Y A S Q G K T P D E A M I Q I A K L D V V L
UniRef90_I3ZBW1 K G L K F N T G T D E A T E L T D A Q L L S Q C R M Y V A A
UniRef90_UPI0003A82481 R G M D F K L G S D S Q E L T R E Q V L E Q C A M M I A M A
UniRef90_B6R4F6 R G M T F M F G S D D A T E L T R E Q V L E Q C A M M I A M A
UniRef90_H1YEQ5 K G M K F N W G S D D K T E L T E N Q T I E Q C K M Y I A A
UniRef90_U2J462 K G M K F D W G Q D P V T E L T R E Q T I E Q C K M Y I A A L R L
UniRef90_D0MES0 Y T D T Q G I P E E S L Y K L A K L G V A I D R F L Q
UniRef90_UPI00046597A7 A G M T F R L G T D E A T E L T E N Q L R W Q Y K M Y I A A L R L S D
UniRef90_UPI000463AEC0 N F N V A I N E E E L E M V A A L K I A M K A L
UniRef90_B5JCW5 Y A N A S R L E D S V E E E H I V K Q A K L Y V T V K N W M K E M V P
UniRef90_C0C110 Y G V K D E E L E N V A A L K V A M K R L I N
UniRef90_N2AX75 H M E I C Y A S R G R T P D E A L I Q M A K L D V V L G D F I E A
UniRef90_C6VXK8 Q G M Q F E F G T D G S R Q L T R E Q V L E Q C A M M I A M A
UniRef90_V3TML2 N M C V K I K P E E L E N V A A L K V A M K N L
UniRef90_R7JRY9 N Y R L Q I V P E E K I L L L M A K
UniRef90_B9KA18 Y C R E K M C I K V T P E Q L D N V A A L K I A M T
UniRef90_R6FZX9 R G M T F S Y G S D G K Q D L T R S Q V L E Q C A M M I A M A
UniRef90_X0NC22 K M N V K I A D Q H L E N V A A M K V A M Q G L
UniRef90_S0FGE2 R G M R F N F G T H S A E E L T R E Q V L E Q C A M M I A M A
UniRef90_L4M2V9 H F N A I K D N E L E H V A A L K V A M K R L
UniRef90_G5IEV1 A G M T F H L G K D E A Q E L T E A Q V L G Q C Q T Y I A
UniRef90_M3HYW9 Y G D T S H T P S E K L L Q L S R L D A V L N E F V
UniRef90_J9Z094 Y G R I D A S I R P E Q V L K Q A K W G I A I D E W M G E
UniRef90_UPI000410830E R G M R F E F G D G S R Q L T R D Q V L E Q C A M M I A M A
UniRef90_E0SEP7 I E K A A Q I E V D K Q D L E K I A V L K I A L R N L
UniRef90_A0A023CZ64 Y A V N R G A P E E K L A L M A K L A I V L D D W M D A
UniRef90_I017N5 V A R S A T F K P G N V P E K S L D R T V S E E I V E N V A A L K V A
UniRef90_H9UFE0 Y M K E V L D I P Q Q Y S E K L M L Q A K F G V A V E R W M N A
UniRef90_A8F6D0 N T E V Q I S D K D L E M V A A L K V A L K
UniRef90_M1MKX4 R G M T F H F G T R H D Q D L T R E Q V L E Q C A M L I A L A
UniRef90_R5N7G5 K G V K F H W G R D E A T E L T E S Q T L L Q C K M Y I A A
UniRef90_S6ER19 Y A E V P E S Y R E K L R L Q C K F G V
UniRef90_W0HT76 Y V D T G S T P S S A L M K M A
UniRef90_B9XQI3 T Y R N W A D I K I K D E D F T K V A A L K L A M Q D K M
UniRef90_R6W1W7 T M T V T V K D H E L E N I A A M K V A M K R L
UniRef90_UPI00036A2422 Y C H E N M T C D I S E D L T N V A A L K I A M K N L
UniRef90_Q74J46 Y C H G C A I V K I K E V D L R M V A A L K V A M K N L
UniRef90_C0D796 N M D I H V T E D E L Y N V A A M K V A I
UniRef90_UPI0004017F32 Y V I Q T A G V P Q E S L R M A
UniRef90_S5KBA3 Y I P I G D T P E A A L M K M A K L G A V I D G W M A A S E L T V
UniRef90_D4JQT6 Y G K I P K S I S E E H I L L Q T R F S V A V N R F M E E
UniRef90_I016H4 Y I P I G D T P E A A L M K M A K P E A Y Q E K L A L Q A K F G L A V E E W I E A
UniRef90_G8NYM0 Y V I T T S G I P E A A L L K M A K L G A V I D L W M K Q T A V T
UniRef90_E1RCT6
UniRef90_R5C953
UniRef90_E6QNA2

	290	300	310	320
UniRef90_D7CSI2	V R M A H R F G C D A V G I Q Y Q Q G L K D M T P A S D L V E			
UniRef90_UPI00047995AC	V R I A A E F G C C D T I G I Q Y Q Q G L K D L V P A S D L V E			
UniRef90_D2R0S1	V R I A D D F G C C A T I G I Q Y Q Q G L K D L V P A S D L V E			
UniRef90_UPI00036B582E	R D I Y Q E S G	L X A L A F R C W P D L T G H W P Y L A L A Q		
UniRef90_UPI0004789055	T R M A H E F G C C D A I G I Q Y Q Q G L K D M V A A S D L A E			
UniRef90_G0IVG8	A D K F G G C C D T I G I Q Y Q Q G L N E L C P A S D L V E			
UniRef90_UPI00037149B5	L R I A D D F G C C D A I G I Q Y Q Q G L K D L A P A S D L V E			
UniRef90_X1TLU1				
UniRef90_L0DKL8				
UniRef90_UPI000471180A	E E Y A L D A T A I Q C W T S L Q Q N Y G	C L G W Q Y Q L G L L K L L P P S D F A E		
UniRef90_B0M9Y1	K K E T G T G A F A	V R C W P E M Q D F Y	C N V C T S M	
UniRef90_E8N4N3	N	Q L V A S A L Q C C W T S M E E F Y V P C T L M S		
UniRef90_D1PI96		K Y H C Q A G A I Q G E L L G I M C A A N		
UniRef90_UPI000413F89D	I R I A D Q Y G C C D T I G I Q Y Q Q G L K D L V A A S D L V E			
UniRef90_R7ZM25	A D E F G G C C D T I G I Q Y Q Q G L K D L V P A S D L T E			
UniRef90_R7LC26	M K K	K F L V D T F A F R C W P E V S D L Y I T A C S T E		
UniRef90_B1ZTE3		E F G G C C D A I G I Q Y Q Q G L K D L L P A S D L V E		
UniRef90_A3ZUS2	V R M A D H F G C C D A V G I Q Y Q Q G L K D M T P A S D L V E			
UniRef90_UPI000372675A	T R I A D D F G C C D A V G I Q Y Q Q G L K D M A P A S D L A E			
UniRef90_W0IVJ2	V R I A Q E F G C C E A I G I Q Y Q Q G L K D L I P A S D L V E			
UniRef90_UPI00047818BE	V R L A D E F G C C D T I G I Q Y Q Q G L K E L T A A S D L A E			
UniRef90_UPI00036D0E08		A D E F G G C C D T I G I Q Y Q Q G L K D L A P A S D L V E		
UniRef90_M5SBA1	R I A D D F G G C C D A I G I Q Y Q Q G L K D L L P A S D L V E			
UniRef90_C6Y1L9		A D E F G G C C D T I G I Q Y Q Q G L K D L T V A S D L V E		
UniRef90_UPI00041BE8C9	L R I A D Q F G G C C D T I G I Q Y Q Q G L K D L V A A S D L V E			
UniRef90_UPI0002558A0E		D R F G G C C E A I G I Q Y Q Q G L K D L P A S D L V E		
UniRef90_UPI0003B66B87	V R I S A D F G G C C D T I G I Q Y Q Q G L K D L T V A S D L V E			
UniRef90_S0FGZ4		E Q G L N A G I K C W P E M G V L K T T P C		
UniRef90_I0IEI9	V R I A D A F G G C D A I G I Q Y Q Q G L K D L A P A S D L V E			
UniRef90_W0F4Z0	N	A L D C T A I Q C W T S L Q Q N Y G	C N V C T S M	
UniRef90_UPI00029A6F1C	L R I A D D F G C C D S I G I Q Y Q Q G L K D L A P A S D L V E			
UniRef90_C6Y170	K T H A L D A T A I Q C W T S L Q Q N Y G		C N V C T S M	
UniRef90_UPI0003B76EA7	L R M S D D F G G L D A V G I Q Y Q Q G L K N L C P A S D L V E			
UniRef90_UPI0003FC2FA7	L R I A D E F G C C E T I G I Q Y Q Q G L K D L V A A S D L V E			
UniRef90_L0G577	V R I A D E F G C C D T I G I Q Y Q Q G L K D L V A A S D L A E			
UniRef90_UPI0001744E39	S A V R L A D D F G C C D T I G I Q Y Q Q G L K D L L P A S D L V E			
UniRef90_B4E2P2		R F V K R F G L T A V G V Q Y Q Q G L K D C C P A S D F A E		
UniRef90_UPI0004636202	V R L A D F F G G C E A I G I Q Y Q Q G L K D L L P A S D L V E			
UniRef90_UPI0004655EF2	N N I	G A I A S R C W P D F T S F G T P V C A V L		
UniRef90_L0FX13	N	V L D A T A I Q C W T S V Q E N Y C N V C T S M		
UniRef90_UPI00036F814A	N	S L D A T A I Q C W T S V Q E N Y C N V C T S M		
UniRef90_H1YHP8		D E H A L D A T A I Q C W T S L Q Q N Y G	C N V C T S M	
UniRef90_UPI00047DE37C		R Y A E R F G L S C V G V Q Y Q Q G L A R S C A A S D F A E		
UniRef90_W6W9P8	V R I A E E F G G C E A I G I Q Y Q Q G L K D L L P A S D L V E			
UniRef90_UPI00037DA8F3		E H A L D A T A I Q C W T S L Q Q N Y G	C N V C T S M	
UniRef90_UPI0003B42864	N N I	G A L A S R C W P D F F T P V C A V L		
UniRef90_F4CFL2	N Q F M V E			
UniRef90_I3ZBW1		V R I A D E F G G C D S I G I Q Y Q Q G L K D L A P A S D L V E		
UniRef90_UPI0003A82481		R F V K R F G L A V G V Q Y Q Q G L K D S C A A S D F A E		
UniRef90_B6R4F6		R F T T R F G L S A V G V Q Y Q Q G L K D S C A A S D F A E		
UniRef90_H1YEQ5		T R I A S E F G C C K T I G I Q Y Q Q G L K D L T V A S D L V E		
UniRef90_U2J462		A D E F G G C C D T I G I Q Y Q Q G L K D L V A A S D L V E		
UniRef90_D0MES0	E K E L K			
UniRef90_UPI00046597A7		D F G L D A V G I Q Y Q Q G L K D L A P A S D L P E		
UniRef90_UPI000463AEC0		A K R Y G C N A V A I Q C W N A L Q S E I G I M C A A N		
UniRef90_B5JCW5	E P K L V Q M A R L G V V L D H F L D A T A V Q C W T S V Q N H G C N V C T S M			
UniRef90_C0C110	N D			
UniRef90_UPI000463AEC0		K Y G C Q A A A L Q C W N Q L Q S E I G I M C A A N		
UniRef90_N2AX75	N	A L D A T A I Q C W T S V Q Q N Y G	C N V C T S M	
UniRef90_C6VXK8		R F V K R F G L T A V G V Q Y Q Q G L K D S C A A S D F A E		
UniRef90_V3TML2		A A K Y S C N A I A L Q C W N A L Q G E I G I M C A A N		
UniRef90_R7JRY9	F G S V I D E W I E E N D I K A L A I Q C W T S L E W N L G I T P C T I M			
UniRef90_B9KA18		R L G K K Y G C N C G A I Q C W N A L Q D E I G I M C A A N		
UniRef90_R6FZX9		R F V K R F G L T G V G V Q Y Q Q G L K D C C A A S D F A E		
UniRef90_X0NC22		A A K Y G C N A I A L Q C W N C L Q S E I G I M C A A N		
UniRef90_S0FGE2		R F V K R F G L S A I G V Q Y Q Q G L K D S C A A S D F A E		
UniRef90_L4M2V9		T V K Y G C N A I A I Q C W N A L Q G E I G I M C A A N		
UniRef90_G5IEV1		A V R M A E Q F G C E T I G I Q Y Q Q G L K D L L P A S D L V E		
UniRef90_M3HYW9		E A N K L D A T A I Q C W T S I Q E N Y C N V C T S M		
UniRef90_J9Z094	N D			
UniRef90_UPI000410830E		C D A S A I Q C W R S L Q D N Y C A T C L S M		
UniRef90_E0SEP7		R F T Q R F G L A A V G V Q Y Q Q G L K D S C A A S D F A E		
UniRef90_A0A023CZ64	N S I	C E Q Y S C N A G A I Q C W T A L Q D E I G L P Y A A E		
UniRef90_I017N5		D A T A I Q C W D S I Q N Y V N V C T V M		
UniRef90_H9UFE0		D A M A F R C W P D L P G H W P Y A A L A R		
UniRef90_A8F6D0	R L S A N E W I E Q	N H I D A V A I Q C W T A L E A L Y L V P C A V M		
UniRef90_M1MKX4		Y T E L T G E Y G C S A V A I Q C W T A L Q D E L K I M C M A N		
UniRef90_R5N7G5	N A I			
UniRef90_S6ER19		D A V A I Q C W D S L E Q N Y C A A C V T M		
UniRef90_W0HT76		N K V E F Y G C N A G A I Q C W T E L Q D L P Y A S L		
UniRef90_B9XQI3		R F V K R F G L A V G V Q Y Q Q G L K D C C A A S D F A E		
UniRef90_R6W1W7		V R L A D E F G G C S T I G I Q Y Q Q G L K D L T P A S D L V E		
UniRef90_UPI00036A2422		A V N R W V E A N Q V D A V A I Q C W D S L Q N F G C A A C V T M		
UniRef90_Q74J46	K L G A D G W M E E T E V A	I S A V Q C W T S L E E Y F V P C T L M S		
UniRef90_C0D796		K E Y G C N A G T I Q C W T E L Q R E I G L P Y A S E		
UniRef90_UPI0004017F32		A V R Y G C N A I A I Q C W N A L Q S E I G I M C A A N		
UniRef90_S5KBA3		A T K Y G S A I A I Q C W N A L Q S E I G I M C A A N		
UniRef90_D4JQT6		A T K Y G C S A I A I Q C W T A L Q D E I G I M C A A N		
UniRef90_I016H4		E T M A K K Y G C N A A V I Q C W N A L Q D E L G V M C C A N		
UniRef90_G8NYM0	N E	K F G V D E W M K E T E L T A S A I Q C W T A M E E Y Y V P C T L M		
UniRef90_E1RCT6	N E			
UniRef90_R5C953		L D A S A I Q C W D S L E N Y G C A S C L T M		
UniRef90_E6QNA2		V D A A A I Q C W D S L E Q N Y C A A C V T M		
		I S A V Q C W T S L E E Y F V P C T I M S		

	330	340	350
UniRef90_D7CSI2	G L L N N P	D R P P V L H A E T G E	
UniRef90_UPI00047995AC	G L L N N Q Y D E A G K G E A L P H F N E V D E C A G L I D A L V T Y N L		
UniRef90_D2R0S1	G T L N N G S R P D G Q R S Q G L P H F N E V D E C A G L I D G L L I Y R L		
UniRef90_UPI00036B582E	L V	S Q G L P H F N E V D E C A G L I D G A I C S L I	
UniRef90_UPI0004789055	G L L N N A F D E S G R E L P L P H F N E V D E C A G L I D S L I T Y H L		
UniRef90_G0IVG8	G L L N	N T E R P P V L P H F N E V D E C A G L	
UniRef90_UPI00037149B5	G L L N N S D R P D G S R Q P L P H F N E V D E C A G L		
UniRef90_X1TLU1			
UniRef90_L0DKL8	G L L N S H A R P E G N G H V V I T S T E A D Q G N L V P M E L M K		
UniRef90_UPI000471180A	S I M S E N M	L P S A C E V D V T G T L S M Y A M Q L A S G S	
UniRef90_B0M9Y1	A V L G M L G D	E G I I C S C E G D I P G L M T M Y I G H L L S G S	
UniRef90_E8N4N3	M M S N S L	V P S A C C E T D I A G A V T M L A L A L A S G	
UniRef90_D1PI96	A L L N D	E G I V P I V C E T D I H G A I T A L L	
UniRef90_UPI000413F89D	G L L N N V F D S A N K K N S I P H F N E V D E C A G L I D A L I T T R L		
UniRef90_R7ZM25	G L L N N T Y S S D G P G K A L P H F N E V D E C A G L I D S L I T Y K L		
UniRef90_R7LC26	G H L T N N	G V I T A C E G D V Y G A V L M R L E Y E L T G	
UniRef90_B1ZTE3	G L L N N S R N A A G R G E P L P H F N E V D E C A G L I D G L L T H		
UniRef90_A3ZUS2	G T L N S T L D A S G Q R E S I P H F N E V D E C A G L I D A L M I Q R L		
UniRef90_UPI000372675A	G L L N N A E R P D G G E R E P L P H F N E V D E C A G L I D A L V T H		
UniRef90_W0IVJ2	G T L N S S D R P D G G E G E P I P H F N E V D E C A G L		
UniRef90_UPI00047818BE	G L L N N T F D A Q G K E L A L P H F N E V D E C A G L I D A L L T Y K L		
UniRef90_UPI00036D0E08	G L L N N Q Y S V S G K G E A L P H F N E V D E C A G I		
UniRef90_M5SBA1	G M L N D S F S R D G S R E P L T H F N E V D E C A G L		
UniRef90_C6Y1L9	G L L N N P V Y S E G G K E L Y P H F N E V D E C A G I D A L L T Y N L		
UniRef90_UPI00041BE8C9	G L L N N V D R P S N G K K S L P H F N E V D E C A G I D A L L T		
UniRef90_UPI0002558A0E	G M L N N R A D G S V I R E A I V H F N E V D E C A A L		
UniRef90_UPI0003B66B87	G L L N N T Y S K T G E G Q A L P H F N E V D E C A G L I D A L L T Y R L W N		
UniRef90_S0FGZ4	A V L S R M A D	E G F I I G C E G D M D A T I A M L I Q N Y L T D T	
UniRef90_I0IEI9	G T L N S V R P P V E R E A I T H F N E A D E C A G L		
UniRef90_W0F4Z0	S M M S E N M	L P S A C E V D V T G T L S M Y A M Q L A S G	
UniRef90_UPI00029A6F1C	G M L N N V D R P D G T R E A L P H F N E V D E C A G I D G L V T Y R L		
UniRef90_C6Y170	S I M S E N M	L P S A C E V D V T G T L T M Y A M Q L A S G S	
UniRef90_UPI0003B76EA7	G L L N T S R D W E G R A L P H F N E V D E G V A V D A L I T H		
UniRef90_UPI0003FC2FA7	G L L N N V N R P D G P G K S L P H F N E V D E C A G I D T I T T Q L		
UniRef90_L0G577	G L L N N V V R P N G E G K S I P H F N E V D E C A G L		
UniRef90_UPI0001744E39	G L L N N S D R P D G K R E P L V H F N E V D E C A G L		
UniRef90_B4E2P2	G A I G S T A D E N G P N T P I P C I N E V D M G T A I P Q T M L W L L T		
UniRef90_UPI0004636202	G M L N N D E R P P V T R Q A I V H F N E V D E C A G L		
UniRef90_UPI0004655EF2	A M L N D L	G V A S C E A D A Y G A L S M Y L G M Q L T G	
UniRef90_L0FX13	T S M S M M S E N M M	P S A C E V D V T G T L T M Y A M Q L A S G S	
UniRef90_UPI00036F814A	S M M S D	Q L M P S A C E V D V T G T L T M Y A M Q L A S G S	
UniRef90_H1YHP8	S I M S E N M	L P S A C E V D V T G T L T M Y A M Q L A S G S	
UniRef90_UPI00047DE37C	G A I G S A E R F P I P A E P I T C A N E V D M G T A I P Q T M M F R L		
UniRef90_W6W9P8	G T L N D D G R P D V K G Q A I V H F N E V D E C A G L		
UniRef90_UPI00037DA8F3	S I M S E N M	L P S A C E V D V T G T L S M Y A M Q L A S G S	
UniRef90_UPI0003B42864	A M L N D L	G I A S S C E A D T Y G A L S M Y L G M Q L T	
UniRef90_F4CFL2	S I M S E N M	L P S A C E V D V T G T L S M Y A M Q L A S S S	
UniRef90_I3ZBW1	G L L N N P D R P D G R E D A L P H F N E V D E C A G V		
UniRef90_UPI0003A82481	A I G N A E R D E N G E G K A I P C I N E V D M G T A I P Q A M L W Q L		
UniRef90_B6R4F6	G A I G S T E R W E G K P I P C I N E V D M G T A I P Q T M M W R L		
UniRef90_H1YEQ5	G L L N N Q F S E T G E G E A L P H F N E V D E C A G I D A L L T Y Q L		
UniRef90_U2J462	G L L N	N T E R P P V L P S A C E A D I P G V L S M Y L L Q Q A S G	
UniRef90_D0MES0	S M L S N R L	L P S A C E A D I P G V L S M Y L L Q Q A S G	
UniRef90_UPI00046597A7	G L L N T S R D W E G R P L P H F N E V D E G A A V D A L V T N		
UniRef90_UPI000463AEC0	S L L N E	E G L P V V C E T D I H G A I T	
UniRef90_B5JCW5	S M M S E	D L S P S A C E V D V T G V L T M Y A M Q L A S G T	
UniRef90_C0C110	S M L G E	E G M P M A C C E A D V T G A V T M Y A M Y L A S G S	
UniRef90_N2AX75	A L M N E	E G I P V V C E T D I H G A V T A L I	
UniRef90_C6VXK8	S I M S E N M M P S G	E G I P V V C E V D V T G T L S M Y A L Q L A S G S	
UniRef90_V3TML2	A I G N A E R D E Q G I R P A E I P C I N E V D M G S A I P Q V M L W R L		
UniRef90_R7JRY9	S L L N E	K G K P A A C E V D I T G A L S M Y V L Q L A S G	
UniRef90_B9KA18	A L C N D	E G F P T A C C E T D L H G T I T S V L	
UniRef90_R6FZX9	A I G N A E R D E N G E G K A I P C I N E V D M G S A I P Q I M L W Q L		
UniRef90_X0NC22	S L L N D	E G I P V V C E T D I H G A I T S L L	
UniRef90_S0FGE2	A I G N S E R D E Q G E D A P I P C I N E V D M G S A I P Q V M M A K L L G		
UniRef90_L4M2V9	S L L N E	E G I P V V C E T D I H G A I T	
UniRef90_G5IEV1	G L L N N V R N A E G E G K A V V H F N E V D E C A G L D A L M I N R L		
UniRef90_M3HYW9	S M M S E N M	L P S A C E V D V T G T L T M Y A M Q L A S N S	
UniRef90_J9Z094	S M M	G E K L M P S A C E V D V L G T L S M Y A L T L A A G	
UniRef90_UPI000410830E	G A I G N A E R P D E Q G E P I P C I N E V D M G S A I P Q		
UniRef90_E0SEP7	A F L Q D	E G L P T C E T D I H G A L S L L I N E A A T	
UniRef90_A0A023CZ64	S M M S E R L	M P S A C E V D I A G T A S M Y A L T L A A G	
UniRef90_I017N5	L V	S E G F P I A M E G D V D G A L C S R L	
UniRef90_H9UFE0	S M L S E S L	T P S A C C E T D V M G A L S M Y I L Q L A S N	
UniRef90_A8F6D0	A L M T D	E G I P V V C E T D I H G A I T S V I	
UniRef90_M1MKX4	S M L	G E K L I P A A C E V D I A G A V S M Y A L T L A S G	
UniRef90_R5N7G5	S L L Q D	E G I P F T C E T D L H G A I S E L L	
UniRef90_S6ER19	A I G N A E R D E D G P N Q A I P C I N E V D M G S A I P Q A M L W R L		
UniRef90_W0HT76	G T L N S V E R P P V K R E A L P H F N E V D E C A G L D G L V T Y R L		
UniRef90_B9XQI3	S M L S E	A G L P A A C E T D I A G A V S M L A L T L A S	
UniRef90_R6W1W7	M M S N	E L M S A S C E V D I C G V V G M H A L R L A S G T	
UniRef90_UPI00036A2422	A L L Q T	E G M P V I T C E T D I N G A I T S E L L	
UniRef90_Q74J46	S L L N E	E G L P V V C C E T D I H G A I T	
UniRef90_C0D796	S L L N E	E G I P V V C C E T D I H G A I T Q I L	
UniRef90_UPI0004017F32	A M L I D	E G L P V V C C E T D I H G A I T S C L L	
UniRef90_S5KBA3	S L L F D	E G F P V V C C E T D I H G A I T S L L	
UniRef90_D4JQT6	S I M S D G L	M P S A C C E T D I A G T V A M M A L A F A S G	
UniRef90_I016H4	S M M S E	Q L I P S A C E V D I L G T L S M Y A L T L A S E T	
UniRef90_G8NYM0	S M M	G E K Q K P S A C C E M D V A G A V S M Y T L L L A S G	
UniRef90_E1RCT6	S M L	G E K L I P A C C E T D V A G A V S M Y A L S L A S G	
UniRef90_R5C953	S M L	I P S A C C E V D V P G T L S M H M L A L A S G T	
UniRef90_E6QNA2	M M S N D L	I P S A C C E V D V P G T L	

UniRef90_D7CSI2
UniRef90_UPI00047995AC
UniRef90_D2R0S1
UniRef90_UPI00036B582E
UniRef90_UPI0004789055
UniRef90_G0IVG8
UniRef90_UPI00037149B5
UniRef90_X1TLU1
UniRef90_L0DKL8
UniRef90_UPI000471180A
UniRef90_B0M9Y1
UniRef90_E8N4N3
UniRef90_D1PI96
UniRef90_UPI000413F89D
UniRef90_R7ZMZ5
UniRef90_R7LC26
UniRef90_B1ZTE3
UniRef90_A3ZUS2
UniRef90_UPI000372675A
UniRef90_W0IVJ2
UniRef90_UPI00047818BE
UniRef90_UPI00036D0E08
UniRef90_M5SBA1
UniRef90_C6Y1L9
UniRef90_UPI00041BE8C9
UniRef90_UPI0002558A0E
UniRef90_UPI0003B66B87
UniRef90_S0FGZ4
UniRef90_I0IEI9
UniRef90_W0F4Z0
UniRef90_UPI00029A6F1C
UniRef90_C6Y170
UniRef90_UPI0003B76EA7
UniRef90_UPI0003FC2FA7
UniRef90_L0G577
UniRef90_UPI0001744E39
UniRef90_B4EZP2
UniRef90_UPI0004636202
UniRef90_UPI0004655EF2
UniRef90_L0FX13
UniRef90_UPI00036F814A
UniRef90_H1YHP8
UniRef90_UPI00047DE37C
UniRef90_W6W9P8
UniRef90_UPI00037DA8F3
UniRef90_UPI0003B42864
UniRef90_F4CFL2
UniRef90_I3ZBW1
UniRef90_UPI0003A82481
UniRef90_B6R4F6
UniRef90_H1YEQ5
UniRef90_U2J462
UniRef90_DOMES0
UniRef90_UPI00046597A7
UniRef90_UPI000463AEC0
UniRef90_B5JCW5
UniRef90_C0C1I0
UniRef90_N2AX75
UniRef90_C6VXK8
UniRef90_V3TML2
UniRef90_R7JRY9
UniRef90_B9KA18
UniRef90_R6FZX9
UniRef90_X0NC22
UniRef90_S0FGE2
UniRef90_L4M2V9
UniRef90_G5IEV1
UniRef90_M3HYW9
UniRef90_J9Z094
UniRef90_UPI000410830E
UniRef90_E0SEP7
UniRef90_A0A023CZ64
UniRef90_I0I7N5
UniRef90_H9UFE0
UniRef90_A8F6D0
UniRef90_M1MKX4
UniRef90_R5N7G5
UniRef90_S6ER19
UniRef90_W0HT76
UniRef90_B9XQI3
UniRef90_R6W1W7
UniRef90_UPI00036A2422
UniRef90_Q74J46
UniRef90_C0D796
UniRef90_UPI0004017F32
UniRef90_S5KBA3
UniRef90_D4JQT6
UniRef90_I0I6H4
UniRef90_G8NYM0
UniRef90_E1RCT6
UniRef90_R5C953
UniRef90_E6QNA2

	1	10	20	30	40
UniRef90_L7VJ04					L
UniRef90_F8FW8					
UniRef90_D8DVY0					F N S E L A K D
UniRef90_F0Z1W2					
UniRef90_G0GEK2					
UniRef90_W0FLW5					
UniRef90_X0Y6L1					P V T E K Q L K E
UniRef90_UPI00047B46CF					
UniRef90_E8V694					
UniRef90_UPI00037464DC					
UniRef90_B4D5G7					Q K M E A A
UniRef90_N9XF07					
UniRef90_A9CVE3					
UniRef90_C0C1I5					
UniRef90_C1F394					
UniRef90_H2IFW3					
UniRef90_R9LSR2					
UniRef90_L0EB02					
UniRef90_UPI00037D34B6					
UniRef90_D5AN96					
UniRef90_C4LFS1					
UniRef90_Q1ASX4					E W G R E V A R R
UniRef90_UPI000370EA9F					L
UniRef90_G7UDD4					
UniRef90_S7V9E6					
UniRef90_A7B420					
UniRef90_U2THR4					
UniRef90_UPI00047CAC4B					H L
UniRef90_S2U3R9					
UniRef90_UPI000463BFE6					L
UniRef90_H5V255					
UniRef90_M4Z527					
UniRef90_W6T4N5					
UniRef90_Q029Q0					
UniRef90_F2N936					
UniRef90_X1GCP1					
UniRef90_I0R7U9					M E L A K R
UniRef90_UPI000367B56B					
UniRef90_A8F6V5					
UniRef90_U3W6D2					K L G V A P T R R N I F S K K E A I R
UniRef90_UPI0002554FFF					
UniRef90_E7GFP3					N K V R L G Y I P T R R D I F S K E D A I K
UniRef90_U2B7S7					K K I K I G F L P T R R S I F S A P D A V K
UniRef90_UPI0004135C74					
UniRef90_I7LAU2					K K I K I G F V P T R R N I F S A E A A I E
UniRef90_X1TG84					
UniRef90_X0WK89					
UniRef90_R2QEVO					
UniRef90_A4TQ45					M S A I P R K L I F A V I I G N R G F F P S Y L V S D A R R D A Q A
UniRef90_UPI00047C3047					
UniRef90_UPI00036D73DD					
UniRef90_X1A7Y2					
UniRef90_C5EN98					
UniRef90_N9X7S0					
UniRef90_A6VKQ1					
UniRef90_UPI0002F56667					
UniRef90_E1SKF4					
UniRef90_UPI0003F9AABC					
UniRef90_S9SBI8					
UniRef90_D3AH70					Q A
UniRef90_V7ELL7					M E E A V R
UniRef90_UPI0003798872					
UniRef90_F1TA71					
UniRef90_S0FN18					
UniRef90_F7YVX8					
UniRef90_R2PHU3					
UniRef90_R4K076					
UniRef90_W7RGA0					
UniRef90_UPI0003B510E3					
UniRef90_F3ZY45					
UniRef90_UPI0004098A18					
UniRef90_V2XJ68					
UniRef90_F6DQ06					L G R V T M V E A K L
UniRef90_UPI00047E69A1					F D M A S A
UniRef90_W0L9T5					A L K
UniRef90_C0D7N6					M T N K A K V G V L A L G R N T F D V P Y A Q E M L V I Q A
UniRef90_F3ZZ52					M E E A K R
UniRef90_UPI0004709A0B					
UniRef90_J1H1H5					K V
UniRef90_X0Z6I9					
UniRef90_H3NL86					
UniRef90_F5YEA7					
UniRef90_UPI00046EC7BE					A D A
UniRef90_F7KXX0					
UniRef90_UPI0004078EF3					M E E A V R
UniRef90_R6E8X0					
UniRef90_W4Q9L6					
UniRef90_F0RSH0					
UniRef90_E4Q3G1					
UniRef90_R7DPD5					
UniRef90_R5CQE1					
UniRef90_D8ID98					M K G K V K L G V L P T R R G M L D L E T A T R E K E K F
					C L L R K T F D Y E S A

UniRef90_L7VJ04 A Q D A R K Q [L] [L] K K [L] N G M G H E Y [V] [I] [V] D E N [V] Q T Y E Q A K [I] [C] A D [L] F R 50 60 70 80
UniRef90_F8FHW8 A D L I I D R F R
UniRef90_D8DVY0 [V] K K Q [L] [L] K [V] [L] D E Q G Y E Y [I] [L] P E S [I] E T [I] E D G [I] K N A E [L] F R
UniRef90_F0Z1W2 D [V] E K [I] A A K F [L]
UniRef90_G0GEK2 [L] [V] S [V] [I] E D C G W T A H [V] [L] N P D S P [I] A S [V] A E G M R V [I] K [I] E K F R
UniRef90_X0Y6L1 E M [I] A A [L] E R Q G Y K A [I] V [V] T P E Q T [V] E S Y S E A K [I] [C] A E [L] F Q
UniRef90_UPI00047B46CF G H K A [L] [C] [V] T P E E T [V] E T Y E E A K R C T A [L] F Q
UniRef90_E8V694 V E T P D E A R R C A E [L] F R
UniRef90_UPI00037464DC [L] A K A [L] S A Q G K [I] Q R A H P [V] D R A A G H G F [L] D S Q K M G M A [V] F R
UniRef90_B4D5G7 [V] Q S [I] S D A K [L] Y A D H F A
UniRef90_N9XF07 [V] I D K F S
UniRef90_A9CVE3 D A [I] R C A E [L] F R
UniRef90_C0C1I5 E K D [V] E A [I] [V] D F [L] K
UniRef90_C1F394 A G A G Q V I E R F R
UniRef90_H2IFW3 [L] I S E R [L] K E [L] G [I] E F [V] D [I] [V] N D E G [L] L Y D D A G [L] [L] K I V E K F K
UniRef90_UPI00037D34B6 T A N G A V [V] S [I] A D A E [L] Y A K H F K
UniRef90_D5AN96 V E T Y Q D A K V A A E [L] K
UniRef90_C4LFS1 V E T D D A S [L] R R G V A R C R
UniRef90_Q1ASX4 [V] R S Y [L] E E G P [L] E A F P P A T V [L] G T [V] E D A K K C A A [L] F H
UniRef90_UPI000370EA9F A A A G R E R M [L] R [V] [L] E E E G F E [V] [V] [C] P D T K [L] G T [V] E D A K K C A A [L] F H
UniRef90_G7UDD4 [V] E T R A E A K [I] [C] A A W [L] R
UniRef90_S7V9E6 K D [V] D K [I] [V] E K F K
UniRef90_A7B420 K F R
UniRef90_U2THR4 A K E G R E E M [I] K [V] [L] D G Y K S [I] [V] [L] S P E Q T [L] H G P D D A R K C A E [L] F K
UniRef90_UPI00047CAC4B I N A D G [L] L Y D D A G M T K A A K K F K
UniRef90_S2U3R9 [V] A E A R Q Q A [I] T [L] F D R [L] G [I] N T [V] M [V] D E N [L] G G [V] E E A K T C A A [L] F R
UniRef90_UPI000463BFE6 G D T Y [L] G G [V] E D A K V C A E [L] F R
UniRef90_H5V255 [V] Q S F E D A R K C A A [L] F K
UniRef90_M4Z527 A G M E K [I] A A K F K
UniRef90_W6T4N5 G Y G [V] [V] T [V] G S E E T [I] E S R A E A A R C A [L] F K
UniRef90_Q029Q0 E K F R
UniRef90_F2N936 D G [V] [V] E S Y S D A K K C A K [L] F E
UniRef90_X1GCP1 G R E A [I] [L] E K M K E M G F G Y [I] [L] S P T E T P [L] G [V] [V] E D A K K C A E [L] F S
UniRef90_I0R7U9 E D A K K C A D [L] F R
UniRef90_UPI000367B56B Y K Q [L] [V] S K K [L] K S M N [I] D F [V] D [I] N E E G [L] [L] F K E S D [V] E K V D K F K
UniRef90_A8F6V5 G Y E T [V] [C] [L] G P S E T [V] E T F S D A K K C A N [L] F K
UniRef90_U3W6D2 P A E I P A I I A K F K
UniRef90_UPI0002554FFF Y K E [L] [I] [L] E K [L] K S W N [I] D [L] V D [I] N E E G [L] [L] F D D N D [L] D K I V D K M [V]
UniRef90_E7GFP3 Y A N [L] T R A R [L] R E [L] G [V] E F V D I V N E D G [L] F Y D E G D R E [L] Q E K F R
UniRef90_U2B7S7 G Y K A [I] V V S P E E T A H G Y K E A E [I] [C] A A [L] F K
UniRef90_UPI0004135C74 F A N Y T R E K M D E [I] G [I] N Y [V] D [I] [V] N S D G [L] L Y D D E G [L] E K V Y K K F R
UniRef90_I7LAU2
UniRef90_X1TG84 Y A N [L] T R E K M K E [L] S [V] E Y [V] D [I] [I] N D D G [L] L Y D D A G [V] E K [I] A A K F K
UniRef90_X0WK89 [L] F D R [L] G [I] N [I] M [L] N E E Q T P [L] G G [V] E D A K V C A E [L] F R
UniRef90_R2QE0V V E T Y D E S [V] R C A E [L] F K
UniRef90_A4TQ45 T V E T F E D A E K C A R [L] F D
UniRef90_UPI00047C3047 D T P [L] G A [V] E D A K K C A E [L] F K
UniRef90_UPI00036D73DD W R T E E T P A [I] [V] E K F K
UniRef90_X1A7Y2
UniRef90_C5EN98 A N [L] T R D K [L] H A [L] D [V] E F [V] D [I] [I] N E D G [L] L Y D D E G [V] E S [I] A E K F T
UniRef90_N9X7S0 T N [L] G G [V] E E A K T C A A [L] F R
UniRef90_A6VKQ1 M L N S [L] G [V] E [V] I E P E E [I] V T S P D E [L] E F [L] N G [I] E
UniRef90_UPI0002F56667 R E E [V] [L] A Q [L] E R [L] G [I] G A [L] I [L] P F E A N G A V [V] S [L] A D A Q [L] Y A D F F R
UniRef90_UPI0003F9AABC Q K E R F M A V [I] R N T [L] S D S [V] E [I] [V] D [I] D [L] S W N M D E T R [L] I [L] E K F R
UniRef90_S9SBI8 T P N G A V [V] Q S [I] A D A D [L] Y A A H F R
UniRef90_D3AH70 Q V [I] E P D A [I] [L] T S [V] D E [L] A A F [L] R T [I] D
UniRef90_V7ELL7 D A D K [I] K R F K
UniRef90_UPI0003798872 D S D R A A K K F [I]
UniRef90_F1TA71 K [I] A E K F K
UniRef90_S0FN18 A A [I] [V] D R F Q
UniRef90_F7YVX8 A R [L] C A D [L] F K
UniRef90_R2PHU3 D [V] D K [I] I D K F R
UniRef90_R4K076 A V A D F [L] G
UniRef90_W7RGA0 Q K D C F M E E [I] R K [I] K A S [L] V E [I] V D [I] D D [I] V C E M D K [V] N A [I] V D K M K
UniRef90_UPI0003B510E3 N A C Y Q K S V A M [L] E K M G H E M [L] V P T G V L T S P E E M [L] E F M D S [I] D
UniRef90_UPI00047E69A1 Y K N [L] I R E K [I] E S F G [L] D [I] E [I] V I N D E [L] L H E R [L] E E P A [I] T K R F R
UniRef90_W0L9T5 W Q A [L] N G M D [I] E L V G E P [V] L Q F D A A S A [L] Q A L P A [L] K
UniRef90_C0D7N6 Q K D K F M A [V] I R D [I] K P D A V E [I] V D [V] D [I] M W D T A K [V] P G V E K F R
UniRef90_F3ZZ52 Q A A A V K E [L] A
UniRef90_UPI0004709A0B [L] A K [L] D S M G F G Y [V] [L] P E D E T P T G N [I] E G Y A D A [V] K C G A F F K
UniRef90_J1H1H5 D G [V] [V] E T Y A D A K K C A E [L] F K
UniRef90_X0Z6I9 A A E K F [I]
UniRef90_H3NL86 R R E [L] I Q A [V] E K Y G Y [I] A M D E K [L] T R F G A [V] E T R E E G R K Y A A F L R
UniRef90_F5YEA7 P A D [V] E K A V K [V] F K
UniRef90_UPI00046EC7BE Q K N K F M S [V] I R R [V] K P E [L] V E [I] V I A E Q G [L] Y E A D [V] P A [V] [V] D K [L] K
UniRef90_F7KKX0 D K [L] T
UniRef90_UPI0004078EF3 R D [V] E K [I] A E K F E
UniRef90_R6E8X0 S E E K [I] I K K F Q
UniRef90_W4Q9L6 E T [L] V [I] S Q E D G [L] A A A N [L] A
UniRef90_F0RSH0 [V] [V] S S [V] E D A V K C A S [L] F K
UniRef90_E4Q3G1
UniRef90_R7DPD5 M A [V] I R E [I] K P E [V] [V] T [L] V D [V] D D [I] C T N G [I] E N E A Y S P A [V] [V] E K F R
UniRef90_R5CQE1 W K E F K S K E A E [L] K K [I] E N [V] D W V [I] D E P [V] I E [V] E E A K K A A D K [L] S
UniRef90_D8ID98

UniRef90_L7VJ04 K N A D R I E G I 90 V I V T L P N F G D E I A V A T A N V P V L L Q A C D D D R R D
UniRef90_F8FWH8 Q E N V D A V F F P H C N F G G T E R V G R A L G K P V L L W G P R D D P L E D
UniRef90_D8DVY0 A H R D E I D G I I V S L P N F G G T E I G I I N T N V P V L L W Q A C D D D S R R D
UniRef90_F0Z1W2 A E G V D G L M L P H C N F G G T E R L A K K L N V P V L L W G P F L D D S R P D
UniRef90_G0GEK2 R E K V D G L F F N T R C Y S P E F A K L D V P V L L W H A F N D D E P R R D N
UniRef90_W0FLW5 K A E G S R F I N F M G H A N Y P D F S V Q L P R E V P K L M L W G S A I P D F P
UniRef90_X0Y6L1 R H A R E I D G I I T T L P N F G G E E R G L A D A R V P I L V Q A T P D D R R R D
UniRef90_UPI00047B46CF K N A K D I D G I I T T L P N F G G E E R G L A D A T R P I L I Q A T P D D R R R D
UniRef90_E8V694 R E E I D G I I V T L P N F G G E E R G I V D A Q V P V L V Q A T P D D R R R D
UniRef90_UPI00037464DC D I D P D A P L I V A A V W Q Y S H H V L L T T H R G P I L T V A N W S G Q W P
UniRef90_B4D5G7 E E A G V D G L F L P H C N F G G T E R L A K R L N V P V L L W G P R D S R R D
UniRef90_N9XF07 A N R D K I D G I V I C L P N F G G T E I A V A E L D V P I L L Q A C P D S R R D
UniRef90_A9CVE3 R A K V D A L F I P H C N F G G S E K V A A A L H V P V L L W G P R D P E R D
UniRef90_C0C115 K H R D E I D G I I V T L P N F G G D E R G V A D S T R P V L L W Q A T P D R R R D
UniRef90_C1F394 A A H G G I D G L V L C H S A Y T T E V A S Q R H K T P I F S L A M P P E P M G N
UniRef90_H21FW3 Q E K V D A L F F P H C N F G G T E K V A K A V S K P V L L W G P R D E A R D
UniRef90_R9LSR2 K E D V D A V F F P H C N F G G T E R V A K A L G K P V L L W G P R D P L E D
UniRef90_L0EB02 K E K I D G L F L P H C N F G G T E R L A K E L N V P V L L W G P L D D P E N
UniRef90_UPI00037D34B6 A H R D E I D G L V I C L P N F G G D E I A I A E L N V P I L L Q A S N D S R R R D
UniRef90_D5AN96 K H R E E I Q G V V V L P N F G G D E K A I A D A T V P V L I Q A E E D T R R R D
UniRef90_C4LFS1 E A G C E V L L V L Q P T M G D G R L A P L L A R L W D G P V V L W A T P E R P
UniRef90_Q1ASX4 A H A D R I D G V I V T L P N F G G D E K G V A N T R V P V L V H A F P D G R R D
UniRef90_UPI000370EA9F A R R D D L H G V V V L P N F G G D E K A L S G L N V P I L I Q A Q P D D R R R D
UniRef90_G7UDD4 S I V A E S V W Q F S H H V L L T T H K G P I L T I A N W S G Q W P
UniRef90_S7V9E6 K E G V D G L M L P H C N F G G T E R L A K K L D V P V L L W G P L D P E P N
UniRef90_A7B420 T A G V D G L F L P H C N F G G T E R L A K D L G R P V L L W G P L D P E R N
UniRef90_U2THR4 K H R E E I D G V I V T L P N F G G E R A I V D A L R P V L L W Q A T P D N R R D
UniRef90_UPI00047CAC4B D A N I D G L F L A N E N F G G T E R L A K Q F N V P V L L W G P K D P A P D
UniRef90_S2U3R9 Q H R D S I H G V V L P N F G G D E K A V A E A N V P V L I Q A Q E D T R R R D
UniRef90_UPI000463BF66 Q H R D E I H G V V L P N F G G D E K A V A E A N V P V L I Q A E E D T R R R D
UniRef90_H5V255 S R A S D I D G I V T L P N F G G E E R P I A D T N V P V L I Q A T P D D R R D
UniRef90_M4Z527 A E H I D G L F L A N E N F G G T E R L A K Q L D V P V L L W G P K T D E A P
UniRef90_W6T4N5 K N R D S I D G I I V T L P N F G G D E R A I A D T D V P V L V Q A T P D T R R D
UniRef90_Q029Q0 V A K V D G I L L A H C N F G G T E R L A R E L G K P V L L W G P R D P E P D
UniRef90_F2N936 K E Q I V G I I V L P N F G G D E K G I A D L N V P I L I Q A S D D E R R D
UniRef90_X1GCP1 R E E I D G I I V L P N F A A V T E A I V R S G R V P V L V Q A C S D D E R R D
UniRef90_I0R7U9 K N R D E I D G I I V T L P N F G G D E R A V A D T Q V P V L V Q A E P D D R R D
UniRef90_UPI000367B56B E N S H K L D G L I V T L P N F G G D E K A I T Q A K P V L L H A F D D D P E R D
UniRef90_A8F6V5 Q E K V D A L F F P H C N F G G T E K V A H K L H L P V L L W G P R D G A R D
UniRef90_U3W6D2 A A G V D G I F V P H C N F G G T E E L A R E L N L P V L V W G P R D P E R D
UniRef90_UPI0002554FFF E N K V D A L F F P H C N F G G T E Y L V A R L N L P T L I W G P R D E E R D
UniRef90_E7GFP3 A E G V K D G I F I P H C N F G G T E R L A K E M G L P V L L W G P R D P E N
UniRef90_U2B7S7 K H A D E I D G I I T L P N F G G E E R G L A D A N V P V L I Q A T P D D R R D
UniRef90_UPI0004135C74 D E E I D G L F I A N E N F G G T E R L A A K F N V P V L L W G P R D R R R D
UniRef90_I7LAU2 A Y P D E L T K M D A D L D V P V L V Q A F P D D R R D
UniRef90_X1TG84 A A E V D G L F L A N V N F G T E R L A K K L E V P V L L W G P K D T R P
UniRef90_X0WK89 Q H S E E I H G V V V L P N F G G D E K S V S D A I R P V L V Q A E E D T R R D
UniRef90_R2QE0 A A E V D G L F L A N V N F G T E R L A K K L E V P V L L W G P K D T R P
UniRef90_UPI00047C3047 K H A N E I D G I I V T L P N F G G E E R G I V D A I R P V L V Q A T P D K R R D
UniRef90_UPI00036D73DD Q Y R K D I S G I I V T L P N F G G D E K G V A G L N V P V L V H A F S D D R R D
UniRef90_X1A7Y2 K N S D K I L G I L L C L C A F A S E V L K R F T C P V L L W T L R E P V I D
UniRef90_C5EN98 T A G I D A L F L P F C D F G E E Q A A A S F H L P V L I W G A R D E R P
UniRef90_N9X7S0 A E K V D G L F L P H C N F G G T E R L A K R L N V P V L L W G P R D P E D D
UniRef90_UPI0002F56667 R E A I H G I V V L L P N F G G D E K A L A G L N V P V L V Q A E E D T R R D
UniRef90_UPI0003F9AABC K D R I V A S I Y Q S V T F A D G G V E V L I K Q V Q A P V M V W S I R E P S I N
UniRef90_S9SBI8 R H R D R I D G L V V C L P N F G G D E I A I A R L N V P I L L Q A S N D E R R D
UniRef90_D3AH70 T A G I D A L F I P F C D F G G E E Q V A A A F H L P V L I W G A R D E R P
UniRef90_V7ELL7 A N A D R I D G L V I C L P N F G G D E I A V A E L G V P V L L Q A S N D E R R D
UniRef90_UPI0003798872 A S S V D A V L Y Q S V T F A D G G E F V A L E D V E A P Y I V W S V R E P S T R
UniRef90_F1TA71 A E D V D A V F F P H C N F G G T E R V A K A V G K P V L L W G P R D E A R D
UniRef90_S0FN18 E A G V D A I F A P H C N F G G T E V A K L A K K V P V L L W G P R D G E R D
UniRef90_F7YVX8 K E P V D G I L L L S A T F H L G D L A L H I S R D F P V P I M C W A V P E P P
UniRef90_R2PHU3 A A K I D G L F L A N E N F G G T E R L A K K L D V P V L L W G P K D E T R
UniRef90_R4K076 D L I I Y Q C S T F V G G E F V T E L T R R F P I V V W A V R E P S I D
UniRef90_W7RGA0 S E G V D A L F F P H C N F G G T E K I A K A V D K P V L I W G P R D P L D N
UniRef90_UPI0003B510E3 K H A D E I D G I L I S L P N F G G D E K G I A D T R V P V L V Q A F P D D R R D
UniRef90_F3ZY45 A A K I D A L F I P H C N F G G S E A V A D A F K L P I L L W G P R D P D R D
UniRef90_UPI0004098A18 D K N P D L V I L Q F A N A Y A S E V L R R F N C P I L L W T L R E P V I D
UniRef90_V2XJ68 N R K I D A L F F P F C D F G G E T I A S K F T V P I L I W G P R D E R D
UniRef90_F6DQ06 K I D L V V F Q T I T F I D N R F V V D Q K T A A P L V I W A V R E P S I D
UniRef90_UPI00047E69A1 D A E V D A L F F P H C N F G G T E R V A K A I G K P V L L W G P R D E A R D
UniRef90_W0L9T5 Q A D L D L L L I L Q V T F T D A S L T I E V A R D F P L A M W S F P E A R T G
UniRef90_C0D7N6 S A G V D A L F I P F C D F G E E Q I A A F K L P T L V W G A R D E R P
UniRef90_F3ZZ52 D K A V D V I I M Q S A T F V D G Q F A L A V A Q N W P I L L W S V D E P T L T
UniRef90_UPI0004709A0B K N S I E G I I V V L P N F G D E L G V V N T N V P V L V Q A V D D S R R D
UniRef90_J1H1H5 P T L V W T L R E P V I D
UniRef90_X0Z619 E H K E K I I G I I I V L P N F G D E K G I V D L N V P I L I Q A S S D E R R D
UniRef90_H3NL86 K E K I D A L F I A N V N F G T E R L A K K L N V P V L L W G P K D D E R D
UniRef90_F5YEA7 E H A G Q F G V I L C M P N F S D E N G A Q A A G V P I L V Q A Y R D H R R D
UniRef90_UPI00046EC7BE D A D V D G I F I A N C N F G G E E S V A A E L N K P I L L W G P R D N T R D
UniRef90_F7KKX0 K A G I D A L F L P F C D F G G E E A V A A A F R V P I L L W T F E A R G R D
UniRef90_UPI0004078EF3 S E K V D A L F F P H C N F G G T E K V A K N F N L P V L L W G P K A D E S R D
UniRef90_R6E8X0 K E G V D G L M L A H C N F E Y V C A R L A K R L G L P V L L W G P L D P E P N
UniRef90_W4Q9L6 D A E V D A L F F P H C N F G G T E R V A K A V G K P V L L W G P R D P L E N
UniRef90_F0RSH0 T E H V D G L I C I S G T F H L G H L V L K R S V P V L L W G L P E P Y N G
UniRef90_E4Q3G1 A N E D K I K G I I S L P N F G D E V K L S G L N V P V L V H G F N D D R R D
UniRef90_R7DPD5 D G V I L C M P I F I D G A I T A L R D A N V P I L M Q A Y P D E R R D
UniRef90_R5CQE1 K A N V D A I F V P F C D F G D E G S V A D F Q V P V L V W G A R D E R P
UniRef90_D8ID98 S E L V D G V I I T S G T F H L G H L A L I I E E K L K K P V W G L P E A P Y D

UniRef90_L7VJ04 A F C G K L S V C N N L R Q Y G I P F T L T K L H T C S I E S E E F T
UniRef90_F8FHW8 G M C G L F A T G K V L R R F N V P F S Y V T N S R V D D P V F E
UniRef90_D8DVY0 A F C G K L S V C N N L Y R Y G I P F S L T S L H T Y S I Y S D L L
UniRef90_F0Z1W2 G T C G L F A T G K V L R R F Q I P F T Y L T N C R L S D P V F E
UniRef90_G0GEK2 A F C G K L S V C N N L Y R Y G I P F T L T R L H T C D V E S K E F E
UniRef90_W0FLW5 G M C G L F A T G K V L R R F R V P F T Y M N N C N L L T D P E F E
UniRef90_X0Y6L1 G A V G L L A S V A G T E R Q V G I Q T G R L F I E N F D D H D D F P Q D V E
UniRef90_UPI00047B46CF S F C G K M S T C N N L R Q Y G I P Y T L T T L H T E A P D S E Q F S
UniRef90_E8V694 S F C G K M S L A N N L R Q Y G E K Y S L T T L H T E A P D S A E F A K D L Q
UniRef90_UPI00037464DC S F C G K M S A C N N L R Q Y G I P Y S I T S L H T S A P N S D S F A
UniRef90_B4D5G7 G L V G L L N L N A S L T K A G V R Y S T L W S E T F T D G W T T P A E D E
UniRef90_N9XF07 S Q C G L F A T G K V L R R F G V P F T Y L T N C R L E D P E F E
UniRef90_A9CVE3 A F C G K I S I S N N F W Q Y G V P F T E T T N H T V D I E S D E F A
UniRef90_C0C115 G S C G L F A T G K V L R R M K V P F T Y V P F T L T A K H T V Q P D S D E P N C R V D S P Q F E
UniRef90_C1F394 S F C G K M S A C N N L M Q Y G I P Y S I T A K H T V Q P D S D E P N C R V D S P Q F E
UniRef90_H2IFW3 G L N L Q A N S V C G I L N S Q D V K Y Q W L F C A P Q D E R V E
UniRef90_R9LSR2 S Q C G L F A T G K V L R R R F K V P F S Y M N M C R L T D P Y F A
UniRef90_L0EB02 G M C G L F A T G K V L R R F R V P F T Y V T N C R V D D P V F E
UniRef90_UPI00037D34B6 G V C G L F A T G K V L R R F R V P F T Y M T N C R L H D P V F E
UniRef90_D5AN96 A F C G K F S V A N N F W Q Y G V P F T E T T T H T C D T G G A E F G
UniRef90_C4LFS1 S F C G K I S L C N N L R Q Y G I P F T L T T Q H V C G L N S D V F E K
UniRef90_Q1ASX4 S L V G T H L F A S T L R Q L G R P F E V V Y G D P A D G R L R R D L E
UniRef90_UPI000370EA9F A F C G K I S V C N N L V Q F G I P F S L T T R F H T V W P E E D S F R
UniRef90_G7UDD4 S F C G K I S L C N N L R Q Y D I P F T L T T Q H V S D L A G E S F A
UniRef90_S7V9E6 G L V G M L N L N G S L T K A G V P Y S T L W S Q D F K D S E S G K T H D L S
UniRef90_A7B420 G V C G L F A T G K V L R R R F Q I P F T Y L T N C R L N D P V F E
UniRef90_U2THR4 G V C G L F A T G K V L R R F R V P F T Y L T N C R V D D P V F E
UniRef90_UPI00047CAC4B S F C G K M S A C N N L M Q Y G I P Y S L T A L H T V S P S S E A F R
UniRef90_S2U3R9 G S C G L F A T G K V L R R Q Y V P F T Y L V N V D I D D P E F E
UniRef90_UPI000463BFE6 S F C G K I S L C N N L R Q Y G I P F T L T T Q H V C A L T S D V F E
UniRef90_H5V255 S F C G K I S L C N N L R Q Y G I P F T L T T Q H V C A L S S E V F A A D L Q
UniRef90_M4Z527 S F C G K M S A C N N L R Q Y G I R Y S L T K S H C V D P L S D E F Q
UniRef90_W6T4N5 A A C G L F A T G K V L R R F G I P F T Y L V N V D V D D P E F E
UniRef90_Q029Q0 S F C G K M S A C N N L K Q Y G I P Y S L T T L H T E S P D S E I P A F E
UniRef90_F2N936 G T C G L F A T G K V L R R F Q V P F T Y M T N C R L G D P A F E
UniRef90_X1GCP1 A F C G K L S I C N N L Y Q S R I P F T L T E T H T C P I N S D E A F K
UniRef90_I0R7U9 S F C G K L S V C N N L R Q S G I R F S L T T H H T E Q I Q S E S F K
UniRef90_UPI000367B56B S F C G K I S V C N N L N Q Y R I P F T L T T F H T E S L G S K E F L L D L Q
UniRef90_A8F6V5 S F C G K L S V C N N L K Q S G I R F S L T T H H T E Q I Q S E S F K
UniRef90_U3W6D2 S Q C G L F A T G K V L R R F R I K F T Y I P N A S L E C E A F E
UniRef90_UPI0002554FFF S Q C G L F A T G K V L R R F R I P F T Y L T N C R L T D P E F K R G M D
UniRef90_E7GFP3 S Q C G L F A T G K V L R R F S V K F T Y L T M C R L K D K Q F K
UniRef90_U2B7S7 G V C G L F A T G K V L R R F R V P F T Y M T N C R L E D P E F E
UniRef90_UPI0004135C74 S F C G K M S I C N N L Q Q Y G I K Y S L T T L H T E A P D S P E F E
UniRef90_I7LAU2 T Q C G L F A I G K V L R H F N V P F T Y I R N S D I D D P S F T
UniRef90_X1TG84 S F C G K L S V C N N L K Q Y G I P F S L T E L H T V S L S S K D T
UniRef90_X0WK89 S F C G K M S V C N N L T Q Y G I K F S L Y S L T E Q H T V D P G G E A F Q
UniRef90_R2QEVO A A C G L F A I G K V L R R F K V P F T Y M K N C D I D T E F E
UniRef90_A4TQ45 S F C G K I S L C N N L R Q Y G I P F T L T K Q H V C S L N S I E F S
UniRef90_UPI00047C3047 S F C G K M S A C N N M M Q Y G I K Y S L T T L H T E S V N S P E F K A D
UniRef90_UPI00036D73DD S F C G K L S V C N N L K Q Y G I P F S L T T Y H T E D P D S E V F R
UniRef90_X1A7Y2 A F C G K I S V T S V L Y Q Y G I P F T L T K Y H T C P I K S D L F K
UniRef90_C5EN98 G L T G A F S A G N A L R A F D G E F E Y V F G S P E E D E V A
UniRef90_N9X7S0 N T C G M F A A T K V L R R R H G V K F Y S Y L Y N C E T E S D T F A
UniRef90_A6VKQ1 S F C G K I S L C N N L R Q F G I P F T L T T Q H T C A L T S D I F K
UniRef90_UPI0002F56667 G S C G L F A T G K V L R R F Q V P F T Y M K N C R L D D P E F E
UniRef90_E1SKF4 S F C G K L S L C N N L R Q Y G I P F T L T R Q H V C A L S G E V F E
UniRef90_UPI0003F9AABC G R L R L N S L T G G L K C A N H P Y S F L F G N P E E A Q I K
UniRef90_S9SB18 A F C G K I S V S N N F W Q Y G I P F T T T W H T V D A G G P E F A A D
UniRef90_D3AH70 N S C G M F A A T K V L R R R H G V T Y S Y I V N C E T E S D E F R
UniRef90_V7ELL7 A F C G K I S V T N N F W Q Y G V P F T E T T Q H T C D T W G E E F G
UniRef90_UPI0003798872 G R L R L N S L T G G L R N L R H P F S F V F G N P S E E E L Q N S L V I Q Q F V
UniRef90_F1TA71 T Q C G L F A T G K V L R R F N V P Y T Y I V N S T L D S T V F D
UniRef90_S0FN18 S Q C G L F A T S K V L Q Q F G V P F T Y I P N T R V E D A L F K
UniRef90_F7YVX8 G R V R L N S L V G A H L D F S N L Y R A G R N D A N D P D F S
UniRef90_R2PHU3 A A C G L F A I G K V L R R F K V P F T Y V K N S D I D S E F A
UniRef90_R4K076 G L T G A F S A G N S I R M Q G H Q H E F V F G N P E E E T V I
UniRef90_W7RGA0 G M C G I F A T G K V L R R F N V P F T Y I T N S V V D S K V F E
UniRef90_UPI0003B510E3 S F C G K L S V C A N L R R R F D F T L T Q D H C V Y P Y E V S F K E D L K
UniRef90_F3ZY45 T Q C G L F A T G K I L R R F G L P F T Y M P N C R L E D P V F E
UniRef90_UPI0004098A18 G T R L R S N S L T G A A N A I C A F R G Q G K F E H V F G A P S E E N V K
UniRef90_V2XJ68 N T C G M F A A T K V L Q R Y G L K Y S Y I Y N C T T K S E E F L
UniRef90_F6DQQ6 G L T G A F S N G C G A G R L G H K T S F L F G N P G E E A V E
UniRef90_UPI00047E69A1 S Q C G I F A T G K V L R R F N V K F T Y I T N C R V D D P I F E
UniRef90_W0L9T5 G R L R L N S F C G A L S R E A I K V Q T L H G L P S D S R L T
UniRef90_C0D7N6 N S C G M F A A T K V L R R R H G V K Y S Y I Y N C E T E S G D F R
UniRef90_F3ZZ52 G R L R L N S L T G A L Y S I R R N F K F V H G N P D D K E T L
UniRef90_UPI0004709A0B A F C G K L S V C N N F Y Q Y G I K F T T T Y H T Y S L D S A E E F T
UniRef90_J1H1H5 G L N S L T G A Y S A A N A M D R F A Y V F G A P E E E A V I
UniRef90_X0Z619 A F C G K I S V C S V L Y Q N G I P F T L T E T H T C L I N S D A F K
UniRef90_H3NL86 S Q C G L F A I G K V L R R F N L K F T Y I Q N S D I D S E A F E
UniRef90_F5YEA7 S M C G K F A M C N V L R Q C G I K Y T I P P F T V D P G E E V F F Q
UniRef90_UPI00046EC7BE T Q C G L F A I G K A L R R Y N L P F T Y I P N V A L E D P T F E
UniRef90_F7KKX0 T Q C G M F A A T K V M R R Y G V T Y S Y I F N C E T K S P R F A
UniRef90_UPI0004078EF3 S Q C G L F A T G K I L R R F R V K F S Y L T M C D V E D K Q F E
UniRef90_R6E8X0 G Q C G L F A T G K V L R R F R V P F T Y L T N C R L S D P V F E
UniRef90_W4Q9L6 G M C G M F A T G K V L R R F N V K F T Y I T N C R V D D L T F E
UniRef90_F0RSH0 G K I R L N S V C G V N N L N A S N L Y K S G Y D D Y T V I I Q D S V D
UniRef90_E4Q3G1 A F C G K I S V C N N L Y Q M G I K F T T T L H T C D V E D S V I Q D S V D
UniRef90_R7DPD5 A F C G K F S L T D V F S Q Y H V P F T V L K P H V V H P L S K E F R
UniRef90_R5CQE1 N T C G M F A A T K V L R R Y G V T Y S Y I F N V A A D T E E F R
UniRef90_D8ID98 G A C G V H L N K S N L F K A G V K F V H H V V A P L P D

UniRef90_L7VJ04 E D L K R F E K L 170 K T V N N L R R A R I L A V G T R P G P F Q T V R F S E K L 200
UniRef90_F8FHW8 R G F T N F I G A A N A V V N H F R S L R I L Q I V G G T R R P P S S F W T M M C N S E K L
UniRef90_D8DVY0 V G I N K F A G I C R N V V K N T L F R N H C R I L G Q I V G G S T R P P L G F W T M C R A S N E E K L
UniRef90_F0Z1W2 R G I R N D F A V C C R V V V K G L F R N S A R I L Q I V G G S T R P P F D F W T M F S N E E K L
UniRef90_G0GEK2 T D L K D F A A V C C R V V V K G L F R N S A R I L Q I V G G S T R P P F D F W T M C N S E E K L
UniRef90_W0FLW5 R G I R N D F A V C C R V V V K G L F R N S A R I L Q I V G G S T R P P F D F W T M C N S E E K L
UniRef90_X0Y6L1 V D G D H R A K A R S V I D R V F R N G S Y G A V G G G A R P R S M Q M W N K I S D A E D F
UniRef90_UPI00047B46CF Q D L Q D F A A T C C R I V V R G F F R N L R L G A I V G G A R P P A A F N T V R Y S E K L
UniRef90_E8V694 E K D L A W F A S A T C C C R I V V R G F F R N L R L G S I V G G A R P P A A F N T V R Y S E K L
UniRef90_UPI00037464DC K D L A W F A S A T C C C R I V V R G F F R N L R L G S I V G G A R P P A A F N T V R Y S E K L
UniRef90_B4D5G7 R L G R D F A R K L R R E K A I G V F D D E G C M G M F N A I V P D E
UniRef90_N9XF07 G G I R N F A R L A V C N V V K V F R H T R I L Q I V G G P R T P F D F W T M C N S E K L
UniRef90_A9CVE3 A D L D R F A R L A V C N V V K V G L K G A R I L Q I V G G A R P A R T G P F D F Q T M R Y S E K L
UniRef90_C0C115 K G F K N F A A A N V I K E F F R N G R I L Q I V G D G A R P P A D F W T M M V N S E K L
UniRef90_C1F394 K D L D W F A K V C R V V D S Q L K G R K A L I A A G S R V P Q A F Y D C E V N E E K L
UniRef90_H21FW3 A E L Q R F A R V S R T L S Q L K G R K A L I A A G S R V P Q A F Y D C E V N E E K L
UniRef90_R9LSR2 W R L D N F L A A A Q V V K E L D G M T I L Q I V G G T R P A G F W T V M A N E E K L
UniRef90_L0EB02 R G F T N F L A A A N V V K E T F F R N M R I L Q I V G G T R P A S F W T V I C N E E K L
UniRef90_UPI00037D34B6 R G I K D F M A V C C R V V V K T F Q H I R I L Q I V G G S T R P P A S F W T V I C N E E K L
UniRef90_D5AN96 A D L E R F A R I C C R T V R G L R N A R I G A I V G G A R T S P F Q T M R Y S E K L
UniRef90_C4LFS1 K D L G R F T Q L C C S V V S A M R G S K V G A I V G G A R P A S F N T V R Y S E K L
UniRef90_Q1ASX4 E A L R W F A Q V C C R I V V K G L K N L K I V G A I V G G A R P A G A F N T V R Y S E K L
UniRef90_UPI000370EA9F R D I S R F K Q A V C C R I V V S S M R G A R V G A I V G G A R P A G A F N T V R Y S E K L
UniRef90_G7UDD4 H V K A F A K A L L A K E S F R K N K A I G V F D E G C M G M F N A I V P D H L
UniRef90_S7V9E6 R G V K D F L A V C N V V K T F K N I R I L Q I V G G T R P P F D F W T M C N S E K L
UniRef90_A7B420 R G L R D F A R L A V C N V V K R A F R A A R I L Q I V G G P R P P Y E F Y S T M C N S E K L
UniRef90_U22THR4 K D L D W F A A V C C R V V N G F R N L R I L Q I V G G A R P P A F N T V R Y S E K L
UniRef90_UPI00047CAC4B R G V Q D F I K V C C R V V V K T F K A T R I L Q I V G G P R P P A D F W S T M V N S E K L
UniRef90_S2U3R9 N D L R R F E S Q I C C R V V V T A M R G V R I G A I V G G A R P P A S F N T V R Y S E K L
UniRef90_UPI000463BFE6 R G V N D F L A V C C R V V V R T F R G M R I L Q I V G G T R P P S A F W T T M C N S E K L
UniRef90_H5V255 Q D L A R F S A I C C R V V V G G L R G L R I G A I V G G A R P P Q A F N T V R Y S E K L
UniRef90_M4Z527 R G V T D F I K V C C R V V V K T F K N I R I L Q I V G G T R P P S A F W S T M V N S E K L
UniRef90_W6T4N5 N D L S W F A Q V C C R V V R K G L R R I R I L Q I V G G A R P P S A F N T V R Y S E K L
UniRef90_Q029Q0 R G V N D F L A V C C R V V V R T F R G M R I L Q I V G G T R P P S A F W T T M C N S E K L
UniRef90_F2N936 T D I V K F E K V C C R V V V K K L K N V R F G Q I V G G V R P P S A F E T V R Y S E K L
UniRef90_X1GCP1 D V E N F A G L C C K V V R G L K N L R I G S M G G A R P P S A F N T V R Y S E K L
UniRef90_I0R7U9 N D L E W F A G V C C R V I R G L K N A R I G S M G G A R P P S A F N T V R Y S E K L
UniRef90_UPI000367B56B R G V N N F I A A V N V V K E L K N R I L Q I V G G S T R P L S F W T M M C N S E K L
UniRef90_A8F6V5 I G V F R F L A T A N I V D K E M R D L T I L Q I V G G S T R P Y D F L T T M C N S E K L
UniRef90_U3W6D2 R G M R N F L A V C C R V V D V F R H T R I L Q I V G G A R P P F D F W S T M C N S E K L
UniRef90_UPI0002554FFF A D L K W F A G V C C R I V V R G F R N L R I L Q I V G G A R P P A A F N T V R Y S E K L
UniRef90_E7GFP3 R G L V D F I K V C C R V V K T F R S T R I L Q I V G G P R P P F D F W S V I V N S E K L
UniRef90_U2B7S7 S D L D W F M G V C C R V V K G L S Q A R I G A I V G G A R P A R T P F F K T V I V S E K L
UniRef90_UPI0004135C74 K D L Y R F E S I C C R V V M R G L S G V R I G V I V G G T R P A A F N T V R Y S E K L
UniRef90_I7LAU2 R G L Q D F I K V C C R V V K T F K A T R I L Q I V G G P R P P T N D F W T V I C N S E K L
UniRef90_X1TG84 R D V E Q Q F V Q L C C R V V H A M K R V R V G A I V G G A R P P T N D F W T V R Y S E K L
UniRef90_X0WK89 R G L Q D F I K V C C R V V K T F K A T R I L Q I V G G P R P P T N D F W T V I C N S E K L
UniRef90_R2QE0 V L E W F S A V C C R I V V K G L R N L K L G A I V G G A R P A A F N T V R Y S E K L
UniRef90_A4TQ45 K D I E W F A G V C C R I V V G G F K N L K A G A I V G G A R P N A F E T V R Y S E K L
UniRef90_UPI00036D73DD E D L K R F E K L C C K I V K K L R T A R L G Q I V G G T R P N A F E T V R Y S E K L
UniRef90_X1A7Y2 G A V K A A I G A A R I K H Q M R E L K M A S I G H T P Q G F G F G R A L D S E
UniRef90_C5EN98 Q G Y D R F I R T A A V L K A L R G R I L A K I G G A R P P V P F M S V M T N E A D L
UniRef90_N9X7S0 Q D L K S F E A I C C R V V T A I R G C R I L G A I V G G A R P P A G F N T V R Y S E K L
UniRef90_A6VKQ1 R G V N D F L K V C C R V V K V F K S M R I L Q I V G G P R P P A G F W S I M C N S E K L
UniRef90_UPI0002F56667 Q D L Q R F S Q L C C R V V N A M R R V R V G A I V G G A R P P A G F N T V R Y S E K L
UniRef90_E1SKF4 S R L L K F L K V Q V Y I H E L K R V K I G V V G G E H P P G F F S G T D E K L
UniRef90_UPI0003F9AABC L D R F A R I C C R T V R G L R G A R L G A I V G G A R T G A F Q T M R Y S E K L
UniRef90_S9SB18 Q G Y D R F I R V A A V L K A L R N S A R L A K I G G A R T P V P F M S V M T N E A E
UniRef90_D3AH70 R D L D R F A R V C C R T V K A G L R S A R L G S I V G G A R T G A F Q T M R Y S E K L
UniRef90_V7ELL7 N R L L R K L R E L T I G V I G G E H P P G F F S D A D E S L
UniRef90_UPI0003798872 R G L T N F I S A A A N V V K A F R K L R V L Q I V G G T R P S G F W T M I C N S E K L
UniRef90_F1TA71 K G L K N F I S A A A N V V K A S M T N L R I G Q I V G G D T R P A G F W T V K C N E E E
UniRef90_S0FN18 K K L L N W L M A L R A I K T L K N C K I G L L G G G R A R S F V N V D V Y E P E
UniRef90_F7YVX8 R G L Q D F I K V C C R V V K T F K Q T R I L Q I V G G P R P P Q D F W T V I C N S E K L
UniRef90_R2PHU3 T K L R K I G S A V E M T K K L R N L V I G V I V G G S Q P Q G F G F G N I D E A K E
UniRef90_R4K076 R G F K N F I G A A N V V K Q F K Q L R I L Q I V G G S T R P S D F W S V I C N S E K L
UniRef90_W7RGA0 K F G V C C R V V N K L R N A R F G A I V G G A R P P A A F N T V R Y S E K L
UniRef90_UPI0003B510E3 R G L S N F I A A A N V V K E F R N M R I L Q I V G G A R P A D F W T M M C N S E K L
UniRef90_F3ZY45 R E I E A T I F A A R V K D L T G L K M S A I G H T P Q G F G F G R A L D A E N
UniRef90_UPI0004098A18 K G Y E T F I R T A A V L K S L R T L R I A K I G G E N T P V P F M S V M T N E A N
UniRef90_V2XJ68 Q K L G R I M G V L A V K K L K N L R V A K I V G N T P P Q G F G F G N I D E A Q
UniRef90_F6DQQ6 R G F K N F I G A A N V V K H F S S L R I L Q I V G G T R P S D F W S V I C N S E K L
UniRef90_UPI00047E69A1 N E L Q Q L A Q A A A V K R F K Q A K V M V I G G E R H P L G F E A C N Y N Q Q N
UniRef90_W0L9T5 N G Y E N F L R V A M V L K A L K N L R V A K I V G E R P V P F M S V M T N E A N
UniRef90_C0D7N6 S Q I T G Y I R V I G V L R E L N G A T L G V F G G N Q P S G Y Y P S A V D E L G
UniRef90_F3ZZ52 K D L K F A S I C R V V K G L S N L R V G A I V G G T R P I G F Q T M R Y S E K L
UniRef90_UPI0004709A0B H K I H A F L R A G E V Y H K L H S L K M A A V G H T P Q G F G F G R A L D S E
UniRef90_J1H1H5 A D I I K F E R V C K I V K K L K N A R F G Q I V G G T R P N A F E T V R Y S E K L
UniRef90_X0Z619 R G L L D F L K V C C R V V K T F K N T R I L Q I V G G P R P P F D F W S V I C N S E K L
UniRef90_H3NL86 E H L Q K F A G I C C R I V V K T M R R M N L G S F G G A R T T A F K T V R V D E I G
UniRef90_F5YEA7 R G Y K S F A A V C S I V K N F K K T R I L Q I V G G T R P P Q P F W S V I C N S E K L
UniRef90_UPI00046EC7BE S G Y E N F I R T A A V V K A V K G L R I A K I G G D R P V P F M S V M M A N E A D
UniRef90_F7KKX0 D G I N R F I A T S N I V K E L R N L T V L Q I V G G T R P A G F W T V M M V N S E K L
UniRef90_UPI0004078EF3 R G V R D F L A V C N V V K T F K N I R I L Q I V G G T R P P A D F W T T M C N S E K L
UniRef90_R6E8X0 R G F K N F I A A A N V V K H F N S L R I L Q I V G G T R P S D F W S V I C N S E K L
UniRef90_W4Q9L6 E D L R N F N S I C N I V D G L R N I N I L Q L G G T R P A P F K T V R Y S E K L
UniRef90_F0RSH0 Q N L D D F A I C R V V K G M R R E T I G K I G G A R T S A F K T V R F D E V A
UniRef90_E4Q3G1 Q G F E N F R V A C I V K D M R G L R I G K I G G E H P P F R S V M T N E K
UniRef90_R7DPD5 V N W L D A L R M V K A M E T A K L A L V G S R A Q G F F N L A F D E L T
UniRef90_R5CQE1
UniRef90_D8ID98

UniRef90_L7VJ04 L Q R Y G I S V L V E D I G N I I S R A N E I N D I K I E E T V S E I R E
UniRef90_F8FWH8 L L E R F G I E V H P I T L V S D I I Q R R I E N G Q S S K E L A E A V D Y I K E
UniRef90_D8DVY0 L L Q R S T Q L V P A D L S E L V I F A A Q K I E D N D P A L D A Q M L K D I H
UniRef90_F0Z1W2 L L E K F N V I T L A P V P A D L S E L V I F A A Q K I E D N D P A L D A Q M L K D I H
UniRef90_G0GEK2 L L Q A T G I T V L P V V D L S E I I J A A Q R M S T Q D D P R V R Q K V D E I Y A
UniRef90_W0FLW5 L L E K F N I Q L A P I P L P E L Y A E M R K W R E E K T E V A R V V A Y C R E
UniRef90_X0Y6L1 L L K
UniRef90_UPI00047B46CF L E K S G I T V D T L D D L S E I V F G R I Q R L P D A D H E V V Q Q D K L T A I I K S
UniRef90_E8V694 L E R S G I T V D T L D D L S E I V F G R I Q R L P D A D H E V V Q Q D K L T A I I K S
UniRef90_UPI00037464DC L E R S G I T V E V L D L S E I V F G R I Q R L P D A D H E V V Q Q D K L T A I I K S
UniRef90_B4D5G7 L L H P T G L F K E R L S Q S T L F A T M R T V S D T E A D G V I T W L K K K
UniRef90_N9XF07 L L E K F G I Q L S P I P L P E L T A E M K R A K A E G V L E V R K A V M E A
UniRef90_A9CVE3 L L Q T S G V I T V V I V D L S E M M H A A G Q I A D D A P E L L E K L Q K I T A I I K S
UniRef90_C0C1I5 L L E K F G I Q V F P I T M V E F A D K L E L E A S D S A E V V Q Q K L A A I K A S
UniRef90_C1F394 L E R S G I S V F T R L N L V D I T F G S R M E F K D D D V Q E V K R L E E T I I K S
UniRef90_H2IFW3 L I E K F N I R I H P I T A L P I E L K E E M E Q V D L D E I E E T I D T I K K
UniRef90_R9LSR2 L L E R F G I E I H P I T I D I L R R A A E K G G S D L D E I A V E Y I K S
UniRef90_L0EB02 L L E K F N I Q L A P I P L P E L T K A A K A K K E S E V T K T I E Y L R A
UniRef90_UPI00037D34B6 L L E K F N I Q L A P I P L P E L T K A A K A K K E S E V T K T I E Y L R A
UniRef90_D5AN96 L Q A S G M T V V I T A D L S E I L Q L A G A I D D A D D P D L A A K L T K L K A
UniRef90_C4LFS1 L E R M G V T V E T I D L S E I L F T R V D N L K D D D D E R I D E K L A L K A
UniRef90_Q1ASX4 M S R S L G V E M V Q L D L S H E F V E L A R S F G D E E L R A G R V L G M
UniRef90_UPI000370EA9F L E T Y G I S V E T I D L S E I F A A M G K V P E E E A K K K L E E I R A
UniRef90_G7UDD4 L E R L G I A V E T L D S Q S T L Y F S R M K R L G D S D I R V D E E K R R L L D
UniRef90_S7V9E6 L H K T G L F K E R L S Q S T L Y F S R M K R L G D S D I R V D E E K R R L L D
UniRef90_A7B420 L L E K F N I Q L A P V P M T E L T E E V K T V R E D S K E M E Q M I A Y L K D E
UniRef90_U2THR4 L L E R F N I E C V P V P L G E L T R G V I E H T G D G S D V E A Q L A W M E Q A
UniRef90_UPI00047CAC4B L L E L N G I S V E T L D L S E I V Q G E I H E L Q A N H D E I S T T L A T L R E
UniRef90_S2U3R9 L L E K F N I S L S P I P L P E L V Q E I H E L Q A N H D E I S T T L A T L R E
UniRef90_UPI000463BF6 L E R M G V A V E T L D D L S E I F T R V I K H I S D D D I R V Q E K R R V L L D
UniRef90_H5V255 L E K M G V A V E T L D D L S E I F T R V I K H I S D D D I R V Q E K R R V L L D
UniRef90_M4Z527 L E R A G I S V I T L D L S E I L G R V S R L S D D H A I T T E K L D A I R N
UniRef90_W6T4N5 L L E R F N I S L S P I P L P E L N S E I V D R E I H Q K M A D S P E A G T I T
UniRef90_Q029Q0 L E A S G I S V E P I P D L S E I M G R I D R M K D S E A G P K L D A I K K
UniRef90_F2N936 L L E R F N I Q L A P I P M T E V V A E V R A A Q R D E E G A L S A M L A H I R E
UniRef90_X1GCP1 I L Q E L H G I T T I E P L D L S E I F G E I I N R L P D G D P K V K E K I Q V I K D
UniRef90_I0R7U9 L L E A G I T V E T I D L S E I L A G E L A G E K M K D S R V R D V M E S I R L
UniRef90_UPI000367B56B L E N Y G I T V E T I D L S E I L G Q A E K I S T N D K A L K D E C K
UniRef90_A8F6V5 L E Q M N I S V E T I S D L S E I V F K V D E I S D D N D R V T E K I K
UniRef90_U3W6D2 L L E K F N I Q L A P I P M T E L V E A M D E A E S L A E T K E T L S Y I K E
UniRef90_UPI0002554FFF L L E K F N I Q L A P I P M T E L V E A M D E A E S L A E T K E T L S Y I K E
UniRef90_E7GFP3 L L E R F N V K I H P I D L S E I I K E E A M D R K K E D G E D A L H K M V Y L K E
UniRef90_U2B7S7 L L E R F N I Q L S P I P M P E L T A E M K R V K E E G A A K V V E
UniRef90_UPI0004135C74 L E R S G I T V D T L D L S E I V L G R I G R L K D N D A A V E K K I A E I R A
UniRef90_I7LAU2 L L E K F G I Q L S P L P L G E L T T A M K D N K L E K K D P
UniRef90_X1TG84 L E D A G I S V E T I D L S E I T M A V E K L K D S D K E V Q N K L K A L T S
UniRef90_X0WK89 L E R A G I S T E T L D L S E I F G R A D H L D N N D P S V K S K L E E I H D
UniRef90_R2QE0 L L E R Y N I S L S P V P I S E V V Q E I N R S K T E E Y D K V Q T T I D
UniRef90_A4TQ45 L E N G I T V E T L D L S E I V F R V A N L S D N D I R V G E K L A L K A
UniRef90_UPI00047C3047 F E Q S G I S V D T L D L S E I F G R I N R M K D N D D A A Q G K L K A I K G
UniRef90_UPI00036D73DD L E R H G I S V E V A D L S E I I G A C E R L Q K D G D P K V Q E K I A E I K G N
UniRef90_X1A7Y2 I L E F N G I S I E V A D L S E I F G I N H L Q T D D D P K V Q E K I A E I K N
UniRef90_C5EN98 L M R A F G V T L E S I E A R E L I D K A K S F T D E E C A P C L E E A K A
UniRef90_N9X7S0 L I T R M G V T V P I S P A E V S R R A K E V E K K A E D F L S Y
UniRef90_A6VKQ1 L E R L G I T V E P I D L S E I F A R V N N L T D N D L R I E E K L T L L K
UniRef90_UPI0002F56667 L L E K F N I Q L S P I P L G E L Y K E M N H V Q T M E T A K V Q S V I D
UniRef90_E1SKF4 L E K M G I A V E T L D D L S E I F T R T N R L R D D D I R V A E K R E I L E A
UniRef90_UPI0003F9AABC L H K Q F G V E I K K V D L M K A F E S K K L Q E A W E H A I D R A E Q
UniRef90_S9SB18 L Q D A G I T V I T V D L S E M M G A A G R V R D D D P A L L D K L E R I R S
UniRef90_D3AH70 L L R R L G V T V I P V S P A D V S A R A R K I A E S G T T F L Q Y Y G D
UniRef90_V7ELL7 L Q A A G I T V I T V D L S E M M G A A S A I S P D D P A L I A T L E K V K G
UniRef90_UPI0003798872 L A R T F G V R L H K F D L E R A F R E C A R L P E S E Y T A M E R A E R
UniRef90_F1TA71 L L E R F G I E V Y P I T I D I Q N A T I A I E K E
UniRef90_S0FN18 L L E R F G I E V V P I T I P E I K S S M D E I L S V K P V I L K E T I N D I K
UniRef90_F7YVX8 L Y K E L G V L V E P I L L E E L F N F S V D K E E L E N E I Q K
UniRef90_R2PHU3 L L E R F N I S L S P V P L G E L V Q E I K K K E Q Q P D K V Q A V I D Y F E T
UniRef90_R4K076 L L S G T F G T R I V R T E A S I M N K A S T Y S N E E I A K A L D E L K S
UniRef90_W7RGA0 L L E K F G I Q I Y P I T L D E I K Q K T L K V E D E G S A E L D Q A M D
UniRef90_UPI0003B510E3 L E S A G I S V I C T A D L S E I T G L S S R L S D D D K T V R A F E K I N S
UniRef90_F3ZY45 L L E K F G I E I H P I D L S E L N E L D M V V E L A Q N K E V M Q T V G F I K D
UniRef90_UPI0004098A18 L L S K F G V T L E A I E A R E L I N K A K A Y T D E E C A S D L A E A K E
UniRef90_V2XJ68 L L K R F G I T T V P I S P V K I C N R
UniRef90_F6DQQ6 L R Q I I G S K I T R I E M Y K L L H R Q M K A V T D E E I N H V I K E V E
UniRef90_UPI00047E69A1 L L E T F G I Q I H P I T L D E L K K T L K I E K T D S P E L D E A M N Y L K E
UniRef90_W0L9T5 L K R H F G V E V A R Q V P V L E F I D E V K A L P D S V A D A P
UniRef90_C0D7N6 L I N R F G V T T I P V Y A V A E R A K K L I A D N D A F A Y Y D D L T A
UniRef90_F3ZZ52 L A G L L G V N V R R Y N L N G L F D E A E Q V I T D A Q A R E V I D R L S N
UniRef90_UPI0004709A0B L Q K Y G I T I V S P I D M S E I I A A A E K I S D K D D P A V L E K A E S L Q L
UniRef90_J1H1H5 L L H T F G V T L E I T R E L M E K A I V S Y T E E E C A D C R K A E Q
UniRef90_X0Z619 L L E F H G I S V E P I D L S E I V F G E I S R L P E G D P K V K E K M Q F I K D
UniRef90_H3NL86 L L E K F N I S L S P V P L S E I L M Q E I K K E A E S D P K V K Q A I D Y F N E
UniRef90_F5YEA7 L Q R H G I N I S E S F D L S E I L F R L M K E A D S G R I E A K K
UniRef90_UPI00046EC7BE L V I E K F G I E V F P V D M T E E L E K T D S P L V K E A R A R F E N
UniRef90_F7KKX0 L L S R F G M V C V P I S P A V V I G R M K T I L V E E N S M V E Q S Y C
UniRef90_UPI0004078EF3 L L E K F N I K V H P I V T M V D V Q K E M N R L V E E N G Q E L Q D V V N
UniRef90_R6E8X0 L L E K F N I Q L S P I P M T E L I E E I K A V K E E K T K L N E M L D V I H E
UniRef90_W4Q9L6 L L E R F G I Q V H P I T L D D I I R K T L E V E K S D S K E L T D A I D Y L K K
UniRef90_F0RSH0 L Y G Q T G A L V D H Y E L G D V Y S Y A V D S D E A V K A R E K
UniRef90_E4Q3G1 L Q R Y G I N V I T V D L S E I V J A Y A N S L D A N S S V K E N I E R I K N
UniRef90_R7DPD5 L E K Y G I T V E S F D L S E I L F H K V D E L K D D D V K V V A K M A R L K E
UniRef90_R5CQE1 L M K D F G A Q T V I A P L V V Q M T V E K I L A E K D E F V E R T L K D L K E
UniRef90_D8ID98 S F K S T G A M L E Y Y Q I A D M Y N Q E V S D E E A K K Y L D E I K G

UniRef90_L7VJ04 Y V N V P E 250 N A P A E K I E K L A R F 260 K M A L 270 280
UniRef90_F8FHW8 K L D W S E V S E E D V R R I A A L K V A M K Q Y
UniRef90_D8DVY0 Y A K V P E A Y E D K L R T Q A K F G V A V E Q W V K D
UniRef90_F0Z1W2 T M E E Q A E N V A A L A A A M
UniRef90_G0GEK2 Y G K V A P S I P R E K V I L Q A K L S L A V E D F M E E
UniRef90_W0FLW5 N M T C R L I E D E Y L T
UniRef90_X0Y6L1
UniRef90_UPI00047B46CF Y L P V H E V P E V A L I K M S K L G V V I D T W M K T
UniRef90_E8V694 Y L P T N N T P E A A L L K M S K L G V V I D G W M K S
UniRef90_UPI00037464DC Y V S T N N I P E A A L L K M S K L G A V I
UniRef90_B4D5G7 R G L Q F R F G P N A E T D L T E A Q
UniRef90_N9XF07 Y C R T G M C V K I K D G E L E N V A A L K V A M K
UniRef90_A9CVE3 Y G T I P T Y I K S E Q V L T Q A K W T L A V
UniRef90_C0C1I5 H M D V C I P K E S V R R V A S L K E A M K Y F A R V
UniRef90_C1F394 Y V P T Q N I P S E A L L K M T K L G V A I E K F M A
UniRef90_H2IFW3 H P D C K L N N V P D K Q V E D T I R L A L A L M V V
UniRef90_R9LSR2 T M K I N V S D E A V R Q T A A L K C A M K R L M
UniRef90_L0EB02 H L D W S E V S E D D V R R I A A L K V A M R
UniRef90_UPI00037D34B6 H M E I K I R D E E L E N V A A L K V A M Q N L I
UniRef90_D5AN96 Y G K I P A H I Q P G Q I L K Q A
UniRef90_C4LFS1 N A D T G A I P A D K L Q L M A K L F V V I S Q W I I E
UniRef90_Q1ASX4 G L P F A Q G V G E G D L P T S S R Y Y L A M R R L
UniRef90_UPI000370EA9F Y C D V S A V P E D K L F T M A R F A L V I E R W M A E
UniRef90_G7UDD4 N A H V S T M A S D K I T L M A K L F V V I A E W V I A
UniRef90_S7V9E6 R G L T F N W G N
UniRef90_A7B420 T M V I
UniRef90_U2THR4 H F D R D C S S E Q A Q T V A G M A V A I R R L L
UniRef90_UPI00047CAC4B Y V P T S G I P E A A L L K M A K L G A V I E G W M
UniRef90_S2U3R9 V A D I Q I S D K D L E M V A A L K V A L K R K M I
UniRef90_UPI000463BF6 N A D A S A I P A E K V V T M A K L F V V I S E W V I A
UniRef90_H5V255 N A D A S G I P A D K L V T M A K L F V V I S E W V T A
UniRef90_M4Z527 Y I D I K G V P H A A I L R Q A K L A A V T E E W M
UniRef90_W6T4N5 H L K D I A D I D I S E K D L N M V A A L K V A L K H K M
UniRef90_Q029Q0 Y V S T D Q V P A E A L M K M A K L G
UniRef90_F2N936 T M V I E I P E D K V P V V A A L A I A M R
UniRef90_X1GCP1 Y T P T T T F P E D G I L K L A K L S V V V E N W V
UniRef90_I0R7U9 Y G N M A F E V S E E K L Q K Q A G F F
UniRef90_UPI000367B56B K I S E Y I D V K S V P A S A T E R M A R F A L V I T
UniRef90_A8F6V5 T M K N I Y H T Q I V P D S A L V S I A K L S V I I E E W I S E
UniRef90_U3W6D2 N L E I N V I E N E S V V R V
UniRef90_UPI0002554FFF K M E L K C D E S V A A K T A A L K I A M K N L
UniRef90_E7GFP3 N T V V I G I N D Q A V K D V S A L K C A I K N L
UniRef90_U2B7S7 Y C N S N M C V K I K P E E L A N V A A L K V A M K N L
UniRef90_UPI0004135C74 Y V P T G H T P E A A L I K M A
UniRef90_I7LAU2 R L E E T K D R K W A D V Q I E E K D F D K V A A L K L A L E D K M
UniRef90_X1TG84 Y C P T G K V P N S S L L K M A K L A V V L N R W I K E
UniRef90_X0WK89 Y V P T N G V P A E S L V K M A K L G V L I D
UniRef90_R2QE0 Y F K Q H T E V Q T E E E L E M V A A L K V A L Q N L
UniRef90_A4TQ45 N G D T S T P Q D K L H K M A K L F V V I S E W I I A
UniRef90_UPI00047C3047 Y V S T Q G I P D E A L L K M A
UniRef90_UPI00036D73DD Y L D T S G V P E Q A L V K I A K L A V V L
UniRef90_X1A7Y2 Y T S T T I P I E S L I K L A K L A V V I E N W V V E
UniRef90_C5EN98 M M V G L E G T P E K N V K D F A R L Y K A Y K D Y V A G
UniRef90_N9X7S0 Y N D L T A R M N T D A M R E E L V E I A A T L A L S E L M R E
UniRef90_A6VKQ1 N N A D A S R I S E D K L L M M S K L F V V I S E W I S
UniRef90_UPI0002F56667 F C H T H T H V E I S E Q A L K K I A T L K V A L
UniRef90_E1SKF4 N A D A R G I P G D K M V T M A K L F V V I S E W I S D
UniRef90_UPI0003F9AABC Q V I G L N R N E E T V Q R F A Q F T T H V
UniRef90_S9SBI8 Y G R I P P H V R P E Q V A S A M N A E E V K L S A A M K P A L L E V M K E
UniRef90_D3AH70 L T S R M D A S A M N A E E V K L S A A M K P A L L E V M K E
UniRef90_UPI0003798872 Y G R I P A H I Q P A Q I E K Q A R W T L A V
UniRef90_F1TA71 Q V I A G L N R S D E T V R K F A Q F Y T Y V R K Q I
UniRef90_S0FN18 N G S E L R N V I E F I Q S K L D C S E V D E I A I K K V A
UniRef90_F7YVX8 I K L D R I D I N D E A L Q K T A A L K I R Q W A D A E G L S A I A M L C
UniRef90_R2PHU3 Y T N L Y K L V A S L D K E K L E K V A R L K I M L
UniRef90_R4K076 N T E V Q I S A K D L E M V A A L K V A L Q N L
UniRef90_W7RGA0 R T E G Y D K M P E E N L Q K Y A R L R S Y E D F I
UniRef90_UPI0003B510E3 Y M K E T L D W S M V E E K H V R R I A S L K V A M K R Y
UniRef90_F3ZY45 Y I P H P G V P D A S L T R M A K
UniRef90_UPI0004098A18 N M E V C I P E E D A I R V A A L K V A M S R L
UniRef90_V2XJ68 K V V G L E K M P E N N I K D F A R L Y K A Y K A Y V E D
UniRef90_F6DQ06 K G K E Y I K Y E E E F V R K F P D G E N F Q Q I C A T K L A T Q E L M E E
UniRef90_UPI00047E69A1 H V V E G L E N L P Q E Q L R A S A A F Y F V V K R F A E E
UniRef90_W0L9T5 K L D W S S V T E E D V R R I A S L K V A M K Q L
UniRef90_C0D7N6 Y A R R A K D F P N L A E M D Q S A T R K T L K V Y S A L R
UniRef90_F3ZZ52 R M D S S A M T E E N V K K A A A T K I A I Q G I M E E
UniRef90_UPI0004709A0B D V E G I P I E T S Q T I K S A K M Y L T L
UniRef90_J1H1H5 Y G A C G I A S K G K V A H Q A R F G L A V E N W I N E
UniRef90_X0Z619 A M T G L E N T P A K N R D A F V R L Y K A Y D D Y V K A
UniRef90_H3NL86 Y T P T T T F P E E G V L K L A K L A V V V E N W V
UniRef90_F5YEA7 N T K V E I E N S D L V K I A K L K V A L E N L C I
UniRef90_UPI00046EC7BE K L L E T T Q F N Y E A A K L D E I E N S D L V K I A K L K V A L E N L C I
UniRef90_F7KKX0 S L S L G G I S E E Q L L N S V R L Y V A V K E L C R I
UniRef90_UPI0004078EF3 N I S Q R M D C T Q T K E E D L R K A A A V K M A V Q Q L M E E
UniRef90_R6E8X0 Y M K E K M I I N E D G V R K T A A L K I A M
UniRef90_W4Q9L6 T M E V Q I K E N E V E N V A A L A A M K N L V
UniRef90_F0RSH0 T L D W S A V T E K D V R R I A S L K V A M K R Y
UniRef90_E4Q3G1 H I R A T F D V S T L S V F Q I E K V S S L A A K L
UniRef90_R7DPD5 Y G Y I E N E E K E K V I E K S A K L L T A I E Y F T K T
UniRef90_R5CQE1 Y S N F S L V P T D R M I T L A K V S C A I D Q Y T
UniRef90_D8ID98 R M D D E D V E R L V A F K M A L L E V L A Q
F F N C D D V N E E Q I K R V A K L C V S I K K F V D S

UniRef90_L7VJ04
UniRef90_F8FWH8
UniRef90_D8DVY0
UniRef90_F0Z1W2
UniRef90_G0GEK2
UniRef90_W0FLW5
UniRef90_X0Y6L1
UniRef90_UPI00047B46CF
UniRef90_E8V694
UniRef90_UPI00037464DC
UniRef90_B4D5G7
UniRef90_N9XF07
UniRef90_A9CVE3
UniRef90_C0C1I5
UniRef90_C1F394
UniRef90_H2IFW3
UniRef90_R9LSR2
UniRef90_L0EB02
UniRef90_UPI00037D34B6
UniRef90_D5AN96
UniRef90_C4LFS1
UniRef90_Q1ASX4
UniRef90_UPI000370EA9F
UniRef90_G7UDD4
UniRef90_S7V9E6
UniRef90_A7B420
UniRef90_U2THR4
UniRef90_UPI00047CAC4B
UniRef90_S2U3R9
UniRef90_UPI000463BF6E
UniRef90_H5V255
UniRef90_M4Z527
UniRef90_W6T4N5
UniRef90_Q029Q0
UniRef90_F2N936
UniRef90_X1GCP1
UniRef90_I0R7U9
UniRef90_UPI000367B56B
UniRef90_A8F6V5
UniRef90_U3W6D2
UniRef90_UPI0002554FFF
UniRef90_E7GFP3
UniRef90_U2B7S7
UniRef90_UPI0004135C74
UniRef90_I7LAU2
UniRef90_X1TG84
UniRef90_X0WK89
UniRef90_R2QE0V
UniRef90_A4TQ45
UniRef90_UPI00047C3047
UniRef90_UPI00036D73DD
UniRef90_X1A7Y2
UniRef90_C5EN98
UniRef90_N9X7S0
UniRef90_A6VKQ1
UniRef90_UPI0002F56667
UniRef90_E1SKF4
UniRef90_UPI0003F9AABC
UniRef90_S9SBI8
UniRef90_D3AH70
UniRef90_V7ELL7
UniRef90_UPI0003798872
UniRef90_F1TA71
UniRef90_S0FN18
UniRef90_F7YVX8
UniRef90_R2PHU3
UniRef90_R4K076
UniRef90_W7RGA0
UniRef90_UPI0003B510E3
UniRef90_F3ZY45
UniRef90_UPI0004098A18
UniRef90_V2XJ68
UniRef90_F6DQ06
UniRef90_UPI00047E69A1
UniRef90_W0L9T5
UniRef90_C0D7N6
UniRef90_F3ZZ52
UniRef90_UPI0004709A0B
UniRef90_J1H1H5
UniRef90_X0Z619
UniRef90_H3NL86
UniRef90_F5YEA7
UniRef90_UPI00046EC7BE
UniRef90_F7KKX0
UniRef90_UPI0004078EF3
UniRef90_R6E8X0
UniRef90_W4Q9L6
UniRef90_F0RSH0
UniRef90_E4Q3G1
UniRef90_R7DPD5
UniRef90_R5CQE1
UniRef90_D8ID98

290
E E A V M A N A D C A A V Q C W N V L Q N Q Y C A A C L A M
A V I S T G S S A I A I Q C C W S S L Q D A M G I M C C L A N
N K K R L V K K Y G C N A A A I Q C C W N A L T E L G V M P C C A T M
N E L D A S A I Q C C W E S I Q L N Y C A T C C L T M
N V A E L K A A M K S L A E K Y G C N A I A I Q C C W N A L Q D I H I M P C C A A N

300
S L D V T S V Q C W T S M E E F F V V P C C T V M
L T I S S V Q C C W T S M E E F F I V P C C T I M
Y C T I S A I Q C C W T S M E E Y F V V P C C T V M

310
Y G C N A V A I Q C C W N A L Q S E I G I M C C A A N
C N D A S A I Q C C W R S L Q Q D N F C A T C C L T M
C N A V A I Q C C W D A L Q Q L H V M P C C C A N
D Q H C T V S A I Q C C W T S L E E N F V V P C C T I M
V S F K N W P E L F D H L V A G D G A M
D R F G C K A A A I Q C C W N A L Q G H F P C C V A N
G S T A I A I Q C C W S A L Q D A M G I M C C L A N
K K Y D C N A V A L Q C C W N E L Q S E L G I M C C A A N
N G C D A S A I Q C C W R S L Q Q D N F C A T C C V T M
N T T A I Q C C W T S L Q K T L G I N V C S I M
G L D A L A L R C W P E L P D V L G Q W A Y L A
A T A I Q C C W T S M E N L G I T P C C A V M
D A T A I Q C C W T S L Q E T L I N A C S V M

320
E K Y G C Q A A A I Q C C W N A L T E I G I M P C C A A N
R S Y H C T A G C I Q C C W N E L Q E L G V M P C C A A N
K E T Y C T I S A I Q C C W T S L E E Y F V V P C C T I M
Q Y G C N A G A I Q C C W T A L Q D I L P Y A S E
D T T A I Q C C W T S L Q E N L I N V C S I M
D T T A I Q C C W T S L Q E N L I N V C S I M
R E A D V S I S A I Q C C W T S L E E N Y
K E Y G C N A G A I Q C C W T A L Q D I L P Y A S E
S A I Q C C W T S L E E Y F V V P C C T V M
Y G C D A G A I Q C C W N A L Q Q E L G I M C C A A N
L E N E L D G F A F Q C C W P S I Q D N F Y P C A V M S
N D C Q A S A I Q C C W D S L E K N Y I A S C L A M
E R W L K E K E L N A T A I Q C C W T A L E T Y F V V P C C T C M
L D A T A I Q C C W T L K K L H I T P C C A V M
A A K A L A L N L T E K Y G C K A V T I Q C C W N A L Q S E I G I M C C A A N
A A K Y N C G A V A I Q C C W N A L Q S E I G I M C C A A N
A D R Y H C K A A A I Q C C W N A M Q G V L G I P C C A A N
A G K Y C N A I A I Q C C W N A L Q G E I G I M C C A A N
K L G A D N W V E T N R L T I T S V Q C C W T S L E E F F I V P C C T V M
H Q Y G C N A G V I Q C C W T E L Q R E I G I L P Y A S E
L D A C A L R C W P E L Q N I L F P C A V M S
M R E Q N L A A S T I Q C C W T A M Q E Y Y V P C C A L M S
C E R Y G C N S G V I Q C C W T A L Q D E I G I L P Y A S L
D T T A M Q C W T S L Q Q N L G I N V C S I M
K L G A V I E M K Q T H C T I S A V Q C C W T S M E E Y F V P C C T V M S
D E W I Q Q T G V R L V A I Q C C W T S I E E N F G I M C C T A M
L D G F A F Q C C W P S I Q D N F G I V P C
G A L S S R C W P D F F T P V C C S V L
C S V G A F E C W P S L T G V C P C V A L
D T T A I Q C C W T S L Q N T L I N V C S I M
Y Q C S A G V I Q C C W T D F Q D E L G I T P Y A E
D T T A I Q C C W T S L Q E N L I N V C S I M
L S G L A I R C W P D F F N E L G A A C
N G C D A S A I Q C C W R S L Q D N F C A T C V T M
N C T A G A F E C W P S L T G V C P C
C D A S A I Q C C W R S L Q D N F C A T C L T M
E A E R V R A I A V R C C W P E F T E L G A A A C S T L
D H G C S A V A I Q C C W N A M Q D A M G I M C C L A N
A F G I T P C C F T M
A L A I R C W P E F A N Y Y G I S P C
C E S Y G C N A G V I Q C C W T A L Q D E I G I L P Y A S L
E E T G A G A V A S R C W P D F T G F G A P V C A V L
A E E T G S S A I A I Q C C W S T L Q D I G I M C C L A N
S K K F K C K A I A I Q C C W D A L Q Q I H I M P C C A A N
G A I S S R C W P D F T E F G T P V C M V L C
N C S V A A F E C W P T L M G L C P C
V D A V T S R C W P D T F D F L N A P C G A L
A E D T R S T A I A I Q C C W S T L Q D I G I M C C L A N
E K A Q R E G Y T G I A V R C W P D F T D Y G C A A C G A L
N C S V G A F E C W S A F P A V L G V C P C
H N L L G V A V E C W P G F F N D Y G A A C S A L
N I D I S A L Q C C W S I K N F G C A A C C V T M
G I G A L S S R C W P D F F T A V C S V L
L K N E L D G F A F Q C C W P S I Q D N I T
K Y G C N S G V I Q C C W T A L Q D I L P Y A S L
Y Q L D A V A I R C W D E L E S F G V A P C L L L
G C N S V A I H C W G P L Q K A V K S A T C T V N C
N C S V G A F E C W P A L A D I C P C
K N F A N K Y G C K A V A I Q C C W N S M Q D A L G I P C V A N
E K Y G C Q A A A I Q C C W N A L T E I G I M P C C A A N
A A D T E S T A I A I Q C C W S A L Q D L I G I M C C L A N
D A F Y Q A N L S A L A I R C W P E F A D F G V S P C A A M
N C K A G A I Q C C W E S I Q N N Y G T A C L P M
E E Y H L D A L T L R C W N E M E T Y R V P C A V L L
N C N V A A I E C W P T C A M M K L P A C C A V I
H I D A L A V R C W P E Y A Q S Y I A P C A A M

UniRef90_L7VJ04	S M L G N	330	K G I P H A C E M D V M G A L T M Y A L L S L A S G	340	E Q I P V T C E T D I H G A I T S V L	350	M G V P C A C C E T D I A G A V S M L A L H L A S G
UniRef90_F8FWH8	A I L T D		E G L P V V C E T D I H G A I T A L L		G E R L M P S A C C E V D V T G A I S M Y A L A L A S G		E G I P V V C E T D I H G A V S Q L I
UniRef90_D8DVY0	A M L G D		I P S A C C E V D T M G T L S M H A L S L A S				L P S A C C E V D T M G T L S M Y A L T L A S E T
UniRef90_F0Z1W2	A I L N E		F A S A C C E V D V C G V M G M H A L A L A S Q T				
UniRef90_G0GEK2	S M M		E G L P V V C E T D I H G A I T				
UniRef90_W0FLW5	S L L N E		E L M P S A C C E V D V M G A V S M Y A L T L A S G				
UniRef90_X0Y6L1			E G I P V V C E T D I H G A I T				
UniRef90_UPI00047B46CF	S M M S E K L		E L L P S A C C E V D V I G A V S M Y A L A L A S G				
UniRef90_E8V694	S M M S E K L		G E L M P S A C C E V D V M G A L S M Y A L T				
UniRef90_UPI00037464DC	S M M S E N L		R L L E G L P V A M E G D V D G A V C G R V G A L V				
UniRef90_B4D5G7			G E K L M P S A C C E V D V A G A L S M Y L R L A S N				
UniRef90_N9XF07	S L L N E		G Q L L P S A C C E V D V M G A L S M Y A L A				
UniRef90_A9CVE3	S M M G E		Q G I P V V C E T D I H G A V T A L L				
UniRef90_C0C1I5	A L L T D		E G T P I T C E T D V H G A I T S L M				
UniRef90_C1F394	S M M S D S L		F S S A C C E V D V V G V L S M Y G L A L A S E T				
UniRef90_H2IFW3	A L M N D		E G M P V I T C E T D I H G V I S E L L				
UniRef90_R9LSR2	S L L N E		G Q L M P S A C C E V D V M G A L S M Y A L A				
UniRef90_L0EB02	A I L T D		G Q L M P S A C C E V D V M G A L S M Y A L A				
UniRef90_UPI00037D34B6	A L L N D		S K L M S A C C E V D V C G L I G M H M L A L A S G T				
UniRef90_D5AN96	S M M G E		E G M P S A C C E V D I V G V I G M H A L Q L A S E T				
UniRef90_C4LFS1	S V M S		A G I P I V C E T D I H G A I T A L L				
UniRef90_Q1ASX4	M V		M G M P S A C C E M D I M G A V S M A A L N L A S G				
UniRef90_UPI000370EA9F	S M M		I P S A C C E V D V C G A V S M Y S L S L A S				
UniRef90_G7UDD4	S V M S		K P S A C C E V D V M G A L S M Y I L Q S A S G				
UniRef90_S7V9E6			E G I P V V C E T D I H G A I T S V I				
UniRef90_A7B420	A I L N E		Q K L L P S A C C E V D T L G S L S M Y A L A L A S E T				
UniRef90_U2THR4	S L L N E		E G L P V T C E T D I N G A I S E L L				
UniRef90_UPI00047CAC4B	S M M S E N L		L P C A C C E T D V M G A I A M Y V L Q L A S				
UniRef90_S2U3R9	S L L Q D		L P S A C C E T D A A G L I G M Y I L M L A S G				
UniRef90_UPI000463BFE6	S V M S		Q E E G L M P F V C C E T D V H G A I S E L L				
UniRef90_H5V255	S V M S		G Q L M P S A C C E V D V M G A L S M Y A L A				
UniRef90_M4Z527	G V V P T M M S M M S		L P S A C C E V D V P G V L S M Y M L A L G S G T				
UniRef90_W6T4N5	S L L Q D		I P A A C C E V D L T G A L G M Y A L Q L A S G				
UniRef90_Q029Q0	S M M S E N L		G I A A S C E S D V Y G A L S M Y I G T Q L T G				
UniRef90_F2N936	A I L N E		E G Y P L A C C E A D V N G A I T L A L L				
UniRef90_X1GCP1	M F	S E G L	G Q L M P S A C C E V D V M G A L S M Y A L A				
UniRef90_I0R7U9	S M M G E		E G F P V L C E T D I H G A I T T L M				
UniRef90_UPI000367B56B	S M L S E R L		G Q L M P S A C C E V D V M G A L S M Y A L A				
UniRef90_A8F6V5	S M M S E K L		E L M P S A C C E V D				
UniRef90_U3W6D2	A I L T D		E G Y P L A C C E N D I N G A V T L A I L				
UniRef90_UPI0002554FFF	A L L T D		E L M P S A C C E V D				
UniRef90_E7GFP3	A L L T D		V M S S C E S D I H G A L S M V I L H E L S G				
UniRef90_U2B7S7	S L L N E		E G I P V I C E T D I H G A V T S I M				
UniRef90_UPI0004135C74	S M M S		A E G R I M A C C E G D V L G A L T M V I F K				
UniRef90_I7LAU2	A L L Q T		Q E E G L I A S C E T D I G G V I S M F I G A G F S G				
UniRef90_X1TG84	M M S N S L L		E Q I P V I C E T D I H G A I T S I M				
UniRef90_X0WK89	I M S N N L L L		E L V P S A C C E T D I T G V L S M Y A L Q L				
UniRef90_R2QEVO	S L L		E G M P V A C C E T D I H G A I T				
UniRef90_A4TQ45	S V M S		A V N I P A S C C E A D V Y G A L S M Y I G T A F T G				
UniRef90_UPI00047C3047	M M S N D L		A G I P T S C E A D F N G V L T Q V I L N E L T H S				
UniRef90_UPI00036D73DD	S M L S E R L		E Q I P V I C E T D I H G A I T S I M				
UniRef90_X1A7Y2	A V L S		D K V P C G C E A D M F G V L S S L M V Q W A S G				
UniRef90_C5EN98	A M L N A S		G Y P L A C C E T D V N G A I T L A I L				
UniRef90_N9X7S0	G E M A D		G V M A C C E A D V N G A I S M I I E S R L S G				
UniRef90_A6VKQ1	S V M S		I A S A C C E S D V Y G A L S M Y I G T Q L T G				
UniRef90_UPI0002F56667	A I L Q D		Q E E G I P F V C E T D V H G V I S E L L				
UniRef90_E1SKF4	S V M S		D G I P V A C C E T D I H G A I T S I L L				
UniRef90_UPI0003F9AABC	S T L S Q F T E D G		E G L P L A C C E T D V N G A V T M A I L				
UniRef90_S9SBI8	S M M G E A L		E G I P V A C C E T D I H G A I T S V I				
UniRef90_D3AH70	V V L G E M A D		E G I P V V C E T D I H G A V T A L L				
UniRef90_V7ELL7	S M M G E		E L M P S A C C E V D				
UniRef90_UPI0003798872	S Q F T E D G		V M S S C E S D I H G A L S M V I L H E L S G				
UniRef90_F1TA71	S L L T D		E G I P V A C C E T D I H G A I T				
UniRef90_S0FN18	S D L T D		D G L P V I C E T D I H G A V T S I M				
UniRef90_F7YVX8	A A M S S N M		A E G R I M A C C E G D V L G A L T M V I F K				
UniRef90_R2PHU3	S L L		Q E E G L I A S C E T D I G G V I S M F I G A G F S G				
UniRef90_R4K076	S M L N D N		E Q I P V I C E T D I H G A I T S I M				
UniRef90_W7RGA0	A I L T D		E L V P S A C C E T D I T G V L S M Y A L Q L				
UniRef90_UPI0003B510E3	S M M S E		E G M P V A C C E T D I H G A I T				
UniRef90_F3ZY45	S L L T D		A V N I P A S C C E A D V Y G A L S M Y I G T A F T G				
UniRef90_UPI0004098A18	S L L N		A G I P T S C E A D F N G V L T Q V I L N E L T H S				
UniRef90_V2XJ68	V V L G E M A D N G		E Q I P V I C E T D I H G A I T S I M				
UniRef90_UPI00047E69A1	G L L N D		D K V P C G C E A D M F G V L S S L M V Q W A S G				
UniRef90_W0L9T5	A I L T D		G Y P L A C C E T D V N G A I T L A I L				
UniRef90_F6DQ06	A L M N E		G V M A C C E A D V N G A I S M I I E S R L S G				
UniRef90_UPI0004709A0B	V V L G E M A D A		I A S A C C E S D V Y G A L S M Y I G T Q L T G				
UniRef90_F3ZZ52	S E L N E L						
UniRef90_UPI0004709A0B	S M M						
UniRef90_J1H1H5	A M L N D N L						
UniRef90_X0Z6I9							
UniRef90_H3NL86	S L L						
UniRef90_F5YEA7	G E L N E R						
UniRef90_UPI00046EC7BE	S L L T E						
UniRef90_F7KKX0	V L G E M A D						
UniRef90_UPI0004078EF3	S L L S D						
UniRef90_R6E8X0	A I L N E						
UniRef90_W4Q9L6	A I L T D						
UniRef90_F0RSH0	S L L Q S						
UniRef90_E4Q3G1	S L L T E S						
UniRef90_R7DPD5	S E L N D R						
UniRef90_R5CQE1	G E L T D						
UniRef90_D8ID98	S I						

UniRef90_L7VJ04
UniRef90_F8FW8
UniRef90_D8DVY0
UniRef90_F0Z1W2
UniRef90_G0GEK2
UniRef90_W0FLW5
UniRef90_X0Y6L1
UniRef90_UPI00047B46CF
UniRef90_E8V694
UniRef90_UPI00037464DC
UniRef90_B4D5G7
UniRef90_N9XF07
UniRef90_A9CVE3
UniRef90_C0C1I5
UniRef90_C1F394
UniRef90_H2IFW3
UniRef90_R9LSR2
UniRef90_L0EB02
UniRef90_UPI00037D34B6
UniRef90_D5AN96
UniRef90_C4LFS1
UniRef90_Q1ASX4
UniRef90_UPI000370EA9F
UniRef90_G7UDD4
UniRef90_S7V9E6
UniRef90_A7B420
UniRef90_U2THR4
UniRef90_UPI00047CAC4B
UniRef90_S2U3R9
UniRef90_UPI000463BFE6
UniRef90_H5V255
UniRef90_M4Z527
UniRef90_W6T4N5
UniRef90_Q029Q0
UniRef90_F2N936
UniRef90_X1GCP1
UniRef90_I0R7U9
UniRef90_UPI000367B56B
UniRef90_A8F6V5
UniRef90_U3W6D2
UniRef90_UPI0002554FFF
UniRef90_E7GFP3
UniRef90_U2B7S7
UniRef90_UPI0004135C74
UniRef90_I7LAU2
UniRef90_X1TG84
UniRef90_X0WK89
UniRef90_R2QEV0
UniRef90_A4TQ45
UniRef90_UPI00047C3047
UniRef90_UPI00036D73DD
UniRef90_X1A7Y2
UniRef90_C5EN98
UniRef90_N9X7S0
UniRef90_A6VKQ1
UniRef90_UPI0002F56667
UniRef90_E1SKF4
UniRef90_UPI0003F9AABC
UniRef90_S9SBI8
UniRef90_D3AH70
UniRef90_V7ELL7
UniRef90_UPI0003798872
UniRef90_F1TA71
UniRef90_S0FN18
UniRef90_F7YVX8
UniRef90_R2PHU3
UniRef90_R4K076
UniRef90_W7RGA0
UniRef90_UPI0003B510E3
UniRef90_F3ZY45
UniRef90_UPI0004098A18
UniRef90_V2XJ68
UniRef90_F6DQQ6
UniRef90_UPI00047E69A1
UniRef90_W0L9T5
UniRef90_C0D7N6
UniRef90_F3ZZ52
UniRef90_UPI0004709A0B
UniRef90_J1H1H5
UniRef90_X0Z6I9
UniRef90_H3NL86
UniRef90_F5YEA7
UniRef90_UPI00046EC7BE
UniRef90_F7KKX0
UniRef90_UPI0004078EF3
UniRef90_R6E8X0
UniRef90_W4Q9L6
UniRef90_F0RSH0
UniRef90_E4Q3G1
UniRef90_R7DPD5
UniRef90_R5CQE1
UniRef90_D8ID98

UniRef90_R7LDI6
UniRef90_R7PGH5
UniRef90_X0W412
UniRef90_R6M1K0
UniRef90_V7YVA0
UniRef90_A5ZM40
UniRef90_X1RGM0
UniRef90_F7KFC6
UniRef90_UPI000429B4BA
UniRef90_R6R9G8
UniRef90_X0VAY7
UniRef90_X0WC13
UniRef90_C4ZGB5
UniRef90_A2BML0
UniRef90_X0WZL4
UniRef90_G5HPY7
UniRef90_G8PLG3
UniRef90_R5QZM3
UniRef90_UPI000419598F
UniRef90_G9Y8G3
UniRef90_D3G282
UniRef90_M5TCF5
UniRef90_R5EFZ7
UniRef90_B8D566
UniRef90_R5IUB8
UniRef90_A7VPPY7
UniRef90_E9SLX9
UniRef90_C4V1L4
UniRef90_X0Y3S6
UniRef90_W3ANA4
UniRef90_I0I8B2
UniRef90_UPI00040D0349
UniRef90_U2C8F5
UniRef90_UPI000471D234
UniRef90_G5HQ90
UniRef90_V2XZ40
UniRef90_H2JHZ7
UniRef90_R5EWN8
UniRef90_D3AH64
UniRef90_UPI0004635D11
UniRef90_UPI0004026D1F
UniRef90_UPI00016C04A6
UniRef90_R6QGJ0
UniRef90_X1FM43
UniRef90_UPI00046E8342
UniRef90_UPI00034A1A66
UniRef90_R7NUD0
UniRef90_R5RVF2
UniRef90_R6TYR1
UniRef90_C4SNF3
UniRef90_D5EMH8
UniRef90_UPI00047178F6
UniRef90_UPI0003640ED1
UniRef90_R5TUQ2
UniRef90_B9K9U2
UniRef90_X0TX25
UniRef90_B9Y505
UniRef90_R6C127
UniRef90_U2TB19
UniRef90_M5T160
UniRef90_UPI0003F7A1AF
UniRef90_R7P1D3
UniRef90_E0MRC2
UniRef90_E0SRG6
UniRef90_X0W4V4
UniRef90_R5FJZ3
UniRef90_M5U5Y0
UniRef90_N9X7S4
UniRef90_G5HH13
UniRef90_X1I8K2
UniRef90_X1UWB4
UniRef90_UPI0001E89B8F
UniRef90_X1HL77
UniRef90_D4KF99
UniRef90_L0A7B5
UniRef90_UPI000365B477
UniRef90_W0J0N3
UniRef90_D7AYL1
UniRef90_R7EP50
UniRef90_W0FSC6
UniRef90_F8EZH5
UniRef90_UPI0003B4C9FE
UniRef90_M9WC15
UniRef90_V4J7Y9
UniRef90_H9UCS5
UniRef90_R6ENU3
UniRef90_R2XKF3
UniRef90_S4MVL5
UniRef90_K2LLH5
UniRef90_J9H8L0
UniRef90_R5MM45
UniRef90_A9D841

1

10

20

30

40

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

UniRef90_R7LDI6
UniRef90_R7PGH5
UniRef90_X0W412
UniRef90_R6M1K0
UniRef90_V7YVA0
UniRef90_A5ZM40
UniRef90_X1RQ00
UniRef90_F7KFC6
UniRef90_UPI000429B4BA
UniRef90_R6R9G8
UniRef90_X0VAY7
UniRef90_X0WC13
UniRef90_C4ZGB5
UniRef90_A2BML0
UniRef90_X0WZL4
UniRef90_G5HPY7
UniRef90_G8PLG3
UniRef90_R5QZM3
UniRef90_UPI000419598F
UniRef90_G9Y8G3
UniRef90_D3G282
UniRef90_M5TCF5
UniRef90_R5EFZ7
UniRef90_B8D566
UniRef90_R5IUB8
UniRef90_A7VPPY7
UniRef90_E9SLX9
UniRef90_C4V1L4
UniRef90_X0Y3S6
UniRef90_W3ANA4
UniRef90_I018B2
UniRef90_UPI00040D0349
UniRef90_U2C8F5
UniRef90_UPI000471D234
UniRef90_G5HQ90
UniRef90_V2XZ40
UniRef90_H2JHZ7
UniRef90_R5EWN8
UniRef90_D3AH64
UniRef90_UPI0004635D11
UniRef90_UPI0004026D1F
UniRef90_UPI00016C04A6
UniRef90_R6QGJ0
UniRef90_X1FM43
UniRef90_UPI00046E8342
UniRef90_UPI00034A1A66
UniRef90_R7NUD0
UniRef90_R5RVF2
UniRef90_R6TYR1
UniRef90_C4SNF3
UniRef90_D5EMH8
UniRef90_UPI00047178F6
UniRef90_UPI0003640ED1
UniRef90_R5TUQ2
UniRef90_B9K9U2
UniRef90_X0TX25
UniRef90_B9Y505
UniRef90_R6C127
UniRef90_U2TB19
UniRef90_M5T160
UniRef90_UPI0003F7A1AF
UniRef90_R7P1D3
UniRef90_E0MRC2
UniRef90_E0SRG6
UniRef90_X0W4V4
UniRef90_R5FJZ3
UniRef90_M5U5Y0
UniRef90_N9X7S4
UniRef90_G5HH13
UniRef90_X118K2
UniRef90_X1UWB4
UniRef90_UPI0001E89B8F
UniRef90_X1HL77
UniRef90_D4KF99
UniRef90_L0A7B5
UniRef90_UPI000365B477
UniRef90_W0J0N3
UniRef90_D7AYL1
UniRef90_R7EP50
UniRef90_W0FSC6
UniRef90_F8EZH5
UniRef90_UPI0003B4C9FE
UniRef90_M9WC15
UniRef90_V4J7Y9
UniRef90_H9UCS5
UniRef90_R6ENU3
UniRef90_R2XKF3
UniRef90_S4MVL5
UniRef90_K2LLH5
UniRef90_J9H8L0
UniRef90_R5MM45
UniRef90_A9D841

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

UniRef90_R7LDI6 E E N F D G V I V C L P N F G D G A V T A L R D C G V P I L V Q A Y P D R R R D
UniRef90_R7PGH5 D N E R E D L I G I I I V L P N F G D E K G I I N T N V P I L L I Q A S S D E R R D
UniRef90_X0W412 E N E I D A L F L P F C D F G G E S V A A A F K V P T L V W G S P R D T E R D
UniRef90_R6M1K0 E E N I D G L F L I A N E N F G T E R L A A K L N V P V L L W G P R D P A P D
UniRef90_V7YVA0 E H E G D G V I E S M P I F A D G A I T A L Q D A G V P I L M Q A Y P D E R R D
UniRef90_A5ZM40 K E D V D A Y I L F V G T F T D D K R V M I T G A G K P V I V W A H D I S A F N
UniRef90_X1RGQ0 Q K K V D A I I L F I A H V N F G C E E A V A R L A S P V L L W A V P E P E R D
UniRef90_F7KFC6 Q K K V D A I I L F I A H V N F G C E E A V A R L A S P V L L W A V P E P E R D
UniRef90_UPI000429B4BA R D C N V P I L L V Q A Y A S E I L K R F T C P V L L W T L R E P V I D
UniRef90_R6R9G8 R H R G V I D G V L V T L P N F G D E R A V A D T N V P V F V H A F S D D R R D
UniRef90_X0VAY7
UniRef90_X0WC13
UniRef90_C4ZGB5 A Y A S E V L K R F S C P V L L W T L R E P V I D
UniRef90_A2BML0 D A E V D A G C N Y V V A V V A T G G S E V V K A A R G A P V L L I V A Q P R D E A R D
UniRef90_X0WZL4 K E N V D I M D I T W I D S M K Y I F T T K L Q V P T V F W A P R Y T E R T F
UniRef90_G5HPY7 E K P L D M L L L L Q V T F T D A T M T V E L G K D A P L V M W S Y P E A R T G
UniRef90_G8PLG3 K E K V D A L F F P H C N F G T E Y L V A Q M N L P I L L I W G P R D E S R D
UniRef90_R5QZM3 Q D C G V P I L L Q A Y P D E I G K M D F H R R D
UniRef90_UPI000419598F Q A D L D L L L L Q V T F T D A S L T V I R D F P V P T A M W S F P E A R T G
UniRef90_G9Y8G3 K Q D V D L L L L L Q I T F T D A S L T M D T V K T L P T L M W S F P E P R T G
UniRef90_D3G282 A A T A G E I G S H L G R W L T D H K V P L L S W A W P E P E A N
UniRef90_M5TCF5 K E K V D G I L L A H C N F E Y V C A R L A K E L N L P V L L W G P L D E R P
UniRef90_R5EFZ7
UniRef90_B8D566
UniRef90_R5IUB8 D G V I F S M P I F A D G A I T A L Q D A G V P I L M Q A Y P D E R R D
UniRef90_A7VPY7 K E N I D A L V I G N M N F G M E V A V M R K D L P I L H F C T K S G P T D
UniRef90_E9SLX9 G I H P D L I V L Q F A N A Y A C E V L K R F T C P V V L W T L R E P V I D
UniRef90_C4V1L4 A A D V D L V I L Q L L T Y A Y N M L P A V K D L D V P V I L V N V Q K P T W L
UniRef90_X0Y3S6 A D C I D G V L V T L P N F G D E R G I A D A D V P V L I Q A Y A D D R R D
UniRef90_W3ANA4 E T T P D L I V L Q F A N A Y A T E V L R R F S C P V L L W T L R E P V I D
UniRef90_I018B2 T T P S D L L I L L Q A S F A D S A E I A A R H M P I L L W A V P D A R T G
UniRef90_UPI00040D0349 K D E T I T T I Y Q S V T F A D G V E T L R E I E A P V I V W S I R E D P S I N
UniRef90_U2C8F5 A A G V D A L I E P H C N F G Q E R L A K D M N L P V L I W G P R D G C P N
UniRef90_UPI000471D234 E K K I D A L F V P H A N F G N E K L C R E F S V P I L V W G P R D E A P P
UniRef90_G5HQ90 K E P V S T V Y V A S G G T A G A F K N A L P K E P I I I T S G S D N S L S
UniRef90_V2XZ40 A A D V D V V F L Q M L T Y A Y N V L P V V R D L N V P V V V N Y S K T D I P
UniRef90_H2JHZ7 S A N V D G V V I S G T F H L G H L A L I F A K Y I P F L L W A Y N E L P Y D
UniRef90_R5EWN8 A E K V D A V F L I N G N F G N E A V A K A I G K P V L L W G P Q D T E A D
UniRef90_D3AH64 A K K V D A I A F P H C N F G Q E K V A A E I G K P V L L W G S P E T D K S
UniRef90_UPI0004635D11 G R A L D L L L I V Q V T F T D A T M T V K I A A Q A P L A I W S F P P R T G
UniRef90_UPI0004026D1F D G I I L C M P I F I D G A I T A L E K A G V P V L S W S H T E T T G G
UniRef90_UPI00016C04A6 Q N R G R Y D G I I L S L P A Y A S E V L K R F A C P I L M Q A Y P D E R R D
UniRef90_R6QGJ0 L A D L D R L I I L Q V T F T D A S M T T K I A T E V P L A I W A L P E P R I G
UniRef90_X1FM43 A A D V D L V I L Q M L T Y A T S Y N V L V R D L D V P V V I V N V Q K T D I P
UniRef90_UPI00046E8342
UniRef90_UPI00034A1A66
UniRef90_R7NUD0
UniRef90_R5RVF2
UniRef90_R6TYR1 A H R G E Y D G L V V C L P N F G D E N G I K A A D V P V L I Q A Y P D E R R D
UniRef90_C4SNF3 Q A N L D L L L I L Q V T F T D A S L T V V R D F P V P T A M W S F P E A R T G
UniRef90_D5EMH8 E G L A G L V L F H Y T A G E I G S H L G L L D H K M P L L S W A W P E E G T G
UniRef90_UPI00047178F6 Q E E L D A L V I V E A T W D S M Q Y I F I N E L Q L P T V F W A V P Y T E T F
UniRef90_UPI0003640ED1 I G V W A V P D L E T E
UniRef90_R5TUQ2 K E D I D G I V L M S A T F H L G D I A L L L A Q D V P I L C W A V P P P Y S
UniRef90_B9K9U2 D V P I L L I F G C Q E E E R D
UniRef90_X0TX25 V V F V G G G G T E G R F L K L E P F L K E P V F L L T S G E N N
UniRef90_B9Y505 P Y P I T L L S G L N N
UniRef90_R6C127
UniRef90_U2TB19 A A D V D L V I L Q L L T Y A Y N M L P A V K D L D V P V L L V N Y Q N T D I P
UniRef90_M5T160 A A N V D I I F C H A A T Y A M S H I S T A R H C Q R P V V V L N L Q P T E W L
UniRef90_UPI0003F7A1AF P H H V S V V I Y Q S I T F A D G E F T V L D K L S A S I I V W S I R E P A V G
UniRef90_R7P1D3 G V E K M V T Q H F L P Y P I H L L T D G Q Q N
UniRef90_E0MRC2 D A N P D R L I I L Q I T F T D A A M T V E A A R D S P M A I W A V P E P R T G
UniRef90_E0SRG6 D E D V D G I I L T T L T F D G A L I A E E F R G K P I I I F A T K E P P T G
UniRef90_X0W4V4 D K E V A G I I I G T M T F G D E I S A I T P G I P V L L F G T K E G A F D
UniRef90_R5FJZ3 A A D V D L V I L Q L L T Y C Y N M L P A V R D L D V P I V V N L Q K A E W L
UniRef90_M5U5Y0 E L N K G L A G I V F F H A Y G S H L G L L D H K V P L L S W A W P E A N
UniRef90_N9X7S4 A E K V D A I V F P H C N F G Q E E V V A K T A A P V L L W G S P E T D Q S
UniRef90_G5HH13 A Y A S E V L K R F G C P V L L W T L R E P V I D
UniRef90_X118K2 V I I T W S F D N L T L N I F R R R P I A I J A V P G I R S D
UniRef90_X1UWB4 D K E V A G I I I G T M T F G D E I S A I T P G I P V L L F G T K E G T F D
UniRef90_UPI0001E89B8F H E K I D T I L L Y Q S V T F A D G E F M I L K H R K E P V I V W S V R E P S V G
UniRef90_X1HL77 T K D L A G I L I G T M T F G D E V T I A E K M P E L V L L F E D G N R D
UniRef90_D4KF99 P V T I W A I R E P S I D
UniRef90_L0A7B5 S T P P D L L L I Q H V T F A T G D L V L L N F A Q E L D L P S V V W A L P E A P Q N
UniRef90_UPI000365B477 Q N P C D K I F L F Q T T F T D A K F L L N F A Q E I P I C I V S F P P R T G
UniRef90_W0J0N3 A T N T D G V I L F H A A Y T C G E I R W L L D H P A P L L S W S W P D P V I T N
UniRef90_D7AYL1 A A G L D G V L V M L T Y G P S L R V L A R T H L P L A L A N T I Q S P S W D
UniRef90_R7EP50 K E R F D A L V L C I A G W I P T H A V V K I T E H Y P M V L W G L C G A D Q A
UniRef90_W0FSC6 A A D V D L V I L Q L L T Y A Y N M L P A V R D L D V P V V L V N Y A A T D T P
UniRef90_F8EZH5 R V D A V A I I S G T F H L G H L A L V I A K Q V P L L L W A L P E L P Y D
UniRef90_UPI0003B4C9FE A A H V D G I I I S T L M W C E D R A A L K V L R G L P C V V C T F F P P E T S
UniRef90_M9WC15 A E D V D I I F C H L T T Y A S S T L V L L N V Q S V P A L D L T L T I D D W L
UniRef90_V4J7Y9 K Q Q L D L V L L Q V T F T D A S L T I E I G R R G L V M W S F P E P R T G
UniRef90_H9UCS5 D Q K I D F L L V Q S T F S S G Y L I L A Q T K A Y L G L W A V P E I T A S
UniRef90_R6ENU3 A A D V D L V F L Q L L T Y A T S Y N V L P A T R D L D V P V V C I N N T D I P
UniRef90_R2XKF3 D A D V I L E Q D T T F T D G E F I D V V N V P V I W G L K E P S I G
UniRef90_S4MWL5 K A D C D L I V L F L T T Y L T S M V I A Q R S H T P V L V A S F D T G A W L
UniRef90_K2LLH5 E E K L D G I V V V Q S T F T D A E A V I A E R T G L P L Y I W A L P E P R T G
UniRef90_J9H8L0 V T Q Y F D R L P Y P I L L L C D G Q H N
UniRef90_R5MM45 D C D L I V V T V K G F T W F G E C I N T K L G V P V C C W A V P P K K E
UniRef90_A9D841 P L A I W A V P E P R L G

UniRef90_R7LDI6 UniRef90_R7PGH5 UniRef90_X0W412 UniRef90_R6M1K0 UniRef90_V7YVA0 UniRef90_A5ZM40 UniRef90_X1RGQ0 UniRef90_F7KFC6 UniRef90_UPI000429B4BA UniRef90_R6R9G8 UniRef90_X0VAY7 UniRef90_X0WC13 UniRef90_C4ZGB5 UniRef90_A2BML0 UniRef90_X0WZL4 UniRef90_G5HPY7 UniRef90_G8PLG3 UniRef90_R5QZM3 UniRef90_UPI000419598F UniRef90_G9Y8G3 UniRef90_D3G282 UniRef90_M5TCF5 UniRef90_R5EFZ7 UniRef90_B8D566 UniRef90_R5UIB8 UniRef90_A7VPY7 UniRef90_E9SLX9 UniRef90_C4V1L4 UniRef90_X0Y3S6 UniRef90_W3ANA4 UniRef90_I018B2 UniRef90_UPI00040D0349 UniRef90_U2C8F5 UniRef90_UPI000471D234 UniRef90_G5HQ90 UniRef90_V2XZ40 UniRef90_H2JHZ7 UniRef90_R5EWN8 UniRef90_D3AH64 UniRef90_UPI0004635D11 UniRef90_UPI0004026D1F UniRef90_UPI00016C04A6 UniRef90_R6QGJ0 UniRef90_X1FM43 UniRef90_UPI00046E8342 UniRef90_UPI00034A1A66 UniRef90_R7NUD0 UniRef90_R5RVF2 UniRef90_R6TYR1 UniRef90_C4SNF3 UniRef90_D5EMH8 UniRef90_UPI00047178F6 UniRef90_UPI0003640ED1 UniRef90_R5TUQ2 UniRef90_B9K9U2 UniRef90_X0TX25 UniRef90_B9Y505 UniRef90_R6C127 UniRef90_U2TB19 UniRef90_M5T160 UniRef90_UPI00037A1AF UniRef90_R7P1D3 UniRef90_E0MRC2 UniRef90_E0SRG6 UniRef90_X0W4V4 UniRef90_R5FJZ3 UniRef90_M5U5Y0 UniRef90_N9X7S4 UniRef90_G5HH13 UniRef90_X118K2 UniRef90_X1UWB4 UniRef90_UPI0001E89B8F UniRef90_X1HL77 UniRef90_D4KF99 UniRef90_L0A7B5 UniRef90_UPI000365B477 UniRef90_W0J0N3 UniRef90_D7AYL1 UniRef90_R7EP50 UniRef90_W0FSC6 UniRef90_F8EZH5 UniRef90_UPI0003B4C9FE UniRef90_M9WC15 UniRef90_V4J7Y9 UniRef90_H9UCS5 UniRef90_R6ENU3 UniRef90_R2XKF3 UniRef90_S4MVL5 UniRef90_K2LLH5 UniRef90_J9H8L0 UniRef90_R5MM45 UniRef90_A9D841

130 140 150 160

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

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

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

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

UniRef90_R7LDI6
UniRef90_R7PGH5
UniRef90_X0W412
UniRef90_R6M1K0
UniRef90_V7YVA0
UniRef90_A5ZM40
UniRef90_X1RGQ0
UniRef90_F7KFC6
UniRef90_UPI000429B4BA
UniRef90_R6R9G8
UniRef90_X0VAY7
UniRef90_X0WCI3
UniRef90_C4ZGB5
UniRef90_A2BML0
UniRef90_X0WZL4
UniRef90_G5HPY7
UniRef90_G8PLG3
UniRef90_R5QZM3
UniRef90_UPI000419598F
UniRef90_G9Y8G3
UniRef90_D3G282
UniRef90_M5TCF5
UniRef90_R5EFZ7
UniRef90_B8D566
UniRef90_R5UIB8
UniRef90_A7VPY7
UniRef90_E9SLX9
UniRef90_C4V1L4
UniRef90_X0Y3S6
UniRef90_W3ANA4
UniRef90_I018B2
UniRef90_UPI00040D0349
UniRef90_U2C8F5
UniRef90_UPI000471D234
UniRef90_G5HQ90
UniRef90_V2XZ40
UniRef90_H2JHZ7
UniRef90_R5EWN8
UniRef90_D3AH64
UniRef90_UPI0004635D11
UniRef90_UPI0004026D1F
UniRef90_UPI00016C04A6
UniRef90_R6QGJ0
UniRef90_X1FM43
UniRef90_UPI00046E8342
UniRef90_UPI00034A1A66
UniRef90_R7NUD0
UniRef90_R5RVF2
UniRef90_R6TYR1
UniRef90_C4SNF3
UniRef90_D5EMH8
UniRef90_UPI00047178F6
UniRef90_UPI0003640ED1
UniRef90_R5TUQ2
UniRef90_B9K9U2
UniRef90_X0TX25
UniRef90_B9Y505
UniRef90_R6C127
UniRef90_U2TB19
UniRef90_M5T160
UniRef90_UPI0003F7A1AF
UniRef90_R7P1D3
UniRef90_E0MRC2
UniRef90_E0SRG6
UniRef90_X0W4V4
UniRef90_R5FJZ3
UniRef90_M5U5Y0
UniRef90_N9X7S4
UniRef90_G5HH13
UniRef90_X118K2
UniRef90_X1UWB4
UniRef90_UPI0001E89B8F
UniRef90_X1HL77
UniRef90_D4KF99
UniRef90_L0A7B5
UniRef90_UPI000365B477
UniRef90_W0J0N3
UniRef90_D7AYL1
UniRef90_R7EP50
UniRef90_W0FSC6
UniRef90_F8EZH5
UniRef90_UPI0003B4C9FE
UniRef90_M9WC15
UniRef90_V4J7Y9
UniRef90_H9UCS5
UniRef90_R6ENU3
UniRef90_R2XKF3
UniRef90_S4MVL5
UniRef90_K2LLH5
UniRef90_J9H8L0
UniRef90_R5MM45
UniRef90_A9D841

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

UniRef90_R7LDI6 UniRef90_R7PGH5 UniRef90_X0W412 UniRef90_R6M1K0 UniRef90_V7YVA0 UniRef90_A5ZM40 UniRef90_X1RGQ0 UniRef90_F7KFC6 UniRef90_UPI000429B4BA UniRef90_R6R9G8 UniRef90_X0VAY7 UniRef90_X0WC13 UniRef90_C4ZGB5 UniRef90_A2BML0 UniRef90_X0WZL4 UniRef90_G5HPY7 UniRef90_G8PLG3 UniRef90_R5QZM3 UniRef90_UPI000419598F UniRef90_G9Y8G3 UniRef90_D3G282 UniRef90_M5TCF5 UniRef90_R5EFZ7 UniRef90_B8D566 UniRef90_R5IUB8 UniRef90_A7VPY7 UniRef90_E9SLX9 UniRef90_C4V1L4 UniRef90_X0Y3S6 UniRef90_W3ANA4 UniRef90_I018B2 UniRef90_UPI00040D0349 UniRef90_U2C8F5 UniRef90_UPI000471D234 UniRef90_G5HQ90 UniRef90_V2XZ40 UniRef90_H2JHZ7 UniRef90_R5EWN8 UniRef90_D3AH64 UniRef90_UPI0004635D11 UniRef90_UPI0004026D1F UniRef90_UPI00016C04A6 UniRef90_R6QGJ0 UniRef90_X1FM43 UniRef90_UPI00046E8342 UniRef90_UPI00034A1A66 UniRef90_R7NUD0 UniRef90_R5RVF2 UniRef90_R6TYR1 UniRef90_C4SNF3 UniRef90_D5EMH8 UniRef90_UPI00047178F6 UniRef90_UPI0003640ED1 UniRef90_R5TUQ2 UniRef90_B9K9U2 UniRef90_X0TX25 UniRef90_B9Y505 UniRef90_R6C127 UniRef90_U2TB19 UniRef90_M5T160 UniRef90_UPI0003F7A1AF UniRef90_R7P1D3 UniRef90_E0MRC2 UniRef90_E0SRG6 UniRef90_X0W4V4 UniRef90_R5FJZ3 UniRef90_M5U5Y0 UniRef90_N9X7S4 UniRef90_G5HH13 UniRef90_X118K2 UniRef90_X1UWB4 UniRef90_UPI0001E89B8F UniRef90_X1HL77 UniRef90_D4KF99 UniRef90_L0A7B5 UniRef90_UPI000365B477 UniRef90_W0J0N3 UniRef90_D7AYL1 UniRef90_R7EP50 UniRef90_W0FSC6 UniRef90_F8EZH5 UniRef90_UPI0003B4C9FE UniRef90_M9WC15 UniRef90_V4J7Y9 UniRef90_H9UCS5 UniRef90_R6ENU3 UniRef90_R2XKF3 UniRef90_S4MVL5 UniRef90_K2LLH5 UniRef90_J9H8L0 UniRef90_R5MM45 UniRef90_A9D841

210 220 230 240

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

UniRef90_R7LDI6 Y A D C S K A P V S S 250 260 L E N L A K L S V V L 270 280
UniRef90_R7PGH5 C M A G L D K T P D K N V K D F A K L Y K A Y T D Y V I T
UniRef90_X0W412 Y T P T T S F P E E G I L K L A K L A V V V E N W V L E
UniRef90_R6M1K0 R C S E M E N F A L G K M I G L K S G E E A V R R A I A M K L A M K
UniRef90_V7YVA0 Y T D F S N V P E D K K I M L S K I S V V I
UniRef90_A5ZM40 L A G K V K A S K E N G I T S S T L I Y I L K M I
UniRef90_X1RGQ0 E C V G R E A L E S I C A M K L A V
UniRef90_F7KFC6 K A M M G S L D E T P E K N V K D F A R L Y K A Y R M Y V E E
UniRef90_UPI000429B4BA Y T N F S C V P N D R L I T L A K I S V V I
UniRef90_R6R9G8 Y A P P M E P I P A K H Q M T I A K M S V V I E Q W I K E
UniRef90_X0VAY7 R G M K F N L G S D E E T E L T E T Q V L L Q C K M Y I A A
UniRef90_X0WC13 K C T V G L D K T P D N N R K D F A R L C K A Y K E Y V D E
UniRef90_C4ZGB5 H G A A A V D V P R G R V P N A L R V I L A L R S I V
UniRef90_A2BML0 M A K S D K R V N D E V S E L K A R V T F K D M E E D M I K R V A A L K L M L I
UniRef90_X0WZL4 R S G K S V A D K K A L V Y M A K V Y M A T K E I I A
UniRef90_G5HPY7 Y E R R A K D F P N L A E L D Q E A T C K T L K V Y S K L R T
UniRef90_G8PLG3 E T I I S D E A L V K V A A L K V A I K S I
UniRef90_R5QZM3 Y T N C G K V P A D K M L T L A K V G V A L D D Y I
UniRef90_UPI000419598F Y A R R A K D F P N L G E M D Q D A T R K T L K V I Y S A L Q A K
UniRef90_G9Y8G3 L P D S I A D A A Y D R R A K D F S N L S E M D Q T A T
UniRef90_D3G282 D A M V G H P D C A K V S V P D E Q I L Q T Y R F G L A M L D L
UniRef90_M5TCF5 N T V I K I A K P K V A T V A A L A H A M K N L V
UniRef90_R5EFZ7 T L V T S E E V A K A L R L Y K A L A L I T R
UniRef90_B8D566 Y T D F S L V P A S N A L T L A K V S V V L D E Y I
UniRef90_R5UIB8 G V V C E M N Q E K F P L L A R Y E V A L
UniRef90_A7VPY7 W M A G I E N T P D K N V K D F A R L Y K A Y R D Y V R E
UniRef90_E9SLX9 N I A G G A T V D T V W D M A K Y V V A F E Q W A Q E E R L G L V A S H Y
UniRef90_C4V1L4 Y C V E G
UniRef90_X0Y3S6 Q L V G L E N T P E K N V K D F A K L Y K A Y K D Y V T E
UniRef90_W3ANA4 T T T N L D E M E P T A V R G T A G V Y H A L R
UniRef90_I018B2 Q V I G L N R T D E T V H R F A Q F T T F M E S V I E
UniRef90_UPI00040D0349 L V D A G L D I S A L G E K R Y P L A A I E L A L M D F
UniRef90_U2C8F5 S F P C Y S I S E K H A E I T T E L A I R N L A E T Y G C T I M A G D C W Y V
UniRef90_UPI000471D234 L A Q D F D K D Q I T Q A L V S A S K F V E K
UniRef90_G5HQ90 F E I E G G S L E K V W E M A R Y V V A F
UniRef90_V2XZ40 L F I G K E V N D I Q V K K V A Q L C V S A S K F V E K
UniRef90_H2JHZ7 E L A E G V A K L Y E I D D L S E P V L D K V Y A F V L L
UniRef90_R5EWN8
UniRef90_D3AH64
UniRef90_UPI0004635D11 D D L E S V D Q D Q L D R S L R L R A A L E D
UniRef90_UPI0004026D1F S P S V A G N G V S D N E L F L S V R L A L A I A D Y A N S
UniRef90_UPI00016C04A6 N C H N V P E E N L N N L A K T G V V L D E Y I A A
UniRef90_R6QGJ0 Y T E E L A D E L A E A R K T I V G L E A I P E N N V R L Y K A Y K S Y V G E
UniRef90_X1FM43 Y T R W T G V P E A F N N I C K L G V A V
UniRef90_UPI00046E8342 V G L D D L D Q D E L D K S L R L K N A L D D L
UniRef90_UPI00034A1A66 F D V E G G A S I S D E P I R E M A R Y V L A F E R W A R D
UniRef90_R7NUD0 Q A V A C R E A T P E D F L K A M R L Y K A V R
UniRef90_R5RVF2 N A L N K P K F G R A I T E A D F G K A L D L Y C A M K S I L V
UniRef90_R6TYR1 R R D L N A A M N C S A A P A G R D L V
UniRef90_C4SNF3 D F P N L A D M D Q T A T C K T L K V I Y S A L R
UniRef90_D5EMH8 H P S C G N V A L P E E Q I L Q T Y R F G L G M L D L
UniRef90_UPI00047178F6 K R T G A V K A N G T T M Q Y M A K I Y M A T
UniRef90_UPI0003640ED1 V A S S I S V S N D D S F N K V A R I Y F A L K K M K E D
UniRef90_R5TUQ2 R A Q A C Q D T T P E D L R E M R L Y Y A T
UniRef90_B9K9U2 N L K E E I E K T Y D T E K L N E D K K S K V C K L I V S
UniRef90_X0TX25 Y A D V S G I N A E S V L R S A K L E L F L R R W R E D
UniRef90_B9Y505 Q Q P W P E A E M Q K S L E I Y G A L K R I C
UniRef90_R6C127 K A K A C Q D A T A E D L L K A M R L Y K A I K Q L
UniRef90_U2TB19 F D I E G G A T V I E T V W D M A K Y V I A F
UniRef90_M5T160 M F V I S E D S P A D P L A R K P K P E Q L D I A C R V A V A V R D F D L D
UniRef90_UPI00037A1AF Q V A G L Q R S D E Q R F A Q F S S V R
UniRef90_R7P1D3 R A I A C R E G T P E D L L K A M R L Y Q A V K I I C E
UniRef90_E0MRC2 Y A I G G M D D V D A G E L D K S L R L K L A L D S L R E E
UniRef90_X0SRG6 N D P R V I D V V N D M S K S V D L S K I S K E Y V L K L A
UniRef90_X0W4V4 S A N C K W V K E E T L H K A A Q L E I V L K
UniRef90_R5FJZ3 I A D I H D T F E I K G D Y E E E S L R E M A R Y V L A F
UniRef90_M5U5Y0 H C A A V P E E Q I L Q T Y R F G L G I L D L
UniRef90_N9X7S4 P S G E G M L P D P R I A N I V K E I E E A D W E A V E K M A Y L E A A I M
UniRef90_G5HH13 M M V G L D Q T P E N N V R D F A R L Y K A Y K D Y V A D
UniRef90_X118K2 N A Q K N E I Q S F T D K I S S S E D S L Y D S A R L H L A L R
UniRef90_X1UWB4 N C K W V K E E T L R K A A R L E I A L K
UniRef90_UPI0001E89B8F Q V I G L N R S D E T K F A Q F S T Y V K
UniRef90_X1HL77 R A N C E E I R E E S I G K A A R L E L A L K D F V
UniRef90_D4KF99 R T I N V N I P Q E N M E K Y A R L R K A F Q A F V D E
UniRef90_L0A7B5 N A A A A S T P H E P S D Y T P A A L E Q A L K I E T A L A D A A
UniRef90_UPI000365B477 Y L Q G T E D L V Q E E F D K S L S I Y H G
UniRef90_W0J0N3 N T L C T K V A L P D S Q T D Q T L R F G L A I L D Y
UniRef90_D7AYL1 K W N F L K P A N P E T H A R M Q L L G L E R L
UniRef90_R7EP50 R D I L D T F D I E G G G T I E K V W D M M K K A G Y Y L A V
UniRef90_W0FSC6 V F D V S G I T G D Q L D K V A A L S A K L A K Y V V A F
UniRef90_F8EZH5 F I T R I N K E E H I I E V D S K N L I E G V K Y A L A I E D I L A M
UniRef90_UPI0003B4C9FE V F R L P E D L D E Q H L T S M I E V I L A T R R L V D E
UniRef90_M9WC15 A L Q L Y D E R R T V L V N L D E M D K D V T L R S L K A Y L G M R R L
UniRef90_V4J7Y9 K V R E I E R E I R E K Y F I A D K F A E G F I E K M A R L V C A R R L
UniRef90_H9UCS5 F D V E G G A I A D D E D I M D M A K H V E Q W A K D E D L S M I A S H Y A G
UniRef90_R6ENU3 Q I I G L N R T D H T V K R F A Q F V K V A K D Y I
UniRef90_R2XKF3
UniRef90_S4MVL5
UniRef90_K2LLH5 V S G I G E L D P D Q L L R S L R L K G A L
UniRef90_J9H8L0 R A Q T C L E G S P E E L I K S S A S S F T A D E E R F L K A M R L Y R A L Q L L
UniRef90_R5MM45 Q M V S G L D A E I Q V D Q P E L D R S L R L K L A L C K L I C
UniRef90_A9D841

UniRef90_R7LDI6 290 300 310 320
UniRef90_R7PGH5 DE V V D E L K L D A I L S L R C W M E L E K V F L I A P C I L L
UniRef90_X0W412 E G G L G A V S S R C W P D F T D F G T P V C S V L
UniRef90_R6M1K0 N E R A L L E K D C T C A S M D C W P S A A V L K G L P C V A L
UniRef90_V7YVA0
UniRef90_A5ZM40 D E Y V E E Y H L D A L A I R C W N E M T I L R V C P C V L L
UniRef90_X1RGQ0 K E Y S L D A I L S I N C F P N L K G Q V C I P I
UniRef90_F7KFC6 F N W A E E E N L R A A A T Q C W A P F T D I S G I A P C
UniRef90_UPI000429B4BA N R I G A L L S S R C W P D F F T A V C S V L
UniRef90_R6R9G8 D E Y D E Y H L D A I T L R C W N E M E T Y Y R V C C V L L
UniRef90_X0VAY7 N D I D A Y T I Q C W P A M Q D A L V F P C T A M
UniRef90_X0WC13 N N I L R I A N E F G C D T I G I Q Y Q Q G L K D L T P A S D L V E
UniRef90_C4ZGB5 G A L S S R C W P D F F T A V C G V L
UniRef90_A2BML0 D W E K H R L D A V T V E C F R L I K E R G T A C L A L
UniRef90_X0WZL4 A E R E N L T A I A F Q C W D A L Q L A L
UniRef90_G5HPY7
UniRef90_G8PLG3 E A D E K D Y A G V A V R C W P D F T E Y G C A A C G A L
UniRef90_R5QZM3 A K R Y N C K A A A V Q C W N A M Q G V L G I P C A A N
UniRef90_UPI000419598F D E Y H L D T V A I R C W T E M Q E L G I A P C V L L
UniRef90_G9Y8G3 A L R E G Y S G I A V R C W P D F T D Y G C A A C G A L
UniRef90_D3G282 R K T L K Y S G L K E K A K M Q A Y N G I A V R C W P D F T D Y G C A A C G A L
UniRef90_M5TCF5 A A E H G Y L G A T V K S W P E L F D C Y C A I D G S V
UniRef90_R5EFZ7 D K Y G C N A G A I Q C W T A L Q G E L G I M C A A N
UniRef90_B8D566 Y N L D G F T I K C F D I P R L K T T S C L A L
UniRef90_R5IUB8 K H I Y K E L G E E Y H L D A L A L R C W N E M E T Y L R I C C V L L
UniRef90_A7VPY7 N A D C M A V C C W E M L T R Y G I A G C S T F
UniRef90_E9SLX9 N G I G A L S S R C W P D F F T P V C S V L
UniRef90_C4V1L4 D G Y A Q G A A G K L D S M L I P A F S M L
UniRef90_X0Y3S6
UniRef90_W3ANA4 N H I G A I S S R C W P D F T D F G T P V C A V L
UniRef90_I018B2 R C V E A D G L S G V A V R C W P E F T E L G C A A C G A M
UniRef90_UPI00040D0349 N E Q L T A L A I R C W P E F F N E L G A A C
UniRef90_U2C8F5 A E A N D C N A L S C E C W N L F R K K Y V S P C F I L
UniRef90_UPI000471D234 N P L I Y E
UniRef90_G5HQ90 F K R L V E R Y D L D G F T V R C F D L L T A V K N T G C L G L
UniRef90_V2XZ40 E R W V Q K E D L A M V A S H Y A G K A T G Q A G I L D S M L I P A F S M
UniRef90_H2JHZ7 N G L T A V A V R C W P E F A A N Y I S P C A A M
UniRef90_R5EWN8 Y E E F E E Y N V T A V S A E C W T A M Q L M V G A M C A A Y
UniRef90_D3AH64
UniRef90_UPI0004635D11 V R S K G G Y S A F A V R C W P E M T Q Y G G A V C G P V
UniRef90_UPI0004026D1F N E Y V G V A L K N W P E L F D N Y T A G D G A G
UniRef90_UPI00016C04A6 Y K L D A L T L R C W N E M E D L L H I C C V L L
UniRef90_R6QGJ0 G A L C S R C W P D F F T P V C S V L
UniRef90_X1FM43 D E V V K E Y K M D A V A I R C W I E M Q Q Q L G I S P C V L L
UniRef90_UPI00046E8342 H T Q G G Y D A F A I R C W P E F T E Y G G A V C G P V
UniRef90_UPI00034A1A66 E Q L A L V A S H Y N G D A Q G K A G V L D S M L I P A F S M
UniRef90_R7NUD0 I I C E K K H L D A V T L S C F S L I E K L G T T G C L A L
UniRef90_R5RVF2 L A K F G A A V E S V I K T A D A I A I R C W S E L Q E L L T A P C S I L
UniRef90_R6TYR1 L A K F G A A V E S V I K T A D A I A I R C W S E L Q E L L T A P C S I L
UniRef90_C4SNF3 E K A Q R E G Y S G I A V R C W P D F T D Y G C A A C G A L
UniRef90_D5EMH8 A A E H G Y I L G A T V K S W P D L F D C Y C A I D G S V
UniRef90_UPI00047178F6 K E V I K K Y S L D A M A A E C Y P M F S
UniRef90_UPI0003640ED1 N N W D S L A V Q C W S Q M Q E L Y V A P C L A
UniRef90_R5TUQ2 K Q V C E K Y Q L D A V T L S S F S M Y Q D L K S T G C L A V
UniRef90_B9K9U2 F K R I L E T G K F S A L A V R C W P E F A S Y I S P C A A M
UniRef90_X0TX25 N A I D A F G I Q C W T S I Q A N Y V C G C T M
UniRef90_B9Y505 Q K Y Q L A G V T V R C F D L L G P V K S T G C L A L
UniRef90_R6C127 C V S E Q L D A I A L S C F A L V K Q L N T T G C L A L
UniRef90_U2TB19 E Q W V K E E Q I G L V A S H Y D G Y A Q G K A G K L D S M L I P A F S M
UniRef90_M5T160 A L T Y Y R G R E G N A Y E E L Q E S L L L G
UniRef90_UPI0003F7A1AF K K K L Q E V Y E Q N I S A L A I R C W P E F F N E L G A A C
UniRef90_R7P1D3 N D A V T L S C F S L I E K L G T T G C L A L
UniRef90_E0MRC2 K L E V I L S E K V K E K S L S G L G I R C W T E I Q R Y Y V S P C F V M
UniRef90_E0SRG6
UniRef90_X0W4V4 E Q W V R D E H L G M V A S H Y D G L A Q G K A G V L D S M L I P A F S M
UniRef90_R5FJZ3 A A E H G Y I L G A T V K S W P E L F D C Y C A I D G S V
UniRef90_M5U5Y0 D L A S V N R C Q A V A V D C W G F S Q D S Y I P S C F
UniRef90_N9X7S4 N H I G A L L S S R C W P D F F T P V C S V L
UniRef90_G5HH13 N K V R N E G L I A L S L G C Y P H Y A G R V C I A C
UniRef90_X118K2 E F A Q E K D L S A M G V Q C W T A M Q E I C
UniRef90_X1UWB4 K H I E A H D I Q A I A V R C W P D F F N D L G A
UniRef90_UPI0001E89B8F K Q K N L A G L A V Q C W D A M Q K I Y I S C L T M
UniRef90_X1HL77 N K I G A L A S R C W P D F F T P V C A V L
UniRef90_D4KF99 T G Y D A V A L R C W P E V P E E L G S M C L A G
UniRef90_L0A7B5 H N L D A F A I R C W P E F T E Y G C A S C G P M
UniRef90_UPI000365B477 L E S L K D K T N L D A F A I R C W P E F T E Y G C A S C G P M
UniRef90_W0J0N3 A Q E R G Y I G C T V K S W P D W F A Y Q C S I D G A V
UniRef90_D7AYL1 L E E S G C G A Y S T H F D A I G E D G R F R L P M A A A S
UniRef90_R7EP50 A S I A K E R N Y H A I S L K D V D G M K K L C G F P A P I F M
UniRef90_W0FSC6 E Q W C R D E Q L G F V A S H Y D G F A Q G I A G K L D
UniRef90_F8EZH5 A K R L T A L A I R C W P E F A A T Y I S P C A A M
UniRef90_UPI0003B4C9FE N D I D E M H R C F G L R P C L A N P G L S E
UniRef90_M9WC15 H R L I A L S N H F E V Q Y M H Q I I S A S N P V F S M L T
UniRef90_V4J7Y9 V D E H G Y H G L A V R C W P E F F T H Y G A A A C G A
UniRef90_H9UCS5 A Q K G N Y D G L A I S C W P R F S E L G M V P C G A Y
UniRef90_R6ENU3 K A Q G V A G K L D S M L I P A F S M L
UniRef90_R2XKF3 R N D G L S A I A M R C W P D F F V A P C G A F
UniRef90_S4MVL5
UniRef90_K2LLH5 D A L K E R G R F D G F A L R C W P E F T E Y G G A I C G P V
UniRef90_J9H8L0 C E K K H L H A L T L S C F T L I E K L H T T G C L A L
UniRef90_R5MM45 V L K R Y F E E N N Y A G M A V A C W T R F Q E R L D I F P C M A Y
UniRef90_A9D841 D G I K A E G G F D A F A I R C W P E F T E Y G G A V C G P V

	330	340	350
UniRef90_R7LDI6	S D L N S R	G I P A A C E L D V G N G I M M	
UniRef90_R7PGH5	S L L N	A A G V C A S C E A D V Y G A L S M Y I G K E L T G	
UniRef90_X0W412			
UniRef90_R6M1K0	G E L T D	E G I P V S C E G D V N G A V T L A I M N	
UniRef90_V7YVA0			
UniRef90_A5ZM40	S E L N D R	G I A T S C E L D L T S A I S M R A M Q L A S	
UniRef90_X1RGQ0	S L L N D R	M G L P S A C E G D L N S T I L M Y I L H N L S G	
UniRef90_F7KFC6	Y L M G D S T D	D G F P I A C E N D I H G A L T M A L L G A	
UniRef90_UPI000429B4BA	S L L N	A L G T A A S C E S D V Y G A L S M Y I G M Q L T G	
UniRef90_R6R9G8	S E L N D R	G I V A S C E I D L C S A I T M R A L S L A S	
UniRef90_X0VAY7	S L M S Q N L	N V D R P I P A A C E T D V M G A V S M Y A I Q L	
UniRef90_X0WC13	G L L N	M G V A A S C E A D T Y G A L S M Y M G M K L S	
UniRef90_C4ZGB5	A M L N D	E G V V A G C E A D V P S T V T M L L L H T V S	
UniRef90_A2BML0	S L L N S		
UniRef90_X0WZL4	G I V P C F V N S E L T A L G I P V A C E T D I N G A L T		
UniRef90_G5HPY7			
UniRef90_G8PLG3	A L L N E D R T P S G	C E A D M M G V V T S L T L Q H A S G	
UniRef90_R5QZM3	A L L T D	E K F P V A C E T D I H G A I T S I I	
UniRef90_UPI000419598F	S E L N D R	G V V S S C E I D L C S A V T M R A L N L A S G	
UniRef90_G9Y8G3	A L M N E	D K V P C G C E A D M F G V L S S L M A Q W A S G	
UniRef90_D3G282	A L M N E	D K L P C G C E A D V L G V L S S L L A Q Q V I S G	
UniRef90_M5TCF5	S M M N D Y	G F C V A E E G E M N G L L S S M A L W L L S N	
UniRef90_R5EFZ7	A T L N D	M G I P V V C E T D I H G A I T A L L	
UniRef90_B8D566	A L F N T M L	I P A S C E G D L P L L I S M A L L G E W I T	
UniRef90_R5IUB8	S E L N D R	G L V A S C E I D M C S A I S M R A M S L A S	
UniRef90_A7VPY7	A R L N D	Q G Y L T A C E V D V L G	
UniRef90_E9SLX9	S L L N A S	G I P S S C E S D V Y G A L S M Y I G S S L T G	
UniRef90_C4V1L4		I Q Q G T A C A V E G D M K V A M A M S I M K T I C G T	
UniRef90_X0Y3S6			
UniRef90_W3ANA4	S L L N S L	G V S A S C E S D T Y G A L S M Y I G S K L T G	
UniRef90_I018B2	S F L N E E R C	P A S C E A D V N G T V T S L L L Q A L S G	
UniRef90_UPI00040D0349	S T L S Q F T E D G	I V S S C E A D I H G S V S M F L L Q Q M S G	
UniRef90_U2C8F5	G D L N D R	G L P A A C E N D V H A A I T	
UniRef90_UPI000471D234			
UniRef90_G5HQ90	A L L N	Q E G I Y S G C E G D L P S L I S M A I L G Q I S G	
UniRef90_V2XZ40	L I	K Q G T A C A V E G D I K V A M A M S L L K T I S G T	
UniRef90_H2JHZ7	S I L Q S	K G I L I S C E G D V E G A L S M L A G A L	
UniRef90_R5EWN8	P L L A D	M G Y I I I G C E S D M H A T L T Q V V L K S L T	
UniRef90_D3AH64			
UniRef90_UPI0004635D11	G M M	G E R R V P C A C E A D V H G A L T N L F L Q E M T G	
UniRef90_UPI0004026D1F	A L V Q D L	G I P V A D E S D M G A L L T M V A F N E L T	
UniRef90_UPI00016C04A6	G E L N D R	G I I A S C E M D L C S A I T M R A M H L A S	
UniRef90_R6QGJ0	S L L N	V S A S C E S D A Y G A L S M F I G S D L T	
UniRef90_X1FM43	S E M N D R	G V V T A C E V D V G N	
UniRef90_UPI00046E8342	A M M	G E R R V A C A C E A D V F G A L T G L V L Q E L A G	
UniRef90_UPI00034A1A66	L I	K Q G V A C A V E G D M K V A I A M S I L K T I A G T	
UniRef90_R7NUD0	S L L N D	E G I P A G C E G D L Q S I F T M L I A K V L T N	
UniRef90_R5RVF2	A I L N S	K G V A T C E G D V P T L L S M	
UniRef90_R6TYR1	G L L N	H K G I S A A C E T D V S N	
UniRef90_C4SNF3	A L M N E	D K V P C G C E A D M F G V L S S L M A Q W A S G	
UniRef90_D5EMH8	S M M N D V	G F C V A E E G E M N G	
UniRef90_UPI00047178F6	G L M N L T S S W L A D	E G I V V D T E G D I G H T M V M H M L N L T S	
UniRef90_UPI0003640ED1	Y G W M G S E	D G I A V S C E G D V Q G S M S M L L L N Y I S K S	
UniRef90_R5TUQ2	A L L N D	E G I P A G S E G D L Q A I M T L L M V K V L T G	
UniRef90_B9K9U2	A	E G I P A G S E G D L Q A I M T L L M V K V L T G	
UniRef90_X0TX25	S R L G D	W N M A Q G S I L S C E G D V L G A V T M L M L K	
UniRef90_B9Y505	A I L N	E G T P C A C E S D I M G T L S M H A A M L A S D S	
UniRef90_R6C127	S L L N N	A E G V Y G G C E G D M P S L I A M T L I G K L T D	
UniRef90_U2TB19	L I	E G I P A G C E G D L Q A I M T M M M A K A V T G	
UniRef90_M5T160		K Q G T A C A V E G D M K V A M A M S I M K T I S G T	
UniRef90_UPI0003F7A1AF	N S L L T A Q G	I P C S G E G D M K T A V A M	
UniRef90_R7P1D3	S T L S Q F T E E G	V V S S C E S D I H G A V T M F I L Q E L A G	
UniRef90_E0MRC2	A L L N D	E G I P A G C E G D L Q S I F T L L I A K T L T G	
UniRef90_E0SRG6	S L L G E A R	V P C A C E A D V Y G A V T Q L L L	
UniRef90_X0W4V4	G R L T D R	G I M A A C E V D V Y G V L T M I M Q Y	
UniRef90_R5FJZ3	L I	K Q G T V C A V E G D M K V A M G M S I M K T L S G	
UniRef90_M5U5Y0	S M M N D Y	G F C V A E E G E M N G	
UniRef90_N9X7S4	V L A E L F D R	G L P A A C E T D I H A A V G A V L L	
UniRef90_G5HH13	A M L N	A L G I A A S C E S D V Y G A L S M Y I G T Q M T D	
UniRef90_X118K2	S L L G N	E G I P C G C E G D L N S A L A M F L L Q S F S N	
UniRef90_X1UWB4			
UniRef90_UPI0001E89B8F	A A C S S Q F T E D G	V V S S C E S D I H G S V S M F V L Q Q L S G	
UniRef90_X1HL77	G R L		
UniRef90_D4KF99	S M L N D N N	I P S S C E T D I G G A I S M F I G S K L T N T	
UniRef90_L0A7B5	A R L A D R	G L P V A C E G D T F G A L S M L A A Q K L S G T	
UniRef90_UPI000365B477	A M M N E	K K V S C A C E A D V L G G I S C N I L N Q M N D S	
UniRef90_W0J0N3	S M L N D Y	G L C T A E E G E M N G L I S S L A L W E I S N	
UniRef90_D7AYL1	T L M	A Q G Y G F A G E G D V L A A S I V Y A G H Q L A G	
UniRef90_R7EP50	L L S E	D G Y T T I P E N D S L G A V T Q L M M H K L T G	
UniRef90_W0FSC6	S M L I P A F S M L	I K Q G T A C A V E G D I K V A M A M G I L K V I A G T	
UniRef90_F8EZH5	S L L	Q A E D R I L A C E G D V E G A L S M L	
UniRef90_UPI0003B4C9FE	S	G V V S S M E A D I A A G I A M Y I L R L F T G	
UniRef90_M9WC15		R Q G L A C P V I E A D V K T A I A L T L M K S L A G S	
UniRef90_V4J7Y9	L A L L G E N D I A G	G C E A D V H G V I T S L I L R R L A G	
UniRef90_H9UCS5	A F L S D	E G T T T V C E G D I V S L L S M K I L E Y I S N	
UniRef90_R6ENU3		I K Q G T A C A V E G D M K V A M A M S I L K T I S G	
UniRef90_R2XKF3	S Q L T E	Q G F P T A C E A D I H G S L S M Y I L L Q M L S	
UniRef90_S4MVL5			
UniRef90_K2LLH5	G M M G E K R	T P C A C E A D V Y G A L T S L M L Q A L S D	
UniRef90_J9H8L0	S L L N D	E G I P A G C E G D L Q S I F S M L V A Q T L T G	
UniRef90_R5MM45	G Y L C D	H G Y P V A C E G D L L G L I S M I M L S G A T	
UniRef90_A9D841	A M M G E A R	T P C A C E A D V Y G A A T Q L L L Q A A S G	

UniRef90_R7LDI6
UniRef90_R7PGH5
UniRef90_X0W412
UniRef90_R6M1K0
UniRef90_V7YVA0
UniRef90_A5ZM40
UniRef90_X1RGQ0
UniRef90_F7KFC6
UniRef90_UPI000429B4BA
UniRef90_R6R9G8
UniRef90_X0VAY7
UniRef90_X0WC13
UniRef90_C4ZGB5
UniRef90_A2BML0
UniRef90_X0WZL4
UniRef90_G5HPY7
UniRef90_G8PLG3
UniRef90_R5QZM3
UniRef90_UPI000419598F
UniRef90_G9Y8G3
UniRef90_D3G282
UniRef90_M5TCF5
UniRef90_R5EFZ7
UniRef90_B8D566
UniRef90_R5IUB8
UniRef90_A7VPY7
UniRef90_E9SLX9
UniRef90_C4V1L4
UniRef90_X0Y3S6
UniRef90_W3ANA4
UniRef90_I0I8B2
UniRef90_UPI00040D0349
UniRef90_U2C8F5
UniRef90_UPI000471D234
UniRef90_G5HQ90
UniRef90_V2XZ40
UniRef90_H2JHZ7
UniRef90_R5EWN8
UniRef90_D3AH64
UniRef90_UPI0004635D11
UniRef90_UPI0004026D1F
UniRef90_UPI00016C04A6
UniRef90_R6QGJ0
UniRef90_X1FM43
UniRef90_UPI00046E8342
UniRef90_UPI00034A1A66
UniRef90_R7NUD0
UniRef90_R5RVF2
UniRef90_R6TYR1
UniRef90_C4SNF3
UniRef90_D5EMH8
UniRef90_UPI00047178F6
UniRef90_UPI0003640ED1
UniRef90_R5TUQ2
UniRef90_B9K9U2
UniRef90_X0TX25
UniRef90_B9Y505
UniRef90_R6C127
UniRef90_U2TB19
UniRef90_M5T160
UniRef90_UPI0003F7A1AF
UniRef90_R7P1D3
UniRef90_E0MRC2
UniRef90_E0SRG6
UniRef90_X0W4V4
UniRef90_R5FJZ3
UniRef90_M5U5Y0
UniRef90_N9X7S4
UniRef90_G5HH13
UniRef90_X1I8K2
UniRef90_X1UWB4
UniRef90_UPI0001E89B8F
UniRef90_X1HL77
UniRef90_D4KF99
UniRef90_L0A7B5
UniRef90_UPI000365B477
UniRef90_W0J0N3
UniRef90_D7AYL1
UniRef90_R7EP50
UniRef90_W0FSC6
UniRef90_F8EZH5
UniRef90_UPI0003B4C9FE
UniRef90_M9WC15
UniRef90_V4J7Y9
UniRef90_H9UCS5
UniRef90_R6ENU3
UniRef90_R2XKF3
UniRef90_S4MVL5
UniRef90_K2LLH5
UniRef90_J9H8L0
UniRef90_R5MM45
UniRef90_A9D841

UniRef90_C0CRX6
UniRef90_D5E1S9
UniRef90_R6Z9A5
UniRef90_R6PXC8
UniRef90_R6UVN8
UniRef90_UPI00035CB97B
UniRef90_UPI0003B30B08
UniRef90_A5ZYS9
UniRef90_UPI000347D04B
UniRef90_D1CGS1
UniRef90_X1NI66
UniRef90_U1XLH8
UniRef90_UPI0002490382
UniRef90_UPI00037C4DDB
UniRef90_UPI0003F93089
UniRef90_G5IK04
UniRef90_UPI00034C87D1
UniRef90_R6SRW2
UniRef90_F7KZ24
UniRef90_U2CSL4
UniRef90_X0UMV6
UniRef90_R5CH66
UniRef90_E4QDA7
UniRef90_D4J110
UniRef90_B5I5B1
UniRef90_UPI0002E11C1A
UniRef90_UPI0002555789
UniRef90_R5BIZ4
UniRef90_D7BV12
UniRef90_A0A015KP29
UniRef90_UPI000262699B
UniRef90_UPI00047C550D
UniRef90_UPI00016C0C52
UniRef90_F0KDK6
UniRef90_G8QU46
UniRef90_UPI0002F8E5EC
UniRef90_R6T8U2
UniRef90_UPI0004760D09
UniRef90_UPI0003783CEB
UniRef90_G8QTE5
UniRef90_M1LSY4
UniRef90_R5W7H2
UniRef90_J9FB81
UniRef90_F2JLH0
UniRef90_UPI00046F0D2E
UniRef90_R6F399
UniRef90_W7SKG1
UniRef90_B8E206
UniRef90_R7PD99
UniRef90_D4JQN0
UniRef90_UPI000425D4B6
UniRef90_UPI000464F203
UniRef90_R6N2T7
UniRef90_R6NMF7
UniRef90_G4KW82
UniRef90_UPI0003693F5F
UniRef90_UPI00040F744A
UniRef90_I0XA16
UniRef90_R5J500
UniRef90_B8I294
UniRef90_W0FQI9
UniRef90_X1QXG3
UniRef90_W0IC96
UniRef90_J9CYJ1
UniRef90_D4MZB7
UniRef90_F8N9C7
UniRef90_D4MOK3
UniRef90_R7EU61
UniRef90_U2BLA4
UniRef90_U2CAB6
UniRef90_E7GU45
UniRef90_UPI00036A4FD5
UniRef90_B0NG78
UniRef90_UPI00047CACE9
UniRef90_UPI0003B34F26
UniRef90_C6VYI9
UniRef90_UPI00035D530B
UniRef90_E1QV51
UniRef90_B1R1H2
UniRef90_G8LWB4
UniRef90_R6XP35
UniRef90_R7JAE3
UniRef90_R6FGI6
UniRef90_C6LF82
UniRef90_R6VTR4
UniRef90_R7BL74
UniRef90_F7M3Y9
UniRef90_UPI00036FDA67
UniRef90_C4U771
UniRef90_D4JAL4
UniRef90_R5WZZ9
UniRef90_UPI0003B4358F

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

UniRef90_C0CRX6 A K A S L E Q R 50 E I T V A E G A K V V W D A A D A I D V C K E L R 80
UniRef90_D5E1S9 V A E I Y R Q K M E W L K G N C S T V I A P E Q I V T S V E E L Q G F L D S I K
UniRef90_R6Z9A5 Q T F K T M I P D S V E L I D G G I V T T K E L A Q Q A G D K F R
UniRef90_R6PXC8 Y G A D L Y E C P I C V E T E L D A K K A V E D V K
UniRef90_R6UVN8
UniRef90_UPI00035CB97B V V G P S E L V M T V D D V A A V Q
UniRef90_UPI0003B30B08 Y A D K Y D A K D I Y E C P I T I I E S E I D M V N A L E D V K
UniRef90_A5ZYS9 I E K R L S E W G E V F N F G M V D T E E K G R E A G E F F N
UniRef90_UPI000347D04B L A E G L S E V A E W T V A P P V R G R E D A E R A I R G F E
UniRef90_D1CGS1 V V S A G L V D T A P A A Y E A G R L F S
UniRef90_X1NI66
UniRef90_U1XLH8 L I A A I E K L G R K A A G H A I D P K T G H G F L T T Q K Q G E V F S
UniRef90_UPI0002490382 E Y D L V A P K S A L G D P T E L G E F L S S I Q
UniRef90_UPI00037C4DDB V S E R F R D M D A E V T D V G F L S D A Q E G A A A E R L R
UniRef90_UPI0003F93089 V S D A Q E G A A A E R L R
UniRef90_G5IK04 E R D V D A V V E R M K
UniRef90_UPI00034C87D1 V A S S L E G V A E V T A A P P V R G R E D A E A T V R R F E
UniRef90_R6SRW2 F K K T L P D T V E I I D G G M V T T K E Q S M V A G D K F R
UniRef90_F7KZ4 V V A A Y K E K Y G D G L Y E C P V C I E N E I D M R K A L A D V K
UniRef90_U2CSL4 V S D V N A A S E L F K
UniRef90_X0UMV6 A E E I L K G A V K Y L E E S E L E V N A Y G K I V W S P S D A F K A V D C F L
UniRef90_R5CH66
UniRef90_E4QDA7 V Y N Y G L V D D E K V A R Q A G E W F N
UniRef90_D4J110 E D F K A S I P D T V E I I D G G V V T T K E Q S Q A A G D L F R
UniRef90_B5I5B1 V S D A Q E G A A A E R L R
UniRef90_UPI0002E11C1A Y Q A R I R D R M E R D A G V Q V A D A G M V D S P A R A L E A A S L F A
UniRef90_UPI0002555789 C A K Q G V S V Y E A K T T V E N E K D A L K A V D E V K
UniRef90_R5BIZ4
UniRef90_D7BV12 V T E R M R E F D A E V V D V G F I S D A Q E G A V A A E K L R
UniRef90_A0A015KP29 V V N Y G L V D T E A E G R K A G E W L N
UniRef90_UPI000262699B V A E R L S G M D C E V V D A G F V S D E R E G A A A E K L R
UniRef90_UPI00047C550D L A D E A E V Y N Y G L V D T E D E G R A A G E W F N
UniRef90_UPI00016C0C52 Y N G E I F E C I F P D E M L L S M D S L E K F L A K I S
UniRef90_F0KDK6 E V I V P E E P L L T L A K L N A F L D
UniRef90_G8QU46 E V V E P E N I I T S P E E L E A F L S T V D
UniRef90_UPI0002F8E5EC
UniRef90_R6T8U2 V E E R L R G A G R D I I S F G L V D G P K R A F A V G H E A R
UniRef90_UPI0003783CEB V A E R L S G M D C E V V D A G F V S D E R E G A Q A A E R L R
UniRef90_G8QTE5 T A E A D S M V S D C G K F A E V V F P G L V F T R E D A V S A I K T F T
UniRef90_M1LSY4 V V E A Y K K T Y G D I Y E C P T A I E N E K H M L K A L I Q E V K
UniRef90_R5W7H2
UniRef90_J9FB81 V V A A Y K G E I Y E C P T V V E T E K D M E K A L T E V K
UniRef90_F2JLH0 V I N V G M V D T P E K A R Q S A M F L K
UniRef90_UPI00046F0D2E
UniRef90_R6F399 S A E Y V S E R I A G Y D A D I I D V G F I S D A Q E G A V A A E R L R
UniRef90_W7SKG1 E L I Y S P S L I E D P F I L Q K I L E E W Q
UniRef90_B8E206 L V E A Y K A K Y D A A E I Y E C P V C I V E S E I H M V Q A E D I K
UniRef90_UPI00037PD99 G V D V F K C P T T I E S E T H M M Q A L E D I K
UniRef90_D4JQN0 Y K K L Y N D V D V Y E C P V C I I E S E T Q M V E A L E D I K
UniRef90_UPI000425D4B6 Y K E K Y P A E D I Y E C P I C I V E S E I H M V Q A L E D I K
UniRef90_UPI000464F203 A R K L R E E K E I I G E F Q K I G E I V T P G I V Y E R E D V T K A I D L F F
UniRef90_R6N2T7 V V E A Y K K N F S G E I F E C P T V V E S E T D M L K A K E L R
UniRef90_R6NMF7 A L S E R R R H A I A Q A Y E L Y E C P V C V E T E A D A K A V E D V K
UniRef90_G4KW82 V T E R L R E L G C E V V D A G F I A D P Q E G D R A E R L R
UniRef90_UPI0003693F5F Y T Q K Y D A K D I Y E C P I T I I E S E I D M V N A L E D V K
UniRef90_UPI00040F744A F A G K G E L Y E A K T T V E N E K D M L K A V E E V K
UniRef90_I0XA16
UniRef90_R5J500 C A E K G V E I V Q A D T V V T E N E V D P N A L K E L K
UniRef90_B8I294 E A Q Y A D F K K R I P G S V E L I D G G I V T T K E K A V A A G D A F R
UniRef90_W0FQI9 A K E I V Q R L S R F L V P V C K G V L F S E N E A K N A E E I R
UniRef90_X1QXG3 V A S K L E R P G V E V V N L G L V D T P E K A V D A G H L F R
UniRef90_W0IC96
UniRef90_J9CYJ1 L I K A K E K Y D P E D I Y E C P V C I V E S E I H M V Q A E D I K
UniRef90_D4MZB7 T T V E N D A D M Q K A L D E V K
UniRef90_F8N9C7 R K A L I D A T K K Y G E G T V Y E C P I C I V E S E I H M V Q A L E D V K
UniRef90_UPI00044M0K3 V R K D A E A A A Y I N K I Q E F A D V V Y P G P V W E R D G A E R A A R L F Y
UniRef90_R7EU61 I A E M D A E V F F Y G L A D C E E A E S C G E F F N
UniRef90_U2BLA4
UniRef90_U2CAB6 S G V D A Y N C P T T V E N E K D M E K A L E E V R
UniRef90_E7GU45 V A E R M R G L G A E V V D A G F V S D A E E G A V A A E K L R
UniRef90_UPI00036A4FD5 Y Q E K Y G E E G I Y I V E S E I H M V Q A L E D T R
UniRef90_B0NG78 C S Q K S I D I F E A K T T V E N E K D V L K A L D E L K
UniRef90_UPI00047CACE9 Y K E K F D A K D I Y E C P I T I I E S E I D M Q N A L E D I K
UniRef90_UPI0003B34F26 V A E R L G G Y G A E I V N L G L I D T P E K A L A A G H Q F R
UniRef90_C6VYI9 V A D W T V G R P A D A E E V M R E F V
UniRef90_UPI00035D530B
UniRef90_E1QV51 F D G E I F E C E T T V E N E I H M R K A L D E V R
UniRef90_B1R1H2 V V E A Y R K K Y G E G D I Y E C P I C I V E S E I H M V Q A L E D I K
UniRef90_G8LWB4 L V E A Y Q A K Y D E A D I Y E C P I C I V E S E I H M V Q A L E D I K
UniRef90_R6XP35 Q E H V C V V D G G M V D E P E K A I T V A V E L E
UniRef90_R7JAE3
UniRef90_R6FGI6 Y K A K Y D E K N I Y E C P I C I V E S E I H M V Q A L E D V K
UniRef90_C6LF82 Y A A K Y D A E D I Y E C P I C I V E S E I H M V Q A L E D I K
UniRef90_UPI00036VTR4 Y A K K Y D S K D I Y E C P V C I V E S E I H M V Q A L E D I K
UniRef90_R7BL74 Q E K I K A G I E K M D V E V V N V G M V D S L Q K A N E S A A L L K
UniRef90_F7M3Y9 L R E S V R Y V T G R F Q E L V D A G F I S D A Q E A A A G E K L R
UniRef90_UPI00036FDA67 W K T L S A M D I E L I G Q P A L Q F D A E S A L Q A L P A L K
UniRef90_C4U771 Y T E K Y G T E G I Y E C P V C I V E S E I H M V Q A E D I K
UniRef90_D4JAL4 M V D T E E K G R A A G E F F N
UniRef90_UPI00036R5WZZ9 L V A A Y T K K Y G A D E I Y E C P I C I V E S E I H M Q A L E D I K
UniRef90_R5WZZ9
UniRef90_UPI0003B4358F

UniRef90_C0CRX6 K Q E I D S L T I L L S T W V T D S L L Y V L V H E L P V P V W A V P Y T E T F 120
UniRef90_D5E1S9 G N K I D T V L Y Q S V T F A D G E F M V K I L L E Y F P V I V W S V R E N T P S V G
UniRef90_R6Z9A5 A A D V D L V I L Q L L T Y A Y N M L P A V R D L D V P V V L V N Y E N T D T A
UniRef90_R6PXC8 A A G V D A L V V F L G N F G E T P E T M I A D M D G P L M Y T C A A E G D
UniRef90_R6UVN8 D S I L V I C L A G W I P S H A V I K I T R H I P M V L W G L C G T E D G
UniRef90_UPI00035CB97B L P H A D L H L I F M A S F S D A S E T A V E L L G K V K G P V L V G W S M R E P
UniRef90_UPI0003B30B08 K N G C E A L C V F L G N F G E I S E T L L A K H D G P K M F C A L M D M R G R D
UniRef90_A5ZYS9 K N N V D I V F S H A A T Y Y A S A T V L P V H Q I P V I I L N L Q G T D R W
UniRef90_UPI000347D04B G Q G L D G V L V V M L T Y G P S L R V L T E T R L P V A L A N T P D P
UniRef90_D1CGS1 R E M V D L L V C Y T A T Y A T S S Q V I V Q E R R V P V V V L N L D T G E W L
UniRef90_X1NI66
UniRef90_U1XLH8 I L D R D A P L I V A A V W Q Y S Q L A G L I A H R G P I L T V A N W S G T Y P
UniRef90_UPI0002490382 N T S V A G I I F V A N T T F T D A E F I L M V H R Y Y P I L L L A P R E P S I H
UniRef90_UPI00037C4DDB K N E C D K I F L F Q T T F T D A K F I L N F A K D V P I C I V S F P E P R T G
UniRef90_UPI0003F93089 K A D C D L I V M F L T T Y L T A S M V I A Q R S G A P V L V A T F G T G D W L
UniRef90_G5IK04 Q E K V D A I F L I T N G N F G S E E V A A E L G K P V L L W G P R D E A T D
UniRef90_UPI00034C87D1 D E G L D G V L V V M L T Y G P S L R V A R L F Q H M R L P V C L A N T D R W
UniRef90_R6SRW2 A A D V D L V F L Q M L T Y A T S Y N V L T R D L D V P V V I V N V Q K T D I P
UniRef90_F7KZ24 E A G C N A I V V Y L G N F G P E T L I K E F D G P A M V V A A A E E T G D
UniRef90_U2CSL4 N K K V D A V F F P F C N F G S E E A V A K M A R E V P V L V W G P R D P D R D
UniRef90_X0UMV6 K N Q P D L L V M L H V T W V S D S L I F L N N I K C P F V L W G V P Y P E T F
UniRef90_R5CH66 D F S I L F I A T G G V I E R L V I Q H F E Q L P R P T I L L A D G M Q N
UniRef90_E4QDA7 S K N V D I I F C H S A T Y C T S S C V L P V H Q K A P V T I L N L Q P T E W L
UniRef90_D4J110 A A D V D L V F M Q L T T Y A Y N M L P A V K D L D V P V V L V N L Q K A E W L
UniRef90_B5I5B1 L V D C D L V L F L T T Y L T S S M V I A Q R T N T P V L V V S F D T G D W L
UniRef90_UPI0002E11C1A R E Q V D L V F L M A T Y C L I S S T I L V V Q R L N C P V V V L N L Q P T A
UniRef90_UPI0002555789 S A G C N A L I V F L G N F G P E T T L I A R F F S G P V M Y A A A T E E T
UniRef90_R5BIZ4
UniRef90_D7BV12 A A D C D L I V G F L T T Y M T A T L V P I A Q R S G A P V L L I N L Q P T E A
UniRef90_A0A015KP29 E R N V D L V L C H A A T Y C T S S A V L P V H Q I N P V V F L N L Q P T D R I
UniRef90_UPI000262699B V A D C D L I F L T T Y L T S S M L A P V A Q R S G A P V L L L N L Q P T E A
UniRef90_UPI00047C550D R H N V D L I F C H S A T Y S T S S T V L P V H Q K A P V V V L N L Q T G E W L
UniRef90_UPI00016C0C52 P K L V V V Q N V T E A N A A Y I T E T L K K F D C P V L L W T L R E P V I D
UniRef90_F0KDK6 S A G V N A L V V Y L G N F G P E T I A K E F D G P V M F A N L V N G R G D
UniRef90_G8QU46 A N N P D F V I V Q N I T F A Y V S E V L A R F T C P L L L W T L T E P A R L
UniRef90_UPI0002F8E5EC C D S I V T T I Y Q S V T F A D G E F I L S V I S R V P V V V W S V R E P S V G
UniRef90_R6T8U2
UniRef90_UPI0004760D09 A Q D V D M L V I Y V A T Y A L P V L V L N L Q P A P A V D Y S A F N A P D R T
UniRef90_UPI0003783CEB V A G C D L I I G F L A T Y T S S M L V P V A Q R S G A P V L L L N L Q P T E A
UniRef90_G8QTE5 K E D V D Y V L C V F L S W A W N R F L R D M P P I P I L Y A T S D D D E Y G
UniRef90_M1LSY4 E A G V N A L V V Y L G N F G P E T L A K E F D G P V M F A N L I G G R G D
UniRef90_R5W7H2
UniRef90_J9FB81 F V I Q Q F E L L P R P T I L L A D G Q Q N
UniRef90_F2JLH0 A A G C D G L V V Y L G N F G P E T E E T L I A K Y F D G P V M Y V A A A E E T
UniRef90_UPI00046F0D2E Q A D V E V V F L F I S T Y A L I S S T I L P V A Q V V G K P I V M L N T G E W L
UniRef90_R6F399 N E P I R L
UniRef90_W7SKG1 I A G C D L I V G F L T T Y M T A T M L M P I A Q R T G S P V L L I N L Q P S P
UniRef90_B8E206 D K I D F L L F Q T T F A G G F L E I L A K S D L P V I F W A L P E L E I K
UniRef90_R7PD99 K A G C N A L C V Y L G N F G P E L L A K H F D G P K M F V A A A E E G R G D
UniRef90_D4JQN0 G A G C N A L V V Y L G N F G S A E T L L A K Y D G P V M F V A A A E E T Q D
UniRef90_UPI000425D4B6 K E G C N A L C V Y L G N F G P E I L A K H F D G P V M F C A L Q D G R G D
UniRef90_UPI000464F203 K A G C N A L C V Y L G N F G P E I L A K H F D G P K M F V A A A E E G R G D
UniRef90_R6N2T7 T R K V D C V A A A Y L S W A W I R F L R D M P P D R V I E I T D T N D E D E F G
UniRef90_R6NMF7 E A G C N A Q I V Y L G N F G P E T L V K A F H G P S M V V N L V Q G R G D
UniRef90_G4KW82 T H G V N A L C V F L G N F G E T P E T M I A D L F A G P M M Y T L H D G R G D
UniRef90_UPI0003693F5F A A G C D I I V A F L A T Y L T S N M L M R S G A P V L L L N L Q P T E Y C
UniRef90_UPI00040F744A K N G C N A L C V Y L G N F G P E I L A K H F D G P K M F C A L M D G R G D
UniRef90_I0XA16 K A G C N A L V V F L G N F G P E T I A Q N F D G P C M F V A L I N G R G D
UniRef90_R5J500 R L V I Q H F E S L P R P A I L L A D G M Q N
UniRef90_B8I294 D A D A N A L V V Y L G N F G E G P E T M L A Q K D G P V M F V N L K G G R G D
UniRef90_W0FQI9 A A D V D L V I L Q L T Y A Y N M L P A V R D L D V P V V L V N L Q N T D T A
UniRef90_X1QXG3 T A N V D G I I V A P L M W C E D R A A L K V L P N F P I V V C T F F P S E G S
UniRef90_W0IC96 Q A D V D I I F L I T T Y A L I S S T V V R R A K V P V I I L N L Q P A
UniRef90_J9CYJ1 S I L F I A T G G V E R L V I Q H F E Q L P R P A I L L A D G M Q N
UniRef90_D4MZB7 K A G C D A L V V Y L G N F G E I S E T L L A K H D G P K M F V N L L D G R G D
UniRef90_F8N9C7 A A G C N A L V V F L G N F G P E T I A Q K F D G P C M F V A A A E E G D G D
UniRef90_D4M0K3 K A G C N A L V V Y L G N F G E I S E T L L A K H D G P K M F V N L L T G R G D
UniRef90_R7EU61 N E G V D C V A A G F L S W A F L R E L P Q M P L F F M L A I T D T N D E D Q G
UniRef90_U2BLA4 A K N V D L I F A H A G T Y V N S S S V L P I H Q K A P V I L L N L Q P T A R I
UniRef90_U2CAB6 L V M Q Q F E H L P R P A I L L A D G M Q N
UniRef90_E7GU45 K A G C N A L V V Y L G N F G E T P E T L L A K Y F T E G P V L C N D R G D
UniRef90_UPI00036A4FD5 A A G C D L I V G F L T T Y M T A T M L I A Q R A D A P V L L I N L Q P T E Y C
UniRef90_B0NG78 K A G C N A L A V Y L G N F G P E L L A K H F D G P K M F L S L L D G R G D
UniRef90_UPI00047CACE9 Q A N V N A L V I Y L G N F G E G P E T M L A Q R F D G P A M Y N L I D G R G D
UniRef90_UPI0003B34F26 K A G C N A L C V F L G N F G E I S E T L L A K Y F G P K M F C A L M D G R G D
UniRef90_C6VYI9 R E D V D L I F L Y V T T Y A L P V I V L N L A P E A I D Y Q R F N A G E W L
UniRef90_UPI00035D530B N A D L D G V M V V L L I T Y G R V A R L F N E N R L P V L L A N I Q P E P
UniRef90_E1QV51 P
UniRef90_B1R1H2 Q A G V N A L V V Y L G N F G P E T T L L A K E F G G P V M F V S A A E E A
UniRef90_G8LWB4 K A G C N A L C V Y L G N F G E I S E T L L A K H F G P K M F I A L S D G R G D
UniRef90_R6XP35 K A G C N A L C V Y L G N F G P E I L A K H F D G P K M F V A A A E E T G D
UniRef90_R7JAE3 R K S I D V L L V Y I S T Y A L I S S T V L P L V I Q R L K V P V L L L N I Q P T P
UniRef90_R6FGI6 R L V I Q H F E S L P R P A I L L A D G M Q N
UniRef90_C6LF82 A A G C N A L V V Y L G N F G E I S E T L L A K H F G P K M F I A L V G G R G D
UniRef90_R6VTR4 K A G C N A L C V Y L G N F G P E I L A K H F D G P K M F V A L G I G R G D
UniRef90_R7BL74 K A G C N A L C V Y L G N F G P E I L A K H F D G P K M I A T L S S N R G D
UniRef90_F7M3Y9 Q A D V E L I F L F I S T Y A L I S S T V L P V A Q V G K P V V M L N M Q P V P
UniRef90_UPI00036FDA67 V A D C D L I V M V L P I A Q T P V L V I D L Q P T E A M D H A N F D T G K W L
UniRef90_C4U771 Q A N L D L L L I L Q V T F T D A S I L T V V R D F P V P T A M W S F P E A R T G
UniRef90_D4JAL4 K A G C N A L C V Y L G N F G P E I L A K H F D G P K M F L N L D G R G D
UniRef90_R5WZZ9 K N N V D I V F S H A A T Y V L P V H Q I N K A P V V I L N L Y E I T G T D R W
UniRef90_UPI0003B4358F K N G C N A L C V Y L G N F G S E T L L A K H F G P K M F A A A E E T S K D

UniRef90_C0CRX6 S I G C I Q H F G S A L T T H G I P Y E Y V Y G L T D D A K A A D K A 130 140 150 160
UniRef90_D5E1S9 G R L R L N S L T G G L R N H Q H P F A F V F G N P D E K A L Q
UniRef90_R6Z9A5 K W L G E L Y A C G A L L E R A G K R H A V I T G V V E G G D P V V Q
UniRef90_R6PXC8 G D L M N G R G D A Y C G M N A S Y N L G L R G K K V Y I P E T A E E V A
UniRef90_R6UVN8 G R L G T S A L R A V F D R L G Y I F T Y V Y D I I G L P S G A
UniRef90_UPI00035CB97B G A V G M C G V N A A H A L M R G Q S I R H I H G N A D E P Q V R T A I K D A L A
UniRef90_UPI0003B30B08 A Y C G M L N A S Y N L A L R N T K A Y I P E Y P V G D A E D C A D M I
UniRef90_A5ZYS9 L A Q C V G C S S N A F N R A G I T F R A V N G L D F A K A D E V T C P E A D V R
UniRef90_UPI000347D04B A V I S A S W M D M T Y N G I H G R A G V D F D V I T G S P D F V
UniRef90_D1CGS1 A N C S A C C V S C A F E R S G I D F N V V S G M L F D D E E A W
UniRef90_X1NI66 G L H N S L A A L K Q K G K K V E I I H G S S E Y I A
UniRef90_U1XLH8 G L V G L L N L N G S L T K A G V E Y A S L W S E D F T D Q W T G K I A S H D T
UniRef90_UPI0002490382 G W L R L N A L T G I L V S Q H H D F E H I Y G N P E E P V V Q
UniRef90_UPI00037C4DDB G R C G L N L A M H S L I K N N I P Q F I I M E D D S K K L S F S Q F I E S N N
UniRef90_UPI0003F93089 A Y C G Q C A V I G N V F R R A G I P F R S V S G H L E Q E S A W T R I
UniRef90_G5IK04 S Q C G L F G M S R Q L R R L N I P F T Y I E N C R M E E D M F A
UniRef90_UPI00034C87D1 G M A E M T Y N Q G I H G A Q D T A N A M V A G L P F D V V I T E D R G S P A F R
UniRef90_R6SRW2 K W L G E L Y A C G A L L E R A G K R H A V I T G V V E G G D P Y V A
UniRef90_F7KZ4 N L V A Y C G V L N A S Y N L K L R N L K A Y G T A S E C A D
UniRef90_U2CSL4 A Q C G M F A L T K V L Q Q F R V K Y T Y T S N C W M T D K K F D
UniRef90_X0UMV6 S I G C V Q H F G S L L W E H G Y Q E Y V G L P Q D V T L L
UniRef90_R5CH66 S L A A A L E I S S W L R N R T R G M R S E I L H G E L T E I I K R L L
UniRef90_E4QDA7 A H C G A C P V A N A F N R A N I R F K V V N G L L G Q S A T D E N T A H R P E
UniRef90_D4J110 G A Y A C G A V G A D L N R Y G K R S A V I T G V V E G G D A A V A
UniRef90_B5I5B1 A Y C S Q C S V G N V F R R A G I P F R S V S G W L R Q E S A W
UniRef90_UPI0002E11C1A I D Y E R L N A L G D R G R M T G M W L A N C Q A C S A P E I A S V L A
UniRef90_UPI0002555789 G K D L A N G R G D A Y C G M N C S Y N L G L R K L K A V I P E T A D D I A
UniRef90_R5BIZ4 L N R A G W N G E I L H G S A E E I A L R L R G G F M
UniRef90_D7BV12 G A C P L P E M A N A F E R V G V P F R S V S G L E D Q R A W D
UniRef90_A0A015KP29 G A C P V P E F A N A F N R A A I P F R V V N G L L G M D T Y D R K E A I R A W
UniRef90_UPI000262699B G A C P L P E M A N A F R R V G V E F R S V S G Y L E D E R A W
UniRef90_UPI00047C550D A H C G A C P V I S N A F N R S G I P F R V V N G A D E Q T S G R P E A K R A W K
UniRef90_UPI00016C0C52 G T G A Y S A G N A L N F R E G N F E Y I F G S P E E P E Y P V G T A S D V A
UniRef90_F0KDK6 A Y C G M L N A S Y N L A L R N I N A Y I P E Y P V G T A S D V A
UniRef90_G8QU46 R L N S L T G A Y S A A N T M M L D F L Y V L G G P E D T S V I A K V G
UniRef90_UPI0002F8E5EC G R L R L N S L T G G L R S E N H S Y S F V F G N A P E D D I V R K L K A G Y S
UniRef90_R6T8U2 L N R N G Y P G E I I H G N T D D I V R K L K A G Y S
UniRef90_UPI0004760D09 A M T G I A N V F A R C G I P F H Q V N G S L E G D E A C W R E I D
UniRef90_UPI0003783CEB G A C P L P E M A N A F R R A G V E F R S V S G Y L E D E R A W T R I S
UniRef90_G8QTE5 G L V G S L E A S G D N I R Y N R P M F T V L G T W S E
UniRef90_M1LSY4 A Y C G M L N A S Y N L A L R N I K A Y I P E Y P V G T A S D V A
UniRef90_R5W7H2 I Q S R D M K V K I I H G S V I P N M V
UniRef90_J9FB81 S L A S A L E I A T W L R V R G L K S E V L H G E L P A L I Q R I Q
UniRef90_F2JLH0 G K C G M L N A S Y N L K L R N L K A Y I P E Y P V G T A N E V A
UniRef90_UPI00046F0D2E A H C Q A C S V I A S V F N R A G I K Y I V T G Y L S D E S V W
UniRef90_R6F399 L T S G K S N S L A A L R N R N G Y P G E I I H G N T E E I V G K L E
UniRef90_W7SKG1 G A C P L P E M A N S F T R A G I Q Y R S V S G H L R D E R A W
UniRef90_B8E206 G N L K W N S L C S L N F F A S L I K K F N P K K K F D Y T F P E E E N
UniRef90_R7PD99 A Y C G M L N A S Y N L A L R N I K A Y I P E Y P V G D A E D C A D M I
UniRef90_D4JQN0 N L V G Y C G V L N A S Y N L A L R N I K A Y I P E Y P V G T A T E V A
UniRef90_UPI000425D4B6 A Y C G M L N A S Y N L K L R G V K A Y I P E Y P V G T A D E C I
UniRef90_UPI000464F203 A Y C G M L N A S Y N L K L R N I K A Y I P E Y P V G D A A D C A D M I
UniRef90_R6N2T7 S L V G V Q E A S G D L Q R F H R P M T H T F I G T M E Q V K
UniRef90_R6NMF7 A Y C G M L N A S Y N L K L R N L N A Y I P E Y P V G T A E E I A
UniRef90_G4KW82 A Y C G M L N A S Y N L G L R G R R V Y I P D Y P G T A E D V A
UniRef90_UPI0003693F5F G A C P L P E M V N A F R R C G V E A R C V S G Y L E E P A A W
UniRef90_UPI00040F744A A Y C G M L N A S Y N L A L R N T K A Y I P E Y P V G T A D E C A D M I
UniRef90_I0XAi6 A Y C G M L N C S Y N L S R K I P A I I P E Y P V G T A E D I V
UniRef90_R5J500 S L A A A L E I S S W L R N R G M K S E I L H G E L P S I I K R I Q
UniRef90_B8I294 A Y C G M L N A S Y N L A L R K N H A Y I P E Y P V G D P Q D V A D M I
UniRef90_W0FQI9 T W L G E L Y A C G A L L E R A G K R H A V I T G V V E G G D P E A D
UniRef90_X1QXG3 G L V G N L Q M S G L L K R E G Y L Y Q S V S G Y H R D P E V Y E E I K
UniRef90_W0IC96 G A I D Y A S F N A L G N R T A M T G E W L A H C A A C P V P E I A N V I D
UniRef90_J9CYJ1 S L A A A L E I S S W L R N R T R G M K S E I L H G D L N N I V K R I F
UniRef90_D4MZB7 A Y C G M L N A S Y N L K L R N I K A Y I P E Y P V G T A E E C A D M I
UniRef90_F8N9C7 G D A Y C G M L N C S Y N L G M R H L K S Y I P A Y P V G T A D D I A
UniRef90_D4MOK3 A Y C G M L N A S Y N L K L R G V K A Y I P E Y P V G T A E E C A D M I
UniRef90_R7EU61 A L V G F Q E A S G S F R R F D R P M S D M A I G T L D T V V
UniRef90_U2BLA4 G A C P V P E L S N A F H R S G I S C H I I N G D I S L T N E N T A A R P E A V
UniRef90_U2CAB6 S L A A A L E I S A W L R M R G M R S E I L H G A P T S V I E R I H
UniRef90_E7GU45 A Y C G M L N C S Y N L A L R N I R A Y I P P Y P V G T P E E V A
UniRef90_UPI00036A4FD5 G A C P L P E M A N A F A R C G I P F R S V S G Y L E D E R A W
UniRef90_B0NG78 A Y C G M L N A S Y N L K L R N I K A Y I P E Y P V G D A G E C A D M I
UniRef90_UPI00047CACE9 A Y C G M L N A S Y N L G L R K L P Y I P E Y P V G T A D E I A
UniRef90_UPI0003B34F26 A Y C G M L N A S Y N L A L R N I K A Y I P E Y P V G D A A D C A
UniRef90_C6VYI9 A Y C S A C P V A N V F R R A G I P F Y Q I T G T L N S D P E V W
UniRef90_UPI00035D530B Q V T A A W D M A D M T Y N G I H G R A F E V I T D D W R A P A F A
UniRef90_E1QV51 G L N S L A S A L A L L S E V G I D S G L L H L K D L
UniRef90_B1R1H2 G Y C G M L N A S Y N L A L R N I K A Y I P E Y P V G T A D E V A
UniRef90_G8LWB4 A Y C G M L N A S Y N L K L R N H V K A Y I P E Y P V G T A E E C A D M I
UniRef90_R6XP35 N L V Y C G M L N A S Y N L K L R N V R A Y I P E Y P V G T A E E C A D
UniRef90_R7JAE3 C I D Y A Y L N G L G D R G L M T G E W L A N C Q A C S V P E F S N V F N
UniRef90_R6FGI6 S L A S A L E I S S W L R A R G M K S E I L H G E L T E I V K R I F
UniRef90_C6LF82 A Y C G M L N A S Y N L Q L R N V E G Y Y I P E Y P V G D A E D C A D M I
UniRef90_R6VTR4 A Y C G M L N A S Y N L K L R N V K A Y I P V G T A E E C A D M I H E
UniRef90_R7BL74 A Y C G M L N A S Y N L K L R N I K A Y I P E Y P V G N A E E C A D M I
UniRef90_F7M3Y9 A L N Y Q L N S M G D R G K M T G E W L A H C Q A C S V P E I R Y D I V
UniRef90_UPI00036FDA67 A Y C G C E S V I A N V F R R A G I E F R S V S G H L K Q E S A W
UniRef90_C4U771 G R L R L N S F C G A L S R E N I K L Q T I H G L P D D A R V V
UniRef90_D4JAL4 A Y C G M L N A S Y N L Q L R N I K A Y I P E Y P V G D A E E C A D M I
UniRef90_R5WZZ9 L A Q C V G C S S N A F N R A G I S F L G L Y E T P T F A R S D E A T E K R P E
UniRef90_UPI0003B4358F G G C G M L N A S Y N L K L R N I K A Y Y P V G T A E Q C A D M I H E

UniRef90_C0CRX6
UniRef90_D5E1S9
UniRef90_R6Z9A5
UniRef90_R6PXC8
UniRef90_R6UVN8
UniRef90_UPI00035CB97B
UniRef90_UPI0003B30B08
UniRef90_A5ZYS9
UniRef90_UPI000347D04B
UniRef90_D1CGS1
UniRef90_X1NI66
UniRef90_U1XLH8
UniRef90_UPI0002490382
UniRef90_UPI00037C4DDB
UniRef90_UPI0003F93089
UniRef90_G5IK04
UniRef90_UPI00034C87D1
UniRef90_R6SRW2
UniRef90_F7KZ24
UniRef90_U2CSL4
UniRef90_X0UMV6
UniRef90_R5CH66
UniRef90_E4QDA7
UniRef90_D4J110
UniRef90_B5I5B1
UniRef90_UPI0002E11C1A
UniRef90_UPI0002555789
UniRef90_R5BIZ4
UniRef90_D7BV12
UniRef90_A0A015KP29
UniRef90_UPI000262699B
UniRef90_UPI00047C550D
UniRef90_UPI00016C0C52
UniRef90_F0KDK6
UniRef90_G8QU46
UniRef90_UPI0002F8E5EC
UniRef90_R6T8U2
UniRef90_UPI0004760D09
UniRef90_UPI0003783CEB
UniRef90_G8QTE5
UniRef90_M1LSY4
UniRef90_R5W7H2
UniRef90_J9FB81
UniRef90_F2JLH0
UniRef90_UPI00046F0D2E
UniRef90_R6F399
UniRef90_W7SKG1
UniRef90_B8E206
UniRef90_R7PD99
UniRef90_D4JQN0
UniRef90_UPI000425D4B6
UniRef90_UPI000464F203
UniRef90_R6N2T7
UniRef90_R6NMF7
UniRef90_G4KW82
UniRef90_UPI0003693F5F
UniRef90_UPI00040F744A
UniRef90_I0XA16
UniRef90_R5J500
UniRef90_B8I294
UniRef90_W0FQI9
UniRef90_X1QXG3
UniRef90_W0IC96
UniRef90_J9CYJ1
UniRef90_D4MZB7
UniRef90_F8N9C7
UniRef90_D4MOK3
UniRef90_R7EU61
UniRef90_U2BLA4
UniRef90_U2CAB6
UniRef90_E7GU45
UniRef90_UPI00036A4FD5
UniRef90_B0NG78
UniRef90_UPI00047CACE9
UniRef90_UPI0003B34F26
UniRef90_C6VYI9
UniRef90_UPI00035D530B
UniRef90_E1QV51
UniRef90_B1R1H2
UniRef90_G8LWB4
UniRef90_R6XP35
UniRef90_R7JAE3
UniRef90_R6FGI6
UniRef90_C6LF82
UniRef90_R6VTR4
UniRef90_R7BL74
UniRef90_F7M3Y9
UniRef90_UPI00036FDA67
UniRef90_C4U771
UniRef90_D4JAL4
UniRef90_R5WZZ9
UniRef90_UPI0003B4358F

UniRef90_C0CRX6 F S Q K F G P T L V H I E M E E I M E L A E G I S D K E A K K V Y G C L K K 210 220 230 240
UniRef90_D5E1S9 L K S A L G V T L H K M D L K E C V K L P E Q E W I G E V E R A E K Q V
UniRef90_R6Z9A5 L Y D R M W L Y T K Q F D W E K M W A I A D D V T D E A A I P R Q K A Q
UniRef90_R6PXC8 L Y R L G V A V E E H S E L D L L V A Y N K H K D D P R I P A K V E E
UniRef90_R6UVN8 L K K V T G V E I E E F E L E M V Q R K E K L N N S E I A Q T V S
UniRef90_UPI00035CB97B I F S T F G L G D I R Q Q T L D D A F G R I S E V K Q E A R E L A Y A
UniRef90_UPI0003B30B08 L Y N L G V E I E E N S E L D L F E S F K N H A G D A R I P E V V E D M K K
UniRef90_A5ZYS9 L Q A Q T G I D I E V L E M S D L D F A Y L K T V T E E E V Q E K L K E I Q D
UniRef90_UPI000347D04B L L R A R L G P E V H V I A P G T L H R A M A D L P S Q A V S D L L A W E D D
UniRef90_D1CGS1 I H A Q L G A H V E V L E M D D L K D R V L D A T P E E V R R K I E E A R E
UniRef90_X1NI66 V K E A L G I S L T D V E M D E L V K E I D R
UniRef90_U1XLH8
UniRef90_UPI0002490382 L K S H F G T T L K H Y E I D T A F D K A N L P K S E Y Q D Q L E Y A I N
UniRef90_UPI00037C4DD8 V K D K L N V S L V D I D L D L R H R V E Q V T D A E A A A R M D L A
UniRef90_UPI0003F93089 L P A T F G S H V E V L E F D D L R H R V E Q V T D A E A A A R M D L A
UniRef90_G5IK04 L M Q K F G I T V V P V N M A V V I E K F N R I L E E H D E E L E E G A K L L A
UniRef90_UPI00034C87D1 L L R H L G P E V V H I A Q G E L H R T M A A L I T E G E V A E L L E A E R G
UniRef90_R6SRW2 L Y N R M F L Y T K Q F D W E K M W A I A D H I T D E N A I R A K A E D I I N T
UniRef90_F7KZ4 L F N L G V E I E E N S E L D L F E A F N N H A G D E P E V V K D M E E
UniRef90_U2CSL4 L M E K F G I E I H P I T L A T L D E M L E N N H L V R E E V D S L K E R F P K
UniRef90_XOUMV6 F S K K F G P T L H I E M D E I L E R A K K Q
UniRef90_R5CH66 A K R R W G I E Y T D I P L E R V T E Y F N S I S D D E V G N A C A E L A E
UniRef90_E4QDA7 A Q A Q F G I H V E I L L E M C D L R F L E T V T D E E V E A K I K E I E E
UniRef90_D4J110 L Y R R M H V Y T K Q F D W E K I W A I A D D I T D E A V I K A K A E D I L D
UniRef90_B5I5B1 L S A T F G S H V E V L L E F D D L R H R V E K E A E T R E R V E L A R
UniRef90_UPI0002E11C1A Q S A V F G T H V E V L L E M C E L H A L R E R V T D A E A E F R A A F E
UniRef90_UPI0002555789 L Y D L G V E I E E N S E L D L L Y R A H K D D T R I P A V V K S M A D E L G
UniRef90_R5BIZ4 A K E R L G V E I V D I D I N E L V G L A E E P D R K W L
UniRef90_D7BV12 V T G N L G G H V E V L E F D D L R V R V Q V K D D E V A A K L A
UniRef90_A0A015KP29 I Q A Q T G L H V E V L E M C D L D R M F R N V T P Q D V K K L E E V Q Q
UniRef90_UPI000262699B V T A Q L G G H V E I L E D D L R V R V E K V T D D E T A A R M D L A
UniRef90_UPI00047C550D L Q A Q T G I H V E V L E M C D L D K L L S E V T E A D V Q R K L E E T R A
UniRef90_UPI00016C0C52 V A K Y F G S T L E E A R E L D K A K T F A D A E C A E N L V I E F E K
UniRef90_F0KDK6 L Y N L G V E I E E N S E L D L F A S F N E H
UniRef90_G8QU46 L L K T F S V R L E S I E V R E L M E K A R F K Q G E S D Q Y K T L M E E S T C
UniRef90_UPI0002F8E5EC L H K K L G P T V S Y F D L E E C V K L P R S R W E G M I E R A E K
UniRef90_R6T8U2 A K E K L G V E I I D I D I N E L V L S A E N L P D R K Y L E S L N L A L N
UniRef90_UPI0004760D09 V C N I F G V H I E Q V D E L S L L R D E A S E A A I Q Q Q L A I I R E
UniRef90_UPI0003783CEB V P A Q L G G H V E I L E T D D V R V R A E A V T E A E T A A R M L V R E
UniRef90_G8QTE5 F M K V G P E L H F L S V A L E R D T I E A I P D G E V A S V M E D L K R
UniRef90_M1LSY4 L Y N L G V E I E E N S E L D L Y A A F N A H K D D A P E V I A S M E K
UniRef90_R5W7H2 A G Q R W G V T Y T D V S I S E T V E K A F H E I T E D E I G P
UniRef90_J9FB81 T K R R W G I D Y I D I S L D Q V Y E K Y Q H I T D E Q V G A S C A A V A S
UniRef90_F2JLH0 L Y N L G I E I E E N S E L D L F E A F K K H D G D P A E V A K D M A
UniRef90_UPI00046F0D2E L S A T F G T H I E M L E M C E L K A L R D E V T D M E M N E K L K E F H E
UniRef90_R6F399 A K I R L G A E I I D I D I N K L V D M A K T P D R T L L K E L
UniRef90_W7SKG1 V N S Q F G H V E V L E F D D L R V R V E R V A E G E V D R K V S E A E Q
UniRef90_B8E206 L K S K F G I E I K N Y P S L D I I V E I I K S L D K N E L E K T K E E I K K
UniRef90_R7PD99 L Y N L G V E I E E N S E L D L F E A F N K H A G D E P G I V K E M E
UniRef90_D4JQN0 L Y N L G I E I E E N S E L D L
UniRef90_UPI000425D4B6 L Y N L G V E I E E N S E L D L F E A F N K H A D D E P E V V A D M E K
UniRef90_UPI000464F203 L Y N L G V E I E E N S E L D L F E A F N K H E G D E R I W E I V K E M E E E
UniRef90_R6N2T7 V F M K A G P E L R F L S V A Q L T E K I G S V P K G A V E E A V R G I E E
UniRef90_R6NMF7 L Y D L G V E I E E N S E L D L F E A F N K H A D D P P D V V K E M E
UniRef90_G4KW82 L Y D L G V A V E E H S E L D L L V A Y N Q H K D D P R I P A K V K E
UniRef90_UPI0003693F5F V P R T F G G H V E V L E I D D L R V R V E E V I G E G E T D A R V A Q A R E
UniRef90_UPI00040F744A L Y N L G I E I E E N S E L D L F E A Y Q K H E N D E A V A A D M A K
UniRef90_I0XA16 L Y D I G V E I Q E N S E L D L L V E Y R K H K D D K D E V V K D M A
UniRef90_R5J500 A K R R W G V E Y I N I P L E R V Y K I Y E R I N D N E V G A S C A A V A S
UniRef90_B8I294 L Y D L G V E I E E N S E L D L F E A Y N N H K D D P R I P A V V K E
UniRef90_W0FQI9 L Y H R M W L Y T K Q F D W E K M W A I A D D I T D E D A I R A K A Q
UniRef90_X1QXG3 I R K L Y G I E L K Y
UniRef90_W0IC96 Q S T A F G T Q I E V V I D E R L A R L R R D V G E A E V A A C L D R I R T
UniRef90_J9CYJ1 A K N R W G V E Y I D I P L E R V Y Q Y Y E L T S D D E V G E A S A R I R A E
UniRef90_D4MZB7 L Y D L G I E I E E N S E L D L F E A F N Q H E G D E R I P A T I K E M E E
UniRef90_F8N9C7 L Y E L G V E I E E N S E L D L L V A Y R A H K D D K R I P E V C E S M R Q
UniRef90_D4MOK3 L Y N I G V E I E E N S E L D L F E A Y N K H E G D E R I P A V V K E
UniRef90_R7EU61 L F M K V G P E I H F L S I S E L V N E I N G T S D D T V K G
UniRef90_U2BLA4 V Q A Q T G A H I E I L E M C D L D R M L R Q V T E D E V E E K K A E I R E
UniRef90_U2CAB6 A K R R W G I D I E Y V D I P L E R V A E Y N A L S D D E V G E A A A K L A G
UniRef90_E7GU45 L Y E L G V E I E E N S E L D L F A S F N A H A E D E R I D A V A E E M A K E
UniRef90_UPI00036A4FD5 V S A N F G G H V E V L E F D D L R V R V E Q
UniRef90_B0NG78 L Y N L G V E I E E N S E L D L F E A F H K H D G D E R I P G
UniRef90_UPI00047CACE9 L Y D L G V E I E E N S E L D L F E A F N K H E N D K P E V V E D M E K
UniRef90_UPI0003B34F26 L Y N L G V E I E E N S E L D L F E S F N K H A G D E D A I V K E M A E D L G
UniRef90_C6VYI9 Q C A T F G G H I E I T E V D E L S A V R E A V S E A E V L T M I A T F E N
UniRef90_UPI00035D530B L L R A L G P E I S F V A P G D L Y R G S L E V S G A E V D A L I A W E N A
UniRef90_E1QV51 F E D R F E A R V D A V P M E S L E D M I N N A D E K L A V I F M N Y I K G
UniRef90_B1R1H2 L Y N L G V E I E E N S E L D L F A A F N N H K D D S R I P A V V A D M E K
UniRef90_G8LWB4 L Y D L G V E I E E N S E L D L F E A F N K H A N D P P E V V K D M A
UniRef90_R6XP35 L Y N L G V E I E E N S E L D L F E A F N K H A G D E R I P A V V K E M E E
UniRef90_R7JAE3 Q S S T F G T H V E V L L E M C E L K A Y R D A S S D E I E Q K L A
UniRef90_R6FGI6 A K R R W D I E Y V D I P L E R V A E Y N A L S D D E V G E A A A K L A G
UniRef90_C6LF82 L F N L G V E I E E N S E L D L F E A F N K H A G D P P D V V K D M E
UniRef90_R6VTR4 L Y N L G V E I E E N S E L D L F
UniRef90_R7BL74 L Y D L G V E I E E N S E L D L F E S F N K H A G D E P E V V K D M E
UniRef90_F7M3Y9 Q S S V F G T H V E V L L E M C E L K A Y R D G V T D E E L K Y K L E
UniRef90_UPI00036FDA67 V S T T F G S H V E V L E F D D L R E R V N A V T D A E V T E R L G L A R E
UniRef90_C4U771 L T Q H L G L
UniRef90_D4JAL4 L Y N L G V E I E E N S E L D L F E A F N K H A G D E R I P A I V K E
UniRef90_R5WZZ9 L Q A Q T G M D I E I L E M S D L D Y Y L K S V T E K E I Q E K L W O I Q D
UniRef90_UPI0003B4358F L Y N I G V E I E E N S E L D L F E S F N K H A G D A K E V A A D M A K E L G

UniRef90_C0CRX6 RTGRVLA GEETMLHMT 250 260 270 280
UniRef90_D5E1S9 IGLNLRNDEETVTKF AKQFSTYIK KVIYMAVK
UniRef90_R6Z9A5 DLDLDTFDIEGGGTVE EKVWDM ARYLVAF
UniRef90_R6PXC8 MAAELGNENPYAGVLPRL AQYE LTLLEDWMD
UniRef90_R6UVN8 HIL D GWRQLKPVSDVLSKRKA AEW YLSAAEL
UniRef90_UPI00035CB97B NAVA A Q PSLASVNVVEAKKVIYGVIEVA
UniRef90_UPI0003B30B08 DLGSA G NKKPVEVLIEKLAQYEITL
UniRef90_A5ZYS9 FFEITSGD SPSDPIAKKPT EEQLTWSAKVA IAAQEK MVR
UniRef90_UPI000347D04B VFDVD E RLSKEER EDHARMQLGIE RL
UniRef90_D1CGS1 IF ELDRSVTSENLEWAKVA VG
UniRef90_X1NI66 CHYFAHPK LKDR EKDKS LDGALKLY
UniRef90_U1XLH8
UniRef90_UPI0002490382 HFT GLDADGDETIRFVKFVALMKYQVKD
UniRef90_UPI00037C4DDB TLAATKNR IASYLEGTQELEQDEFDKSI SIYHG
UniRef90_UPI0003F93089
UniRef90_G5IK04 S RYELDDLTAPV LK KVIYAFV L LFRDI
UniRef90_UPI00034C87D1 RFEIDE RLSKEELDDHARLQLGI
UniRef90_R6SRW2 FDIIEG GATVETVWEM AKYVVAF
UniRef90_F7K2Z4 E LGTGNKKPEILSRLAQYE
UniRef90_U2CSL4
UniRef90_XOUMV6
UniRef90_R5CH66 KALAC REALPEDMLKAMK IYKALKRI VE
UniRef90_E4QDA7 FFQIVGD SPSDPIAKKPT EEQKWSAKVA CAVKEYE L
UniRef90_D4J110 TFEIVGGV DEEKHEMAKYVVAFEQWVKD
UniRef90_B5I5B1
UniRef90_UPI0002E11C1A
UniRef90_UPI0002555789 A G N R Y P D M L P R L A Q F E L T L L D W
UniRef90_R5BIZ4 E G L K L N P N K P K F G K S I S K D F S G S M D I Y C A M K T L V
UniRef90_D7BV12
UniRef90_A0A015KP29 M F E I C G D S P S D P I A R K P T D E Q L E W S C K V A A A Q E R L V R E
UniRef90_UPI000262699B
UniRef90_UPI00047C550D M F E I S E D T D P I A K K P T P E Q L E W S C R V A L A Q E K M V R
UniRef90_UPI00016C0C52 S C C N H E A I D I K N M T D F A K L L K A Y K E Y V I E
UniRef90_F0KDK6 N D S R I P D V V K D M E E L G E G N K M P G I L L P K L A Q Y
UniRef90_G8QU46 N C V E C P R E R M E D S A H L M H A Y M D Y V I Q E
UniRef90_UPI0002F8E5EC Q V I G L N R S D E K K F A Q F S T Y V K E M I
UniRef90_R6T8U2 K P K F G H D I T E T D F G K A L D I Y C A L K S M
UniRef90_UPI0004760D09 A F E V R E D C S P L E L E R
UniRef90_UPI0003783CEB V F T L D E S V A D E D
UniRef90_G8QTE5 T Y V M E E D V
UniRef90_M1LSY4 E L G E G N K M P G I L L P K L A Q Y E I T L L D W M
UniRef90_R5W7H2 E A S L F A N R A K G I Q E A T P E E L L R A M R L Y K A I R
UniRef90_J9FB81 Q A L A C R E G T P K D I L K A M K L Y R A L R Q V I
UniRef90_F2JLH0 A E L I G D G N L K P E I L L P K L A Q Y E
UniRef90_UPI00046F0D2E K F E V S S L C E S I E L T R A A K T S V A L D K L V K
UniRef90_R6F399 D L N A L N K P K F G E I T E K D F G K A L D I Y C A L K T I V
UniRef90_W7SKG1 T F R L D G S V K P E D L R
UniRef90_B8E206 I I N I P I E E K W L D E G L K I A I A
UniRef90_R7PD99 E E L G A G N K K P E I L S K L A Q Y E L T L K
UniRef90_D4JQN0 Y A A F N E H K N D A R I P E V V A D M E K E L G D G N K M P G I L L P R L A Q L
UniRef90_UPI000425D4B6 E L G K G N K K P E I L K K L A Q Y E
UniRef90_UPI000464F203 L G A G N K K P E I L L P K L A Q Y E K D W I R D
UniRef90_R6N2T7 R F R I S A N V D R E K L A A S V R A S I A L
UniRef90_R6NMF7 A E L G E G N M K P E I L P K L A Q Y E
UniRef90_G4KW82 M A G E A G N G S K F S G I L L P R L A Q Y E L T L E D W M R
UniRef90_UPI0003693F5F V F T V D E S V A G E D L R
UniRef90_UPI00040F744A E M N Y A D G K Q P E M L K K L A Q Y E L T L
UniRef90_I0XAI6 A E L G T E G N Q F P D M L P R A Q F E L T L L D W I E A
UniRef90_R5J500 Q A L A C R E G T P E D M L K A M R L Y R A V
UniRef90_B8I294 M E E E L K D G N Y P G I L L P K L A Q Y E I T L L D W A E Q
UniRef90_W0FQI9 D I L D T F D I E G G G T I E K V W D M A R Y V V A F
UniRef90_X1QXG3
UniRef90_W0IC96 E F D V Q P D C D P D E L A R A A R T A V A L R K L V D A
UniRef90_J9CYJ1 K A L A C R E R T P E D M L K A M R L Y V A L
UniRef90_D4MZB7 E L G A G N K K P E I L S K L A Q Y E L T L K
UniRef90_F8N9C7 E M G E H Y Y E E L L T R M A Q F E L T L
UniRef90_D4MOK3 E M E E G A G N K K P E I L P K L A Q Y E I T L K
UniRef90_R7EU61 I V K E L T A N H E V Y P N V D M E K L D A S V R A S Y A M R I A I K D L L V L
UniRef90_U2BLA4 F F L I S D D K A A D P L R P T E E Q L D W
UniRef90_U2CAB6 K E V E A A C A A V A S Q A I A R E A T P E E L L K S M R L Y R A I K Q V
UniRef90_E7GU45 L G G A N K I P E I L K K L A Q Y E I T L
UniRef90_UPI00036A4FD5
UniRef90_B0NG78 V V R E M E E E L G E G N K K P E I L L A K Q Y E L T L K
UniRef90_UPI00047CACE9 E L G E G N N Y P G I L L P K L A Q Y E L T L K D W M E H
UniRef90_UPI0003B34F26 S G N K I P E V L P K L A Q Y E L T L K D W V E G
UniRef90_C6VYI9 T F D I Q E D C P E F E I H R A A R T A A A L E K L V
UniRef90_UPI00035D530B R F E V D P R L T G P E R E D H A R M Q L A I
UniRef90_E1QV51 R A R F E V S D E R L R D V G K I Y A A M R S L Y G
UniRef90_B1R1H2 E L G E G N K M P G I L L P K L A Q Y E L T L L D W M
UniRef90_G8LWB4 A E L G E G N K K P E V L I E K L A Q Y E L T L L
UniRef90_R6XP35 E L G E G N K K P E I L S K L A Q Y E L T L K
UniRef90_R7JAE3
UniRef90_R6FGI6 E A L A C R E A S A D D M L K A M K I Y R A V K
UniRef90_C6LF82 A E L G E G N M K P E V L P K L A Q Y E
UniRef90_R6VTR4 E A F N K H A D D P R I P D V V K D M E E E L G A G
UniRef90_R7BL74 A E L G A G N K K P E V L S K L A Q Y E
UniRef90_F7M3Y9 E F Y D K F D V E P S C A L E E L V R A A R T S V A L D K L V D
UniRef90_UPI00036FDA67 L F
UniRef90_C4U771
UniRef90_D4JAL4 M E E E L G T G N K K P E I L L A K Q Y E L T L K
UniRef90_R5WZZ9 F F E I S G D S P S D P I A R K P S Q E Q L H W S A R V A S A Q E K M V R
UniRef90_UPI0003B4358F N G N K K P E V L I E K L A Q Y E I T L L

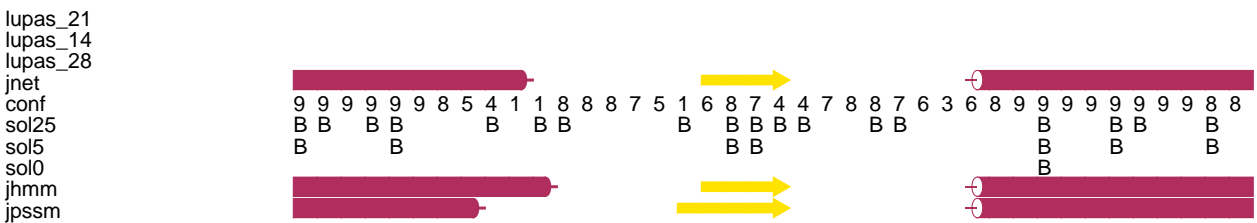
UniRef90_C0CRX6
UniRef90_D5E1S9
UniRef90_R6Z9A5
UniRef90_R6PXC8
UniRef90_R6UVN8
UniRef90_UPI00035CB97B
UniRef90_UPI0003B30B08
UniRef90_A5ZYS9
UniRef90_UPI000347D04B
UniRef90_D1CGS1
UniRef90_X1NI66
UniRef90_U1XLH8
UniRef90_UPI0002490382
UniRef90_UPI00037C4DDB
UniRef90_UPI0003F93089
UniRef90_G5IK04
UniRef90_UPI00034C87D1
UniRef90_R6SRW2
UniRef90_F7K2Z4
UniRef90_U2CSL4
UniRef90_X0UMV6
UniRef90_R5CH66
UniRef90_E4QDA7
UniRef90_D4J110
UniRef90_B5I5B1
UniRef90_UPI0002E11C1A
UniRef90_UPI0002555789
UniRef90_R5BIZ4
UniRef90_D7BV12
UniRef90_A0A015KP29
UniRef90_UPI000262699B
UniRef90_UPI00047C550D
UniRef90_UPI00016C0C52
UniRef90_F0KDK6
UniRef90_G8QU46
UniRef90_UPI0002F8E5EC
UniRef90_R6T8U2
UniRef90_UPI0004760D09
UniRef90_UPI0003783CEB
UniRef90_G8QTE5
UniRef90_M1LSY4
UniRef90_R5W7H2
UniRef90_J9FB81
UniRef90_F2JLH0
UniRef90_UPI00046F0D2E
UniRef90_R6F399
UniRef90_W7SKG1
UniRef90_B8E206
UniRef90_R7PD99
UniRef90_D4JQN0
UniRef90_UPI000425D4B6
UniRef90_UPI000464F203
UniRef90_R6N2T7
UniRef90_R6NMF7
UniRef90_G4KW82
UniRef90_UPI0003693F5F
UniRef90_UPI00040F744A
UniRef90_I0XA16
UniRef90_R5J500
UniRef90_B8I294
UniRef90_W0FQI9
UniRef90_X1QXG3
UniRef90_W0IC96
UniRef90_J9CYJ1
UniRef90_D4MZB7
UniRef90_F8N9C7
UniRef90_D4MOK3
UniRef90_R7EU61
UniRef90_U2BLA4
UniRef90_U2CAB6
UniRef90_E7GU45
UniRef90_UPI00036A4FD5
UniRef90_B0NG78
UniRef90_UPI00047CACE9
UniRef90_UPI0003B34F26
UniRef90_C6VYI9
UniRef90_UPI00035D530B
UniRef90_E1QV51
UniRef90_B1R1H2
UniRef90_G8LWB4
UniRef90_R6XP35
UniRef90_R7JAE3
UniRef90_R6FGI6
UniRef90_C6LF82
UniRef90_R6VTR4
UniRef90_R7BL74
UniRef90_F7M3Y9
UniRef90_UPI00036FDA67
UniRef90_C4U771
UniRef90_D4JAL4
UniRef90_R5WZZ9
UniRef90_UPI0003B4358F

290 300 310 320
E T V K R Y S L D A L A E C Y P F Y S G Q
K H I Q S E E L D A L A M R C W P D F F N D L G A A P C
E A W V K E E K L G F I A S H Y D G F A K G K A G V L D S M L I P A F S M
N L G C S K Y A A F A N K C W P A F T E F G F V P C Y V M
V S E R G Y D A V S L K D V D G M K K L L G Y P P A P V F M
L D E W R K E E V L D A I A I R C W P E F P T D L G A
L D W I E A H K G Y R K F V L T T K C W P A F T Q F G F V P C Y V N
E R N L D S V S Y Y Y H G R D D Y L V Q S G F I V I G F
L E E S G C G A Y S T H F D A I G E D G R F R L P M A A A S
L E K L V E N G F K A L V N K Y K L D G I T V R C F D L L E I Y K N S G C L G I
D L G A L A S R C W P D F F D K Y H S A P G
L D S L K E K H N L D A F A I R C W P E F T E Y G C A S C G P M
F E E Y R V D A V S A E C W T A M Q L G V G A M C T A Y
E R V L E R H G C A A Y S T H F D A L G E D G R F R L P M A A A S
E E W V K D E Q L G F V A S H Y D G Y A K G Q A G V L D S M L I P A F S M
L T L L D W I E E H K G S R E F A V A G K C W P A F T Q F G C V P C Y V N
E E K L A A L T L S C F K L I E S T G T S G C L A L
D G L A Y Y Y H G A E G N Y Y E Q V Q S A F I V I G H
E K L G F V A S H Y D G F A K G Q A G V V D S L L I P A F S M
A E E H R G S R S Y V S F A N K C W P A F T E F G F E P C Y V
E R Y G L A G V S L R C F D L L T A L G N T G C M A L
N D A L C Y Y Y H G A P G G E Y E K L Q G G F I V I G H
A Y N L D S L T Y Y Y H G A P G N A L Q S G F I L G H
N N I Q V I A S R C W P D F F V P V C A V L
E L T L L D W A E E H K G S R E Y V F A N K C W P A F T Q F G C V P C Y V
N N I K A L A S R C W P D F T S Y G T P V C S V L
E Q E G I T A I A V R C W P D F F E L G A A A C
T E K Y D L D G V S L R C F D L L T A L G S T G C M A L
E E H K G S R E Y I V F A N K C W P S F T Q F G F V P C Y V N
R V C Q E E N L D A L T L S C F S L I Q S L K T T G C L A L
E E E R L D A L T L N C F K L I D K L N T T G C L A I
L T L L D W I E E H K G R K Y V A I A G K C W P A F T Q F G F V P C Y V N
S H R L T A M A Y Y Y E G F Q G N D Y E N I V T S V I A G
D E Y G L D G V S L R C F D L L T A L G N T G C L A L
L E E L A K K E N A K A I A S R C W P D F F R E T P C F S F
D W V Q E H K G Y R Y V A I A G K C W P A F T Q F G F V P C Y V N
E I T L L D W M E A H K G S R K Y V V F A N K C W P S F T Q F G C V P C Y V
L T L L D W V I E H K G Y R Y V T I A G K C W P A F T Q F G F V P C Y V N
H K G Y R K Y V A I A G K C W P A F T Q F G F V P C Y V N
E E L S G D Y G I D L T V L N D I D P
I T L L D W V I E A H K G S R Y V T L T T K C W P A F T Q F G F V P C Y V N
D H L G L S R Y A A F A N K C W P A F T E F G F V P C Y V N
L D W V E E H R G Y R Y V A L T T K C W P A F Q D M F K V P C Y V N
N K G S K K Y V V L A D K C W P A F P K E F G E P C Y V N
K R I C K E E K L S A V T L S C F K I I E Q I G T T G C L A L
N K G T S E Y F V F A N K C W P A F Q T Q F G F V P C Y V N S R L A
E R W V K D E Q L G F V A S H Y D G F A Q G V A G K L D
K R I L G S L A Y Y Y E S V S G H E Y E D V I T S V I V G C
K R I I E E D K L Q A L T L S C F R L I K H T D T T G C L A L
D W I R D H K G Y R K Y V T I A G K C W P A F Q T Q F G F V P C Y V N S R L A
L D W A E E H K G R R Y V A F A D K C W P A F P K E F G E P C Y V N
D W I E H R G Y R Y V A I A G K C W P A F T Q F G F V P C Y V N
N D I D T V L F R E V I G L R P
C H E E K L D A I T L S C F K V I E E I N T T G Y L A L
E D W I E G H K G H N Y V A M A N K C W P A F T E F K F V P C Y V N
D W V E E H K G Y R Y V A I A G K C W P A F T Q F G F V P C Y V N
N L G A S E Y A V F A N K C W P A F Q T Q F G F V P C Y V N S R F A
H K G C R E F V A L T T K C W P A F T Q F G F V P C Y V N
E K I L V D R G Y R A Y S T H F D A I G E D G R F R R L P L A A A S
K Y D A F A I N C F P Y L T K H G V T P C L A L
E E H K G S R E F I V F A N K C W P S F T Q F G F V P C Y V N
D W I E A H K G Y R K Y V A I A G K C W P A F T Q F G F V P C Y V N
D W V I E H K G Y R Y V T I A G K C W P A F T Q F G F V P C Y V N
R A E E E R L S A L T L S C F K L I E L T G S T G C M A L
N K K I T L L D W I E A H K G Y R Y V A L T T K C W P A F T Q F G F V P C Y V N
I T L L D W I E A H K G Y R Y V A I A G K C W P A F T Q F G F V P C Y V N
L T L L D W I E A H K G Y R Y V A I A G K C W P A F T Q F G F V P C Y V N
A H Q L G A M A Y Y Y E G F R G N D Y E N I V T S V I A G N
D W I E E H R G Y R Y V T L T G K C W P A F T Q F G F V P C Y V N
D R N L D S V S Y Y Y H G R D F E T V Q S G F I V I G F
D W V E A H R G Y R E F V A I A G K C W P A F T Q F G F V P C Y V N

UniRef90_C0CRX6	M N L P S S W L A D	E G I I V D T E G D V G H T M V M Y M L N L
UniRef90_D5E1S9	S T L S Q F T E D G	M V T S C E S D I H G S I S M F T L R E L A G
UniRef90_R6Z9A5	L I	K E G V A C A V E G D I K V A M A M S I L K T I S G T
UniRef90_R6PXC8		I P V S C E V D I Y G A L S E Y I G L C V S N
UniRef90_R6UVN8	N S R F T G R G	S G V C T V P E N D C L G S V T Q L M V K Y L T G
UniRef90_UPI00035CB97B	L L D Q L	G T V T T C E R D V L G A V T M M
UniRef90_UPI0003B30B08	C L C S S L G R L S D R	G R G I P V S C E V D I Y G T L S E F I G T V I S N
UniRef90_A5ZYS9	S R L T	A Q G L A C A G E G D I K T A L A M
UniRef90_UPI000347D04B	S L L N	A Q G V G F A G E G D V L A S S I V Y A G H R L A G
UniRef90_UPI000347D04B	T L M	I L G N S I L T A N G
UniRef90_D1CGS1	I L G N S I L T A N G	E G I V G G C E G D L P A L I S M T I L H L L T D
UniRef90_X1NI66	S L L N D	
UniRef90_U1XLH8		
UniRef90_UPI0002490382	A V W S Q L S D	Q Q L P T A M E C D I H G A L S M Y I L Q Q M T
UniRef90_UPI00037C4DDB	A M M N E	E K V S C A C E A D V L G G L S
UniRef90_UPI0003F93089		
UniRef90_G5IK04	S V L A D	M G Y V I S C E S D L H G A V T M S M L A
UniRef90_UPI00034C87D1	S L M A R G Y G	F A G E G D V P A A A L V Y A G H R L T G
UniRef90_R6SRW2	L I	K Q G T A C A V E G D I K V A M A M S I L K T I A G T
UniRef90_F7K2Z4	S R L T	K R G I P V S C E V D I Y G A L S E F I G T V V S N
UniRef90_U2CSL4		
UniRef90_X0UMV6		
UniRef90_R5CH66	S L L N D	E G I I A G C E G D L Q S I F T M L I T K T L T G
UniRef90_E4QDA7	S L L T	A K G V P C A G E G D L K T A I A M
UniRef90_D4J110	L I	K Q G T A C A V E G D I K V A M A M S I L K T I A G S
UniRef90_B5I5B1		
UniRef90_UPI0002E11C1A		
UniRef90_UPI0002555789	N S R L T A R G	Q G V V A T C E G D I P T L L S M C I A H
UniRef90_R5BIZ4	A I L N S	
UniRef90_D7BV12		
UniRef90_A0A015KP29	S L L T	A Q G I P C S G E G D L K T A V A M
UniRef90_UPI000262699B		
UniRef90_UPI00047C550D	S L L T	A K G I P C S G E G D L K T A L A M K I C D L L
UniRef90_UPI00016C0C52	S M L N D L	G V A A S C E S D T F G A L S M Y I A A K L S G
UniRef90_F0KDK6	N S R L T A R G	I P V S C E V D I Y G A L S E Y I G T
UniRef90_G8QU46	S L L N D	Q G V A S V C E S D M Y G A L S Q F V A R N L T
UniRef90_UPI0002F8E5EC	S T L S Q F T E D G	Q G I V S S C E S D I H G S I S M F I L R E L S H
UniRef90_R6T8U2	A I L N S	Q G I V A T C E G D V P A L L S M
UniRef90_UPI0004760D09		
UniRef90_UPI0003783CEB		
UniRef90_G8QTE5		
UniRef90_M1LSY4	S R L S	A M G I P V A C E V D I Y G A L S E Y I G T C I S D
UniRef90_R5W7H2	S L L N D	E G I P A G C E G D L Q S I M T L L M V K E L I G
UniRef90_J9FB81	S L L N D	D G I V A G C E G D L Q S V F T L L V V K A L T G
UniRef90_F2JLH0	S R L T	G M G I P V S C E V D I Y G A V S E F I G T V I S
UniRef90_UPI00046F0D2E	N T L L T G Y	G I P V A G E C E V K N A Q A M K I L L S L L
UniRef90_R6F399	A I L N S	Q G V V A T C E G D V P A L L S M
UniRef90_W7SKG1		
UniRef90_B8E206	A L V S	E K I P V S C E G D I L S A L G M Y I L K E I S
UniRef90_R7PD99	S R L T	A Q G I P V S C E V D I Y G A L S E Y I G T V I S
UniRef90_D4JQN0		
UniRef90_UPI000425D4B6	N S R L T A R G	G R G I P V A C E V D I Y G A L S E Y I G A C I S
UniRef90_UPI000464F203	S R L T	A Q G I P V S C E V D I Y G A L S E F I G T C V S N
UniRef90_R6N2T7	S R L T	A Q G I P V S C E V D I Y G A V S E Y I G T V V S
UniRef90_R6NMF7	V L L G S V G L R P G F	C P T L T V V P E G D I G G G L A V Y I L K L L S G
UniRef90_G4KW82	S R L T D R	G I P V S C E V D I W G T L S E Y I G T V I S
UniRef90_UPI0003693F5F	S R L T	G R G I P V S C E V D I Y G A L S E Y I G V C V S G
UniRef90_UPI00040F744A	S R L	M R R G I P V S C E V D I Y G T L S E Y I G L C I S G S
UniRef90_I0XA16	S R L A S R	G I P V A C E V D I F G A L S E Y I G T C V T G
UniRef90_R5J500	A M L N D	E G I L A G C E G D L Q S I F T L L A A K A L T G
UniRef90_B8I294		A K G L P V A C E T D I Y G A L S E Y I
UniRef90_W0FQI9	S M L I P A F S M L	I K Q G T A C A V E G D I K V A M A M S I L K T I S G
UniRef90_X1QXG3		
UniRef90_W0IC96	S M L T	A E G I P V A G E Y E I K N A Q A M K I M
UniRef90_J9CYJ1	A L L N D	E G I I A G C E G D L Q S V F T L L A A K A V T G
UniRef90_D4MZB7		A Q G I P V S C E V D I Y G A L S E F I G T V V S
UniRef90_F8N9C7	S R L V S R	G I P V A C E V D I Y G A L S E Y I G M C A S G
UniRef90_D4MOK3	S R L T	A Q G I P V S C E V D I Y G A L S E F I G T A V S
UniRef90_R7EU61	G F A P T S A D	L P L V T V P E G D I G G G L A T Y I L H A L T G
UniRef90_U2BLA4		
UniRef90_U2CAB6	S L L N D	E G I T A G C E G D L Q S V F T L L T V K A L T G
UniRef90_E7GU45	S R L	V E K G I P V A C E T D I W G A L S E Y I G
UniRef90_UPI00036A4FD5		
UniRef90_B0NG78	S R L T	A Q G I P V S C E V D I Y G A L S E F I G T V V S G
UniRef90_UPI00047CACE9		A R G I P I A C E T D I Y G A L S E Y I I T C A T G
UniRef90_UPI0003B34F26	S R L	A G Q G M P V S C E V D I Y G V L S E F I G Q A V S D
UniRef90_C6VYI9		
UniRef90_UPI00035D530B	S L M	A K G Y G Y G A E G D A L A A A M V Y A G H Q L I G
UniRef90_E1QV51	A R L N E	E G L I A A C E A D L R A L F S M V I A R E L T G
UniRef90_B1R1H2	S R L T	A K G I P V S C E V D I Y G A L S E Y I G T C I S
UniRef90_G8LWB4	S R L T	G R G I P V S C E V D I Y G A L S E F I G L A V S N
UniRef90_R6XP35	S R L	A A Q G I P V S C E V D I Y G A L S E F I G T V I S
UniRef90_R7JAE3		
UniRef90_R6FGI6	S L L N D	E G I T A G C E G D L Q S V F T M L V V K T L T G
UniRef90_C6LF82	S R L T	G R G I P V S C E V D I Y G T L S E F I G T A V S D
UniRef90_R6VTR4	S R L T	K R G I P V S C E V D I Y G A L S E F I G T V V S D
UniRef90_R7BL74	S R L T	G K G I P V S C E V D I Y G A L S E F I G T V V S
UniRef90_F7M3Y9	T L L T G S	G I P I A G E C E V K N A Q A M K I M S L L
UniRef90_UPI00036FDA67		
UniRef90_C4U771		
UniRef90_D4JAL4	S R L T	A Q G I P V S C E V D I Y G T L S E F I G T V V S
UniRef90_R5WZZ9	S L L N	A K G I A C A G E G D I K T A L A M
UniRef90_UPI0003B4358F	S R L T	K M G I P V S C E V D I Y G C L S E F I G T V V S N

UniRef90_C0CRX6
UniRef90_D5E1S9
UniRef90_R6Z9A5
UniRef90_R6PXC8
UniRef90_R6UVN8
UniRef90_UPI00035CB97B
UniRef90_UPI0003B30B08
UniRef90_A5ZYS9
UniRef90_UPI000347D04B
UniRef90_D1CGS1
UniRef90_X1NI66
UniRef90_U1XLH8
UniRef90_UPI0002490382
UniRef90_UPI00037C4DDB
UniRef90_UPI0003F93089
UniRef90_G5IK04
UniRef90_UPI00034C87D1
UniRef90_R6SRW2
UniRef90_F7K2Z4
UniRef90_U2CSL4
UniRef90_X0UMV6
UniRef90_R5CH66
UniRef90_E4QDA7
UniRef90_D4J1I0
UniRef90_B5I5B1
UniRef90_UPI0002E11C1A
UniRef90_UPI0002555789
UniRef90_R5BIZ4
UniRef90_D7BV12
UniRef90_A0A015KP29
UniRef90_UPI000262699B
UniRef90_UPI00047C550D
UniRef90_UPI00016C0C52
UniRef90_F0KDK6
UniRef90_G8QU46
UniRef90_UPI0002F8E5EC
UniRef90_R6T8U2
UniRef90_UPI0004760D09
UniRef90_UPI0003783CEB
UniRef90_G8QTE5
UniRef90_M1LSY4
UniRef90_R5W7H2
UniRef90_J9FB81
UniRef90_F2JLH0
UniRef90_UPI00046F0D2E
UniRef90_R6F399
UniRef90_W7SKG1
UniRef90_B8E206
UniRef90_R7PD99
UniRef90_D4JQN0
UniRef90_UPI000425D4B6
UniRef90_UPI000464F203
UniRef90_R6N2T7
UniRef90_R6NMF7
UniRef90_G4KW82
UniRef90_UPI0003693F5F
UniRef90_UPI00040F744A
UniRef90_I0XAI6
UniRef90_R5J500
UniRef90_B8I294
UniRef90_W0FQI9
UniRef90_X1QXG3
UniRef90_W0IC96
UniRef90_J9CYJ1
UniRef90_D4MZB7
UniRef90_F8N9C7
UniRef90_D4M0K3
UniRef90_R7EU61
UniRef90_U2BLA4
UniRef90_U2CAB6
UniRef90_E7GU45
UniRef90_UPI00036A4FD5
UniRef90_B0NG78
UniRef90_UPI00047CACE9
UniRef90_UPI0003B34F26
UniRef90_C6VYI9
UniRef90_UPI00035D530B
UniRef90_E1QV51
UniRef90_B1R1H2
UniRef90_G8LWB4
UniRef90_R6XP35
UniRef90_R7JAE3
UniRef90_R6FGI6
UniRef90_C6LF82
UniRef90_R6VTR4
UniRef90_R7BL74
UniRef90_F7M3Y9
UniRef90_UPI00036FDA67
UniRef90_C4U771
UniRef90_D4JAL4
UniRef90_R5WZZ9
UniRef90_UPI0003B4358F

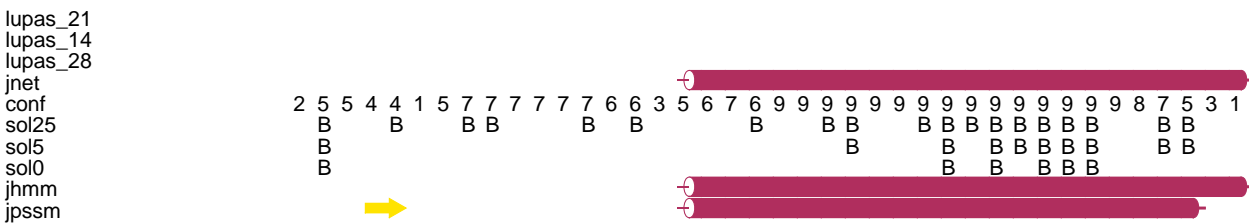
		50		60		70		80
UniRef90_V6MDD9								
UniRef90_UPI0003B6F40F	Y	V	E					
UniRef90_UPI00036162EE								
UniRef90_R5D8Q6	R	K	A	L	I	D	A	T
UniRef90_D6DLR5								
UniRef90_C6Q1J0								
UniRef90_U5Q665	V	V	E	A	I	E	S	S
UniRef90_R6RVC4	A	A	K	A	Y	R	E	K
UniRef90_UPI00047A5643	R	R	K	A	V	V	D	S
UniRef90_R6BND5	K	A	V	V	Q	S	Y	I
UniRef90_H5XMB5	L	V	E	A	Y	Q	K	K
UniRef90_R5R239	V	V	S	A	T	K	K	G
UniRef90_F5Y860	S	A	D	R	V	S	A	R
UniRef90_E3J5G5								



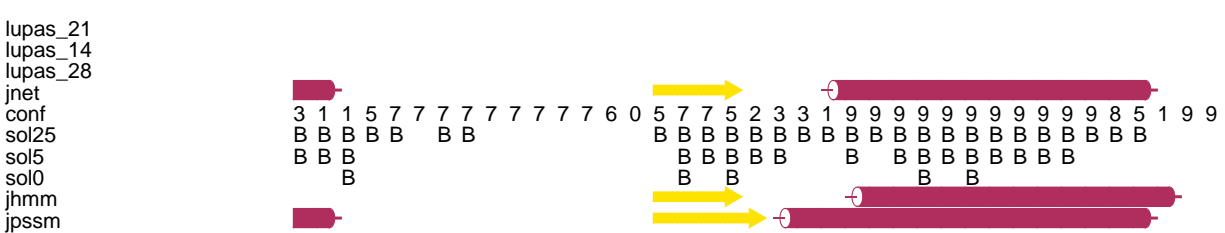

```

UniRef90_V6MDD9      MF A L S G D A D P I A K K P T A E Q L E W
UniRef90_UPI0003B6F40F  N E L G D G N P E V L P K L A Q Y E L T L K D W I R
UniRef90_UPI00036162EE  S F D G G D D V I G R K A L G R T Y A R L G A G L D K I K A D A I A I R D
UniRef90_R5D8Q6      A E L G A G N K K P E I L L E K L A Q Y E L T L K
UniRef90_D6DLR5      E M E E G A G N K K P E I L H R L A Q Y E K D W
UniRef90_C6Q1J0      M E K E G E G N A Y P G I L L E R L A Q Y E I T L K D W M E N
UniRef90_U5Q665      K Y Q V T D D V E D D K F M A S V R A S L A T A R L A E K M A M I Y N D
UniRef90_R6RVC4      H E G D E R I P D V V K M E K E L G E G N K K P Q I L P K L A Q Y E L T L L
UniRef90_UPI00047A5643  E L G E G N K M P G I L P K L A Q Y E I T L L D W M
UniRef90_R6BND5      E A E L G A G N K K P Q I L S R L A Q Y E L T L K D
UniRef90_H5XMB5      V F E L D S S V N R E D L E
UniRef90_R5R239      A E L G E G N K K P E I L L E K L A Q Y E
UniRef90_F5Y860      A G S Q Y P D L L P K L A Q F E L T L L D W A E A H K G A R D Y V A F
UniRef90_E3J5G5

```



		330	340	350
UniRef90_V6MDD9	S R L T	A Q G Y P V S C E V D I Y G A L S E Y I G T C I S		
UniRef90_UPI0003B6F40F				
UniRef90_UPI00036162EE				
UniRef90_R5D8Q6	S R L T D	Q G I P V S C E V D I Y G A L S E F I G T V V S		
UniRef90_D6DLR5	S R L T	A Q G I P V S C E V D I Y G A L S E F I G T V I S		
UniRef90_C6Q1J0		L G I P A A C E T D I Y G A L S E Y I		
UniRef90_U5Q665				
UniRef90_R6RVC4	S R L T	A K G I P V S C E V D I Y G A L S E F I G T A V S G		
UniRef90_UPI00047A5643	S R L T	A M G V A V S C E V D I Y G A L S E Y I G T C I S		
UniRef90_R6BND5	S R L T	A Q G I P V S C E V D I Y G A L S E F I G S V V S		
UniRef90_H5XMB5				
UniRef90_R5R239	S R L	A G R G I P V S C E V D I Y G A L S E Y I G T C I S		
UniRef90_F5Y860	S R L A S R	G I P V S C E V D I Y G A L S E Y I G A C I T G		
UniRef90_E3J5G5				



UniRef90_V6MDD9
UniRef90_UPI0003B6F40F
UniRef90_UPI00036162EE
UniRef90_R5D8Q6
UniRef90_D6DLR5
UniRef90_C6Q1J0
UniRef90_U5Q665
UniRef90_R6RVC4
UniRef90_UPI00047A5643
UniRef90_R6BND5
UniRef90_H5XMB5
UniRef90_R5R239
UniRef90_F5Y860
UniRef90_E3J5G5

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm