

QUERY	1	10	20	30	40																																																								
UniRef90_UPI00042B2FD7	G	V	F	N	Y	E	T	E	A	T	S	V	I	P	A	A	R	L	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_UPI00042B73F8	G	V	V	T	Y	E	M	E	V	A	T	S	I	P	P	A	K	M	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_A0A059B472	G	V	F	T	F	S	D	E	F	T	S	P	I	P	P	A	S	R	L	F	K	A	L	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_UPI00042B3E78	G	V	F	T	Y	E	S	E	I	T	S	V	I	P	P	A	K	M	F	Q	A	L	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_M1A057	G	V	I	T	C	E	E	T	N	T	S	S	V	I	P	P	A	K	M	F	K	A	S	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_UPI00042B25A6	G	V	F	T	Y	S	E	D	E	Y	T	S	P	I	P	P	A	R	L	F	K	A	L	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_Q9FS43	G	V	F	T	Y	E	S	E	I	T	S	S	V	I	P	P	A	K	M	F	K	A	A	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_Q39454	G	V	F	N	T	Y	E	T	E	T	S	V	I	P	P	A	R	L	F	K	R	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_UPI00023B2208	G	V	I	T	Y	E	M	E	I	T	S	P	I	P	P	A	K	M	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_A0AUB6	G	V	F	T	Y	E	T	E	F	T	S	V	I	P	A	P	R	L	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_Q39415	G	V	F	T	Y	E	T	E	A	T	S	V	I	P	A	P	R	L	F	K	S	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_UPI00046DF8C0	G	V	F	T	Y	E	T	E	L	T	S	S	V	I	P	P	R	L	F	K	A	L	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_F6H6U6	G	V	F	T	Y	E	S	E	V	T	S	S	V	I	P	P	A	K	M	F	K	A	S	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_F6H6U6	G	V	F	T	Y	E	S	E	V	T	S	S	V	I	P	P	A	K	M	F	K	A	S	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_UPI00042B774D	G	V	I	T	Y	T	Q	E	F	T	S	P	I	P	P	A	R	M	F	K	A	L	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_F6H6V1	G	V	V	T	Y	T	D	E	L	T	S	P	I	P	A	P	R	L	F	K	A	L	I	L	E	A	D	S	L	L	P	K	V	A	P	Q	A	A	I	K	S	S																			
UniRef90_A0A024B3D0	G	V	F	T	Y	E	T	E	F	T	S	V	I	P	P	P	R	L	F	K	A	F	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_M5XH11	G	V	I	T	C	E	T	E	F	T	S	P	I	P	P	D	R	L	F	K	A	L	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																		
UniRef90_B7TWE6	G	V	F	T	Y	E	S	E	T	T	S	V	I	P	T	P	A	R	L	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_A0A059AX00	G	V	V	T	F	A	Q	E	L	E	S	P	V	I	P	P	D	R	L	F	K	A	L	M	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_B9HWZ9	UniRef90_B9N008	G	V	F	A	F	S	D	E	F	T	S	P	I	P	P	A	R	L	F	K	A	L	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_B9N008	G	V	A	S	Y	T	Q	E	F	T	S	P	I	P	S	P	A	R	M	F	K	A	L	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_A0A059B6C6	G	L	I	T	Y	E	D	M	E	I	T	S	P	I	P	P	A	K	M	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_B9RZK1	UniRef90_B9RTB8	G	V	V	T	Y	E	M	E	V	A	T	S	I	P	P	A	K	M	F	K	A	F	V	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																	
UniRef90_B9RTB8	UniRef90_A0A059B5A7	G	V	S	T	F	T	Q	E	F	T	S	P	V	I	P	A	S	R	M	F	K	A	L	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																
UniRef90_A0A059B5A7	UniRef90_B9RTC1	UniRef90_Q7Y083	G	V	F	T	Y	E	E	F	T	S	S	V	I	P	A	P	R	L	F	K	A	L	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S																
UniRef90_Q7Y083	UniRef90_A0A022RYF4	UniRef90_A0A059ALU2	G	V	F	T	Y	V	I	T	D	A	T	S	V	I	S	A	P	R	L	F	K	A	L	I	L	D	D	S	D	N	L	I	P	K	V	A	P	Q	A	A	I	K	S	S															
UniRef90_A0A059ALU2	UniRef90_A0A059DAI5	UniRef90_M5VGQ0	UniRef90_D1YSM4	UniRef90_B9RTC5	UniRef90_H9NJ54	UniRef90_A0A024CD32	UniRef90_UPI000198386D	UniRef90_B9HX02	UniRef90_K7MBD0	UniRef90_A0AUE3	UniRef90_D7SY73	UniRef90_A5C109	UniRef90_W0FB09	UniRef90_I1KMV3	UniRef90_A0A059B6C2	UniRef90_A5C0F0	UniRef90_A0A022RW81	UniRef90_D1YSM5	UniRef90_K4BLP7	UniRef90_B9RTC0	UniRef90_V4S1X7	UniRef90_UPI0002C313DA	UniRef90_A0A059DAM0	UniRef90_UPI0002C3094A	UniRef90_W9SE75	UniRef90_B9S9Y1	UniRef90_R4L112	UniRef90_B3TLX2	UniRef90_P38950	UniRef90_UPI00042B2857	UniRef90_B9NDF0	UniRef90_H2ESL0	UniRef90_B9RZJ8	UniRef90_I3SSP7	UniRef90_Q5USC5	UniRef90_A0A022RVB8	UniRef90_K4C2B6	UniRef90_Q256S2	UniRef90_E3W9N3	UniRef90_P26987	UniRef90_K4CWC5	UniRef90_Q9MB25	UniRef90_A0A059B4T5	UniRef90_P93333	UniRef90_A0A059DC02	UniRef90_Q6XC94	UniRef90_A0A059B5E7	UniRef90_UPI0002B42010	UniRef90_C6T3L5	UniRef90_A0A059B4T0	UniRef90_A0AU70	UniRef90_I6XT51	UniRef90_I3SYM3	UniRef90_O81134	UniRef90_B9RTC8	UniRef90_A0A022RUU0	UniRef90_A0A059DAZ6	UniRef90_V4S743	UniRef90_W9RL38	UniRef90_V4U0E0	UniRef90_B9RZK0

QUERY
UniRef90_UPI00042B2FD7
UniRef90_UPI00042B73F8
UniRef90_A0A059B472
UniRef90_UPI00042B3E78
UniRef90_M1A057
UniRef90_UPI00042B25A6
UniRef90_Q9FS43
UniRef90_Q39415
UniRef90_UPI00023B2208
UniRef90_A0AUB6
UniRef90_Q39415
UniRef90_UPI00046DF8C0
UniRef90_F6H6U6
UniRef90_F6H6U6
UniRef90_UPI00042B774D
UniRef90_F6H6V1
UniRef90_A0A024B3D0
UniRef90_M5XH11
UniRef90_B7TWE6
UniRef90_A0A059AX00
UniRef90_B9HWZ9
UniRef90_B9N008
UniRef90_A0A059B6C6
UniRef90_B9RZK1
UniRef90_B9RTB8
UniRef90_A0A059B5A7
UniRef90_B9RTC1
UniRef90_Q7Y083
UniRef90_A0A022RYF4
UniRef90_A0A059ALU2
UniRef90_A0A059DAI5
UniRef90_M5VGQ0
UniRef90_D1YSM4
UniRef90_B9RTC5
UniRef90_H9NJ54
UniRef90_A0A024CD32
UniRef90_UPI000198386D
UniRef90_B9HX02
UniRef90_K7MBD0
UniRef90_A0AUE3
UniRef90_D7SY73
UniRef90_A5C109
UniRef90_W0FB09
UniRef90_I1KMV3
UniRef90_A0A059B6C2
UniRef90_A5C0F0
UniRef90_A0A022RW81
UniRef90_D1YSM5
UniRef90_K4BLP7
UniRef90_B9RTC0
UniRef90_V4S1X7
UniRef90_UPI0002C313DA
UniRef90_A0A059DAM0
UniRef90_UPI0002C3094A
UniRef90_W9SE75
UniRef90_B9S9Y1
UniRef90_R4L112
UniRef90_B3TLX2
UniRef90_P38950
UniRef90_UPI00042B2857
UniRef90_B9NDF0
UniRef90_H2ESL0
UniRef90_B9RZJ8
UniRef90_I3SSP7
UniRef90_Q5USC5
UniRef90_A0A022RVB8
UniRef90_K4C2B6
UniRef90_Q256S2
UniRef90_E3W9N3
UniRef90_P26987
UniRef90_K4CWC5
UniRef90_Q9MB25
UniRef90_A0A059B4T5
UniRef90_P93333
UniRef90_A0A059DC02
UniRef90_Q6XC94
UniRef90_A0A059B5E7
UniRef90_UPI0002B42010
UniRef90_C6T3L5
UniRef90_A0A059B4T0
UniRef90_A0AU70
UniRef90_I6XT51
UniRef90_I3SYM3
UniRef90_O81134
UniRef90_B9RTC8
UniRef90_A0A022RUU0
UniRef90_A0A059DAZ6
UniRef90_V4S743
UniRef90_W9RL38
UniRef90_V4U0E0
UniRef90_B9RZK0

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

QUERY Y S Y S V I E G G P V G D T L L E K I I S N E I K I V A T P N G G S V L K I N N K Y
UniRef90_UPI00042B2FD7 Y S Y S V I E G G D A L M N T L L E E K I I S N E I K I V A T P N D G G G S V L K I N N K Y
UniRef90_UPI00042B73F8 C R Y T V I E G G D A L M D M T L L E E K I I S N E I K I F V A G P D D G G G S V L K I N N K Y
UniRef90_A0A059B472 Y K Y A L I E G G D A L M E K F E E K I I S A Y E V K F E P T P D D G G G S K N K M T S S T Y
UniRef90_UPI00042B3E78 Y C Y T V I E G G D A L M N A F E E K I I S A Y E T K L E P S P D D G G G S I L K I N N K Y
UniRef90_M1A057 Y N Y T L I E G G D A L M D V L L E E K I I S Y N V D V K L E P Y T E N D G G G S I L K I N N K Y
UniRef90_UPI00042B25A6 Y K Y S L I E G G D G L M D K L E E K I I T Y D V D K F E P T A D G G G S K N K M T S S T Y
UniRef90_Q9FS43 F C Y T V I D G D V L T D G V L E E K I I C H E L T V V P A P A G G G S I Y K N T S S K Y
UniRef90_Q39454 Y R Y S V I E G G D A L S D K L E E K I I S N E I K I V A S P H G G G S I L K I N N K Y
UniRef90_UPI00023B2208 Y S Y S V I E G G D A L M G T L L E E K I I S N E I K I V A S P H G G G S I L K I N N K Y
UniRef90_A0AUB6 Y S Y S M I E G G D T L S D K L E E K I I T Y E T K L I A A S P D G G G S I I K T T S H Y
UniRef90_Q39415 Y C Y S L I E G G D P L G D T L L E E K I I S Y E T K L V A A A P D G G G S I L K I N N K Y
UniRef90_UPI00046DF8C0 Y S Y S L I E G G D S L G D T K I Q K I I C H E I K L V A A A P D G G G S I I K N T S N Y
UniRef90_F6H6U6 F S Y T V I D G D V L T S G I E E S I I S H E L K V V A S P D D G G G S I Y K N T K K Y
UniRef90_F6H6U6 F S Y T V I D G D V L T S G I E E S I I S H E L K V V A S P D D G G G S I Y K N T K K Y
UniRef90_UPI00042B774D C K Y T T I E G G D V L G D K L E E S I I S Y E L K V F E A S G A G G G S C C V C K M T S H Y
UniRef90_F6H6V1 Y K Y T L I E G G D A L M D K I E E Y I I S Y E L S F E A S P D G G G S C K S K N V S V Y
UniRef90_A0A024B3D0 Y S Y S L I V E G G D A L S D K L E E K I I S Y E T K L V A A A P D G G G S V I K T S N Y
UniRef90_M5XH11 Y G Y T L I E G G D A L M E K I E E K I I S Y E T K L V A A A P D G G G S K N K M T S K Y
UniRef90_B7TWE6 Y A C T L I E G G D A I S E T L L E E K I I A Y E I K L V A S P D G G G S I L K S T S K Y
UniRef90_A0A059AX00 C K F T L I E G G D L L G D D L E E K I I V Y E I E F V D D G N D G G S I L R M S S D Y
UniRef90_B9HWZ9 Y S Y S L I E G G F L G D K M E T V V Y E V Q F V P G P D G G G S I L N K M K S T Y
UniRef90_B9N008 C K Y T M I E G G D S L G E K L E E S I I A Y E V R F E V G S D G G G S D C C K M T S S Y
UniRef90_A0A059B6C6 Y S Y S W I E G G D A L M N T L L E E K I I S Y N D I K F E E P D D G G G S I L K N T S K Y
UniRef90_B9RZK1 Y A Y T M I E G G D V L G K L E E K I I S N E I K F E A T P D D G G G S I L V K S L S K Y
UniRef90_B9RTB8 C K Y T L I E G G G P L G D K L E D S I I A Y E V K F E A A S D G G G S C L K I T S N Y
UniRef90_A0A059B5A7 Y S Y S M I V E G G G E L M N D T L L E E K I I S Y E T K M E A T P A D G G G S C K G A N V S K Y
UniRef90_B9RTC1 Y G Y T T I E G G D A L G M D T L L E E K I I S Y E T K F V P A P N G G G S I L K G T S K Y
UniRef90_Q7Y083 Y S Y T I I E G G D A I G D K L E E K I I V E N E V K L E A S P T G G G S I L K S T S K Y
UniRef90_A0A022RYF4 Y N Y T L I E G G D P L G D K L E E K I I S Y E M K F E A N G S D D G G G S C M G K S G S T Y
UniRef90_A0A059ALU2 C K Y T L I E G G D V L M F D K L E E F V I S Y E V K F E A S S D D G G G S C K G K M T S E Y
UniRef90_A0A059DAI5 C C R Y T M I E G G D A L G D K L E E S I I D Y Q V K F D A S S D G G G S V C C K M T S K Y
UniRef90_M5VGQ0 C K Y T L I E G G D V L E D K L E E S I I A Y E V R F E A S P N D G G G S C T C K M M S E Y
UniRef90_D1YSM4 Y S Y T L I E G G D V L A E K F E S I I S Y H I K I V A C P D G G G S I L K N R S I Y
UniRef90_B9RTC5 Y N Y S A I G G D P W M D T L D K I I S Y E T K M V P S P D G G G S I L K S I T K Y
UniRef90_H9NJ54 Y S F S V I E G G D A L T D K L A S V L S Y E M K F V A S P D G G G S I M K N T S K Y
UniRef90_A0A024CD32 Y T Y S L I E G G D A L T D K L E E K I I S Y E T K F V A A D D G G G S I L K N V S K Y
UniRef90_UPI000198386D C K F T L I E G G D V M G E K L R S A S Y E I E F M D D G E G G G S I L C R M L S E Y
UniRef90_B9HX02 Y E Y T M I E G G D V L K G D F E A S I V I N V V K F E A S P D D G G G S I C K G S S K Y
UniRef90_K7MBD0 Y N Y T L I E G G E A L K D K F A S I A N H E I K F E A A P D D G G G S I S K V T S K Y
UniRef90_A0AUE3 Y S Y S L I E G G D A I S D K I E E K I I S A Y E L K L V A S G S G S I I T K N T S H Y
UniRef90_D7SY73 C R Y T V I E G G D A L G D K L E E S I I V Y E M K F E E S A D G G G S I C K T R S E Y
UniRef90_A5C109 C K Y R M I E G G D V L G E L E E S I I H E V K F E A A D G G G S I C C K M A S E Y
UniRef90_W0FB09 Y T Y T I N G G D V L A D V I E E S I I T Y H I K V V P T E D G G G S I C C K N R S I Y
UniRef90_I1KMV3 C K Y T M I E G G D P L G D K L E E S I I G A Y E V K F E A T S D G G G S C L C K M T S N Y
UniRef90_A0A059B6C2 C C V I Y K L I E G G G W L E K F E S I I V A Y E I M F G P T P D G G S K T I L A S T Y
UniRef90_A5C0F0 C C K Y T L I E G G X V L G D T L E E S I I S Y X I K F E L S D N R G S I C K M T S H Y
UniRef90_A0A022RW81 C K Y T M I E G G D A L G D K L E E S I I E Y E I K F E L S D N R G S I C K M T S E Y
UniRef90_D1YSM5 Y S Y S L I E G G A L D V F E S I I S Y H I K I V A T P D D G G S I C K N R S I Y
UniRef90_K4BLP7 Y K Y T L I E G G D G L V D N L E E K I I T Y D V K F E Q S A D D G G S I C K V T S S Y
UniRef90_B9RTC0 Y S Y T V I E G G D V L A E K F E E S I I S F E K L Q G T P D D G G S C E G T V G K Y
UniRef90_V4S1X7 T S Y S L I E G G A I L A D K L E E K I I S Y D N Q W V P S P D D G G S I C K T I C K L
UniRef90_UPI0002C313DA Y N Y S L I E G G D V L A E K L E E K I I S Y E T K L V E S A E G G G S I L V K S I N Y
UniRef90_A0A059DAM0 Y C Y S L I D G G M L G T T F E E K I I T F E V K L N A L P L G G G S M L K C T N S Y
UniRef90_UPI0002C3094A C K Y T M I E G G D A L G D K L E E S I I G Y E V K F E A A S D G G S I L K M T S N Y
UniRef90_W9SE75 C K Y S L I E G G D V L G D K L E E S I I D H E V K F E P A A D G G G S V C C K T S K Y
UniRef90_B9S9Y1 Y S Y T I I G G E P W S D N I E E K I I C H E Y E K L A A S P D G G G S I C K S S S K Y
UniRef90_R4L112 Y S Y A V I E G G D V L S D K V E K I I L E Y E N K F V A A A D G G G T I C K N I S K Y
UniRef90_B3TLX2 C K Q S L V E G G D L G K K I E S A S S Q F K F E Q T S N G G G S V C K V V T T Y
UniRef90_P38950 Y N Y T V I E G G D V L G D K L E E K I I S H E L K I V A A P G G G S I V K I S S K F
UniRef90_UPI00042B2857 C K Y T L I E G G D A L T D K L E E S I I S Y E V K F E A Y G Y G G S I C K M T S E Y
UniRef90_B9NDF0 Y A Y T V F E G A V L A N T Y E E K I I F N E S K I E A S P D G G G S V C C K T S T Y
UniRef90_H2ESL0 T K Y S L I E G G D V L G D K L E E S I I T Y D V K F E T S A K G G S I C C K T S T E Y
UniRef90_B9RZJ8 F S H S V I E G G D M L T N G L E E K I I T Y D V K F E T S A K G G S I C C K T S T E Y
UniRef90_I3SSP7 Y S Y S I I G G S D L P D T V E K I I S F E A K L V A G P D G G G S I A K L T V N Y
UniRef90_Q5USC5 Y G H S L I E G G D V L S A D I E E K I I H V T K F V A S S Y G G S I I K V T T T F Y
UniRef90_A0A022RVB8 C K Y T L I E G G D A L M G K L D F H I V Y E V K F E A Y S Y G G S I C C K I T S E Y
UniRef90_K4C2B6 C K Y T M I E G G D P L G Q N L D F I S Y E L K I E E S K I N I C I C K M T T N Y
UniRef90_Q256S2 Y S Y S L I E G G D A L S E N I E E K I I D Y E T K L V S A P H G G T L I K T T S K Y
UniRef90_E3W9N3 Y A S T L I E G G D T L M D K V E S I S Y E L K L E S M P D D G G S C K G K N T S K F
UniRef90_P26987 Y S Y S V V G G A A L P D T A E K I I T F D S K L V A G P N G G S A G K L T V K Y
UniRef90_K4CWC5 T K Y S L I E G G D L G E K L E E S I I T Y D I K F E A N D N G G S C C K V T T T E Y
UniRef90_Q9MB25 Y S Y A V I E G G D G A L E K V D S I S H E I K F E A T E E G G G S K T K N V S T Y
UniRef90_A0A059B4T5 C K Y T L I E G G D V I F D K I E S I I V Y E V Q F L A S S V G R C L C K M I G E Y
UniRef90_P93333 Y N Y S L I V E G G G L P D T V E K I I S F E S K L S A G P D G G S I A K L T V K Y
UniRef90_A0A059DC02 Y C Y S L I E G G E V L G T T F E E K I I S Y E V K L I A L A D G G G S V F K C A A S Y
UniRef90_Q6XC94 Y S Y S M I E G G P L G D K L E E K I I S Y E N Q F V A A A D G G G S I C K S S I K Y
UniRef90_A0A059B5E7 Y K H T M I D G L I E E R F E S I I A Y E V K F E P T P D G G G S K N R M T S T Y
UniRef90_UPI0002B42010 Y K Y T V I E G G D L I S E T I D Q I V K E I K V T E G P D D G G S I L K T S S V Y
UniRef90_C6T3L5 Y N Y S V V G G V G L P D T V E K I I S F E A K L V E G A S G G S I A K I T V K Y
UniRef90_A0A059B4T0 C K Y T L I E S D I K F D K I K F I V Y E V K F A S A N D G S V C K M T S E Y
UniRef90_A0AU70 Y K Y S M I E G G D A I S E T I E K I I S Y E T M L V A S A N G S I I K R T C H Y
UniRef90_I6XT51 Y S Y S L I E G G D A L E G N L E E K I I T H E S K L V A S G D G G N V I K T V S K Y
UniRef90_I3SYM3 C N Y T M I E G G D P L G D K L E E S I I A Y E V K F E A T S D G G S H C E M T S K Y
UniRef90_O81134 Y K Y T A I E G G P L G D K Q L E S A C F E V K L I P R K E G G S I V A R W T C N Y
UniRef90_B9RTC8 H C Y S V I G G E P W M N E L E E K I I S Y E I K V V A S P D G G G S I K S I S K Y
UniRef90_A0A022RUU0 H S Y S I I E G G D A L M G V T V E S I I T Y H I K I V P T E D G G G S I C C K N R S I Y
UniRef90_A0A059DAZ6 Y S Y S I I E G G D V L G T T F E E K I I S Y E A K L T T S P D G G G S V C C K N R S K Y
UniRef90_V4S743 C K Y T V L E G G D M L G T L L E E S I I Y D V K F E A S G N G G S I C C K V A S E F
UniRef90_W9RL38 C C K Y T L T E G G D V L T E K I E E S I I S Y E V E F E K A S E G G S V C C K M R S E Y
UniRef90_V4U0E0 C K Y T V I E G G E V A A I F E K A V S Y E V K F E A S G N G G S I C C K V A S E Y
UniRef90_B9RZK0 Y A Y T M I E G D F T A G N I E K I I S N E L K F E D T A A G G S I L K Y L T R Y

QUERY H T K G D H E V A E E E I I K A S K E M G E T L L R A V I E S Y L L A H S D A Y N
UniRef90_UPI00042B2FD7 Y T I G D D I E I K E E E I I K A G K E R A L G M Y K A V I E A Y L L A N P D D A Y N
UniRef90_UPI00042B73F8 Y T I G D D I N I K E E E I I K A G K E R A S G M F K A V I E A Y L L A N P D D A Y N
UniRef90_A0A059B472 Y T K G D F F E I K E E E I I K A G K E R A L G M Y K A V I E A Y L L A N P D D A Y
UniRef90_UPI00042B3E78 Y T I G D F F E I K E E E I I K A S G K E K A L G L F K A I I E A Y L L A N P D D A
UniRef90_M1A057 Y T K G D V Q L K E E E I I K A G K E K A V G L F K A I I E A Y L L A N P D D A Y
UniRef90_UPI00042B25A6 H T K G G F V L T E E E E I I K T G K E K A L A M Y K V V E A Y L I Q N P D D A Y
UniRef90_Q9FS43 H T K G A E V C E E E H V K G G K E D A L A T F K A I I E A Y V L A H P D D A Y
UniRef90_Q39454 H T I G D H E I K T D E I K A A K E K A S G L F K A V I E A Y L L A N H S D A Y N
UniRef90_UPI00023B2208 H T K G D I E I T E E E I I K A A K E K A M G M Y K A V I E A Y L L A N P D D A Y
UniRef90_A0AUB6 H A K G D V E I K E E E I I K A G K E K A S G L F K L L E A Y L V A N L D D A Y N
UniRef90_Q39415 H T K G D I S L E E E E I I K A G K E K G A G L F K A V I E A Y L V A H P N A Y N
UniRef90_UPI00046DF8C0 H S I G D V E I K E E E I I K A G K E R A S G L F K V V E E K Y L L G N P D A Y N
UniRef90_F6H6U6 H T K G V E I S E E E H V K G G K E E S L A V F K
UniRef90_F6H6U6 H T K G V E I S E E E H V K G G K E E S L A V F K
UniRef90_UPI00042B774D H T K G D F V L K E E E I I K A G K D Q A V G M Y K V V E E Y L L A N P N V Y
UniRef90_F6H6V1 H S K P G V E I K E E E I I K D G K E K A A A V F K A V I E A Y L L A N P N D A
UniRef90_A0A024B3D0 H T K G D V E I K E E E I I K A G K E K A S H L F K L V E D Y L L A N P D D A Y
UniRef90_M5XH11 H T K G D F V L Q E E E I I K T G R E K A L G M Y K V V E A Y L L A N P D D A Y
UniRef90_B7TWE6 H T K G D H E I K E E D I I K A G K E E A S G I F K A V I E A Y L L A N P A A Y T
UniRef90_A0A059AX00 C S D R D I K F D E E E I I E A G K D K A M E L Y R A V I E A Y L L A N P T A Y T
UniRef90_B9HWZ9 H T K G D I V L T E E E I I K E G K E K A L G M Y K A V I E A Y L L Q N P E A Y
UniRef90_B9N008 L M L G D F T L K E E E I I K A G Q D K A R G T Y K V V E A Y L L E N P H V Y
UniRef90_A0A059B6C6 Y A I G D I Q F S E E D I I K D G K E K V L G L F K A L E G Y L L A N P N A C
UniRef90_B9RZK1 Y T I G D F F E I K E E E I I K A G K E K S M G L F K A V I E A Y L L A N P D A
UniRef90_B9RTB8 F T L G K F T I K E E E I I E D G K G K A L G I Y R V V E A Y L L E N P Q V Y
UniRef90_A0A059B5A7 L P K P G I V I K E E E I I K A G K E K A T A V F K A V I E A Y L L A N P E T Y
UniRef90_B9RTC1 Y T K G D I E I K E E E I I N A G K E K A R G M F K G I E A Y L L A N P D A
UniRef90_Q7Y083 Y T K D D Y E L K E E E I I K A G K E K A L G L F K A I I E S Y L L A N P N A Y
UniRef90_A0A022RYF4 Y T K G V E I K E E E I I K A G K E K A A G F F K A V I E A Y L L A K P D A Y
UniRef90_A0A059ALU2 H T K A G A E L K E E E I I K Q G K D K A M R L Y K V V E A Y L L A N P S V Y
UniRef90_A0A059DAI5 N T K E A F Q V E E E E I I K A G K E K A M A L F K V V E S Y L L E N P Q A Y
UniRef90_M5VGQ0 Q A A G D F E I E E E E I I R G G K E R A M G M Y K A V I E A Y L F E S P G A Y
UniRef90_D1YSM4 T T K G D C K V I E E E E I I K L G K E K A A E L F K A L E A Y L L A N P D
UniRef90_B9RTC5 Y P K G D S Q I D D Q I I K A A E E K A L G M F K V V E A Y I L A N P D A F N
UniRef90_H9NJ54 Q T K G D F N L K E E E I I Q A T I D K A A G H F K A V I E A Y L L A H P Y N
UniRef90_A0A024CD32 H T K D H Q I T E D K I I K A G K E K A A H L F K A V I E K Y L L Q E N P D A Y
UniRef90_UPI000198386D E T V G D V V F D E D I I E E G K E K A T E L F K P V I E A F L A N P D A Y
UniRef90_B9HX02 Y T I G D I K V I E E E E I I D A F K E K Q M G L F K A I I E A Y L L A N P D A
UniRef90_K7MBD0 Y L K G D V E I N E E E I I K A S K E K V L G I Y K V V E A Y L L Q N P D V Y
UniRef90_A0AUE3 H T K G D V E I K E E E I I K A G K D K A H G L F K L I E N Y L V A N P D D A Y N
UniRef90_D7SY73 H T K G E F E I K E E E I I R E G K E K A M G V Y K L V E A Y L L A N P D E
UniRef90_A5C109 H T K G K F E I K E E E I I K A G K A R A M G I Y K V V E A Y L L E N P H V Y
UniRef90_W0FB09 K T K G D A V I D E E E I I K E G K D K A Q H M F K A I I E A Y I T A N P D
UniRef90_I1KMV3 N T I G E F D V D E E E I I K E G R E S G T A V Y R V V E S Y L L E N P Q V Y
UniRef90_A0A059B6C2 Y P K G N F Q F K E E E I I K A G R E R G L G I Y K A V I E A Y L L Q N P D D A Y
UniRef90_A5C0F0 H S K I E L K D E D I I K X G K D K A M G M Y K V V X E Y L L A N P D A Y
UniRef90_A0A022RW81 H T V G Y E I D E E E I I K G G K E S A M G T Y K V V E A Y L L E N P H I Y
UniRef90_D1YSM5 T P K G D A Q V E E E I I K A G K E R A S G L F K K V E A Y L L A N P D
UniRef90_K4BLP7 Y T V G D F K L K E E E I I K A G K E K V L A M F K A V I E A Y L L Q N P E A Y
UniRef90_B9RTC0 H P K G V E I M E E E I I K D R K D K A S A V F K A V I E T Y L I A N P E A Y
UniRef90_V4S1X7 Y T K G E L E V T E E Q N A G K E K S A A M V K A L E A Y L L A N P D V C N
UniRef90_UPI0002C313DA Y T I G D I E I E E E H V K A G K E K A S Q L F K L V E G Y L L A N P D D Y N
UniRef90_A0A059DAM0 F T I G E V D I E E E I I N T R K E K A S A M Y E A I I E A Y L L E N P D A Y
UniRef90_UPI0002C3094A N P I G E A E V K E E E I I A G K N S A M G T Y E V V E A T F L V E N P V Y
UniRef90_W9SE75 N T E G D F S V E E E E I I K A G K E K A M A L F K V V E S Y L Q E N P D A Y
UniRef90_B9S9Y1 Y P K E G C Q L D E E E I I K T G A E K A F G M F K A I I E T Y L L T N P D A C N
UniRef90_R4L112 H T I G E V E I T E E E I I K T A G E K D R A G G L F K V L E A Y L H Q N P D D A Y N
UniRef90_B3TLX2 K P L P G V E I N K D E E V A K G K E A V T G I I K A A E A Y L L A N P G A Y
UniRef90_P38950 H A K G Y H E I N E E M K G A K E M A E K L L R A V I E S Y L L A H T A E Y N
UniRef90_UPI00042B2857 K A K E G I V I K E E D I I K E F G K D R A I G M Y E V I E A Y L M A H P H A Y T
UniRef90_B9NDF0 Y T V G N V D A K D E E I I K D G Q E K Q M G L F K A I I E A Y L L A N P D A
UniRef90_H2ESL0 H T K G Y V F K E E E H N E G K E K A M E L F K V V E D Y L L A N S T V Y
UniRef90_B9RZJ8 Y T I G D F F E I N E E Q L Q A G K E K V L G M F K A V I E A Y I L A N P D T C
UniRef90_I3SSP7 H T K G D A S P E E E I I K A G K A K G D G L F K A V I E G Y V L A N P D Y N
UniRef90_Q5USC5 H T V G N A P V D E A A K E G K E K A E G L F K L V E G Y L L E A N P S A Y N
UniRef90_A0A022RVB8 Y T I E N V I K E E E I I E Q G K D R A I G M Y E V V E A Y L L A N H P H A Y
UniRef90_K4C2B6 H G I G D F F A K E E E I I K D G K D S A M G T Y K T V E T Y L I Q N P N L Y
UniRef90_Q256S2 H T K G D V E I K E E E I I K A G K E K A A H L F K L I E G Y L K D H P S E Y N
UniRef90_E3W9N3 N T K P G V E I K E E E I I K A G K E M S D E I V K A V I E A Y L L A N P N E
UniRef90_P26987 E T K G D A E P N D E E L K T G K A K A D A L F K A I I E A Y L L A H P D Y N
UniRef90_K4CWC5 H T K G D H V V E E E H N V I G R E I M N I S K A V I E A Y L L A N P S V Y
UniRef90_Q9MB25 H P K G V E V K E E E D F K A A K D E G L A L L K A V I E A Y L L A N P D A Y
UniRef90_A0A059B4T5 H T R G D V E L N E D I I K Q G K E K A M G L Y K V V E E Y V L G N P N V Y
UniRef90_P93333 F T K G D A A P E E E I I K G G K A R G D G L F K A L E G Y V L A N P D
UniRef90_A0A059DC02 F T I G E E I P E E E I I N A G K E E L C A M V E A I I E A Y L V A N P Y D Y
UniRef90_Q6XC94 Y T V G D Y V I T E E E I I K T L I K S E V V Y K A I I E A Y L L A N P D A C N
UniRef90_A0A059B5E7 Y V K G D I E L K E E E I I E T G K E R A L G M Y K V V E A F L L Q N P N A Y
UniRef90_UPI0002B42010 H T K G D N Q L D E K I I K I G E E K G L A L L K A A E A Y L L A N P A E Y N
UniRef90_C6T3L5 Q T K G D V N P E E E L K S G K A K G D A L F K A L I E G Y V L A N P D Y N
UniRef90_A0A059B4T0 H V I E G A E I K E E D I I K Q G K D R A M G L F K T V E E Y L L A N P D V C
UniRef90_A0AU70 H T K G D V E I K E E E I I K A G K E K A S Q L F K L V E N Y L L E H Q V D A Y N
UniRef90_I6XT51 Y S A G D A Q V N E E E I I K E G E K Q A T Q M L K T V E A Y L K D H P E A Y N
UniRef90_I3SYM3 N T I G G Y E V E E E I I K E G N E S S I G L C K V V E K Y L L E N P Q V Y
UniRef90_O81134 E T L P G V I Q D E K I I K E I K E D S F G M L K K V E Q Y L L S N P N L Y
UniRef90_B9RTC8 Y P K E G C E I N E E V K A G A E K A F G M F K A I I E A Y V L A N P D A C
UniRef90_A0A022RUU0 N V K G H E I T E D K I I K E G K E K A M A M F K A I I E A Y L H A N P D
UniRef90_A0A059DAZ6 F T I G E V D T T E E I I K A W K E K A P A M F K A I I E A Y L L A N P D A Y
UniRef90_V4S743 H T K G Q E I K E E A L K E A E E K A M G L H K I V E A H L A N P D L Y
UniRef90_W9RL38 H A Q D F E I D E E E I I R I G K E R A I G M Y R V V E A Y L F E N P G A Y D
UniRef90_V4U0E0 H T K G D Q E L K E E E M K D A E E K A T A L Y N L V E A H L A N P D L Y
UniRef90_B9RZK0 H T I G D F E L K E E D I I Q A R K E M T M G M F K A V I E A Y L L A N P N A

UniRef90_F6KDF1
UniRef90_P80889
UniRef90_U5G3N0
UniRef90_Q40795
UniRef90_V7B068
UniRef90_P27538
UniRef90_C6S224
UniRef90_V4RGD6
UniRef90_Q96233
UniRef90_W5RW67
UniRef90_C0IVY6
UniRef90_W1P051
UniRef90_I3T8V7
UniRef90_V4RFR9
UniRef90_S1SIE9
UniRef90_J3LMY3
UniRef90_I3SRT2
UniRef90_B7U9Z2
UniRef90_P93105
UniRef90_L7VFK2
UniRef90_I3SQH0
UniRef90_Q5GMN2
UniRef90_F6K713
UniRef90_A9NRA0
UniRef90_A5C110
UniRef90_D9IWE1
UniRef90_UPI00023B1FC8
UniRef90_Q8W1M7
UniRef90_A9NL28
UniRef90_UPI00032A8E52
UniRef90_A0A059B6G4
UniRef90_W1P8A6
UniRef90_Q5YBE7
UniRef90_I3S306
UniRef90_C0IW11
UniRef90_Q9AXK1
UniRef90_A0A022QYE7
UniRef90_D2D960
UniRef90_Q2VT55
UniRef90_E9M220
UniRef90_B9VRH3
UniRef90_A0FIJ6
UniRef90_P17641
UniRef90_T1LDJ2
UniRef90_D4HR93
UniRef90_K4DHG9
UniRef90_Q06930
UniRef90_V4U0E4
UniRef90_G7IMY4
UniRef90_G7IMY4
UniRef90_V9TH75
UniRef90_UPI0002C374A4
UniRef90_A6N8C4
UniRef90_B1PYZ4
UniRef90_W5RW65
UniRef90_A0A059DBH9
UniRef90_P52778
UniRef90_K4L959
UniRef90_V4RY59
UniRef90_W5AU86
UniRef90_B9N002
UniRef90_A0A022RVK4
UniRef90_MOSCU2
UniRef90_D9ZHN9
UniRef90_G8DRW1
UniRef90_Q41298
UniRef90_G9I485
UniRef90_P92918
UniRef90_A3QNN0
UniRef90_D3HUL1
UniRef90_Q5YJR3
UniRef90_V7AZF8
UniRef90_Q05736
UniRef90_B5M1X6
UniRef90_E6YBW4
UniRef90_W8T7L8
UniRef90_G7IMZ2
UniRef90_E5D8G2
UniRef90_P49372
UniRef90_V7B252
UniRef90_V4S747
UniRef90_A0A059B5B5
UniRef90_I1MGJ7
UniRef90_Q49065
UniRef90_E9JFV7
UniRef90_UPI00032AA28B
UniRef90_B9H206
UniRef90_Q5YBF0
UniRef90_Q06931
UniRef90_UPI0003DEBC88
UniRef90_D7SY81
UniRef90_B9RTB9

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

UniRef90_V9TH75
UniRef90_UPI0002C374A4
UniRef90_A6N8C4
UniRef90_B1PYZ4
UniRef90_W5RW65
UniRef90_A0A059DBH9
UniRef90_P52778
UniRef90_K4L959
UniRef90_V4RY59
UniRef90_W5AU86
UniRef90_B9N002
UniRef90_A0A022RVK4
UniRef90_MOSCU2
UniRef90_D9ZHN9
UniRef90_G8DRW1
UniRef90_Q41298
UniRef90_G9I485
UniRef90_P92918
UniRef90_A3QNN0
UniRef90_D3HUL1
UniRef90_Q5YJR3
UniRef90_V7AZF8
UniRef90_Q05736
UniRef90_B5M1X6
UniRef90_E6YBW4
UniRef90_W8T7L8
UniRef90_G7IMZ2
UniRef90_E5D8G2
UniRef90_P49372
UniRef90_V7B252
UniRef90_V4S747
UniRef90_A0A059B5B5
UniRef90_I1MGJ7
UniRef90_Q49065
UniRef90_E9JFV7
UniRef90_UPI00032AA28B
UniRef90_B9H206
UniRef90_Q5YBF0
UniRef90_Q06931
UniRef90_UPI0003DEBC88
UniRef90_D7SY81
UniRef90_B9RTB9

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

UniRef90_F6KDF1 A E I L E E G D G G G V G T T V I K K I T F G E G S T Y S Y V K H R I D A I I D S E N F V
UniRef90_P80889 S E I I E E G D G G G V G T T V I K K I V T L G E E A S Q Q F N T Y M K Q Q K R I D E T D D D K E D A N F T
UniRef90_U5G3N0 S E I I E E G D G G G V G T T V I K K V L T F V G E E A S Q Q F N T Y M K Q Q K R I D E T D D D K E D A N F T
UniRef90_Q40795 S E I I E E G D G G G V G T T V I K K V L T F V G E E A S Q Q F N T Y M K Q Q K R I D E T D D D K E D A N F T
UniRef90_V7B068 V E I L I E E G D G G G V G T T V I K K F S L P L G E E A S Q Q F N T Y M K Q Q K R I D E T D D D K E D A N F T
UniRef90_P27538 I E I L I E E G D G G G V G T T V I K K V L T F V G E E A S Q Q F N T Y M K Q Q K R I D E T D D D K E D A N F T
UniRef90_C6S224 V E T I I E E G D G G G A G T I V I K K L T L A E G E L S Q F T G Y V V K H H R I D D T I D D D A E N Y V
UniRef90_V4RGD6 I E V L I E E G D G G G V G T T V I T L W T F P D G G H Y K Q V K Q R I D D A L I D D N E N F T
UniRef90_Q96233 A S V V A V D G G S V G S I R Q Q I N F T S A M P F F S Y L K E R R L D D F D D D E A N F E
UniRef90_W5RW67 A A L I E E G D G G S V G S I R Q Q I N F T S D L P F F S Y V K E R R L D D F Y I D D H T N F F E
UniRef90_C0IVY6 A E N I E E G N G G G P G S T I V I K K I T F V E G S H F F K H L K Q R R L D D E L D D H T N F F K
UniRef90_W1P051 V D I C E E G D G G G V G S I V I K Q F N F T E A Q A Q E Y R K F V K D R T D D V F D D D K E N F T
UniRef90_I3T8V7 I Q L V E E G D G G G P G S T I V I K E I T V A Q G A D K H L K H K I D A L I D D K E N F T
UniRef90_V4RFR9 V V Y E Q G D G G E A G S V I V K I M Y F A E G S N K H T Y A K Q R R I D V L I D D K E K F Y
UniRef90_S1SIE9 V E T L E E G D G G S A A T V V R Q Q V N F T S G E S P F F K T V K N R I D G E I D D D A K E K F T
UniRef90_J3LMY3 A H P V E D G D G S A G T I V I R Q Q V N F T S G S A M P F F S H M K E R R L D D F L D D A D K F L E
UniRef90_I3SRT2 V E I V E E G N G G A V G T V I V K K I T I N E S G G E D K Y V L H K I D A I L D D E A N F V
UniRef90_B7U9Z2 V E F V E E G D G H T V G C I K K V V N F F A G G H E Y K Y A K H R I D E A L D D D K A N F Y
UniRef90_P93105 V E I L I E E G D G G A G T I V I K K V L H F F G G G P V P S V K H H R I E E A L D D D K D N M S
UniRef90_L7VFK2 V E I L I E E G N G G G P G S T I V I K K I S F L E D A E T K F V L H K I V E E T I D D E A N L G
UniRef90_I3SQH0 V E I L I E E G D G G G P G S T I V I K K F S L T E D G L T K G S V K H K I V D M V D D D P E N Y V
UniRef90_Q5GMN2 I E I V D D G D E G T I V I K K M N F V E G G G P T K Y L K H K I H V V D D D E K N L V
UniRef90_F6K713 I E Y T G G N G G P G S I V I K V L H F Y D G D E V K S M K H K V E E L D D D E A N L V
UniRef90_A9NRA0 I E F L E E G D G G A G T I V I K Q F N F T P A K E F S Y V K E R R I D D A L D D D E K L V
UniRef90_A5C110 I E F L E E G G E G E A G T I V I K Q I N F T E A S P L T Y M K H R I D D A L D D D K E K L T
UniRef90_D9IWE1 V T L I E E G D G G V G S I R Q Q I N F T P A H K F S F V K E R V I D E I D D D E K M V
UniRef90_UPI00023B1FC8 X E M L E E G N G G A G T I V I K K V L I L A G S R K F T S Y V K Y K I D D A V I D D E A N C
UniRef90_Q8W1M7 I E I V E E G N G G P G T I V I K K V L T V L A G G K T S Y V L H K I D A I D D D E A N F G
UniRef90_A9NL28 V T F I E E G D G G V G T I V I K Q L N F T P A N K F S Y A K E R V I D E M D D D E G K M V
UniRef90_UPI00032A8E52 I Q L L E E G N G G P G S I V I K E L T T E T A N K H V K H R I D A I D D D A K E N L T
UniRef90_A0A059B6G4 I E F L E E G E G G V G S I K K E T N Y G E T A H L I K Y T K H K I N A L D D D A D N Y Y
UniRef90_W1P8A6 V E V C E E G G G V G T V I V K K I N F T K E I K Y T Y V K D K T V A L D D D E K F F
UniRef90_Q5YBE7 V T L I E E G G G V G T I V I K E L N F T P A N K F S Y A K E R V I D E I D D D E A N M V
UniRef90_I3S306 V E T V E E G N G G P G T I V I K K L T V N E G G K S N Y V L N K I D E A I D D D E A N L V
UniRef90_C0IW11 V E N I E E G N G G P G T I V I K K I T F S E G S T F K Y V K E R V I D E A V D D H A N F K
UniRef90_Q9AXK1 I E T V E E G N G G P G S I V I K K L T L I E G G E T K Y V L H R I D E A I D D D E A N L G
UniRef90_A0A022QYE7 I E T V E E G D R T S G C I K K M T N F P E G A Q L K Y L K H K I D A I D D D T E N Y S
UniRef90_D2D960 I V H L E E G N G G P G T L R Q I N F S K G S P L T Y V K E T V D A I D D D K E N F T
UniRef90_Q2VT55 I E N V E E G D G G V G T I V I K K I T F V E G G G P M K Y L K H K I H V I D D D D K A L V
UniRef90_E9M220 I E I L E E G D G G V G T I V I K H I T L G D A T P F N S M K T R I D G L D D D K D A L T
UniRef90_B9VRH3 V E V I E A N P S S G S I V I K K L N F V E G L P F Q Y M K H Q I G G H D D D E N N F S
UniRef90_A0FIJ6 V E L I E E G D G G P G S I V I K K F N F V E G A D W K Y I L K H R I D A L D D D K E N K L V
UniRef90_P17641 V K N I E A E G D G S S V I K K M T F V E G S P I K Y L K H K I H V V D D D D K N L V
UniRef90_T1LDJ2 A H P V N G E G S S G S V I R Q F N F T S A M P F S V M K E R L E F L D D D E E K C
UniRef90_D4HR93 A H P V G E E G V G S I V I R Q F N F T S A M P F G F V K E R L E F F I D D D V D K C
UniRef90_K4DHG9 I E T I E E D H D G N I V I K K M N F V E G G Y P I K Y L K H K I H F F I D D D D K N M V
UniRef90_Q06930 V E I L E E G N G G P G T V I K K L T F V E G G Q T L Y V L H K V E A I D D D A K F E
UniRef90_V4U0E4 I D I L Q G D G G A G T I K L L N F A D G G G N Y K Q T K Q R I D A L D D D D N L T
UniRef90_G7IMY4 I D I L Q G D G G A G T I K L L N F A D G G G E T K Y D L H K V D L V D D D V N F A
UniRef90_G7IMY4 G G E T K Y D L H K V D L V D D D V N F A
UniRef90_V9TH75 G S I V E G E G V V I G S V R Q L N F S S V M P F S Y V K E R V D D F I D D H E K F E
UniRef90_UPI0002C374A4 I D T I I Q G G Q I L S V R R N R N R V D D E V D D D E N Y V
UniRef90_A6N8C4 I E L I E E G G S G A P G A I F Q T N F P E G A H F K Y M K C R V D E I D D H E K H S
UniRef90_B1PYZ4 V E I V E E G N G G P G T I V I K K L T L V E D G G E T K F I L H K R V E A I D D D E A N Y A
UniRef90_W5RW65 G T G E S G D G G A G S V I R Q L N F T S V M P F S Y V K E R L D D F V D D H E K F E
UniRef90_A0A059DBH9 I E V L K G D G G P R T I V I K L M T F G E G S Q Y K T A K H K V E A L D D K E N F T
UniRef90_P52778 V E I V E E G N G G P G T I V I K K I T A I H D G H T S F V L H K I D A I D D D E A N L T
UniRef90_K4L959 V E I V E E G N G G A G T I V I K K V T F A I E D G E S K H V L H K I E L V D D V A N W A
UniRef90_V4RY59 I D L L E E G D G G V G T I V I K K F N F T E V V K F R Y V K D R V E I M D D N E N H V
UniRef90_W5AU86 A H P V E E G E G G V G S V R Q F N F T S A M P F S V V K E R L D D F L D D A D G C
UniRef90_B9N002 S E I I E E G N G G P G T I V I R K I T F V E G K G L N Y V K Q K I E A I D D E E N F T
UniRef90_A0A022RVK4 F E I V E E G D G G V G T V I K I I H F G E G S Q F K F A K H K I D E I D D E E N F V
UniRef90_MOSCU2 G V V L E E G E G G A G S I R Q L N F S P A L P F G Y V K E R L D D F V D D V D K L E
UniRef90_D9ZHN9 V E I I K G D G G V G T I V I K H I T L P A D G G P V T T M T L R T D G L D D D K K G F T
UniRef90_G8DRW1 V E R L E E G D G G P G T I V I K K L T F A E G Y G F S Y A K H R V D V L D D K D N L L
UniRef90_Q41298 A H P V E E D D G G V G S V R Q F N F T S F M P F S F M K E R L D D F L D D V D K C
UniRef90_G9I485 I E T V Q G N G G I G T I V I K K T T L H E G N E L K S F K H K R D D K Y D D Q N Y V
UniRef90_P92918 V E I L E E G D G G V G T I V I K L V H L G E A T E Y T T M K Q K V D V I D D K A G L A
UniRef90_A3QNN0 I E N V I E E G D G G A G T I V I K K M T F V E G G P I K Y M K H K I H V I D D E K N L V
UniRef90_D3HUL1 I I E E G D G G P G T I V I K K I N F G E G S Q F N Y V K H W I D S L D D K E N F T
UniRef90_Q5YJR3 A S V V I S G D G S V G S I R E L K F T P A T P F S N L K E R L D L V D D H E K F E
UniRef90_V7AZF8 I E T V I E E G N G G P G T I V I K K L T A T E G G V T G F V L Q R I D A V D D E A N L G
UniRef90_Q05736 G S V I S G D G S V G T I V I R E I K I N N A L P F S Y V K E R L D D A V D D H D K F E
UniRef90_B5M1X6 V E F V Q G D C A P G N V K V L K Y V S E G E I K F V K H R V D E V D D V E K F Y
UniRef90_E6YBW4 I V F T Q G N G G A P G T I V I K K I T T I E G D K T K Y V L H R V D A I D D E A N F V
UniRef90_W8T7L8 I E T V E E G N G D V G T I V I K I F T F G D A V I P F A T G K Y K V D A L D A S N Y S
UniRef90_G7IMZ2 I E F T E G T G G A G T I V I K K L T T V E G G E T K Y V L H R V D E I D D E T K F V
UniRef90_E5D8G2 S T A V I S G G G N H G S V R Q L N F A P G R P F A F V K E R L D D F I D D M K E L E
UniRef90_P49372 V E I K G D G G P G T I V I K I T L P D G G P I T T M T L R I D G V I N K E A L T
UniRef90_V7B252 I E F T Q G N G A P G T I V I K K I T T I E G E E S K Y V L H R V D A I D D E S S F V
UniRef90_V4S747 V E V L E E G N G G P G S I V I K K F T L V E G G Q V K Y A K H K I E E D K V N L K
UniRef90_A0A059B5B5 I E S V K G D G G V I S I K Q T N F Y L K H H R F D S L D D T S N F L
UniRef90_I1MGJ7 A E I I E G D G G P G S I V I K K L V L V N G Y V N Q K V D V V D D E E N Y V
UniRef90_Q49065 I K T I E E G D G G V G T I V I K S I T Y S D G V P F T S S K H K V D A I D D S G N F S
UniRef90_E9JFV7 I V L V L I Q G D G G V G T I V I K Q T D F K E G F G V Y L K V K V D A V D D E S G N L K
UniRef90_UPI00032AA28B A E I I E E G D G G P G T I V I K K L N I I G G L G S V K N R V D A L D D K A N Y V
UniRef90_B9H206 I D I L E E G D G G V G S V R K F N F T D V L K Y S Y V K D R V E V M D Q E E N H I
UniRef90_Q5YBF0 V S L L H G D G G V G T I V I R Q L N F T S A N K F S H I K E R L D V I D D E E K M V
UniRef90_Q06931 V E I I E E G N G G P G T I V I K K L S I L E D G K T N Y V L H K L D A V D D E A N F G
UniRef90_UPI0003DEBC88 V E I I E E G D G R P G A I K K F T F R E G S Q L R Y V N Q K A D V D D V N N Y V
UniRef90_D7SY81 T E L I E E G D G P G S I V I K K I T F R E G S Q F N Y V K H R V D G L D D K E N F T
UniRef90_B9RTB9 I E F V Q G D G G V G S I V I K Q I N F Q E G M S P

UniRef90_F6KDF1 Y S Y S V I E G A P D S I E K I C Y E T K L V A S G T V I K S T S E Y
UniRef90_P80889 Y T Y S I I G G D I L L D T I E S I V N H F T K L V P T P D S G G S I V K N T T T I Y
UniRef90_U5G3N0 Y S F S L I I G S D V L W M E G V I D E S K V I N F F H L S F V P T P E A D G G G S I C K R R T S S K Y
UniRef90_Q40795 F S Y S L I I D G N D I L L G Y I D S V I N F F H L S F V P T P E A D G G G S I C K R R T S S K Y
UniRef90_V7B068 Y H Y T I V E G G N L L L T E P L I D E S K V I N F F H L S F V P T P E A D G G G S I C K R R T S S K Y
UniRef90_P27538 Y S Y S L I I E G G D L L L G L I E E S I T S K F T L V V A P T P D G G G S I V K N T T T I Y
UniRef90_C6SZ24 Y N Y S V I I E G G S A L L S E P L I E E K I C Y E T K L V A S G T V I K S T S S K Y
UniRef90_V4RGD6 C K Y T M Y D G G D G I L A V A E E K G V Y D V K I E A S G N G G G S V Y K F A A E Y
UniRef90_Q96233 C K S S L T I E G G D L G T K L E E S A S S H F K L V P T S N G G G S I V K L E G I F S
UniRef90_W5RW67 C K V T A I E G G G H L G T L L E E S A T S V R F K I E P T S T S N G G G S I C K A V T E S
UniRef90_C0IVY6 Y S Y S L I I E G G P L G D T L L E E K I S K E I K L I A A A P D G G G S I L K F S S K Y
UniRef90_W1P051 L K Y T V I E G G R L G T R F E N S L V Y E V K F D E A A N G G G S I V A K M K A D Y
UniRef90_I3T8V7 Y S Y K V I E G G D L P E K I E T I S H E I K I E P T A E A N G G G S K V K N V T S K Y
UniRef90_V4RFR9 C K Y T V F E E D N M L D T L E E S I V Y E I K F E A S G D G G G S N C K T S A T E F
UniRef90_S1SIE9 Y G Y T V I E G G D V L M N T L E E K L I C N E I R F E A S P E A N G G G S I C K S S S T Y
UniRef90_J3LMY3 C K S T L V E G G G A L G K A L E E T A T S H I K V I E P A A N G G G S V V K K V E S T Y
UniRef90_I3SRT2 Y N Y S V I I E G G D G L P D A A E E K I S F E S K L I A G S S D G G G S I A K L T T H F
UniRef90_B7U9Z2 I K D T T I E G G D V L G D K L E E Y I S V N E A K Y E V S S S H G G S V C K L N T T S F
UniRef90_P93105 Y K Y S I V D G E A L M P G L Q S I T S Y V I K I E P S G H G S V C K H N T T F
UniRef90_L7VFK2 Y S Y S I V G G A A L P D T A E K I T I D T N L S D G P N G G G S I L T L T I S Y
UniRef90_I3SQH0 Y H Y T I I E G G K A L L D Q L E E S I T S Y E Y K S M A S G N D G G G S I I K T T S K Y
UniRef90_Q5GMN2 S K Y S L V E G G D V L G D K L E E S I T Y E V K F E A S G N G G G S V C K T T S E Y
UniRef90_F6K713 Y K F S I I E G G E N M G T D F E A V S V S K V I E A G P D G G G S T F R S I N T Y
UniRef90_A9NRA0 Y K Y A V I E G G P L G N N I L V A S Y E I K F V A R E D G G G S L T R T S N Y
UniRef90_A5C110 C T Y T M F E T D A L M D K I E Y I T Y D V K F E P Y A R E D G G G S V C N L T S V Y
UniRef90_D9IWE1 L K Y T N I E G G V L G K K L S A A K F E V K F V P R K E G G G S V A S W I C N Y
UniRef90_UPI00023B1FC8 C K Y S L I I D G D M L G D K L E E T I K Y E V K F E A F P G P N G G S V V G K S S S H Y
UniRef90_Q8W1M7 Y N Y S L I I G G T G L E E L E E K V T F E T K L L P G P N G G S V V G E V I T V T Y
UniRef90_A9NL28 F K Y T T I E G G G L L G K K L N A S N F E L K F V P R K E G G G S V V S W I C N Y
UniRef90_UPI00032A8E52 F N Y A V I E G G H G K P E M L E S I L Y E I K I E P S P E A D G G G S K I K N V I K Y
UniRef90_A0A059B6G4 C K Y T L I E G S D I K F D K I L D F I I E E V K F V A A D S G G G S I C K M T S E Y
UniRef90_W1P8A6 L K Y S L I E G G G L I G K K F K S V S I E F K F E E G A N G G G S V S K M K T E Y
UniRef90_Q5YBE7 F K Y T T I E G G L L G K K L S A S N F E L K I V P K K E G G G S V V S W I C N Y
UniRef90_I3S306 Y N Y S L V G G S E F P E N V E K I T F E S K L V D G P N G G G S I G K L K V K Y
UniRef90_C0IW11 Y S Y S V I K G G P A G D T L E K I C N E I K I V A T P D G G G S I L N I S N K Y
UniRef90_Q9AXK1 Y N Y S I V G G V G L P D T I E K I C Y E T E F E A C E A N G G G S I G K V T S E Y
UniRef90_A0A022QYE7 C K Y T L V E G G D V L G E K L E E K I C Y E T E F E A C E A N G G G S N I K M T S E Y
UniRef90_D2D960 F E Y S V V E G D P M N N A L E E K I A Y Q I K F E P S P D G G G S I C R S S K S Y
UniRef90_Q2VT55 T K Y S L I E G G D A L A D K A E S I V D Y D A K L E G S A N G G G S V A T T V T V Y
UniRef90_E9M220 Y S Y T I I E G G D L L L G I E S I T N H F T V V P R A E G G G S I V M K N T I Y
UniRef90_B9VRH3 Y S Y S L I I E G G P L G D K L E E K I S Y E N K F E A A S G G G S I C K S S M K F
UniRef90_A0FIJ6 Y N Y T A I E G G D A N L P T I D S H I S Y E S K V V A G T P D G G G S K S T V V I K F
UniRef90_P17641 T K Y S M I E G G D V L G D K L E E S I S Y D L K F E A H G N G G G S V C K S I A E Y
UniRef90_T1LDJ2 C K S T L I E G G G I G S A I E T A T S H I K V I E P A N G G G S G A E G S T T Y
UniRef90_D4HR93 C K S T L V E G G G V I G V A I E T A A S H G V K F E E S A A G G G S V V K V I D S T Y
UniRef90_K4DHG9 I K Y S L I E G G E V L G E N L E H I S Y I R F E E C E A N G G G S I C K T I S E Y
UniRef90_Q06930 Y N Y S L I V G G V G I S D I V E K I S F E A K L F E G P N G G G S V G K M I V K Y
UniRef90_V4U0E4 M K Y T T Y E G G D G L L K M T D K S V Y D V K I M D S G G G S I C K F V A E V
UniRef90_G7IMY4 Y N Y S I V G G G G L P D T V E K I S F E S K L S A G P D G G G S I A K L T V K Y
UniRef90_G7IMY4 Y N Y S I V G G G G L P D T V E K I S F E S K L S A G P D G G G S I A K L T V K Y
UniRef90_V9TH75 C K V S A V E G G H L G T L L E E S A S A H F K F E P T S S G G G S I V K V V T E T
UniRef90_UPI0002C374A4 Y N Y T L I E G G D A V M E K V E F I S Y E V K F E A T S P E G G S K N R M V S K Y
UniRef90_A6N8C4 I K Y T L I E G G D M L G D K L E E K I C Y D M K F E D T E D G G G S V V K V T S E Y
UniRef90_B1PYZ4 Y N Y S V V G G V A L P T A E K L T F E T K L V E G P N G G G S I G K L S V K F
UniRef90_W5RW65 C Q S T I I E G G H L G T R L E E S A S A H F K V E P T S A G G S I V T V T N T
UniRef90_A0A059DBH9 Y C Y S I I E G G E V L G T T F E K I S Y S Y E S K I L P G P D G G G S I V G K I S N V K F
UniRef90_P52778 Y N Y S I I G G E G L D E S V L E K I S Y S F E A K L S A G P N G G G S I V G K I S N V K Y
UniRef90_K4L959 Y N Y S I V G G V G L P E G S L E K I S Y S F E A K L S A G P N G G G S I V G K I S N V K Y
UniRef90_V4RY59 F R Y S I V E G G I L G F K V N S Y V A E V T F T S S S D G G D C F A K L K I E Y
UniRef90_W5AU86 C R S T L L E G G H V G T V I E T A T S C I K V I E P A G G G G S V V K K V E S T Y
UniRef90_B9N002 Y S F S V I E A D V W F A E V I E K V I Y E N K F V P T P E G G G S I C K R T S T Y
UniRef90_A0A022RVK4 F K Y T I L E G D A L I A G L D S I S Y V I K I E A G P D G G G S V C K T T S T Y
UniRef90_MOSCU2 C K Q T V I E G G H I G S K L E E T A S T H F K F E P K A G G G S V L K V V S T Y
UniRef90_D9ZHN9 I D Y S L I V D G D V L M G F I E K I E N H L S V V P T A D G G G S T T K T T A I F
UniRef90_G8DRW1 Y T Y V V I E S D F F N N M V E K I S Y E T K F V A A A D G G T S I J K V N T T F
UniRef90_Q41298 C K N T L V E G G N M R R I E T A A S H I K V I E P A A G G G S V V K V E S T Y
UniRef90_G91485 Y E Y S L Y E G E P S I D R G I E K V T V G I E I E G S G D G G S V V H V S F K T
UniRef90_P92918 Y T Y T T I G G D I L V D V L E S V V N E F V V V P T D G G G S I V K N T T I Y
UniRef90_A3QNN0 T K Y S L I E G D V L E G K A E S I V D Y D G K F E A S A D G G G S V C K N T V T Y
UniRef90_D3HUL1 Y C Y T I I E G D A L M D N L E S I Y Y E V K L V A S P D G G G S I C K N I S K Y
UniRef90_Q5YJR3 V K S T V V E G G T L G V H V L E S I S T H F K L E P T V N G G G S I V R V T A T Y
UniRef90_V7AZF8 F D Y S I V G G P G L H E S L E E K L T Q T K V V A A P D G G G S I S K V S V K Y
UniRef90_Q05736 V K Q T L V E G G G L G K M F E C A T T H K F E P S S N G G G S L V K V T A S Y
UniRef90_B5M1X6 Y K Y T T T E G D L L G D G I E C I V V I E E K V I E A K G T G G G S V V K M S S H F
UniRef90_E6YBW4 Y N F S I T E G T A L A D T L S K V S F E S Q L V E A P N G G G S I R K Q V S V Q F
UniRef90_W8T7L8 Y S Y S F I E G D N L A F D L S S I N H H V K V V P S P D G G G S V R K Q T V V Y
UniRef90_G7IMZ2 Y N F S I I G G T G L A D T L E E K V S F K S Q L V E G P N G G G S I R N V H V D Y
UniRef90_E5D8G2 C K S S L V E G G L I L G F I E S I S F H Y K F E A A S N G G S I V K L T V T L
UniRef90_P49372 F D Y S I V I D G D L L G V K I E S I E N H V V L V P T A D G G G S I C K T T A I F
UniRef90_V7B252 Y N F S I I D G T A L P Q T L E K I S F Q T Q L L E S S N G G G S I R K V N A N F
UniRef90_V4S747 L K Y S V I E G N D A L A D K I E K I S Y E H Q W R A S P N G G G S I C K T I C K L
UniRef90_A0A059B5B5 C K Y T L K G D A I A D K I E S I I Y E V K F E A S N G G E C I Y K M T S E Y
UniRef90_I1MGJ7 Y H Y T V D E G S V L S D L L E K V C Y E Y K L V A S D G G G S I I K S T V K Y
UniRef90_O49065 I S Y T I F E G D V L M G I E S G T H H L K F L P S A D G G G S I Y K H S M V F
UniRef90_E9JFV7 Y I I Y T A F E G E P V W V D T V E K A T Y E A E V V A T P G G G S I Y K A T N K Y
UniRef90_UPI00032AA28B Y N Y S I N E G I A L S D Q L E K I S F E Y K L V P N P D G G G S I V K S T I K Y
UniRef90_B9H206 V R Y S T I E G G V I G V K V K S A Y S V E V S L T S T N E G G C L S K M K I E Y
UniRef90_Q5YBF0 H K Y A A I E G G S L G V K L S A L N F E L K F V R R E E G G S V L T W I C N Y
UniRef90_Q06931 Y N Y S L V G G P G L H E S L S A L N F E T I T L A G S D G G S I V K I S V K Y
UniRef90_UPI0003DEBC88 Y D Y T I V E G N V L S D R E D K M C N E Y K L V X K P D G R C I I K V T R K Y
UniRef90_D7SY81 Y T Y S V I E G D A L M G T L E S I S Y E V K L V A
UniRef90_B9RTB9 Y T Y S V I E G D A L M G T L E S I S Y E V K L V A
I E V I Q F L P G Q D G G S I N K M K S T Y

UniRef90_F6KDF1 H[V]K G D [V]E I K E E V K A G K E K A S H L F K [V] I E A Y L L E H H E A Y N
UniRef90_P80889 N T I G D A V I P E E E I K K D A T E K A G L I F K A V I E A Y L L A N P D A
UniRef90_U5G3N0 Y T K G D A G A V I P E E E I K K F A N D K Q N N L I F K A V I E A Y L L A N P D A
UniRef90_Q40795 N T K G D A G A V I P E E E L K E S T K E M S A V F A K A V I D D Y L L A N P D Y N
UniRef90_V7B068 Y T K G D A E L P E E E V K T G K E R S A G M V F K A I E A Y L L A N P D G A Y N
UniRef90_P27538 T P I G D A V I P E E E V K T G K E R S A G M V F K A I E A Y L L A N P D G A Y N
UniRef90_C6SZ24 Y T K G D E Q L A P E E E V K T G K E R S A G M V F K A I E A Y L L A N P D G A Y N
UniRef90_V4RGD6 [V]K D G E E L K E E H V K D A E E R G S G L Y K V L E A Y L V A N P D L Y
UniRef90_Q96233 K A L P G A V E T D E E A K A K K E M M T N A I K A A E A Y L V A N P T A Y
UniRef90_W5RW67 K F K P G A H A G D E E A K A K K E A L V K L F K G T E A Y L V A N P D A Y
UniRef90_C0IVY6 Y T K G N I S I N E Q I T K A E K E K G A G L F K A I E G Y L L Q N P D A Y
UniRef90_W1P051 D T I G D A T A I D D E E V K A Q M K E N L L S L F K A V I E A Y L L A N P D A Y
UniRef90_I3T8V7 H T K P G A A I K D E E E F K A A R E E A L G V L K V V D A Y L V A N P D A Y
UniRef90_V4RFR9 H I K G D S K L I E E E L K G S V I E L G T A L F K A V I E A H H L A N P D L Y
UniRef90_S1SIE9 Y T I G D T I E I K E E E I K S K A K E S L L T A I F K T A E A Y L L A N P D A Y N
UniRef90_J3LMY3 K L L P G V I E V K D E E I K K A K E S L L T A I F K T A E A Y L L A N P D A Y N
UniRef90_I3SRT2 H L L K G D A K P T E E E L K E G K E K G D G L F K A V I E G Y L L A N P D A Y
UniRef90_B7U9Z2 U T T K G D A V L E E D V I K A G K E K M H K L F K A V I E E Y L L A N P Q A Y
UniRef90_P93105 H T K G G S N I L N E E D V I K A G K E R A A E M I K A V I E A Y L L A N P D A Y
UniRef90_L7VFK2 H G K G D A P P N D E L K A G K A K S D A L F K V I E A Y L L A N P D A Y
UniRef90_I3SQH0 Y T K G D A Q L P E E L K A I K E S D R S T K A V I E D Y L L A N P D Y N
UniRef90_Q5GMN2 H T K G D H V V E E H N V G K E K A I D L L K A V I E A Y L L A N P D V Y N
UniRef90_F6K713 T T K G D N E I Q A S I T K K A K D G L A G F F Q A V V G H L H A N P D A Y N
UniRef90_A9NRA0 E T L P G A Q F R E D E K V K E K K M N A M F E K V E Q Y L L S N P N L Y
UniRef90_A5C110 K T K G D V E I R E E I E H G K D R A I G M Y E V L V E A Y L M A H P R A Y T
UniRef90_D9IWE1 E T L P G A Q L I E E S A K E I K E N S I A M L K K F E Q Y L L S N P S L Y
UniRef90_UPI00023B1FC8 H M K G A W N F D E D I Q A G K D K A L A A Y K V V K D F H L V A N P D V C
UniRef90_Q8W1M7 H T K G D A P L S D E V R E G K A K G T A L F K A V I E D Y L L A N P D A Y
UniRef90_A9NL28 E T L P G A Q L I D E K A Q E L K E Q S N A M F K K I E Q Y L V S N P N L Y
UniRef90_UPI00032A8E52 H L K Q E V I E K E E F K D A M E E A L I V L K I V D A Y L L A N S E A Y
UniRef90_A0A059B6G4 H V K E G A E L K E E F K K G M K D K A M G L F K A V I E Y L L A N S N V C
UniRef90_W1P8A6 E T I G D A P L S E E G K E M K E N L L S M F K A V I E G Y L L Q N H D A Y
UniRef90_Q5YBE7 E T L A G A P V D E E K A Q E M K E Q S N H M F K K I E Q Y L L S N P S L Y
UniRef90_I3S306 H S K G N A E P N E E V K E G K A R G D A L F K A I E G Y V L N H P E Y N
UniRef90_C0IW11 H T R G N Q E M K E E Q I K D I K E K G E A L L R A V I E G Y L L A N P D A Y
UniRef90_Q9AXK1 E T K G D A Q P N E E E K A A K A R G D A F F K A L I E N Y L S A H P E Y N
UniRef90_A0A022QYE7 H T K G D F V I D E D I K A G K E Q A M E L C K S S E Y L I A N P D A Y
UniRef90_D2D960 T V D G I E V N E E E I K A G Q E L F A G I F K T F E A Y A L A N S D A
UniRef90_Q2VT55 H T K G Y V V T E E H N V H K G R A N D I V K A I E A Y L L A N P S A Y
UniRef90_E9M220 N T I G D A V I P E E E L K D A S D K S T L L F K A V I E A Y L L A N P D A Y
UniRef90_B9VRH3 Y T V G D N V I T E E I K A L T K G S E G V Y K P V I E A Y L L A N P E A C N
UniRef90_A0FIJ6 Y P K P G A E I K E E V K G G L E K E K G I F K A L E A Y A L A N P N A
UniRef90_P17641 H T K G D Y V L K E D H N E G K K Q G M E L F K I V E A Y L L A N P D V Y
UniRef90_T1LDJ2 K L L P G V E V N D E I T K A R E S V T A I F K A A E A Y L I A N P D A Y N
UniRef90_D4HR93 K L L P G V E V Q D E I T K A K E S V T N I F K A A E A Y L V A N P F A Y N
UniRef90_K4DHG9 H T N G N C I E V K E E I K E D R D K A I E L F K L V I E A Y L L A N P F A Y
UniRef90_Q06930 H T K G D A K P I E E V E E G K A K G D A L F K A I E A Y V L A N P N Y N
UniRef90_V4U0E4 H A N D D K L V E E H A K E S E K G S E L F K L V E A Y L L G N P L Y
UniRef90_G7IMY4 F T K G D A A P N E E I K G S E K A R G D G L F K A L E G Y V L A N P D A Y
UniRef90_G7IMY4 F T K G D A A P E E E I K G G K A R G D G L F K A L E G Y V L A N P D A Y
UniRef90_V9TH75 K L K P G A V S D D D E A K A K E S M V K L F K V A E A Y L I A N P D A Y
UniRef90_UPI0002C374A4 H T K G D I V L D D M I S G R E K A L G M Y K V V I E A Y L L Q N P D V Y N
UniRef90_A6N8C4 H T K G Y E L A D E D L K G A K E Q S L G M Y K S C D Y L L A N P H V C
UniRef90_B1PYZ4 H S K G E A K P E E E M K G K A K G E A L F K A I E G Y V L A N P T Q Y
UniRef90_W5RW65 K P L P G I E A D E V I A A A K G A I E K H F R A A E A Y L L A N P D A Y
UniRef90_A0A059DBH9 H T K G D V L S E T V R D Q A K F K G L G L F K A I E G Y V L A N P D A Y
UniRef90_P52778 F T K G D A A P S E E L R D K D K A K G D G L F K A I E G Y C V A N P D Y N
UniRef90_K4L959 E S L G D S A L L S E E V R N I K Q G I Q T M V K A A E R F L A N P N A Y
UniRef90_V4RY59 K L L P G V E A Q Y E V G K A K E S V T A I F K A A E A Y L I A N P D A Y N
UniRef90_W5AU86 H L K G D E I N K D E K I K V Y G K T E A L F K V V I E A Y L L A N P D A
UniRef90_B9N002 H T K K E H H T E E K I K E G K E K A K A I F H A I E A H L H A H P Q E Y
UniRef90_A0A022RVK4 K F L P G V E D N E E I V K S A K E T L T G I M K A A E G Y L V A N P S A Y
UniRef90_MOSCU2 H T K G D A V V P E E E I K Y A E A Q N T M L F K A V I E A Y L I A N P D A Y
UniRef90_D9ZHN9 Y T I G D T Q I T P D L K E A S E K R A L I L K A I E N Y V L A N P D A Y
UniRef90_G8DRW1 K L L R G V D A K D E E A K A K E A L T A L F K A A E A Y L V A N P D A Y N
UniRef90_Q41298 Y P K G N A L L Q G R V E A D S D K Q K L A G M V Q A I E Q Y L L A N P N A Y
UniRef90_G91485 N T K G D A V L P E D I K E A T E K S A L A F K A V I E A Y L L A N P D A Y
UniRef90_P92918 N T K G Y V V T E E H N V H K D K A N D L L K A I E A Y L L A N P S V C
UniRef90_A3QNN0 H T K G D I Q I T E D I K A G K E K A M G M F K A I E A Y L L A N P D A Y
UniRef90_D3HUL1 K L L P G V Q D D A E V A K A K V A L T K H I K A A E A Y L V A N P T A Y
UniRef90_Q5YJR3 H T K G D A P L L E A V E S K A R G T G F F K A V I E S Y V L A N P T A E Y
UniRef90_V7AZF8 K I L P G V A D E V S A K A K E G I T N H M K A I E A Y L L A N P T A Y
UniRef90_Q05736 H T K G D A E L D E E L K M G K E K I T L T F K V V D E Y L Q A N P E V Y
UniRef90_B5M1X6 F T K G D A T L E E E I T A N K A K I Q G L V K L V E G Y L L A N P D A Y
UniRef90_E6YBW4 S C K G D E K P S E E E I K K E K E L Y E N T Y K A I E A Y A V A H P E T Y
UniRef90_W8T7L8 F T K G D Y N L I E E E L K A G K A K V E G L V K L V E G Y L L A N P D A Y
UniRef90_G7IMZ2 K T L A G A V A E G E T E S T K E G V T K R I K A V I E A Y L L A N P T A Y
UniRef90_E5D8G2 H T K G D A V P E E E I K Y A N E Q N T A L F K A L E A Y L L A N P D A Y
UniRef90_P49372 F T K G E A L T D E E D L K A N Q A K I Q G L V K L V E A Y L L A N P H
UniRef90_V7B252 H A K G E V E V T E E A K A G K E K V I G V V K G V E A Y L Q A N L D V C N
UniRef90_V4S747 H A K A S V E L K E E V K Q G K V K A V G L Y K I V E E Y L L V N P N V Y
UniRef90_A0A059B5B5 Y T K D D T Q L S E E L K D N K E K S A A F T K A V V D Y L L A N P N Y N
UniRef90_I1MGJ7 K C K G D A K I L D E V S L M K E G L K K T F K A I E T Y V I S H P E A C
UniRef90_O49065 Y P K G N A E I D P S I K E A E D M T D G F V K A I E A Y L V A N P D A Y
UniRef90_E9JFV7 Y T K G D A Q L S Q Q L D D G N E R C N S F T K A V V D Y L Q Q N P N Y N
UniRef90_UPI00032AA28B E S I G D S L S E E A N D E M Q Q G I F A M V K A V A D A H L V E N P T A Y
UniRef90_B9H206 E T L P G A P D G E A V D E I K K M D D A M F R K I E Q Y L I S N P D L Y
UniRef90_Q5YBF0 H T K G D A A L S D A V D E T K A K G T G L I K A I E G Y V L A N P D A Y
UniRef90_Q06931 Y T R G D A Q I X E F L K S I K E M S A D G S S F D D H L L A N P D Y N
UniRef90_UPI0003DEBC88
UniRef90_D7SY81
UniRef90_B9RTB9 N T K G D I V L G E E V K A G K E K A L G M Y K V V I E G Y L L Q N P D A Y

UniRef90_Q9LWB1
UniRef90_A9PI40
UniRef90_Q9SCH7
UniRef90_P93330
UniRef90_A0A059B4R2
UniRef90_B5M1X5
UniRef90_Q0Z8U9
UniRef90_B9RTC4
UniRef90_Q8W2B4
UniRef90_E4Z8M2
UniRef90_A0A059B4Z9
UniRef90_E3W9N4
UniRef90_V4RFS3
UniRef90_V4S1Y2
UniRef90_I3T2N7
UniRef90_I1H6C9
UniRef90_C6SWY6
UniRef90_B1Q190
UniRef90_E9JS92
UniRef90_A0A059B504
UniRef90_Q6T6J0
UniRef90_M0UCN1
UniRef90_A0A022QZ46
UniRef90_G1FK78
UniRef90_S8CW75
UniRef90_B0YIU5
UniRef90_B9RZJ9
UniRef90_G3DQE4
UniRef90_K7LBR3
UniRef90_Q40154
UniRef90_S8BY34
UniRef90_B0ZC07
UniRef90_A9NMK0
UniRef90_A0A059DEK7
UniRef90_A9NU54
UniRef90_D8SVZ2
UniRef90_D7U2D7
UniRef90_UPI00042B5F0E
UniRef90_B9HX01
UniRef90_W5E8J6
UniRef90_U5G6V9
UniRef90_L7Z652
UniRef90_D8RV32
UniRef90_A0A059B5L8
UniRef90_V4KE82
UniRef90_V4KE82
UniRef90_A0A059D5M5
UniRef90_H9BPH6
UniRef90_A0A059DF17
UniRef90_Q6ZXH8
UniRef90_G9BZW5
UniRef90_M5XT64
UniRef90_W517L8
UniRef90_J7FNN9
UniRef90_A5C111
UniRef90_B9RTB7
UniRef90_Q5Y360
UniRef90_D8RV33
UniRef90_Q8VX97
UniRef90_I1BG0
UniRef90_G9BZZ6
UniRef90_I1H6C6
UniRef90_M0ZYA5
UniRef90_A0A059DBK6
UniRef90_D7KYF1
UniRef90_D7KYF1
UniRef90_Q93VR4
UniRef90_M4DI51
UniRef90_F4YFB5
UniRef90_D8T4D4
UniRef90_A0A059BUX8
UniRef90_Q8LJU1
UniRef90_UPI00032ABC47
UniRef90_ROICE0
UniRef90_A0A022QQ46
UniRef90_ROGGA0
UniRef90_Q8LBV2
UniRef90_F4K5S5
UniRef90_M5W0Z5
UniRef90_W9RD59
UniRef90_V4W5T3
UniRef90_V9LY34
UniRef90_A0A059DB21
UniRef90_UPI00032A6D4D
UniRef90_U5XWB7
UniRef90_UPI0002C33AC1
UniRef90_UPI00042B1BFE
UniRef90_ROIFR8
UniRef90_F6H6U8
UniRef90_A0A059B5C9
UniRef90_B0B0L8
UniRef90_V7C8Q5

1 10 20 30 40

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

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

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

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

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

UniRef90_Q9LWB1 V N I E G D G G G V G T I K S I T Y G D G V P F T S S K H K V D T V D T S N F S 80
UniRef90_A9PI40 I E T I K E G N G G G P G T I K K L T F A E E G V P F K Y A K T R I V D A V D D K V N L T S
UniRef90_Q9SCH7 V E N I E G N G D G G P G T I K K L I S F P E G F P F K Y V K D R V D E V D H T N F K
UniRef90_P93330 A E T L E G D G G G P G T I K K L T F V G D F G S T K Q H I D M V D D R E N C A
UniRef90_A0A059B4R2 I E F L K G D G G R A G S I K K I N F S E G T T F K S V K H H R V D E L D D K F Y
UniRef90_B5M1X5 V E F V H G D G G C A V G T V K K I N F S E G T T F K S V K H H R V D E L D D K F Y
UniRef90_Q0Z8U9 V E I L E G N G G G V G T V K K I N F S E G T T F K S V K H H R V D E L D D K F Y
UniRef90_B9RTC4 V E I L E G N G G G L E P L R R R L H L G E H S Q K R I H V K N K I E A I D D K V N L T
UniRef90_Q8W2B4 V E T L E G D G G V G T I R K I V F H E G H G G Y I K Q K I E V V D D K E N L Q
UniRef90_E4Z8M2 I E D T L E G S Q L K S V I N R V D E V D D E E N F V
UniRef90_A0A059B4Z9 I E F V E G Y G S A V S I K S S K R K I D T L Y T E N L V
UniRef90_E3W9N4 I E I L E H G D G G P G T I K K Q F N F A E G T E I K F V K H R V D A I D D K K M T
UniRef90_V4RFS3 I E D I L E G D G G D G T I L K R Y N D F G D V N Q K I D A L D D K D N F S
UniRef90_V4S1Y2 I E Y F E G D G D V G T I K Q I N Y I E G G E I R Y T K H R V D A L D D K E K F M
UniRef90_I3T2N7 V E F I E G T G A A G T I K K Q M T V L D D G E S K Y M L H R V D E D D A D K L V
UniRef90_I1H6C9 A H P V E G E G S I G S V R Q F N F T S V M P F S F M K E R L D D F V D D A K C E
UniRef90_C6SWY6 I E I V E G N G G P G T V K K I T A S E G D Q T S F V L Q K I D A I D D E A N L V
UniRef90_B1Q190 I E I L E H G D G G A G T I R K T N L A D G S Y V K I R I E A V D D D N Q V
UniRef90_E9JS92 G E I V E G D G G V G T V T K I T F V D G H P F T Y M L H K F H A A N F Y
UniRef90_A0A059B504 I D I I Q G D G G G T G S S Q L R S M K N R V D E L D D E E N F T
UniRef90_Q6T6J0 I E L V E G N G G V G T I K K I T A N E G D K T S F V L Q K I D A I D D E A N L G
UniRef90_M0UCN1 V E L I E G D G E A G S T I K L F R F T P A A K P S F V K D H V E V L D H A S H T
UniRef90_A0A022QZ46 V E I L H G D G G S G T I R K T T F A D D G S A A T Y K I H A L I E T E N Y E
UniRef90_G1FK78 I D I L K G D G G V G T I K R T T Y G D A V P F T S A K Y K I D A I D D A S N F S
UniRef90_S8CW75 I E T V E G D G G R A G S V K L I T T A H G D D I K T S K Q R V D E V D D E E K L V
UniRef90_B0YIU5 I E I V E G N G G P G T V K K V T A V E D G K T S Y V L H K I D A I D D E A T Y T
UniRef90_B9RZJ9 V Q I L E G D L G P G T I R E V I F G Q S V S Q F N Y V K H M I E E G I D D T D N L I
UniRef90_G3DQE4 A H H A E G D G G I G S V R H Y N F C N S A M P F N V M K K K V I E F I D V D C E
UniRef90_K7LBR3 I E I I Q G N G G G P G S I K Q F N F V E G S Q V K S V K N R V I N E I D D E D T F T
UniRef90_Q40154 I D V I E G N G G P G S I K C I H F A D A V P V K L V K F K I D A L D D E S N L T
UniRef90_S8BY34 I E I R A G N G G P G S I K L L T A T P G S K F K T M K K R V E E L D D G E K R V
UniRef90_B0ZC07 I E I I A G N G G P G T I K K I T F A E E G S H F K Y L K Q K V E E L D D E A N F T
UniRef90_A9NMK0 I E V I E G D G N V G T I R K L T Y G E A M K G A H A S E K I E A V L D D E T N M T
UniRef90_A0A059DEK7 A E F V E K F T S M E G N R D R T V K H K I E A L D D N E N F T
UniRef90_A9NU54 I E M I E G D G K V G S T R H I K Y G E G M K M T H A T E R I D A I D D E T N M T
UniRef90_D8SVZ2 V Q T V E G D G K V G S V R L V H F P G P G T Y A K E K I E S L D D E S N S
UniRef90_D7U2D7 I E F V E G D G G V G S I K Q T N F P E G S H F K Y L K H R I D A I D D N Y S
UniRef90_UPI00042B5F0E S E L L E G D G G P G S I K K I T F G E D Q L R
UniRef90_B9HX01 I V N L D D G G G P G T I K K I T F G E D Q L R
UniRef90_W5E8J6 A H P V E G E G G I G S V R Q F N F T L A M P F S V M K E R L E F I D D A D K C E
UniRef90_U5G6V9 I A I L E G D G G P G T L K Q T Y F G D G S L S F K E R T D A I D D K E N L S
UniRef90_L7Z652 V D F V E G D T T V G C V K Q M N F A D G G P Y K Y M K T K I N E L D V D K Y Y
UniRef90_D8RV32 I E L L E G T G G T V G S V R L L T F G P A P Y V K E K V E F V D E E S K T
UniRef90_A0A059B5L8 M E L I H G D G G P G S I K Q M N F
UniRef90_V4KE82 C D L H E G D G K V G S I V Y W N Y V H G K E A K V A K E R I E A V E P E K N M
UniRef90_V4KE82 C D L H E G D G K V G S I V Y W N Y V H G K E A K V A K E R I E A V E P E K N M
UniRef90_A0A059D5M5 I E V L E G D G K P G S V R L F T Y G E G S P V K V S K E K I D G V D D E A D K V
UniRef90_H9BPH6 V E I V E G N G G A G T I K K Y T F V E D G E T K H V F H K V E E L D D V A N W V
UniRef90_A0A059DF17 A E V V Q D I T S G E G N R N C V D K V H K K V E A L D D N E N F T
UniRef90_Q6ZXH8 S E I I E G N G G P G T I R K A T F V E G K G L T N V K Q K I E T I D E E D F A
UniRef90_G9BZW5 V E T V E G N G G P G T I K K L X F V E D G E T K Y V L H K I E A I D D E A N F G S
UniRef90_M5XT64 I D V L E G D G K V G S V R L L T Y S E G S P I K V S K E T I D A V I D E A N K S
UniRef90_W517L8 A H P V E G E G G I G S V R Q F N F T S A M P F D L M K E R L E F I D V D K C E
UniRef90_J7FNN9 I L L E G D G G V G T I K V I T F G E S S Q F K S V K Q R V D N I N K E N L T
UniRef90_A5C111 I D I L E G D G G V G T I K K F N F T N A V K C S Y V K D R V E V M D E E N R I
UniRef90_B9RTB7 V E L L E G D A R P G S I V K I T F V E G L P Y Q Y M K H Q I G G S H D E E N F S
UniRef90_Q5Y360 V E S L E G D G S A G S V R I L N F F G P A V P M K F I K E R V S V D E A N Y T
UniRef90_D8RV33 V T F L Q G D G G V G T I K Q L N F T P A N K F S Y A K E R V D E M D E E K M V
UniRef90_Q8VX97 V E L V E G D G G L G T V L L L T F P P G I R F E Y Q K E K F I K I D D E E N F V
UniRef90_I1BG0 V E T V E G N G G P G T I K K I T F V E D G E T K Y V L H K I E A I D D E A N F G
UniRef90_G9BZZ6 A H S V E E D G S I G S V R Q F D F T S A M P F S L L K E R I E F I D D A E K C E
UniRef90_I1H6C6 I E V V E G D G K V G S V L L T K Y T E G F P V T F S K E K I E S L D D E A N K T
UniRef90_MOZYA5 V E L V Q G D G G A G S I E Q V N J A E A S H F K N V K H R I D E L D K E N
UniRef90_A0A059DBK6 C D L H E G D G T V G S V V F W N Y I H D G E A K V A K E R I E A V D P E K N L
UniRef90_D7KYF1 C D L H E G D G T V G S V V F W N Y I H D G E A K V A K E R I E A V D P E K N L
UniRef90_D7KYF1 C D L H E G D G T V G S V V F W N Y I H D G E A K V A K E R I E A V D P E K N L
UniRef90_Q93VR4 I Q V L A G D G N P G S I R L I T Y G E G S P V K I S A E R I E A V D L E N K S
UniRef90_M4DI51 C L E G D G K L G S V V I W N Y V H D G E A A M T K K R V E A V D P E K N L
UniRef90_F4YFB5 I E F I E G N G E V G S I K Q M N F T E A A P F K Y V K N R V D F L D D K N F T
UniRef90_D8T4D4 Y E L V E G D G G V G T I R K I T F G P S K E P T V A T E K V L A V D D D A A K S
UniRef90_A0A059BUX8 G E V I E G D G G L G S V L L F N F G P D V P N K Y Q K E K I V E L D E S S H R
UniRef90_Q8LJU1 V E N V E G N G G P G T I K K I T F L E D G S E T K F V L H K I E S I D D E N F T
UniRef90_UPI00032ABC47 I E I L E G D G T V G S V R L V T F G E G T P F K I N K E K I E D D D S K R T
UniRef90_ROICE0 C E L H E G D G K V G S I V V W N Y V I D G K A S V V K D R I E A V E P E K N L
UniRef90_A0A022QQ46 V E L L E G D G K S G S V R L M K Y P P N T E I T S S K E K I E E V D D E E K R S
UniRef90_ROGGA0 C E L H E G E G K V G T V V I W N Y V H D G V A K V A K E R I E A L D P E K N L
UniRef90_Q8LBV2 C D L H E G D G T V G S I V F W N Y V H D G E A K V A K E R I E A V D P E K N L
UniRef90_F4K5S5 C D L H D G E G T V G S I V Y W N Y V H D G E G Q A K V A K E R I E L V D P E K K L
UniRef90_M5W0Z5 A E I V E G D G G V G T I K K I T F V E D G S H Y S Y V K H R I D G L D D E D N F V
UniRef90_W9RD59 V E V L E G D G V G S V R L I T Y G E G S P I K V S K E K I E E V D P Q N K T
UniRef90_V4W5T3 C D L L E G E G K P G C I C W R Y S H D G S P Q I A K E I E A I D D N E N Y I
UniRef90_V9LY34 C D L H E G D G K Q G T V V C W S Y T H D G E K K I A K E L V E A I D D V N N S
UniRef90_A0A059DB21 I D I L E G T P I T S S T R S S H K T S R A L K S S R A M E A L D K E N F T
UniRef90_UPI00032A6D4D A E L H E G D W E N G S I K Q W N Y T I G G I K Q S A K T K I E T I D D D N M V
UniRef90_U5XWB7 I E L V E G N G G P G T I K K I S F L E D G E T K F V L H K I E E I D D E A N L G
UniRef90_UPI0002C33AC1 C E L H E G W G R Q G S V I Y W N Y C Y D G K T T V A T D L I E A V D D E K N S
UniRef90_UPI00042B1BFE C D L H E G N W G N G S I V C W N Y V H E G K P K V A K E R I E S I V P N N N S
UniRef90_ROIFR8 C D L H E G E G K V G T I V T W N Y V L D G P K I A K D R I E A V D P E K N S
UniRef90_F6H6U8 V I L K P L K E V E G S Q F N Y I K H R I D G L N K E N F T
UniRef90_A0A059B5C9 V K F I E G D G G V G S I K Q T N F S R K L A L V K G S E Y S Y V K H K V E G I D K D N F D
UniRef90_B0B0L8 I R K L A L V K G S E Y S Y V K H K V E G I D K D N F D
UniRef90_V7C8Q5 A K V H E G D W E N G S V K H W D I T I E G K K T S V K E K I E A I D D D N R I

UniRef90_Q9LWB1
UniRef90_A9PI40
UniRef90_Q9SCH7
UniRef90_P93330
UniRef90_A0A059B4R2
UniRef90_B5M1X5
UniRef90_Q0Z8U9
UniRef90_B9RTC4
UniRef90_Q8W2B4
UniRef90_E4Z8M2
UniRef90_A0A059B4Z9
UniRef90_E3W9N4
UniRef90_V4RFS3
UniRef90_V4S1Y2
UniRef90_I3T2N7
UniRef90_I1H6C9
UniRef90_C6SWY6
UniRef90_B1Q190
UniRef90_E9JS92
UniRef90_A0A059B504
UniRef90_Q6T6J0
UniRef90_M0UCN1
UniRef90_A0A022QZ46
UniRef90_G1FK78
UniRef90_S8CW75
UniRef90_B0YIU5
UniRef90_B9RZJ9
UniRef90_G3DQE4
UniRef90_K7LBR3
UniRef90_Q40154
UniRef90_S8BY34
UniRef90_B0ZC07
UniRef90_A9NMK0
UniRef90_A0A059DEK7
UniRef90_A9NU54
UniRef90_D8SVZ2
UniRef90_D7U2D7
UniRef90_UPI00042B5F0E
UniRef90_B9HX01
UniRef90_W5E8J6
UniRef90_U5G6V9
UniRef90_L7Z652
UniRef90_D8RV32
UniRef90_A0A059B5L8
UniRef90_V4KE82
UniRef90_V4KE82
UniRef90_A0A059D5M5
UniRef90_H9BPH6
UniRef90_A0A059DF17
UniRef90_Q6ZXH8
UniRef90_G9BZW5
UniRef90_M5XT64
UniRef90_W517L8
UniRef90_J7FNN9
UniRef90_A5C111
UniRef90_B9RTB7
UniRef90_Q5Y360
UniRef90_D8RV33
UniRef90_Q8VX97
UniRef90_I1BG0
UniRef90_G9BZZ6
UniRef90_I1H6C6
UniRef90_M0ZYA5
UniRef90_A0A059DBK6
UniRef90_D7KYF1
UniRef90_D7KYF1
UniRef90_Q93VR4
UniRef90_M4DI51
UniRef90_F4YFB5
UniRef90_D8T4D4
UniRef90_A0A059BUX8
UniRef90_Q8LJU1
UniRef90_UPI00032ABC47
UniRef90_R0ICE0
UniRef90_A0A022QZ46
UniRef90_R0GGA0
UniRef90_Q8LBV2
UniRef90_F4K5S5
UniRef90_M5W0Z5
UniRef90_W9RD59
UniRef90_V4W5T3
UniRef90_V9LY34
UniRef90_A0A059DB21
UniRef90_UPI00032A6D4D
UniRef90_U5XWB7
UniRef90_UPI0002C33AC1
UniRef90_UPI00042B1BFE
UniRef90_R0IFR8
UniRef90_F6H6U8
UniRef90_A0A059B5C9
UniRef90_B0B0L8
UniRef90_V7C8Q5

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

UniRef90_Q9LWB1 T C K G D N T V P E D I N L M K E G F K K S F K G F E A Y A I A H P E A Y
UniRef90_A9PI40 F P K G A E I L K E E E L K E G K E K A A A V Y K A V E T Y V V A N P Q A Y
UniRef90_Q9SCH7
UniRef90_P93330 Y T K G D E L S K D Y L E A G L E R F E G F T K A V E S F L L A N P D Y N
UniRef90_A0A059B4R2 H T K G D V Q L N E E I K Q R K E E A M G L Y K V V E E F L L A N P N A Y D
UniRef90_B5M1X5 H S K E G A V L D E E I K Y G H E K L K G L F K K V E E Y L V A N P E V Y
UniRef90_Q0Z8U9 H C K G G A E I K E E V K D G K E R A A G L F K
UniRef90_B9RTC4 Y P K G D A Q I N E D I K A G E E K M M G M Y
UniRef90_Q8W2B4 Y T S D E S E I P A Q I L A G K E K R L G M F K A T E A Y L L A N P E A F N
UniRef90_E4Z8M2 Y T K G D I V L K E E I K A G R E K A L G M Y R V V E T Y L L Q N P D A Y
UniRef90_A0A059B4Z9 H T K G D V E L K E D L K Q G K E K A M G L Y K V V E E Y V
UniRef90_E3W9N4
UniRef90_V4RFS3 Y L K G E E S K Q E F V K D S Q E K G T S L Y R A V E S H L L A N P H L Y
UniRef90_V4S1Y2 K A K E G V E I K G D I E L V K H K P L G M Y E V V E A H L K A Y P Q L Y
UniRef90_I3T2N7 F T K G D T T L S E E V K A S Q A K V N G I V K L A E A G F L L A N P D Y N
UniRef90_I1H6C9 K L L P G V E L S K D E I T K A K D S V T A I F K A E T Y L V A S P D A Y N
UniRef90_C6SWY6 H T K D D A P L S D A V D E T K A R G A G I F K A I E G Y V L A N P
UniRef90_B1Q190 H T K G D I Q L K E E V K A I N D Q A L G F Y T L S E E Y L H A N P N V C
UniRef90_E9JS92 H P K P G C T S E E V K I G E K K A Y E F Y K Q V E Y L A N P E V F
UniRef90_A0A059B504 Y T K G N F K L E E E D I G P E K R T L G M Y E V V E A Y L Q N P H A C
UniRef90_Q6T6J0 H T K G D A P L S D A V D D A L A K G A G F F K A I E T Y L
UniRef90_M0UCN1 D T L D D K P V G E E V E K M K E G T A R L L K A V E G Y L L A N P G A C
UniRef90_A0A022QZ46 H T K G D I Q L D D E I K V A K E Q N I G Y Y S L A E E T L L A N P S I C
UniRef90_G1FK78 K G K G D A K P T E E L N Q F K E L F K N T F K A H E A Y A I A H P E V Y
UniRef90_S8CW75 Y Y A H K A S F E E K A K Q V K Q K V E G V F K
UniRef90_B0YIU5 H T K G D A P L P D E V Q D V K Q K S Q G I F K A I E G Y V L S N
UniRef90_B9RZJ9 Y T I G D F E L K E E I R A G K Q N P W Q F S R L L K T L L D N P D A Y
UniRef90_G3DQE4 K G V E G K D K M L K A K D S V T E M F N T A E A Y L I A N P D A Y N
UniRef90_K7LBR3 H
UniRef90_Q40154 Y L K G T T L T E D E V K E S K E G A L G L L K A V E A H V L A N
UniRef90_S8BY34 H L K E G G D V G D Q G K K T V E R M K G I L K A V E K H L H A N P H L
UniRef90_B0ZC07 H T K G D E P I S E E L K A G K X K A E A L F K A I E N Y L V A H P D A Y N
UniRef90_A9NMK0 E P A G N D I P P S E P I K E A A I N T F K A V E A Y L L
UniRef90_A0A059DEK7 F A K N D A D I T E E I M A V K E A S A L S R A I E A Y L V V N P H V
UniRef90_A9NU54 E P A G N E T P P S D P I K E A A I S M F K T V E G Y L L
UniRef90_D8SVZ2 D S L V E D P P L D R M K G N A E K I M R G V E A Y L L S N K D
UniRef90_D7U2D7
UniRef90_UPI00042B5F0E Y T I G D N E I K E E I K T G K E R A F G M Y K A V E A Y L L A N P A Y N
UniRef90_B9HX01 Y T I D N E I N K V E I K S D K E R S M G V F K A I E T Y L L A N P D A
UniRef90_W5E8J6 K L L P
UniRef90_U5G6V9
UniRef90_L7Z652 H T K G D V V Y T E D A K M G L Q S M Q V S Y K A V E E Y L S N N P E L Y
UniRef90_D8RV32 E P I G E P P L E Q I K S S L V D L L K A E E A F L Q A N A D A Y T
UniRef90_A0A059B5L8 L P K P G V V I E E E I K A A N E K V T V V F K A V E A Y L L A N P E A Y
UniRef90_V4KE82 E K I D E K V A H P E T F L E F C V Q V S K E I D E H L L
UniRef90_V4KE82 E K I D E K V A H P E T F L E F C V Q V S K E I D E H L L
UniRef90_A0A059D5M5 E K A S D E I P D P H V I K D F A I Q N F K E L D E F L L
UniRef90_H9BPH6 F T K G D D A P S E E L K K D K A K G D G L F K A L E G Y C L A H P D Y N
UniRef90_A0A059DF17 F A Q N D A D I T E E I M S V K K K A I E L F Q A I E A Y L V A N P H
UniRef90_Q6ZXH8
UniRef90_G9BZW5 Q T K G N A E P N E E V K E G K A K G D
UniRef90_M5XT64 E K A H E Q I P D P S L I K D F A V Q N F Q E L D A Y V L A N
UniRef90_W517L8 K L L L G V E V N D E I T K A K D S V T T I F K A A E A Y L I A N P D A Y N
UniRef90_J7FNN9 N T K G D A E I S E K I K E G K E K A M G I F K A V E A Y L Q A N P D A Y N
UniRef90_A5C111 H L K P G V E I L K E E
UniRef90_B9RTB7 E S M S H R N S E E D I K N I K K G F L A M V K V V D A F L L A N P S S Y
UniRef90_Q5Y360
UniRef90_D8RV33 E P L V E S P S L E E S K M G A L G T F H A I E A Y L L S H N E E Y N
UniRef90_Q8VX97 E T L A G A P V D E K A Q E M K E Q S N V M F K K M E Q Y L L S N P T L Y
UniRef90_I1BG0 E V G D E H A A G S E S F V S T S L L A V A E A I T K Y I K A N P S A
UniRef90_G9BZZ6
UniRef90_I1H6C6 K F L P S V E V N D E I T K A K E S V T A I F K T V E A Y L I A N P Q E Y T
UniRef90_M0ZYA5 E K A S D E I P E P Q I I K D F A V K N F K N L D A Y L I
UniRef90_A0A059DBK6 T T K E A L Q V E E E I R V G K E K A M
UniRef90_D7KYF1 E K I N E E V A H P E T L L Q F A V E I S K E I D E H L L A
UniRef90_D7KYF1 E K I N E E V A H P E T L L Q F A V E I S K E I D E H L L A
UniRef90_Q93VR4 E K T A H E I L D D P H V I K D F A V K N F K E I D E Y L L K Q T S A
UniRef90_M4DI51 E K I I V D A G H P E T F L Q L A V E I S K D I D E Y L L A
UniRef90_F4YFB5
UniRef90_D8T4D4 E P I G D S P A P E Q A K E A V L G S M K A V E G Y L L A
UniRef90_A0A059BUX8 E T E Q T V L P S K T T A G A V A C I K G L E N Y L L S
UniRef90_Q8LJU1 E T K G D A E P N D E L K T G K A K A D A L F K A I E A Y L L A H P D Y N
UniRef90_UPI00032ABC47 E K D S Q E V P E P E I I K E F A V N T F L K V D E Y L L
UniRef90_R0ICE0 E K I N E E V A H P E N L L Q F A V G M S K E I D E H L L
UniRef90_A0A022QQ46 D K A D E Q V P D P D I I K D F A I K S F Q D L D A Y L L S H
UniRef90_R0GGA0 E K I S E E V A H P E T L L Q F C V D M S K G I D E Y L
UniRef90_Q8LBV2 E K I X X E V A H P E
UniRef90_F4K5S5 E K I D E N V P H P E N L L P F F A E M T K E I D E H L L S
UniRef90_M5W0Z5
UniRef90_W9RD59 E K A S E E I P D P S L I K E F A E K N F K E L D D Y L
UniRef90_V4W5T3 E K L K E D V P D P T G K L Q L L D V A R K D I D A H L L S
UniRef90_V9LY34 E K M N P Q T S P H T L L D F L A Q C T R D I D S H L V A
UniRef90_A0A059DB21 L T I G E V N T I E E E I K A G K E K A D A M V K A I E A S V V A N P D A C D
UniRef90_UPI00032A6D4D E K L K E D I T G A P P E S Y L E F A V K I T K D I D A H L V
UniRef90_U5XWB7 H S K G D A P P N E E L K A G K A S D A L F K V E A Y L L A N P
UniRef90_UPI0002C33AC1 E K L H D Q V S D P H S L L Q F V A D L S K D M G A H L S T Q P
UniRef90_UPI00042B1BF E K L H E G I A H P E T L L E L A V Q V S K D V D A H L I Q
UniRef90_R0IFR8 E K I D E N V A H P E N M L P F F K S M S K E I D E H L L S
UniRef90_F6H6U8
UniRef90_A0A059B5C9 D V E E G A E L K E D I K Q G K D R A M G L F K T V E E Y L L A N P T V C
UniRef90_B0B0L8 H T K G D V E I K E E V K V G K D K A H G L F K L I E N Y L V A N P D A Y N
UniRef90_V7C8Q5 E K L S E N I T A S P E S Y L E F A S V V T K D I D D H L L

UniRef90_D3HUK9
UniRef90_UPI00042B7261
UniRef90_M1CPE4
UniRef90_B9HW52
UniRef90_UPI0002C366AC
UniRef90_UPI00023B24A9
UniRef90_A0A059BFC5
UniRef90_UPI0002B48847
UniRef90_Q9AXU0
UniRef90_V4VGP8
UniRef90_D2D328
UniRef90_UPI0002C30C0A
UniRef90_W9QSL3
UniRef90_W9QSL3
UniRef90_Q941R7
UniRef90_Q7Y080
UniRef90_A0A059DC12
UniRef90_UPI0002B4CA9C
UniRef90_C6JT46
UniRef90_UPI00032A8508
UniRef90_UPI00042B1253
UniRef90_F6HFH3
UniRef90_UPI0003D6F7C4
UniRef90_UPI0003D6F7C4
UniRef90_M0UTI5
UniRef90_D7T8R3
UniRef90_M8CVG5
UniRef90_B9RTC7
UniRef90_M4CUQ2
UniRef90_Q3I3Y3
UniRef90_R0GYX7
UniRef90_M4CUQ0
UniRef90_C5YF18
UniRef90_UPI0002B47AC2
UniRef90_UPI0002B41932
UniRef90_UPI0003EA9735
UniRef90_W5AUH8
UniRef90_G7JLL1
UniRef90_M0SDG0
UniRef90_W1NW22
UniRef90_UPI00042B4155
UniRef90_UPI00042B447D
UniRef90_Q24253
UniRef90_M4CUQ4
UniRef90_M4CUQ4
UniRef90_V4U696
UniRef90_G9BZZ2
UniRef90_F6HFG9
UniRef90_V4L3Z3
UniRef90_A0A059BEV1
UniRef90_G7LFU4
UniRef90_V7BW73
UniRef90_UPI00023D1F2A
UniRef90_UPI0002B48DD3
UniRef90_D8QP07
UniRef90_M5XNT3
UniRef90_B3RFK7
UniRef90_M4E709
UniRef90_B9HVC5
UniRef90_M5XQB7
UniRef90_Q7XUY5
UniRef90_UPI0002B40B05
UniRef90_B6SQM6
UniRef90_C6SYW1
UniRef90_M5XVB6
UniRef90_I1L2G1
UniRef90_K7TN67
UniRef90_D7KYF3
UniRef90_M4DIN5
UniRef90_D7TNN1
UniRef90_Q9ZWP8
UniRef90_Q9SMF5
UniRef90_I1J175
UniRef90_M4D7A4
UniRef90_W9QDC3
UniRef90_B9SZH7
UniRef90_D7T8R6
UniRef90_I1R741
UniRef90_Q940E9
UniRef90_C3SBV5
UniRef90_G7J033
UniRef90_Q9FEZ8
UniRef90_J3NE29
UniRef90_A0A022PZR8
UniRef90_K7MBC9
UniRef90_B7FKA0
UniRef90_R0FQQ4
UniRef90_A0A059B5D8
UniRef90_I3SXL3
UniRef90_W9RJ76
UniRef90_F6HFH0
UniRef90_M0X653

1 10 20 30 40

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

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

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

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

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

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

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

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

UniRef90_D3HUK9 Y S Y S I T E G D A L M G I L E S I S Y E V K L V A S P D G G S I C K N I S K Y
UniRef90_UPI00042B7261 I T F R V I E G D D L M K E Y K S F V I K L Q A T P K E G E T T C L I T K A T I E Y
UniRef90_M1CPE4 K V J A L V V I E G G D L L D H G F T F F Q V V R F D V I E K Y E G S C L A H W T F E Y
UniRef90_B9HW52 T T F K V I I E G G D I T E Y K N F I L I V Q A T P K G E G S C L A H W T F E Y
UniRef90_UPI0002C366AC I T L K I I I E G G D L L E H Y K S F K A T I Q A S P K G E G S C L V H W T F E Y
UniRef90_UPI00023B24A9 I T F K V I I D G G E V L N D Y K S Y K F T T Q A I P S T G E C L V K W T A E Y
UniRef90_A0A059BFC5 I T F D I I I G G E V L T R Y F A R Y K A T I Q L V S T G Q N N F V K W S V E Y
UniRef90_UPI0002B48847 I S F K V I I D G G D L L K D Y K T F N Y T I Q A V P K G K G S V I H W T M E Y
UniRef90_Q9AXU0 I T F K V I I E G G D L L E H Y K S F K I T I H A T P K A H G Q S S L V H W T M E Y
UniRef90_V4VGP8 V T Y K V I I D G G D L L K Y Y K A F K G I V S V N P K G E G S L V K W A C E F
UniRef90_D2D328 Y V Y S I I I D G G D L L K Y Y K T F I G K I I V V P K G E S S L V K W S C E F
UniRef90_UPI0002C30C0A V T F K T V I D G G T L L K I Y K T M K A T V I Q V T A K G G G C S V K W S I E Y
UniRef90_W9QSL3 I T F R M L I E G G D L L M E H F T S F V I T I Q Q G N P K G G K G S I I H W H L E Y
UniRef90_W9QSL3 I T F R M L I E G G D L L M E H F T S F V I T I Q Q G N P K G G K G S I I H W H L E Y
UniRef90_Q941R7 L T Y R V V I E G G D L L K E Y T S F V T T F Q V I T P K G P G S V A H W H F E Y
UniRef90_Q7Y080 Y N Y S V V I E G G G P L S E T L E K V S Y E T K L V A S P D G G T I Y K I S S K Y
UniRef90_A0A059DC12 Y F N S I I I E S D M L A N T L E N T S Y E V K I T A S P E E G G S V C K N A S S K Y
UniRef90_UPI0002B4CA9C V S Y S V I I E G G D L L K Y Y K S F K G H L A V I P K E E G S S V K W S C E F
UniRef90_C6JT46 Y H Y T W I E G G D A L L M N V F E K I S Y E M K F E A S L G G S S V C K I S T K F
UniRef90_UPI00032A8508 V S Y S I V I E G D L L E Y Y K V F K G H I S V I T P F G E G C D V K W T A E Y
UniRef90_UPI00042B1253 Y R Y T V I I E G D L L E Y Y K V F K G H I S V I T P F G E G C D V K W T A E Y
UniRef90_F6HFH3 I T F K A L I D G E V M K D F K S V I S I L E V S A K D D G S L V K W T L E Y
UniRef90_UPI0003D6F7C4 V T L T G L I E G D V L F K H F K S W L P V Y K V S P K G D G S S I A T C S I A Y
UniRef90_UPI0003D6F7C4 V T L T G L I E G D V L F K H F K S W L P V Y K V S P K G D G S S I A T C S I A Y
UniRef90_M0UT15 K E A Q T I I E G D I L K L G F L Y M V R F E I A K G P S L V R S T I V Y
UniRef90_D7T8R3 I T F K V V I D G G E I M N H F K C F K S N L Q V K A K D E G S L V K W S L E Y
UniRef90_M8CVG5 K G A L V V I E G G V L D H N G F Q K C L V R F E I A G Q T N E T S A I R S T I E Y
UniRef90_B9TC7 H N Y T I I G G D P W S D N I E K I S Y E I K L V A S P D G G S I C K S S S K Y
UniRef90_M4CUQ2 F K M R V I I E G D L M K E Y K N F V L T I Q A T P K H E S S I V H W H I E Y
UniRef90_Q313Y3 Y K Y T T I I E G G S L G E K L S A S F E V K L V P
UniRef90_R0GYX7 I K F R V I I E G D V L A L Y K S F L I T I Q A T T A K G G V G S V V K W H L E Y
UniRef90_M4CUQ0 I T F R V I I E G D L M K E Y K S F L I T I Q V T P K G G A G S I V H W H L E Y
UniRef90_C5YF18 K E T V T I E G G A L D H G F K Y M V R I E I M G K E D K T S I V R S T M E Y
UniRef90_UPI0002B47AC2 F T W K V I I E G G D L L D H Y K N F R V T I Q S I P K D K T S I V H Y T L N Y
UniRef90_UPI0002B41932 K I A E T V I E G G Y L D L G F T L Y K F R V E T I E K N E E S C I V K S T V E Y
UniRef90_UPI0003EA9735 K E A E A I I E G D L L K L G F L S Y M I R F E I I R K G P N T S V I R S T V E Y
UniRef90_W5AUH8 C K S T L I I E G G G I G S A I E T A T
UniRef90_G7JLL1 C K Y T M I I E G D P L G D K L E S I A Y E V K F E A T N D G G C L C K M A S S Y
UniRef90_M0SDG0 V S Y S L I I D G G E L V S Y Y K F K A S L K V I E P N G D G S S V K W C M E Y
UniRef90_W1NW22 V T Y A V V I D G D I L S F Y K V F E A T L Q V V L S A D K S S V A K W D I H Y
UniRef90_UPI00042B4155 I T F R L I I E G D L L S K E Y K S F V V K V Q A T P S P G E G C V A H W V T E Y
UniRef90_UPI00042B447D M T Y N M L I E G D M M K Y Y K S F K S L N V I A L G Q G S I A K W T M E Y
UniRef90_Q24253 N N Y S I V I E G G V G L P D T V E K I S F E A K L S A G P N G G S I A K L S V K Y
UniRef90_M4CUQ4 I T F R V V I E G D L M K E Y K S F V I T I Q V T P K G G P G S V V H W Y L E Y
UniRef90_M4CUQ4 I T F R V V I E G D L M K E Y K S F V I T I Q V T P K G G P G S V V H W Y L E Y
UniRef90_V4U696 T T F K V I I E G G H L L D K Y N S F Y V T V Q A I P K G E H S C L A R W T I K Y
UniRef90_G9BZZ2 Y N Y S I V I E G G V G L P E T V E K I T F E A K L I A G P D G G S I G K L N V I Y
UniRef90_F6HFG9 V T F K V I I E G D L L K E Y K S F K A L V Q T I S K G E T T W V R W T F E Y
UniRef90_V4L3Z3 I Q F R V I I E G D L M K E F K S F L F T L Q V T A K G G L G G V V K S H M K Y
UniRef90_A0A059BEV1 T T F R V I I E G D L L M K L Y K N F L V V Q A T P K E G G G S V V H W T L E Y
UniRef90_G7LFU4 I T F K V L I E G G D L L E D Y K S F K F L M Q V I P Q R E G S V V R W L V E Y
UniRef90_V7BW73 L S F K V L I E G D L L E D Y K S F K F L M Q V I P K E N G S V A Q W A L E F
UniRef90_UPI00023D1F2A Y N Y T L I I E G E A L K D K F A S I A H E I K F E A A P D G G S I S K V I T S K Y
UniRef90_UPI0002B48DD3 I T F K V I I E G Y L T E Q Y K N F R F K I Q C I P K K K G S V I H W C L E Y
UniRef90_D8QP07 I G T S M I I E G G Y L G S Q L K S H S A T I T V K P N G Q G S V I V W V L Q Y
UniRef90_M5XNT3 V S F T A L I E G H V L E Q Y R S Y K I F Q V T P K S G G G L V K I T I H Y
UniRef90_B3RFK7 V T F R V I I E G D L M E E Y K S F V I T I Q V T P K S E G S S V V H W T L E Y
UniRef90_M4E709 I K F R V I I E G D V L K E Y K T F L I T L Q V T P K G G S S V A R W H L E Y
UniRef90_B9HVC5 V S Y S V I I E G D L L K Y Y K S F K A T I V V T P K G D G S L V K W M C E F
UniRef90_M5XQB7 I T L R V V I E G N L L E H Y K S F K I T V Q A T P K G E G S V V H W T F E Y
UniRef90_Q7XUY5 V S Y S V V I D G E L V S F Y K N F R V T L Q V T P K A A D G A V V S W T M D F
UniRef90_UPI0002B40B05 K I A E M V I E G G Y L D L G F T L Y R F R F E I I E K N E E S C I V K S S I Q Y
UniRef90_B6SQM6 V R T E V L I Q G G T V L S A Q L R T H F A E I R V I E A A G E G A C V A K V K V D Y
UniRef90_C6SYW1 V S Y T L I I D G E L L Q H Y K T F K G D I S V T P V G D G C E V K W S A V Y
UniRef90_M5XVB6 I A F R T V I E G E V L T K H Y K S F K A T V E V T P R G N G C S V K W N I E Y
UniRef90_I1L2G1 M T M K V I I E G D V L G L Y K S F K S N L Q V T P K G K G S V V L W A M E Y
UniRef90_K7TN67 K E C L V T I E G S V F D R G F K K Y L V R I E I I G E D R E A S T I R S T I E Y
UniRef90_D7KYF3 I T F R V I I E G D M T K E Y K S I T F T I Q V T P K G G P G S I V H W L L E Y
UniRef90_M4DIN5 I K F R V I I E G D L M K E F K S F L C A T I Q V T P K G G P G G S V V W R M E Y
UniRef90_D7TNN1 V S Y S V I I G G D L L K Y Y K N F K A T L V I T P K G D G S L V K W T C D F
UniRef90_Q9ZWP8 I G L Q V I I E G G Y L N Q G L S Y K T T F K L S E I E E D K T L V N V K I S Y
UniRef90_Q9SMF5 I T Y T L I I E G V M L K Y Y K S Y K V I V H V L P K G D E S S L V K W T F L Y
UniRef90_I1J175 K E A E T I I D G D V L K L G F L Y M V R F E I I V K G P E S V I R S T I E Y
UniRef90_M4D7A4 I K L K V I I E G D L T K D F K N F I V T I Q V T P K G G P G G V A K L N I A Y
UniRef90_W9QDC3 K E T E V V I E G G Y L D L G F T L Y R V R F E I I E K D G D S S I V K S T I E Y
UniRef90_B9SZH7 V S Y S V I I E G D L L K Y Y K F R V K G H I T V L P K G D G S L V E W S C E Y
UniRef90_D7T8R6 V T M N V V I E G D I V K Y F K I F K C T I Q V T V K D K G S L V T W S V E Y
UniRef90_I1R741 L K S E V L I E V A G R A G K L K T H L T E T K L E A T G A G S C M A K L R V I E C
UniRef90_Q940E9 Y K Y T L V I E G G D G L V D N L E K I S Y D V K F E A T A D G S S I S K V I T S Y
UniRef90_C3SBV5 K K V Q M I I E G G Y L D L G V T Y Y M D T I Q V I P T G T N S C V I T K S S T E Y
UniRef90_G7J033 I G L Q V V I E G G Y L N Q G F S F Y K T S F K L S T T E E D K T M V N V K I S Y
UniRef90_Q9FEZ8 Y S Y S V V I G G A A L P D T A E K I T F D S K L V A
UniRef90_J3NE29 L R S D V L I E S A S T V G K L K S H T T E T K L E A T G A G S C L A K L T V I E Y
UniRef90_A0A022PZR8 K E T E V V I E G G F L D L G F T L Y R V R F E I I E K E M K E C V T R T T I E Y
UniRef90_K7MBC9 Y D Y T I V I E G N V L S D R E D K M C N E Y K L V
UniRef90_B7FKA0 A T Y C I I I E G D L L Q Y Y K S F K G H L A L I P V G E G C E M K W C A E Y
UniRef90_R0FQ04 L K F I G L I E G H I M E Q L K L Y E F D F Q F I P K S E D D C V C K I T M R Y
UniRef90_UPI0009B5D8 I T Y S L F D G E I S E G Y K S F I M T L Q V T D K E I G G L V K W T I E Y
UniRef90_I3SXL3 I T F K V L I D G E I T K Y Y K T M K T T V Q V T A K G D K G S S V K W T L E Y
UniRef90_W9RJ76 I T Y K F I I E G D L L K Y Y K S F L I V V Q T I P K G D A T W V H W T L E Y
UniRef90_F6HFH0 C K S T L I I E G G I I G T A I E T A T S H I K V I E P T A N G S S V V K V I Q S T Y
UniRef90_M0X653 C K S T L I I E G G I I G T A I E T A T S H I K V I E P T A N G S S V V K V I Q S T Y

UniRef90_D3HUK9 H T K D D A V I D E E I K A G K E K A S G M F K A L I E A Y L L A N
UniRef90_UPI00042B7261 E K L H E G I A H P E T L L E F A V Q V S K D M D T H L I Q
UniRef90_M1CPE4 E V K E E E A A N V Q S F V S I Q T F V T I M E A V I A K Y L T Q Q K D
UniRef90_B9HW52 E K L N E N V P D P H T L L E F C I H C S K D I E D N H L I
UniRef90_UPI0002C366AC E K L H D E V S D P H R G Y L E L V A E L S K D I E D N H L I
UniRef90_UPI00023B24A9 E K A S E D G S D P P Q T L L Q L A V N L T K D I E S H L L
UniRef90_A0A059BFC5 E K M N E Q V P D P H P Q S M L Q F C L A T S K D I D V H L
UniRef90_UPI0002B48847 E K L H E K V A D S H P S M L Q F C L A T S K D I D V H L
UniRef90_Q9AXU0 E K S H H G D I E D P H T L L Q F A V D V S K E V D D A H L
UniRef90_V4VGP8 E K A S D D V P D P S V I K E F A V K N F K E I D D D Y L
UniRef90_D2D328 E K A S E E I P D P S V I K E F A V K N F K E I D D D Y L
UniRef90_UPI0002C30C0A E K L N E D S P P P N K Y L D F V L I L T K K V D D A Y L L
UniRef90_W9QSL3 E K K H G E I V D P H T L V E F F V E L S K D L E T H L L E
UniRef90_W9QSL3 E K K H G E I V D P H T L V E F F V E L S K D L E T H L L E
UniRef90_Q941R7 E K L N E E V A H P E T L L Q L A T E V S K D M D E H L L S
UniRef90_Q7Y080 Y T K D S T E I K E E I K A E E E K T A G V F K A V E G Y L L A N P D A Y N
UniRef90_A0A059DC12 F A R G N I N I T E E I K A V R E K A F T V F G A I E A C L I Q A N P E
UniRef90_UPI0002B4CA9C E K A S E E I P D P H A I K D F V V K N F M E L D D Y
UniRef90_C6JT46 F V I G D A K L D E E
UniRef90_UPI00032A8508 E K G S H E V P D P T A V K D F A V K N F F E V D E Y I Q Q N
UniRef90_UPI00042B1253
UniRef90_F6HFH3 E K S N E K L L P P D A Y L S L V I S M S K E I D A Y L L
UniRef90_UPI0003D6F7C4 E K L N A N V P D P V A Y V D F M V S I T K D
UniRef90_UPI0003D6F7C4 E K L N A N V P D P V A Y V D F M V S I T K D
UniRef90_M0UT15 E I D E A T H P H L E A M V I S T G P L A A T A E K F E A Y L K E Q K T A
UniRef90_D7T8R3 E K V N K D V P N P D A Y L E F A V N V T K D I E S H Y L
UniRef90_M8CVG5 E I K D D K T D N A S F V I S T S G V A H L A E A I T E N Y I K A Q K S A
UniRef90_B9RTC7 Y P K E G C L D E D E I K A G A E K A F G M F K T I E A H L L A N P D A C N
UniRef90_M4CUQ2 E K I S E E V A H P E T I V I Q L L T E M S Q G L D E H L L
UniRef90_Q3I3Y3
UniRef90_R0GYX7 E R N D E N V P H P E N Y L P F L A E M T K E I D E H L L S
UniRef90_M4CUQ0 E K I S D E V A H P E T L L Q F C V I E V S K E I D E H L L A
UniRef90_C5YF18 E V D D E H A D T P P V F S T D G L A T I A K A I D K Y I
UniRef90_UPI0002B47AC2 E K L H E D I E D S H T L L D L C V S I S K A I D A H I M
UniRef90_UPI0002B41932 E L K K E A A S N I S L A S V Q P L V A I A Q A V N N Y F L
UniRef90_UPI0003EA9735 E I S D G R P E L I Q A M V I S T A S L A A T A E K F A E Y I L A Q P S
UniRef90_W5AUH8
UniRef90_G7JLL1 K T I G D F D V K E E V K E G R E S T I G I Y E V V I E S Y L L E N P Q V Y
UniRef90_M0SDG0 E K A N I E V P D P D L V T E T A T K T F S A L D E Y L A K N
UniRef90_W1NW22 E K A N P D V P P L I Q D L A S K T F K A L D D D H V M
UniRef90_UPI00042B4155 E K L N E D V A H P E T L L E L L A G I C K D M D T H L
UniRef90_UPI00042B447D E K Q N E G I P D P I K Y E D F L R S W S N A V D G Y L L
UniRef90_Q24253 Y T K G D A I P E E E I K N G K A K G E G I F K A L E G Y C V A N P D Y N
UniRef90_M4CUQ4 E K I S D E V A H P E T L L Q F C V I E I S R E I D E H L L
UniRef90_M4CUQ4 E K I L S D E V A H P E T L L Q F C V I E I S R E I D E H L L
UniRef90_V4U696 E K K S E D V P D P Q G I V N L A I E M T K G I E A H
UniRef90_G9BZZ2 Q T K G N A E P N E E L K E G K A K G D A L F K A I E G Y V L A N P N Y N
UniRef90_F6HFG9 E K L N K E I S T P V K L L G F V I H M N E E L D D H L I Q
UniRef90_V4L3Z3 E R I D E N V A H P E T L L R V F V K M S K D I D E M L L A
UniRef90_A0A059BEV1 E K L S E E V T E P Y S L L Q F C V H V I S K D M D L H L M E
UniRef90_G7LFU4 E K L N N N V P N P H S L F H L S V E V L K N Y V D A H L
UniRef90_V7BW73 E K Q E N H I P A H T L L L Q M G V E L S K N I D S Y L
UniRef90_UPI00023D1F2A Y L K G D V E I N E E I K A S K E T V L G I Y K V V E A Y L L Q N P D V Y
UniRef90_UPI0002B48DD3 E K L H D K I P D S T H G L L M E L C V I V S K D I D A Y L Q S
UniRef90_D8QP07 E P L V E N P N I D E L V E G F V K S F K A I E A Y L Q S
UniRef90_M5XNT3 G K L N D N D P P P H K Y L R F A I N V V H D M D A H L L
UniRef90_B3RFK7 E K L H G G I A H P E T L L Q F V Q D L S K D I D A H L L
UniRef90_M4E709 E R I D E K V A H P E T L L I P F L E S M S K I D E H L L S
UniRef90_B9HVC5 V K A S E D V E V P H V I K D F V V K N F L I E V D E L I L
UniRef90_M5XQB7 E K V H G D V T D P H T L L Q L A V D L T T D I G A H L T A
UniRef90_Q7XUY5 D K A S E E V P D P D V I L K E T A A K T F H D L D D Y L L K N
UniRef90_UPI0002B40B05 E L K E E A A S N A S L A T V I P L K E V A Q A K H Y F L N K S T A
UniRef90_B6SQM6 E R L D G A P L A P E D E A R L Q G Y V R L V R M V E A Y L V A H P D E F
UniRef90_C6SYW1 E K V S H D V S D P T L V K D F A V K N F L I E V D A Y V Q A N
UniRef90_M5XVB6 E K Q N E A V P A P N K Y L D F V V I L T N N V D A Y L L N N
UniRef90_I1L2G1 E K Q D E H I P D A H T L L Q L A V V S K K I D A Y L L
UniRef90_K7TN67 E V D Q E H A G N P V A S S S G L A T I A K A I A E Y I I
UniRef90_D7KYF3 E K I S E E V A H P E T L L Q F C V I E M S K G I D E Y L L
UniRef90_M4DIN5 E R I D E N V A P P E T L L Q L V C I K T S K E I D E M L M S
UniRef90_D7TNN1 E K A S A E I P D P N V I K E F A V K N F I E L D D Y I
UniRef90_Q9ZWP8 D H D S D I E E K V T P T K T S Q S T L M Y L R R L E R Y L
UniRef90_Q9SMF5 E K V D H T A P E P T K Y K D L V V K L T K N V E A H L V E
UniRef90_I1J175 E I D D G H P E L E S M V S T A P L A A
UniRef90_M4D7A4 E R I D E N V A H P E T L L I Q T G V K M F K D I D E M L
UniRef90_W9QDC3 E V K D E F A V N A S V V S I D A L A N I A L L A K N H L
UniRef90_B9SZH7 E K T S D E V E V H S I I K D F V V K N F K E V D E
UniRef90_D7T8R6 E K L N E S G P A P D A Y L N F A M G I V E N V D A Y L L
UniRef90_I1R741 E P D G G S L S P E K Q K I L L E G Y F G M L K M I E N Y L V A H P A E Y
UniRef90_Q940E9 Y T V G D S F K L I E E I K A G K E K V S A M F K V V E A Y L L Q N P E A Y
UniRef90_C3SBV5 H V K P E F V K I V I E P L I T T G P L A A M A E A I S K L V L E H
UniRef90_G7J033 D Y E L E I E S E F P M K T L E S A L H F L R C L E T N L L
UniRef90_Q9FEZ8
UniRef90_J3NE29 E L E G A A L S P E Q E K K I V D G Y Y G M L K M I E D Y L V A H P D E Y
UniRef90_A0A022PZR8 E V R E E Y A A N A S L V S I Q N F V A V M E A A A L H L I Q N
UniRef90_K7MBC9
UniRef90_B7FKA0 V K V S N D I P D P S I V K N F A V K N F I E V D E Y V Q S
UniRef90_R0FQQ4 E K H N D E S P E P S M K L L K S I A V D M E E H V L
UniRef90_A0A059B5D8 H V K E G A E L K E E I K K G K D K A M G L F K A V E Y L L A N S N V C
UniRef90_I3SXL3 E K L K E N I T A S S P D T F L A F A T T V T K D I D A N L V E
UniRef90_W9RJ76 E K L N D S I P A P T K Y L D L L S A T T K N V E A Y L T N N
UniRef90_F6HFH0 E K L N K D I P T P I K E L E F L V L V G E G V D H L V Q
UniRef90_M0X653 K L L P G V I E V N D E I T K A K E S V T A I F K A V E A F L V A N P D A Y N

UniRef90_M5WW21
UniRef90_F2DAR0
UniRef90_M4DLR5
UniRef90_V4MI42
UniRef90_W5BHN3
UniRef90_M4D7A2
UniRef90_B9N590
UniRef90_I1R742
UniRef90_J3M0X8
UniRef90_J3M0X8
UniRef90_I1MJ3P
UniRef90_D7U2D6
UniRef90_UPI0002B48E6B
UniRef90_M5XH76
UniRef90_A0A059DEW2
UniRef90_M4EBL7
UniRef90_V4MAB8
UniRef90_A0A059D661
UniRef90_UPI0002B490A2
UniRef90_F5C449
UniRef90_D7T8R2
UniRef90_Q9SXL8
UniRef90_UPI0003EAB08D
UniRef90_D7T8R8
UniRef90_I3T479
UniRef90_K3ZXX6
UniRef90_V7AIP4
UniRef90_I3SK75
UniRef90_M5X8S7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_B9T7P7
UniRef90_UPI0002B4A4BB
UniRef90_UPI00042B1D4C
UniRef90_C6T1L7
UniRef90_J3NE28
UniRef90_V7AF78
UniRef90_I3SPM5
UniRef90_I1MM30
UniRef90_C5XER0
UniRef90_Q9S962
UniRef90_I1R743
UniRef90_UPI00042B58DC
UniRef90_S8E3U1
UniRef90_M8A2B1
UniRef90_I3T9Y8
UniRef90_Q5YB43
UniRef90_I3S4F2
UniRef90_O49305
UniRef90_Q3I3Y1
UniRef90_UPI00042B8E58
UniRef90_G8DRW0
UniRef90_A0A022QQ63
UniRef90_UPI0002C3404C
UniRef90_Q75T45
UniRef90_Q9FYU3
UniRef90_R0FRR2
UniRef90_K3ZAD1
UniRef90_B6SQM0
UniRef90_M0WPF4
UniRef90_B9TAD1
UniRef90_Q9AXI3
UniRef90_Q9AXI3
UniRef90_UPI0002C35E9E
UniRef90_U5CZ99
UniRef90_B2WS87
UniRef90_M5XFH8
UniRef90_O49304
UniRef90_UPI0002B496F7
UniRef90_B9I002
UniRef90_Q5EFL2
UniRef90_V4VTJ8
UniRef90_Q39133
UniRef90_A0A058ZSX3
UniRef90_O65178
UniRef90_S8DIJ2
UniRef90_Q4QT19
UniRef90_C3SBU1
UniRef90_M1CVY8
UniRef90_M1CVY8
UniRef90_A0A022Q7H0
UniRef90_M5WLZ0
UniRef90_D2SMN1
UniRef90_V7BSV4
UniRef90_UPI0002B4763B
UniRef90_K7K8V1
UniRef90_UPI0002C2FF60
UniRef90_I3SXU3
UniRef90_A0A022QSU3
UniRef90_Q4QTJ0

1 10 20 30 40
[V]K E [I]K T E A K V [S]V [G]I E A L W K A [L]A K D [V]A F [V]T E K [V]I [P] N [L]V K N
UniRef90_M5WW21 T E Q [C] A L A V [S]T E R L W K V [Y]S G E D T A A [L]P K A [C] A G F I D A N
UniRef90_F2DAR0 T Y [V]T E V [P]L K G T A E K H Y K R W K S E N H R L F P D A I G H H I Q G N
UniRef90_M4DLR5 T Y [V]T E V [P]L K G T A E K H Y K R R W R N E N H L F P D A I G H H I Q G N
UniRef90_V4MI42 H E Y E T D L P A A D [V]W E [V]Y S [L]A L G Q L [V]P Q L L P H [V]L S K
UniRef90_W5BHN3 [I]K E [V]K T Q [V]N [V]G V E [D]V L W K A F G K D L K D I L P K M M P N L V K D
UniRef90_M4D7A2 [V]S D E R A V [T]V [S]V E R L W K V [C] L D V H S L [P]K V [C] A G F I D A
UniRef90_B9N590 H E L E T E L P A A E L W E V Y G L L V G Q L [V]P H L [V]P E V F S K
UniRef90_I1R742 H E L E T E L P A A E L W E V Y G L L V G Q L [V]P H L [V]P E V F S K
UniRef90_J3M0X8 [V]E A N [V]H [I]K A S A D Q F H N [V]L [C] N R T H H L A N L F P G K V Q S
UniRef90_J3M0X8
UniRef90_I1MJ3P
UniRef90_D7U2D6 Q H E A [V]I [D]V [P]A N [V]T W Q L F S L E L G R I [V]G E Q L [P] N L F E K
UniRef90_UPI0002B48E6B T [V]E A E [V]E L K S N S G K L F K L I S N Q H H D V [P]K A S S D N V H D
UniRef90_M5XH76 T Y [V]T D [V]P [L]K G T A E K H Y K R W R S E N H L F P D A I G H H I Q G N
UniRef90_A0A059DEW2 E T T V E L K S S T E K F H D M F [V]G R P H H [V]P N A S S P S Y V Q G G
UniRef90_M4EBL7 T L E T E L E L K S P A D K Y F K R I S S E L H H A P N A S S D K V H T
UniRef90_V4MAB8 [V]G K F [V]S E L E I N A P A E K Y Y K I F K D Q V S H V [P]N I S P N I J Q N
UniRef90_A0A059D661 E L T H E L E V P T S A D S I W A V Y G S D I P R L L R D V L P G V F E K
UniRef90_UPI0002B490A2 E K D [V]P I R A S A S K F H E M F H K K P H H I C N C S T D K I H G
UniRef90_F5C449 S D E R S I A [V]S L E R L W N V F S D P L A M P K V [C] A G F F D A
UniRef90_D7T8R2 E L Q T E I K S S P D R L F D I Y K N K T S L M P K I L S P D K L K S
UniRef90_Q9SXL8 T E I E L K S P A D K Y F N I L F A K Q L H D A Q K I S D S V H E
UniRef90_UPI0003EAB08D H E F E T D L P A A D [V]W E [V]Y G L R L G Q L [V]P Q L L P H [V]L P K
UniRef90_D7T8R8 E L S E K T E V S [V]G L E A L W Q G L S K D L E E T I F P K V I P N I J Q N
UniRef90_I3T479 E [V]D I E L V S N A D K Y W L T L R D S T T I F P K A F P H D Y K S
UniRef90_K3ZXX6 H E L E N V S A S Q A W D L Y S L E L A K I V E Q A L P N L I D K
UniRef90_V7AIP4 V [P]L K G S A E K H Y K K W R N E N H V F Q D A V G H H I Q G G
UniRef90_I3SK75 V [P]L K G S A E K H Y K K W R N E N H V F Q D A V G H H I Q G G
UniRef90_M5X8S7 V [P]L K G S A E K H Y K K W R N E N H V F Q D A V G H H I Q G G
UniRef90_Q9LQT7 V [P]L K G S A E K H Y K K W R N E N H V F Q D A V G H H I Q G G
UniRef90_Q9LQT7 E A D V E I K T S A G K F H D [V]M G R P H H L T I A S P E K F Q T
UniRef90_B9T7P7 [V]G K [L]Q S E V E I S I P P H I F Y K L F K E Q I A N I T N I S P K L I Q K
UniRef90_UPI0002B4A4BB E V V L N I P A E K A W E M Y R N N E L I S Q I N P E M L S G
UniRef90_UPI00042B1D4C F A N [V]S L K A S A E Q F Y D V L C H K T H Q I P K I F P E K A L S
UniRef90_C6T1L7 F S G E H A A A V S A E R L W K V I L D V P A M A K V [C] A G F V D A
UniRef90_J3NE28 E H E L E M H V P A S E A W D L F T L R L G Q F V A K E L P Q L F D N
UniRef90_V7AF78 E H E L E M H V P A S E V W D L F T L R I G Q F V E Q E M T E L F Q K
UniRef90_I3SPM5 T E L E I R S P A A K F F N A Y A R Q L H N L P N I V D N V H E
UniRef90_I1MM30 H E H E A D V P A S E L W A I Y T L R A A E L P E L V P H V L A K S
UniRef90_C5XER0 G [V]F N Y E A E T P S V I P A A R L F K S Y V L D F A K L I P K V A P Q V I S
UniRef90_Q9S962 [V]S D E L A V A V S A E R L W K V F M D A S A M P K V [C] A G F V D D
UniRef90_I1R743 [I]L K L E V Q S E I Q S S A D K V Y D I F K H K M Y L M P K I L C P E L V T D
UniRef90_UPI00042B58DC E V S V E L K S D A N K I W E S I K E S A N F F P K A L P H Q Y D S
UniRef90_S8E3U1 H D F E T G L P T A E V W E M Y R L R I S Q V V P Q L L P D I F K K
UniRef90_M8A2B1 [V]E A E [V]E I Q A P G A K F Y N I F R K Q L E H L P N I S N E I H E
UniRef90_I3T9Y8
UniRef90_Q5YB43
UniRef90_I3S4F2 T E L G I R S P A S S F F S [V]F I K Q L H N L Q N I A G K [V]H E
UniRef90_O49305 G [V]Q T L E L E I Q V N M T A E R F F K T F K K K E G N F T D K T E A
UniRef90_Q3I3Y1 T E Y V S Q M T E R K R L W N A M V K D G H N L Y P K A L H E F I S S
UniRef90_UPI00042B8E58 H L S Q D T P V A V P A A V W D V Y T L E L G R L V D K L L G D V I G S S
UniRef90_G8DRW0 E L D V E I D I S P E K F H H M W C H R P H H V M H T S S E K V Q G S
UniRef90_A0A022QQ63 H K L E L Q T E I T S R P E K F F D L Y K N K T V L M P K I S P D K L Q G S
UniRef90_UPI0002C3404C [V]K E I K T E T K V G V G I A A L W K A L S K D L R F L A P K I A P N L I K D
UniRef90_Q75T45 [V]S I S D E R A V S V S A E R V W K V F S D A P A M P K V [C] A G F I D A
UniRef90_Q9FYU3 [I]K E F I T Q A E L S V G L E I L W Q A M S K D L N V I T Q K I I P N L V K D
UniRef90_R0FRR2 T Y [V]T E V [P]L K G T A E K H Y K M W R N D N H L F P D V V G H H I Q G
UniRef90_K3ZAD1 S [V]T E E H C P A V S A E D L W K V F L A G D A S I M T K A C V G M I D A K
UniRef90_B6SQM0 H E F E A D V P A S D L W A I Y S L R A A E L P E L L P H V L A K
UniRef90_M0WPF4 H E F E T G L P A A E V W E M Y R L R I S Q V V P Q L L P G I F R K
UniRef90_B9TAD1 Q [V]D [V]E L K S S A E K F F K L L S K Q L H Q I P N A S P G N I H Q
UniRef90_Q9AXI3 K K T [V]T H T E T L N A S P D A I W K A V K E E N S I L P A A M P Q V F F S
UniRef90_Q9AXI3 K K T [V]T H T E T L N A S P D A I W K A V K E E N S I L P A A M P Q V F F S
UniRef90_UPI0002C35E9E E G Q A E I K S S A D K F Y G F F K N N M S S F V Q M F P Q I L K S
UniRef90_U5CZ99 Q E V E V K V S A D A L W D V Y T L K L G N L I P K L P N F F Q A
UniRef90_B2WS87 T Y [V]T E V [P]L K G S A E K H Y K S W K S E N H L F P D A I G Q H I Q H
UniRef90_M5XFH8 V E T E I E I K A P A E K F Y N I F N S R A H H [V]P N I S P G S I Q G
UniRef90_O49304 E L E [V]D I E I K A S A K F F H H M L S G R P D V A K A T P D I Q G
UniRef90_UPI0002B496F7 [V]K E V E A E A K V G V G I E T L W K A L V K D L R F I V P K L M P N T V E K
UniRef90_B9I002 [I]K E [V]K T Q [V]N [V]G V A [D]V L W K A L T K D L K D I L P K M M P N L V K D
UniRef90_Q5EFL2 S T E L G I K S P A A K F F F A T E L H N V L P Q N H C E R V H G
UniRef90_V4VTJ8 [V]S H E L E V N V P A A Q A W E L Y T I K L A K L V E K E S D T V E E
UniRef90_Q39133 T Y [V]A E V [P]L K G S A E K H Y K K W R N E N H V F Q D A V G H H I Q G
UniRef90_A0A058ZSX3 E A E V E L K A S A D K F Y K L W R S E T H K M V P T A T S K N I Q G
UniRef90_O65178 E [V]E [V]D I K S C G D M F H E L F G K K P H H [V]S N I T P S K I H G
UniRef90_S8DIJ2 D I F H Q L L K N N P H A F S T S S P Q I I Q G
UniRef90_Q4QT19 G H [V]T N E M D [V] [V]G A S A D E I F W A V Y S K D L P K L I I T L A P G V F E K
UniRef90_C3SBU1 [V]I K Y D M E V A T S A D S V W A V Y S S D I P R L L R D V L P G V F E K
UniRef90_M1CVY8 S E I E I K S E V D I L H E I F R Y R P H H I S S M C P D K I Q N
UniRef90_M1CVY8 S E I E I K S E V D I L H E I F R Y R P H H I S S M C P D K I Q N
UniRef90_A0A022Q7H0 S Q I D I K S D G D V F H E I F R E R P H H I S S M S P A H I Q N
UniRef90_M5WLZ0 [V]K E I K T E A V V K [V]G I E T L W K A L V K Y V R F V A P K L I P L V K N
UniRef90_D2SMN1 E V T Y E L E V P T S A D S I W A V Y S S N I P T L L R D V L P G V F E K
UniRef90_V7BSV4 [V]Q K [V]E A N [V]H I M A S A E E F H D V L C S K T H H I T N M S P Q K I K S
UniRef90_UPI0002B4763B E S E I V I N T P P H R F Y K L F K E E T F D I P K A C P K L V Q K
UniRef90_K7K8V1 S T E L G V K A S A T K W F N L L T T Q L H V P Q N L C E R V H G
UniRef90_UPI0002C2FF60 T L E A [V]V E I K S S A D K V Y S L I S I E H H N [V]P K A S S D K V H D
UniRef90_I3SXU3 [V]V H E F G I Q S P S D K F F K V Y T T Q L H S V Q N V A Q R V H E
UniRef90_A0A022QSU3 D V F H E I F R E R P H H [V]P D M S P D R I Q N
UniRef90_Q4QTJ0 E F D [V]G A S A D D [V]W A V Y S S D L P R L I V E L L P G V F K K

	50										60										70										80														
UniRef90_M5WW21	A	E	V	I	E	G	D	G	G	G	G	G	T	V	F	L	F	N	F	S	S	D	P	K	M	S	Y	Q	K	E	K	I	V	E	L	D	E	A	V	H	K				
UniRef90_F2DAR0	V	D	V	L	E	G	D	G	G	P	G	S	S	V	F	T	M	T	L	S	P	A	G	S	G	S	D	V	M	K	K	R	V	V	A	R	D	N	A	A	R	V			
UniRef90_M4DLR5	V	T	I	L	E	G	D	G	W	S	H	G	A	I	K	I	W	N	Y	T	C	D	G	K	P	E	V	F	K	E	R	R	R	E	I	D	D	D	E	K	N	A			
UniRef90_V4MI42	V	T	I	H	D	G	E	W	S	H	G	A	I	K	I	W	N	Y	T	C	D	G	K	P	E	V	F	K	E	R	R	R	E	I	D	D	D	E	K	N	A				
UniRef90_W5BHN3	V	E	L	V	E	G	D	G	G	V	G	T	S	V	L	V	I	T	F	P	P	A	S	E	Q	P	R	S	Y	K	E	K	F	K	V	V	D	H	E	K	Y	I			
UniRef90_M4D7A2	C	D	L	H	D	G	D	W	G	H	G	A	I	V	L	V	W	N	Y	T	H	D	G	K	P	E	V	F	K	E	R	V	E	L	E	V	F	E	P	F	K	K	L		
UniRef90_B9N590	A	D	M	L	E	G	D	G	G	L	D	T	S	V	Y	L	F	N	F	V	H	D	G	K	P	E	V	F	K	E	R	V	E	L	E	V	F	E	P	F	V	H	R		
UniRef90_I1R742	V	E	L	V	E	G	D	G	G	P	G	T	S	V	H	I	M	K	L	N	P	A	A	D	G	S	V	Y	K	T	K	I	V	V	C	D	S	A	T	H	V				
UniRef90_J3M0X8	V	E	L	V	E	G	D	G	G	V	G	T	S	V	L	R	V	I	F	A	P	G	L	P	G	G	S	M	K	E	K	F	T	K	I	D	D	N	E	N	Y	I			
UniRef90_J3M0X8	V	E	L	V	E	G	D	G	G	V	G	T	S	V	L	R	V	I	F	A	P	G	L	P	G	G	S	M	K	E	K	F	T	K	I	D	D	N	E	N	Y	I			
UniRef90_I1MJP3	V	E	L	H	K	G	E	G	T	E	G	S	V	I	S	W	N	Y	L	H	E	G	K	V	C	V	A	K	E	M	V	E	G	I	D	M	K	N	N	K					
UniRef90_D7U2D6	I	L	K	K	K	P	S	V	D	D	I	C	I	H	L	K	H	R	I	D	E	V	I	D	E	V	I	D	M	K	N	N	K	R	I	D	E	V	I	D	M	K	N	N	K
UniRef90_UPI0002B48E6B	I	E	L	V	E	G	D	G	G	E	G	T	S	V	L	K	L	I	F	A	P	G	L	P	G	G	S	M	K	E	K	F	T	K	I	D	D	N	E	N	Y	I			
UniRef90_M5XH76	V	A	V	H	E	G	D	W	T	S	G	S	V	K	L	W	K	Y	T	I	D	G	N	V	E	T	L	K	E	K	V	E	I	D	D	N	E	A	N	K	L				
UniRef90_A0A059DEW2	T	E	V	V	E	G	D	W	T	S	G	S	V	K	L	W	K	Y	T	I	D	G	N	V	E	T	L	K	E	K	V	E	I	D	D	N	E	A	N	K	L				
UniRef90_M4EBL7	V	T	V	H	D	G	D	W	S	H	G	T	S	V	K	I	W	N	Y	T	R	D	G	K	E	V	F	K	E	R	R	E	M	I	E	A	R	M	D	D	E	K	M	Q	S
UniRef90_V4MAB8	C	D	L	H	D	G	D	W	S	H	G	A	I	V	L	V	W	N	Y	T	H	D	G	E	A	K	V	I	K	V	R	I	E	E	A	E	P	E	K	M	N	Q	S		
UniRef90_A0A059D661	I	E	V	H	E	G	D	W	T	P	G	S	S	V	K	L	W	K	Y	T	I	D	G	K	E	V	F	K	E	R	R	E	M	I	E	A	R	M	D	D	E	K	M	Q	S
UniRef90_UPI0002B490A2	I	E	V	H	E	G	D	W	T	P	G	S	S	V	K	L	W	K	Y	T	I	D	G	K	E	V	F	K	E	R	R	E	M	I	E	A	R	M	D	D	E	K	M	Q	S
UniRef90_F5C449	L	D	I	H	E	G	D	W	T	P	G	S	S	V	L	D	I	A	F	P	P	G	T	V	P	R	S	Y	K	E	K	F	V	K	V	D	H	D	K	H	L				
UniRef90_D7T8R2	V	H	L	H	E	G	D	W	T	P	G	S	S	V	L	D	I	A	F	P	P	G	T	V	P	R	S	Y	K	E	K	F	V	K	V	D	H	D	K	H	L				
UniRef90_Q9SXL8	V	E	L	V	E	G	D	G	W	G	H	G	S	I	I	C	Q	W	H	Y	N	D	G	N	D	H	V	A	K	E	I	V	E	A	I	D	E	E	N	K	S				
UniRef90_UPI0003EAB08D	I	E	L	V	E	G	D	G	G	P	G	T	S	V	S	I	L	K	F	N	P	A	K	Q	G	S	Y	K	T	R	L	V	A	R	D	D	A	T	H	F					
UniRef90_D7T8R8	I	E	L	V	E	G	D	G	G	V	G	T	S	V	R	L	W	T	Y	V	M	G	G	A	V	I	A	K	D	K	I	V	A	I	D	E	E	N	K	G	S				
UniRef90_I3T479	T	K	V	H	E	G	D	W	H	I	G	S	S	V	K	Q	W	T	Y	V	V	D	G	G	A	V	I	T	C	L	E	R	I	E	A	I	D	E	E	Q	N	K	T		
UniRef90_K3ZX6	V	D	H	L	E	G	D	G	G	V	G	T	S	V	L	L	V	Y	F	P	P	G	A	G	P	R	T	H	K	E	V	F	T	K	I	D	D	N	E	N	Y	I			
UniRef90_V7AIP4	A	K	V	L	E	G	D	G	G	L	G	S	V	I	F	L	F	T	F	F	A	E	G	S	P	V	Y	Q	K	E	V	F	T	K	I	D	D	N	E	N	Y	I			
UniRef90_I3SK75	I	E	I	V	L	E	G	D	G	K	A	G	S	V	R	H	I	T	F	A	E	G	S	P	V	V	K	S	T	E	K	I	D	A	A	D	D	E	K	K	T				
UniRef90_M5X8S7	V	E	L	I	Q	G	D	G	G	V	G	T	S	V	L	K	V	T	F	A	S	G	S	G	V	H	K	E	K	F	T	K	V	D	H	E	K	R	V						
UniRef90_Q9LQT7	C	C	T	M	H	D	G	D	W	S	H	G	S	I	R	S	W	N	I	T	C	D	G	K	P	E	V	F	K	E	K	R	E	I	D	D	D	E	K	M	A				
UniRef90_Q9LQT7	C	C	T	M	H	D	G	D	W	S	H	G	S	I	R	S	W	N	I	T	C	D	G	K	P	E	V	F	K	E	K	R	E	I	D	D	D	E	K	M	A				
UniRef90_Q9LQT7	C	C	T	M	H	D	G	D	W	S	H	G	S	I	R	S	W	N	I	T	C	D	G	K	P	E	V	F	K	E	K	R	E	I	D	D	D	E	K	M	A				
UniRef90_Q9LQT7	C	C	T	M	H	D	G	D	W	S	H	G	S	I	R	S	W	N	I	T	C	D	G	K	P	E	V	F	K	E	K	R	E	I	D	D	D	E	K	M	A				
UniRef90_B9T7P7	C	D	L	H	K	G	E	G	R	K	G	S	I	L	Y	W	N	Y	T	H	D	G	I	A	K	V	A	K	Q	I	V	E	D	I	D	D	V	N	M	S					
UniRef90_UPI0002B4A4BB	V	E	H	H	D	G	D	W	G	H	G	S	I	K	V	W	N	Y	T	I	D	G	K	A	E	V	L	K	E	R	V	E	F	D	D	K	N	L	V						
UniRef90_UPI00042B1D4C	A	E	Y	I	Q	G	D	G	G	P	G	S	S	L	R	L	F	K	L	G	P	A	V	C	N	Y	V	K	E	S	M	E	K	I	E	K	V	E	R	S					
UniRef90_C6T1L7	V	E	I	L	K	G	W	T	E	G	S	S	V	I	S	W	N	Y	L	E	G	K	V	C	V	A	K	E	V	I	E	G	I	D	K	K	N	K	K						
UniRef90_J3NE28	V	E	V	L	E	G	D	G	G	P	G	T	S	V	H	T	L	K	L	N	P	A	A	D	V	S	V	Y	K	T	R	L	V	A	R	D	D	A	S	R	V				
UniRef90_V7AF78	V	E	L	T	E	G	D	G	G	V	G	T	S	V	L	K	L	T	F	A	S	G	V	G	P	S	G	Y	K	E	K	F	T	K	I	D	D	N	E	K	R	I			
UniRef90_I3SPM5	V	E	L	T	E	G	D	G	G	V	G	T	S	V	L	K	L	T	F	A	P	G	L	P	P	T	S	Y	K	E	K	F	T	K	I	D	D	N	E	K	R	I			
UniRef90_I1MM30	G	Q	L	H	E	G	D	W	H	I	G	S	S	V	K	S	W	T	F	T	T	E	G	K	V	T	T	Y	K	E	S	I	E	A	I	D	D	E	K	K	S				
UniRef90_C5XER0	V	E	L	L	S	G	D	G	G	V	G	T	S	V	I	Q	L	T	F	P	A	E	G	I	P	F	Q	S	Y	K	E	K	F	L	K	V	D	N	E	N	F	I			
UniRef90_Q9S962	V	E	N	V	E	G	D	W	T	P	G	S	S	V	I	K	N	I	T	F	A	E	G	I	P	F	K	F	V	K	E	R	V	D	E	N	A	N	F	K					
UniRef90_I1R743	I	V	V	E	G	D	W	T	P	G	S	S	V	I	Y	T	M	K	L	N	P	G	V	G	V	N	T	Y	K	T	R	V	A	V	C	D	N	A	A	H	V				
UniRef90_UPI00042B58DC	I	V	V	E	G	D	W	T	P	G	S	S	V	I	Y	T	M	K	L	N	P	G	V	G	V	N	T	Y	K	T	R	V	A	V	C	D	N	A	A	H	V				
UniRef90_S8E3U1	L	E	V	L	E	G	D	G	K	I	G	S	S	V	R	L	V	K	F	Y	A	G	L	S	E	N	A	S	E	T	I	E	A	I	D	D	E	R	N	K	S				
UniRef90_M8A2B1	A	E	L	V	E	G	D	G	G	V	G	T	S	V	L	H	L	T	F	S	H	G	V	P	L	E	Y	Q	K	E	K	F	I	K	I	D	H	E	N	Y	V				
UniRef90_I3T9Y8	A	R	V	H	E	G	D	W	N	L	G	S	S	V	I	K	H	W	E	F	T	V	E	G	R	K	Q	S	A	K	A	K	I	E	T	I	D	D	D	N	K	L			
UniRef90_Q5YB43	T	I	K	K	V	T	V	E	G	R	K	Q	S	A	K	A	K	I	E	T	I	D	D	D	N	K	L	V	E	I	D	D	D	N	K	L	V	E	I	D	D	D	N	K	L
UniRef90_I3S4F2	A	K	V	H	Q	G	D	D	W	H	G	S	S	V	K	I	W	T	V	T	L	D	R	K	V	Q	T	L	K	E	S	I	E	V	I	D	E	E	Q	N	K	S			
UniRef90_O49305	V	T	V	L	Q	D	D	P	T	N	S	G	T	V	I	Q	L	W	N	F	L	V	D	G	K	M	E	Q	L	K	E	K	I	D	V	D	D	E	K	N	S				
UniRef90_Q3I3Y1	V	T	V	L	Q	D	D	P	T	N	S	G	T	V	I	Q	L	W	N	F	L	V	D	G	K	M	E	Q	L	K	E	K	I	D	V	D	D	E	K	N	S				
UniRef90_UPI00042B8E58	V	E	V	L	E	G	D	G	G	V	G	T	S	V	L	V	K	V	T	F	R	P	G	S	P	D	G	Y	M	I	E	K	F	T	K	V	D	D	E	N	R	V			
UniRef90_G8DRW0	C	D	L	H	E	G	D	G	T	P	G	S	S	V	L	C	W	R	Y	T																									

UniRef90_M5WW21
UniRef90_F2DAR0
UniRef90_M4DLR5
UniRef90_V4MI42
UniRef90_W5BHN3
UniRef90_M4D7A2
UniRef90_B9N590
UniRef90_I1R742
UniRef90_J3M0X8
UniRef90_J3M0X8
UniRef90_I1MJ3P
UniRef90_D7U2D6
UniRef90_UPI0002B48E6B
UniRef90_M5XH76
UniRef90_A0A059DEW2
UniRef90_M4EBL7
UniRef90_V4MAB8
UniRef90_A0A059D661
UniRef90_UPI0002B490A2
UniRef90_F5C449
UniRef90_D7T8R2
UniRef90_Q9SXL8
UniRef90_UPI0003EAB08D
UniRef90_D7T8R8
UniRef90_I3T479
UniRef90_K3ZX6
UniRef90_V7AIP4
UniRef90_I3SK75
UniRef90_M5X8S7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_B9T7P7
UniRef90_UPI0002B4A4BB
UniRef90_UPI00042B1D4C
UniRef90_C6T1L7
UniRef90_J3NE28
UniRef90_V7AF78
UniRef90_I3SPM5
UniRef90_I1MM30
UniRef90_C5XER0
UniRef90_Q9S962
UniRef90_I1R743
UniRef90_UPI00042B58DC
UniRef90_S8E3U1
UniRef90_M8A2B1
UniRef90_I3T9Y8
UniRef90_Q5YB43
UniRef90_I3S4F2
UniRef90_O49305
UniRef90_Q3I3Y1
UniRef90_UPI00042B8E58
UniRef90_G8DRW0
UniRef90_A0A022QQ63
UniRef90_UPI0002C3404C
UniRef90_Q75T45
UniRef90_Q9FYU3
UniRef90_R0FRR2
UniRef90_K3ZAD1
UniRef90_B6SQM0
UniRef90_M0WPF4
UniRef90_B9TAD1
UniRef90_Q9AXI3
UniRef90_Q9AXI3
UniRef90_UPI0002C35E9E
UniRef90_U5CZ99
UniRef90_B2WS87
UniRef90_M5XFH8
UniRef90_O49304
UniRef90_UPI0002B496F7
UniRef90_B9I002
UniRef90_Q5EFL2
UniRef90_V4VTJ8
UniRef90_Q39133
UniRef90_A0A058ZSX3
UniRef90_O65178
UniRef90_S8DIJ2
UniRef90_Q4QT19
UniRef90_C3SBU1
UniRef90_M1CVY8
UniRef90_M1CVY8
UniRef90_A0A022Q7H0
UniRef90_M5WLZ0
UniRef90_D2SMN1
UniRef90_V7BSV4
UniRef90_UPI0002B4763B
UniRef90_K7K8V1
UniRef90_UPI0002C2FF60
UniRef90_I3SXU3
UniRef90_A0A022QSU3
UniRef90_Q4QTJ0

90 100 110 120
LGLQVLEGGHLLNF GFS SYKITT FQLTRIQEEETMVSVEVTV
FKTEVLEGGDKVNSGQLKLSYQAVIE MKLEIAAGSDGGA CVAVAKLRTVVEY
VTFRGLLEGGHVMEMETLKLVDYDTTIFQFIQKSPEDDGLVCKKITMVMW
VFRRGLLEGGHVMEMETLKLVDYDTTIFQFIQKSPEDDGLVCKKITMVMW
KEAETVLEGGFLDLDGFRKLYLVRFEVVGKSEDDGTSTVTRSTVIEY
VKFRVLEGGFLDLDGFRKLYLVRFEVVGKSEDDGTSTVTRSTVIEY
IGLEVLEGGHLLNHDGFSHYKLTTFQVLTSTGEQETLVIDVTLISY
LKA E VLEGGKSKVGNLKS HSSTETKLEA STGDAS CVAVAKLRTVIEY
KETEVLEGGFLLDHDGFRQRYAVRLEIVGKTKGKSSVIRSTVIEF
KETEVLEGGFLLDHDGFRQRYAVRLEIVGKTKGKSSVIRSTVIEF
MTFKVLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
CKFTLEGGVLMGELKLRSAAGYELFMDDDGEGGSC ICRMTLSEY
KETELVLEGGGFLNIGFTLYRVRFKIIEENGGEDKCIIVETTLSEY
VSLTALLEGGHVLNLEKYKSKCIIFQVITPKSEGGGLVVKITTLGY
YCYSLTEGGDALGTTLKELVLSLEVKLTPASPKSEGGGLVCKKITSEH
VTINGLLEGGHVMEMETLKLVDYDTTIFQFIQKSPEDDGLVCKKITMVMW
VTYKALLEGGELMKEYNSFVITFQVITPKSGEPGSI IAHWHFEY
ATFVALLEGGHLLLEKYSYKVTLHIVLKGGEAVLVAKLTLEDF
HTLIAGLEGGVLFHEYKLFYKGT YQVVPKGPESHSLAVLTLLE
KEVVMILEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
VTFKVLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
ITFKVLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
IKSEVLEHVPGRAGKMKSQSSTEMKFEAA G VSS CVAVAKLKLDEY
MTFDLLEGGGV TSNYKSFKATLEAT SEAHHTNLVVKWVLE
NKYTLFEGGDLVSSHYKFFTLIFQVITPK ENNDGHTDAVKTWVLE
KEATVLEGGFLLDLDGFRKLYLVRFEVVGKSEDDGTSTVTRSTVIEY
IVLEVLEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
VSYAVIDGGEVLEQYKLFYKGT YQVVPKGPESHSLAVLTLLE
KEVEVLEGGGLVELGLSLYRVRFEVLEKSS CCCIILKTTEF
LTLKGLLEGGQAMEKYYKKK
LTLKGLLEGGQAMEKYYKKK
LTLKGLLEGGQAMEKYYKKK
LTLKGLLEGGQAMEKYYKKK
ATYKFILEGGDVMKE YKSAKLVVQVAIPKGE GSTVH WILVEY
VRMVGLEGGD VFKHYKTFIATYQVVPKGLGRSVIIFTLVEY
VTYQVLEGGD LKEMYD P YRVTFSFI PKENHKCIAEWKAEF
MSFKVLEGGD VLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
LKSEVLEVIQSKVIGKIKSQVLESKLEAAGD GSS CVAVAKLAVIEC
KETEVLEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
KEVEVLEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
VSFNIFDGGD VLEGE DYKNFKLHLHLIDKEEGGAITVWTVEY
KEAETLDGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
LKSEVLEAEESKVGKLES HSSTETKLEA STGDAS CVAVAKLKLVEY
LITLNALDGD LITVNYKTFKVIIVT SVANG QGSSLVVKWVLE
LSYTVIVDGD LITVNYKTFKVIIVT SVANG QGSSLVVKWVLE
KEAETVLEGGFLDLDGFRKLYLVRFEVVGKSEDDGTSTVTRSTVIEY
ITYSIFDGEVLESENKYSKALAKLQVVIHKEHGGGCVIVKWAYEY
YSYSIIEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
ATF SVFDGGEVLSKNYKTLKINLQVVIDKDDTDGVAKWTFDY
VSFLAJLEGGD VLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
HKYAAJLEGGSLGKKLKSA LNFELKFFVREEGGCALWLC
KETEVLEGGYKALGFD PFRVRLLELEKDSQSS IIRSSVVEY
ITFKMLLEGGD LMEYKSFVLTITIQTS PKSDGKSSVIRSTVIEY
ITFELIIGGEV LTKYKNSFKATLEAT TEGKNKI I KWSLE
FGLQVLEKGGHLLNHDGFS SYKTSFQLA G IQE QETL VSTVITVY
IKSEVLEDDAGSKVGLKLSHYTETKLEA AAGAGS CVLAKINVEY
LGLQVLEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
TKVITGLEGGHIMEQFKVCEFDYKFIIPKSEDDGLVCKKITMVMW
VRSSEVLEGGELVAAKFKS QVSELEKVVIPAGGAGS CVVCKKITMVMW
KEAEADIDGGLLKLGF EAYMRFEEV I PKGANS SVIRSTVIEY
KEVITVLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
VTMTAVLEGGHLLLEKYSYKVTLHIVLKGGEAVLVAKLTLEDF
VGTVTLKGGD PR FKHVSAVLKYA PGP SDGTTTATWTAT
VGTVTLKGGD PR FKHVSAVLKYA PGP SDGTTTATWTAT
LSF I GLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
KETLAIIEGGLOELGFKKYVRLLEIQEKANGGTSVVKSTVEY
LTKRGLDGGHPMEHLKVDVIYQFIIPKSEDDGLVCKKITMVMW
LITLNGLEGGD VLFKFKSFKPVYQFTQK DEGS IATLSTIAY
LVLRVIVDGGD LTKEFKSF LVTIQATPKRPGSVVCKCHLKY
FGIEVMEGNL LDKRGRS FNTTFR LSS ISEKETLVD FKV VY
LITLNGLEGGHLLNHDGFSHYKLTTFQVLTSTGEQETLVIDVTLISY
LITRVEGEDIDDKHYKVFHFLEVI DKGGEHTDAVKTWVLE
KVTDAVLEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
LTLKGLLEGGQAMEKYYKVEVLYQVFIIPKSK EGGCVCKKITMVMW
FTLHGLEGGHIMEDYKVFVKAGCKVVPKKA QGSSVAKLISMEY
VKFKIIEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
LSLRVIGGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
KQLQVIGGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
KEVITMILEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY
IKKKIIEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
IKKKIIEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
VTFKVLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
LGLQVLEGGHLLNHDGFSHYKLTTFQVLTSTGEQETLVIDVTLISY
KEVITMILEGGHLLNHDGFSHYKLTTFQVLTSTGEQETLVIDVTLISY
VNFKVLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
IKLTLGLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
IKFMLEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
VSLTALLEGGHVLNLEKYKSKCIIFQVITPKSEGGGLVVKITTLGY
ITFNIFDGGD VLEGE DYKNFKLHLHLIDKEEGGAITVWTVEY
VTFNILEGGD LLDG H YKSFKFLLEQVTPK EKGSSVNVNWLVEY
KEVRQILEGGYLDLGCYTFYMDRTHVLPKGPNS CVITESSLIY

UniRef90_M5WW21
UniRef90_F2DAR0
UniRef90_M4DLR5
UniRef90_V4MI42
UniRef90_W5BHN3
UniRef90_M4D7A2
UniRef90_B9N590
UniRef90_I1R742
UniRef90_J3M0X8
UniRef90_J3M0X8
UniRef90_I1MJ3
UniRef90_D7U2D6
UniRef90_UPI0002B48E6B
UniRef90_M5XH76
UniRef90_A0A059DEW2
UniRef90_M4EBL7
UniRef90_V4MAB8
UniRef90_A0A059D661
UniRef90_UPI0002B490A2
UniRef90_F5C449
UniRef90_D7T8R2
UniRef90_Q9SXL8
UniRef90_UPI0003EAB08D
UniRef90_D7T8R8
UniRef90_I3T479
UniRef90_K3ZXX6
UniRef90_V7AIP4
UniRef90_I3SK75
UniRef90_M5X8S7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_Q9LQT7
UniRef90_B9T7P7
UniRef90_UPI0002B4A4BB
UniRef90_UPI00042B1D4C
UniRef90_C6T1L7
UniRef90_J3NE28
UniRef90_V7AF78
UniRef90_I3SPM5
UniRef90_I1MM30
UniRef90_C5XER0
UniRef90_Q9S962
UniRef90_I1R743
UniRef90_UPI00042B58DC
UniRef90_S8E3U1
UniRef90_M8A2B1
UniRef90_I3T9Y8
UniRef90_Q5YB43
UniRef90_I3S4F2
UniRef90_O49305
UniRef90_Q3I3Y1
UniRef90_UPI00042B8E58
UniRef90_G8DRW0
UniRef90_A0A022QQ63
UniRef90_UPI0002C3404C
UniRef90_Q75T45
UniRef90_Q9FYU3
UniRef90_R0FRR2
UniRef90_K3ZAD1
UniRef90_B6SQM0
UniRef90_M0WPF4
UniRef90_B9TAD1
UniRef90_Q9AXI3
UniRef90_Q9AXI3
UniRef90_UPI0002C35E9E
UniRef90_U5CZ99
UniRef90_B2WS87
UniRef90_M5XFH8
UniRef90_O49304
UniRef90_UPI0002B496F7
UniRef90_B9I002
UniRef90_Q5EFL2
UniRef90_V4VTJ8
UniRef90_Q39133
UniRef90_A0A058ZSX3
UniRef90_O65178
UniRef90_S8DIJ2
UniRef90_Q4QTI9
UniRef90_C3SBU1
UniRef90_M1CVY8
UniRef90_M1CVY8
UniRef90_A0A022Q7H0
UniRef90_M5WLZ0
UniRef90_D2SMN1
UniRef90_V7BSV4
UniRef90_UPI0002B4763B
UniRef90_K7K8V1
UniRef90_UPI0002C2FF60
UniRef90_I3SXU3
UniRef90_A0A022QSU3
UniRef90_Q4QTI0

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

UniRef90_B9T7P7
UniRef90_UPI0002B4A4BB
UniRef90_UPI00042B1D4C
UniRef90_C6T1L7
UniRef90_J3NE28
UniRef90_V7AF78
UniRef90_I3SPM5
UniRef90_I1MM30
UniRef90_C5XER0
UniRef90_Q9S962
UniRef90_I1R743
UniRef90_UPI00042B58DC
UniRef90_S8E3U1
UniRef90_M8A2B1
UniRef90_I3T9Y8
UniRef90_Q5YB43
UniRef90_I3S4F2
UniRef90_O49305
UniRef90_Q3I3Y1
UniRef90_UPI00042B8E58
UniRef90_G8DRW0
UniRef90_A0A022QQ63
UniRef90_UPI0002C3404C
UniRef90_Q75T45
UniRef90_Q9FYU3
UniRef90_R0FRR2
UniRef90_K3ZAD1
UniRef90_B6SQM0
UniRef90_M0WPF4
UniRef90_B9TAD1
UniRef90_Q9AXI3
UniRef90_Q9AXI3
UniRef90_UPI0002C35E9E
UniRef90_U5CZ99
UniRef90_B2WS87
UniRef90_M5XFH8
UniRef90_O49304
UniRef90_UPI0002B496F7
UniRef90_B9I002
UniRef90_Q5EFL2
UniRef90_V4VTJ8
UniRef90_Q39133
UniRef90_A0A058ZSX3
UniRef90_O65178
UniRef90_S8DIJ2
UniRef90_Q4QTI9
UniRef90_C3SBU1
UniRef90_M1CVY8
UniRef90_M1CVY8
UniRef90_A0A022Q7H0
UniRef90_M5WLZ0
UniRef90_D2SMN1
UniRef90_V7BSV4
UniRef90_UPI0002B4763B
UniRef90_K7K8V1
UniRef90_UPI0002C2FF60
UniRef90_I3SXU3
UniRef90_A0A022QSU3
UniRef90_Q4QTI0

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

UniRef90_B6T5Z3
UniRef90_E2GK20
UniRef90_UPI0002C31258
UniRef90_C3SBS4
UniRef90_R0IND4
UniRef90_V4UGP0
UniRef90_D7T7M4
UniRef90_M0SSJ6
UniRef90_W9QQS6
UniRef90_A9XNU0
UniRef90_UPI0002B484A5
UniRef90_K4CB10
UniRef90_A9NTW6
UniRef90_A0A059D7N1
UniRef90_K4C3G6
UniRef90_V7AIU5
UniRef90_A9RD61
UniRef90_A9RD61
UniRef90_B9HJC7
UniRef90_Q949M0
UniRef90_M4D7A3
UniRef90_W9QBM4
UniRef90_M4EDD3
UniRef90_I3T371
UniRef90_G7J032
UniRef90_I3SQK0
UniRef90_UPI00032AB3D2
UniRef90_Q9C717
UniRef90_B9SFZ7
UniRef90_UPI0003DEA99C
UniRef90_A0A022PW35
UniRef90_D8RIM3
UniRef90_UPI0002B42203
UniRef90_A0A022PSL1
UniRef90_UPI0003D25CCC
UniRef90_Q7Y082
UniRef90_UPI00042B0C8E
UniRef90_B9SP82
UniRef90_G7L8F9
UniRef90_UPI0002C2FDB1
UniRef90_B5THI3
UniRef90_I1IHM4
UniRef90_R0IKH1
UniRef90_UPI0002BC8852
UniRef90_A9RZA3
UniRef90_A9RZA3
UniRef90_Q8L942
UniRef90_D7KL61
UniRef90_M4DI52
UniRef90_A0A059ANI0
UniRef90_UPI0002B49EBB
UniRef90_B9T7P9
UniRef90_Q9ZVF2
UniRef90_D7KGH9
UniRef90_K4A3F0
UniRef90_M4CUQ5
UniRef90_M4EZ56
UniRef90_A9PCB9
UniRef90_A0A059BEC6
UniRef90_D6MWR7
UniRef90_W5BZC2
UniRef90_UPI0002B47F99
UniRef90_B9S241
UniRef90_U5D556
UniRef90_M4DRY7
UniRef90_B9HJC8
UniRef90_G3DQF0
UniRef90_M5XTG3
UniRef90_K4C0U7
UniRef90_K4CB09
UniRef90_A0A022QUF0
UniRef90_A0A059DBJ3
UniRef90_G7L8F8
UniRef90_G7L8F8
UniRef90_M1BAW2
UniRef90_UPI0002B43CDB
UniRef90_S8C4A3
UniRef90_D7KIF8
UniRef90_U5DIV5
UniRef90_A9SQR7
UniRef90_C3SBS5
UniRef90_K4LBQ3
UniRef90_S8BW38
UniRef90_UPI0002B46E49
UniRef90_M4D7A1
UniRef90_Q6UEJ1
UniRef90_B9N2R4
UniRef90_C5YF15
UniRef90_UPI0002B412C1
UniRef90_V7AJQ5
UniRef90_A9SYY9
UniRef90_A9SYY9

1 10 20 30 40

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

UniRef90_B6T5Z3 I E T V E G D G K S G T V R L L K Y T E A V P M T F A K E K L E T A D D E N K R L V
UniRef90_E2GK20 V E Y V E G D G H L G T S V T H L V Y V P G S V P L S Y K E K F V T I D H E K R T L V
UniRef90_UPI0002C31258 F E I V V G G T G R T G T V T K W T Y D L G S E G V I A A K E K I Q A L D D D G K D T S L
UniRef90_C3SBS4 I D I V E G G T G T V T H L V Y P P G S I P H T Y K S E K I K F I T A I D H E K R L V
UniRef90_R0IND4 C T L R E G E G K V G S V I S W N Y V L D G K Q E V A K E R I E A V I D H E K R L V
UniRef90_V4UGP0 V D L L V E G D G G A G S V I F G R Y A N E G K S D S C K V T M E E I D D Y E N N K
UniRef90_D7T7M4 V E L L V E G D G G V G T V I F E L T L P G A G G P M I Y K E K F T K I I D D N E K R L V
UniRef90_M0SSJ6 V D I L V E G D G G V G T V L H L T F P T G T S P Q F Y K E K F V K I I D D E N R L V
UniRef90_W9QQS6 A E Y L Q G D G P G S V R L L K L G P E V S N N Y V K E S T E K I D D E N S G T S F
UniRef90_A9XNU0 I S V L E G D G G K P G S V R V F H Y T G E G S V V K V S Y E K I G E V E N E A N K F
UniRef90_UPI0002B484A5 I Q I H D G D W G H G S V K V W N Y T I D N R A E V I K E R V E F D D D K K L V
UniRef90_K4CB10 V D V T E G D G S T G T V L K I T F P Q G T S P Y F K E R F N I V D D E N K R Y
UniRef90_A9NTW6 A E Y V E G D G R P G S I R L L K L G P G V N T S E S K Q R I E E V K E G P L Q
UniRef90_A0A059D7N1 V Q L H E G E W H E D A V K L W T Y T V E G K T L T V K E R I E V D D A N K V
UniRef90_K4C3G6 V D I L E G D G G V D S V L R V T F P P G T P L L T S K E K F V V I D D E N K R V
UniRef90_V7AIU5 T K L H R G E D G H N E S I K H W T Y T I D G K V I T T C Q E S I E S I D D E A N K T
UniRef90_A9RD61 C T F A K G N G E V G S I R I S K M G P A I P D A E L V E Q V D V F D D A E K K
UniRef90_A9RD61 C T F A K G N G E V G S I R I S K M G P A I P D A E L V E Q V D V F D D A E N K
UniRef90_B9HJC7 V D I H A G D W T A G S I R I W Q Y T I G G K A G V F K E E V S V F D D E N K K
UniRef90_Q949M0 C D V H A D G E G K P G A I I F W N Y T L D G K K V A K E L V E A V D E E K K M
UniRef90_M4D7A3 C D V L E G E G K V G R I L S W N Y T I D G R A P K V M K E R I E A L E P E K N L
UniRef90_W9QBM4 V E V H E G D W S H G A I K S W N Y T C D G K Q E V F K E K R E F D D D K M A
UniRef90_M4EDD3 V K V H E G D W S H G A I K S W N Y T C D G K Q E V F K E K R E F D D D K M A
UniRef90_I3T371 T K V H E G D W H V G S V K H W T Y V V D G K V I T C Q L E R V E A D D E Q S K T
UniRef90_G7J032 V Q V L E G D G G V G T K L I F N F L V G G I V N Y Q R E V I T E Y D E S H T
UniRef90_I3SQK0 T K L H E G E D E V G S L R H W T Y V I D G E V H T C Q R E R I E S V D E E N K T E
UniRef90_UPI00032AB3D2 V Q L L D G D G G V G S T L L I F N F F P G V P L N Y Q R E R I A E F D E L T H E
UniRef90_Q9C7I7 C D L L E G E G K V G S I L L F W K L V F D G E P R V S K D M L E V I D D E E K N V
UniRef90_B9SFZ7 V H V H E G D W T P G S I R I W H Y T V E G K P G K L K E R A E L D D E E N K I
UniRef90_UPI0003DEA99C V E V H Q G E W K S G N I K E L T F A V G G D T V I E T L K E R V E F D D D E N K K
UniRef90_A0A022PW35 I D V V Q G D G G A G T L L E L F F P P G G G L T S Y K E K F T V V D D E N K R V
UniRef90_D8RIM3 I E N V D G D A A V G N T R M V K F N T D V P Y P F I K E E L T M I D D E S T H T
UniRef90_UPI0002B42203 V D I H D A E W D H G S I L K T W Y Y T V D G K A E V F K E K V E F Y D Q K L T
UniRef90_A0A022PSL1 C D L H E G E G H V G T V L S F K Y T H D G K D R S K Q V I T A I D D E Q K L
UniRef90_UPI0003D25CCC F E I H E G E K A G S I L S W K Y N E G G Q E M Y M K Y L V E A V D P E N K S
UniRef90_Q7Y082 V N V L E G D W T H G S I K I W N Y T V D G K T E V F K E R V E F D D E N K R A S
UniRef90_UPI00042B0C8E S K L L K G D G G P R S I K I K I T L G E G S Q F K Y V K H K V E G I G K E F S
UniRef90_B9SP82 C D L H E G E G K K G S V L R W N Y V H D G K V K V A K E L V E D I D H V N M S
UniRef90_G7L8F9 T K L H Q G D D W H G S V K Q W T Y T I D G K V H T C H E L I E D D L K Q N K R
UniRef90_UPI0002C2FDB1 F Q V V G E D R A A C E I Y W K Y D I G S G V L T A K L K V Q A L D D D E N R S
UniRef90_B5THI3 C D L H E G E G K V G S V I W N Y S L D G N A M L A K E E I V A L D D E E D K S
UniRef90_I1IHM4 V D V N G D G P G S V T T M T L S P A V A A G T M K S R V V S R D A A A M A
UniRef90_R0IKH1 C D L L E G E G K V G S I L L W R L V F D G E P R E S K D R T D A M N M
UniRef90_UPI0002BC8852 V N I H E G D G T V G S V N F W N F T H D V I E N A A K E I V E E I D D E E N K L
UniRef90_A9RZA3 V T L L N G H G E P G S V R V V K M G P A V P H A E V T E R M D L F D K E T R K
UniRef90_A9RZA3 V T L L N G H G E P G S V R V V K M G P A V P H A E V T E R M D L F D K E T R K
UniRef90_Q8L942 V T V H D G E W T Q G G I K I W N Y T L G D G K E E V F K E R R E I D D D N K I
UniRef90_D7KL61 C D L L E G E W K V G S I T F W K L A F D G E P R V S K D R I E T E V D M E K N V
UniRef90_M4DI52 C E L Q E G D W G K V D G V A I V C K D R V E E V E P E K N L
UniRef90_A0A059ANI0 T E F I K G N G S V G H I K L T N F T K V D H L K Y L K Y K I D A I D T R N R V
UniRef90_UPI0002B49EBB C R L H Q G E G K V G S I V Y W N Y F H D G E A K V G K H V I E A V I D D E N K M
UniRef90_B9T7P9 C D L H E G E G K H G T I I C W N Y T H D G E A K V A K E L I E A V I D D E N K S
UniRef90_Q9ZVF2 C T V H D G E W S H E A I K I W N Y T C D G K P E V F K E R K E L D D E N M V
UniRef90_D7KGH9 V T L H D G D W S H G A I K S W K Y T L D G K E Q V F K E R I E M A D E K M T
UniRef90_K4A3F0 V E L V E G D W S V G T V L L V T F P S A S G P V S Y K E R F T M I D D E K Y I
UniRef90_M4CUQ5 V E E Q V G D H T K N W T L S I D G K V E K M K E R V E I D D E E N K S
UniRef90_M4EZ56 V T V H E G E D S H G S I R S W N Y T W D G K E E V F K E K R E V D D E N L T
UniRef90_A9PCB9 I H L L K G E W K P G C T I S W N Y F I D G A P T A A K V M E D I D D N T K L S
UniRef90_A0A059BEC6 L N L H E G D W D H G A I K I W N Y T V D G K S E Q F K E K V E S F D D N N M S
UniRef90_D6MWR7 C D L H E G G Q V G S I T C W R Y I H D G P K F E K R D K Q V I E S I D D A E K L
UniRef90_W5BZC2 V E F V E G D G G V G T I M K L I T F P P G T P G T Y M K E F T F T K M D D D K R V
UniRef90_UPI0002B47F99 C E F L E G N D T T G A L M Q W S Y D I V G P A K V K A K V D D V D E Q N K S
UniRef90_B9S241 V E V V E G D G G V G T I M K L I T F P P G T P G T Y M K E F T F T K M D D D K R V
UniRef90_U5D556 I H F L E G D G A E G T V I H L I C F A P G T P P S S Y K E R F V K I D D E N K R V
UniRef90_M4DRY7 V T V H E G E W S H G G I K I W N Y T L D G K Q E V Y K E K R E I D D E N K T
UniRef90_B9HJC8 I E V H E G D W A T G S V R K L W T Y T I D G K P E V F K E K V E I D D E N K S
UniRef90_G3DQF0 A H H V E G D G G V G S V R H Y R C G S A V P F N S M K K I E F L D V D K G E
UniRef90_M5XTG3 V Q V H E G D W T H G S V K I W N Y H L G D E V G T F K E K V E Y D D E N K A
UniRef90_K4C0U7 V D V H E G E G T V D S V I F W N F I H D G K E V V A K E K V E E I D D E N K L
UniRef90_K4CB09 V E L L E G N G G A G T L V Q V S L V G N P P Y K E K F V L M D D E K R V
UniRef90_A0A022QUF0 C E L H E G T G T N G S I L Q W T Y T V D G E V Q T C K Q I Q N V D E E K K Q
UniRef90_A0A059DBJ3 F V T L E G D G G P G T I T S F S A K A I F C V M P K F S V V K E R L D F L D A D G C E
UniRef90_G7L8F8 G K L H E G E H H N D S V K H W T F V I D G E V H T C N E Q V E E V D E E N K K
UniRef90_G7L8F8 G K L H E G E H H N D S V K H W T F V I D G E V H T C N E Q V E E V D E E N K K
UniRef90_M1BAW2 C H L T D G D G N V G T L R E V R V I S G L P A V N S T E R L E L D D E E R H V
UniRef90_UPI0002B43CDB I E V V L G D W G H G S I R I W N Y T I D G K A E V F K E R I E V V E P E K K L A
UniRef90_S8C4A3 C V V Q E G E G K Q G S V I F W N F T H E G K E K V A K E V I E A V D D E K K L
UniRef90_D7KYF8 V S C T K A T G A K S A L S S S T F M A N G K L T V A K N R I D A V D P E K N L
UniRef90_U5DIV5 A E Y L Q G D G P G S L R V F K L G P A V Y V K Q A T E R I E K V D L G R S
UniRef90_A9SQR7 I D L E E G D G G P G S V F V L T M G P A M P G R V V R E R V D M R D D D R H K
UniRef90_C3SBS5 I D I L E G D G G E G T I L H L V M A Q G P P R E W K E K F V K L D D Q E R V
UniRef90_K4LBQ3 G E D W H H E N E S I K H W T Y V I D G E V H T C N E S I E V D D E N K K
UniRef90_S8BW38 C K V E E G E G K P G S V I V W T F T H E G K E S V A K E V I E R V D D E N R V
UniRef90_UPI0002B46E49 V D V T D G D W G H G S I K I W N Y F A D G K P E V L K E Q V E F D D V N G K L
UniRef90_M4D7A1 I C T T E S G A K F G S I S W N Y M H D G K A K V A K E R I E V V E P E K K L
UniRef90_Q6UEJ1 A K L H E G D D H S D T V K H W T Y V I D G E V H T C H E S I E E V D E E N K K
UniRef90_B9N2R4 V E V T E G D G G V G T V I K L T F P G T S G G Y M K E L F R I M D D E K R V
UniRef90_C5YF15 V E V L R G D G T V G T V I K L T F P P G N P V Q T Y S E F V K I D D E N R V
UniRef90_UPI0002B412C1 V E V H D G D W G H G S V K T W K Y T L D G K D E V F K E Q V E F D D E K Y A
UniRef90_V7AJQ5 A K L H E G D D A N D S V K H W T Y I L D G K T V T C H E T I E S V D E A Q N K R
UniRef90_A9SYY9 Y E F L E G N G E P G S I R L L K L G H A I P N N H V V E R I D V N E A A T K R
UniRef90_A9SYY9 Y E F L E G N G E P G S I R L L K L G H A I P N N H V V E R I D V N E A A T K R

UniRef90_B6T5Z3 V S Y S V V D G E 90 L A D F Y K N F K I T L K V T P A G E G G A V V S W A M E F
UniRef90_E2GK20 K E A V H I E G G F L E M G V T F Y M N S F E I I E K A G S D G C C I I I R S M T K C
UniRef90_UPI0002C31258 I T F V I L E G G D V L K V Y V K S F M A K M Q V T E K A G N G G S C I I I K W T L E F
UniRef90_C3SBS4 K E V R Q I E Q G G Y L D M G V T F Y M D S F H L L E N G P N S C I I I K S M T T Y
UniRef90_R0IND4 I V L R V I D G G D L M K N F K S F L I T I Q A T P K S G S G S V V N C H I K Y
UniRef90_V4UGP0 I T F K V I E G N G L L D Q Y K S F C C F F Q V I T P K G E G S F V I T W T L K Y
UniRef90_D7T7M4 K E T E V V E G G F L D L G F T L Y R V R F E I V E K D K D S C V I K I K I E Y
UniRef90_M0SSJ6 K E A V V V E G G Y L E M G F L S F L V R F E L I D K E E G V S I I K S T I E Y
UniRef90_W9QQS6 V T Y R V V I E G G D L R R M Y D P Y R V T F T F T P K E N G S T C I A E W K A E Y
UniRef90_A9XNU0 V T Y S V I D G G D L L K Y Y K N F K G T I T V V P K G E G S L V K W N C V F
UniRef90_UPI0002B484A5 V R V V G L E G G D V F K H Y K T F T G T Y Q V V S K G P N R S A I I F T L E Y
UniRef90_K4CB10 K Q S Q V I E G G Y V D L G Y I F Y G I R F E V R E K D E N S C I I T K F T V N Y
UniRef90_A9NTW6 M K Y K V L E G G E L L K K M Y D P Y T V T F S F R G D G N N K C I A G W R A E Y
UniRef90_A0A059D7N1 L I F N I I E G G D L L E E F K T F K A I V K M I A K S D G R S L A K W T L E Y
UniRef90_K4C3G6 K I A Q V V E G G D L L D V G F T L Y K V K F E V V E K G S C I I T K S T I E Y
UniRef90_V7AIU5 V I Y K L F D G G D L L K Y Y K N F K F V F Q A I D N S G S I I K W T V E Y
UniRef90_A9RD61 V G Y T V L K G D P R F K Y V T A V V
UniRef90_A9RD61 V G Y T V L K G D P R F K Y V T A V V
UniRef90_B9HJC7 I T L N G L E G G D V M K I Y K V Y R P V W Q L T P K G S G C L A K L T I E Y
UniRef90_Q949M0 V R F K I I E G D L L K E F K S F T L V V Q V I P K D N I T G V R W T A E F
UniRef90_M4D7A3 I V A R V I E G G D L M K E K N F F L T I Q A T P K Q G P G S V V K C H L K Y
UniRef90_W9QBM4 I R L V G L E G D V F K H Y K S F T P I Y E L T P K G N G G V A K T V I E Y
UniRef90_M4EDD3 V T F R G L E G H V M E Q L K V Y D V I F Q F I P K A K S G C I C K
UniRef90_I3T371 N K Y T L F E G G D I D D P H Y K N F T L I L Q V I D N K S N S H A V A R W T I E Y
UniRef90_G7J032 I G L Q V V E G G Y L N Q G L S Y F K T T F Q V S A I D S E N K T L V N V K I S Y
UniRef90_I3SQK0 I K Y S L F D G G D I G Q H Y K T F L L T L Q V I E N K D G H D T V K W T V I E Y
UniRef90_UPI00032AB3D2 I G L E V I E G G Y L S Q G L S F Y Q T N F Q L S Q I E G D K T L V N V K L S Y
UniRef90_Q9C717 I Q L R V L E G G P L K K E Y K S F L K T M K V M S P K G G P G S V V K W N M K Y
UniRef90_B9SFZ7 V K L I G L E G D V F E H Y K V Y N P I W H P K P N E G S S L V T V A I E Y
UniRef90_UPI0003DEA99C L T Y T I E G D M L K Y X K S Y K V I L N V L P E G D E E H S L V K W T F L Y
UniRef90_A0A022PW35 K E T E V V E G G F L D L G F T L Y R V R F E V E K A A E E C I T R A T V E Y
UniRef90_D8RIM3 I G V S V I E G G L V G T Q V S L K W K L T L K P E G E S L L L W S L D Y
UniRef90_UPI0002B42203 M V L V G M E G D V F N Y Y K S Y K S T F Q V V P K D D N H C Q A V M T I E Y
UniRef90_A0A022PSL1 I Q F K S I E G D C L E E Y K D F L I T I H V E T K N D I D L V T W T L E Y
UniRef90_UPI0003D25CCC I T W K L I E G D L L E L Y N Y F N V A T S C D H Q W T T W T Y E Y
UniRef90_Q7Y082 A T L T G V I E G S T V L N H S K E T F K G T Y Q V T P K G N G S L A K L T L V Y
UniRef90_UPI00042B0C8E Y S Y S V I E S D V L M N T K E K I N Y E I K F L A G P S G S G S V C K S T S K H
UniRef90_B9SP82 T T F K V I E G D L L K E Y K S F K F V V Q A T P K G D G S T V R W L I E Y
UniRef90_G7L8F9 I T F K L F E G G D I D E H Y K V F K L I L E V I D K A G N A A V K W T L E Y
UniRef90_UPI0002C2FDB1 I T F I F L E G D A L K V Y K S F K A K M Q A N K A G N G G C T V K W T M E F
UniRef90_B5THI3 V T F K V V E G H L F E F K S I V F S V H V I D T K G E D N L V T W S I D Y
UniRef90_I1IHM4 I R T E V L E G G R V S G L L K S Q V A E V R V E D A A D A G C V A K L T V E Y
UniRef90_R0IKH1 I Q W R V L E G P V M K E Y K S F L K T L K V S P K H E H G S V V K W N M K Y
UniRef90_UPI0002BC8852 I K K K M I E G D L L E D Y K S F Y I T T H V E T K G E N N L F I W I I E Y
UniRef90_A9RZA3 L G Y T V L K G D P R Y W C F K A T M Q F N E G P T K G T T E G W M A S Y
UniRef90_A9RZA3 L G Y T V L K G D P R Y W C F K A T M Q F N E G P T K G T T E G W M A S Y
UniRef90_Q8L942 V K V V G L E G H V M E Q F K V Y E I D F Q F I P K S E E D C V C K I T M I W
UniRef90_D7KL61 I Q W R V L E G P L K K E Y K T F L K T V K V S P K G G S S V V K W N M K Y
UniRef90_M4DI52 I Q T F R V I E S D L L K M Y K S F L V S T I Q V T P K G G P G G I V H W L E Y
UniRef90_A0A059ANI0 Y R Y T L I E A N T S F A F E V K F E A S S D V G C V Y K M T S E Y
UniRef90_UPI0002B49EBB V V Y K V I E A D L L K N Y K D F R F I M Q F T P K G E G S I A H C T L E Y
UniRef90_B9T7P9 T T F K V I E G D L L K D Y N S F W I V K A S P K E G G S S L V H W T L E Y
UniRef90_Q9ZVF2 I T F R G L E G H V M E Q L K V Y D L I Y Q F S Q K S P D D I V C K I T M I W
UniRef90_D7KGH9 V A F N A L D G G V M E E L K V Y I A N L Q F I P G S Q N G C V C K V S V I Y
UniRef90_K4A3F0 K E V A V I K G G V L D L G F K Y V R F E I E G K D G T I I R S T I E Y
UniRef90_M4CUQ5 M T V F V F D G G D V M E N Y S S F K C N L Q I I P K L H G R S I A R W S W E Y
UniRef90_M4EZ56 L V L R E L E G H V M E Q L K V F D V I Y Q F I P K T E D T S S C K I T I W
UniRef90_A9PCB9 T T F N V I E G D L M G A Y K S F K A I V Q A T P K G H G S V V R W T M I Y
UniRef90_A0A059BEC6 V T L H G I E G H I Y D V Y K V Y K P V C K V I P K E E G S V A K L S T I E Y
UniRef90_D6MWR7 I V F K M I E G D W M E L Y K T F V I T A H V E T T G D I D L V T W T L E Y
UniRef90_W5BZC2 C R S T L L E G G H V G T V I E T A T S C I K V E P A A G G S S V V K V E S T Y
UniRef90_UPI0002B47F99 I T Y E A V E G D I L S H Y N F F R A K F Q A S P N G E S G S T V K W T I E F
UniRef90_B9S241 K E T E I I E G G Y K D L G F D H V R L R L E I I E K D D D S I I R S T I E Y
UniRef90_U5D556 K E A L A I E G L K E F G F K K Y L R L E I Q E K P G G I S I K S S I Q Y
UniRef90_M4DRY7 M T A R G L E G H V M E H F K V C D I V V Q F I P K T E D S C V G K I T M I W
UniRef90_B9HJC8 V S L T A V G G H V L Q Y K S Y K L T K T V S M A E G G V V K I L L D Y
UniRef90_G3DQF0 C K Y T I E G E C D G V E T S T W N I K M K P T A N G G S V A T V E C
UniRef90_M5XTG3 A T L T G L D G E M F K Y Y K S F K G I Y Q F A Q K G N V S V A N L T I H Y
UniRef90_K4C0U7 I K K K I I E G D L L E Y Y K S F Y I T V H V I E T K G E N N L V T L I I E Y
UniRef90_K4CB09 K G V E I V E G G Y L D L G F T F Y G F K F E V I E K D E N S S F I K L T I D F
UniRef90_A0A022QUF0 F S Y K F I E G D L L E L Y K D F V V T C H V E T R D G V D Y I T W T I D Y
UniRef90_A0A059DBJ3 H T Y A I V E G D A L E K I S N E I K A E A G P D R
UniRef90_G7L8F8 I T F K L F G G D I E N Y K V F N V I L E V I I K D N G S S A V R W T I D Y
UniRef90_G7L8F8 I T F K L F G G D I E N Y K V F N V I L E V I I K D N G S S A V R W T I D Y
UniRef90_M1BAW2 I S F S V V E G H R L A N Y K S V T T L H P E P L G N G P T I V E S Y V D
UniRef90_UPI0002B43CDB T T L T G L E G N V F K A Y K T M K G A F Q V P K G P N E S L A V L I L E F
UniRef90_S8C4A3 I S L R I I E G G H I L D E Y K D F L A T F H V E T T R D G K D F V T W T F E Y
UniRef90_D7KYF8 I T F K V L E G D L M K E Y K S F A E T I Q V T P K G A P R S I V H W L D Y
UniRef90_U5DIV5 I T Y T V V D G E L K G M Y D P Y V V T L S F F P D G G S R C V A R W E A Q F
UniRef90_A9SQR7 L K H T T I E G G D P R Y S S F S S S I K Y E S G P Y R N T T I T W T A K Y
UniRef90_C3SBS5 K V I Q Q I E G G Y L D L G F S L H Q K D T F E I P I D N N S C I I R S T V I T
UniRef90_K4LBQ3 I T Y K L F E G G D I D N F T V F K D L I L E V I I K D D G T S A V R W T I D Y
UniRef90_S8BW38 L S F R I V E G E V L D Q Y E E F L T T F R V E P S R D K K D Y V T W T F E Y
UniRef90_UPI0002B46E49 V T L T G L E G S A F K Y Y K F I P I Y Q F V P K G D N H C I A I L T I E Y
UniRef90_M4D7A1 I K F K V L E G D L M E E F K S F L I T I Q V T P K G N G S I V K W H F E Y
UniRef90_Q6UEJ1 V I W K I F G G D I D K H Y K N F K L I L E V S D K A D G I D V V K W T I E Y
UniRef90_B9N2R4 K E T E M I E G G Y I D L G F D V Y R L R L E I I E K D A E S S V I R S T V K Y
UniRef90_C5YF15 K E A A V I E G D L T L G F D T Y L T R F Q I I D K G P S S V I A S T V E Y
UniRef90_UPI0002B412C1 M T M I G L E G D V F T H Y K T F K G T Y H V V P K G P E H S L A V M S L E Y
UniRef90_V7AJQ5 I V F K L Y G G D I D D K Y K V F L I F E A I E K D G G S A A V K W S V E Y
UniRef90_A9SYY9 W G Y T V L Q G D P K Y K Y L S A V M Q F L P G A E E T T L A K W V G I Y
UniRef90_A9SYY9 W G Y T V L Q G D P K Y K Y L S A V M Q F L P G A E E T T L A K W V G I Y

UniRef90_B6T5Z3 D K A N D Q V P D P D V I K E T A T K T F H D L D D Y L L K N
UniRef90_E2GK20 E I E D K E I M N L I S H I S V A N V T V L A M T I S K Y V Q Q H
UniRef90_UPI0002C31258 E K A N S N T P D P K I Y A E Y A I K V S K G I D A Y L
UniRef90_C3SBS4 P N E E V G E K V S P F I S I D S L V G M A E L S K Y V L
UniRef90_R0IND4 E R N D E K V A H P E K L L A F I V K T S R D M D K F I L S
UniRef90_V4UGP0 E K P N E N V P E P A A M L Q L C V D V T K D V A A K L I
UniRef90_D7T7M4 D V K E E A A S N A S M V T T K P L E G I A S V T T T Y L L A N A N A
UniRef90_M0SSJ6 E V D E E H
UniRef90_W9QQS6 E V L N P A T P P P E K A R D A A L G F L K W F D K F
UniRef90_A9XNU0 E K A S P E V P D P H A I K D F A
UniRef90_UPI0002B484A5 E K L H D G P P Y P D K Y H E A M N S L A K D I E S H L
UniRef90_K4CB10 E V E D V K L A N H A F T M F E P L Q T V I R S A K T Y L
UniRef90_A9NTW6 Q L L S P N V A A P E K A K D V A L R F M K A I E D Y L S S N
UniRef90_A0A059D7N1 E K L H E G V A D P T A C K D L E I K L T K D T D A H I I N N
UniRef90_K4C3G6 E V K E
UniRef90_V7AIU5 E R L D K E V D P P Y G Y I E F L H K C T R D I D A H L L
UniRef90_A9RD61
UniRef90_A9RD61
UniRef90_B9HJC7 E K L H P E V P V P E I Y V D L M V H M T K D I D E A L
UniRef90_Q949M0 E K V H D E G H Y P T K L I D F C L A V T K D I E A Y
UniRef90_M4D7A3 E R I D K K V A D P E
UniRef90_W9QBM4 E K L S E D V P A P D K Y L A M A V K I A Q D I D A H
UniRef90_M4EDD3
UniRef90_I3T371 E K L H E D I E P P N G Y M E Y F N K L T R D Q V D N
UniRef90_G7J032 D H E S E L I E E K V K P T K T S E S T L F G Q L E K F L L
UniRef90_I3SQK0 E M H H E E K E P P H G W M E Y V H K C T R D I D A N L L
UniRef90_UPI00032AB3D2 E D H E S E I E E R V K P T K T S Q S T L F D R L E K Y L L
UniRef90_Q9C7I7 E R I D Q N V H P N R L L Q F F V E V T K E I D Q Y L L S
UniRef90_B9SFZ7 E K R N S S V P V P Q I Y V D F M V N M T K E I D E A L V E
UniRef90_UPI0003DEA99C E K V D H T A S E P T K Y K D L V V K L V K N V E A L L V E
UniRef90_A0A022PW35 V R E E C I A N A A F V S I Q P L V S V M E C A A R Y L
UniRef90_D8RIM3 E P K V P G T E E V D K F A D G F V A S I K Q V I E A Y V L S
UniRef90_UPI0002B42203 E K I D D A S P Y P Y K Y I H L M N T V T K D I E S H L I
UniRef90_A0A022PSL1 E L L N E D V E H P L S L S F F I D M T K V I E T H H
UniRef90_UPI0003D25CCC E K K T E D T P E P L I H L G F I L L N L I K D I E G H L L K N
UniRef90_Q7Y082 E K V K E D V P D P
UniRef90_UPI00042B0C8E Y T I G D I E I K E E Q T K S L G N V Q G
UniRef90_B9SP82 E K L N
UniRef90_G7L8F9 E K I N E D I D P P N G Y M D Y F A K S T R D M D A H L V
UniRef90_UPI0002C2FDB1 E K A N E N V P D P K G Y T E L G E K V S R G L D A Y L
UniRef90_B5THI3 E K L N E S V K D P T S Y L D F L L S V T R D I E A H
UniRef90_I1IHM4 E R I G G A L V A S E D Q A R L L A S G Y L G L L K K V I E A Y L V A H P E E
UniRef90_R0IKH1 E R I H E K V A H P E R L L Q F F I K V I N E I D Q Y L L
UniRef90_UPI0002BC8852 E K K N A N V S D P H T F M E F A L K M T K D I E T H
UniRef90_A9RZA3 G P L G N M G P P E H I W G I V Q L V W K A L A G D V K E H P E L Y
UniRef90_A9RZA3 G P L G N M G P P E H I W G I V Q L V W K A L A G D V K E H P E L Y
UniRef90_Q8L942 E K R N D D F P E P S S Y M Q L L K S M V I D M E D H V L
UniRef90_D7KL61 E R I D E K V A H P K R L L Q F F V E V I K E V D R Y L L S
UniRef90_M4DI52 E K V S E E V E H P E S H L Q L S V E V S K D I D E Y L L
UniRef90_A0A059ANI0 H S K
UniRef90_UPI0002B49EBB E K L H G K V P D S H S M L K L C E E V C K D L D A H L M E
UniRef90_B9T7P9 E K K H E G I P D P H S L L D F C V H T S K D I C A H
UniRef90_Q9ZVF2 E K R T D D S P E P S N Y M K F L K S V V A D M D E H V L
UniRef90_D7KGH9 E K R T Q D S P E P T M F M K F L E K M V A D M D H I L Q N
UniRef90_K4A3F0 K V D A E Q T S N A S I
UniRef90_M4CUQ5 E K L N S D S P A P N K Y M D F A V Y L T R D I E S N L L
UniRef90_M4EZ56 E K R K D E Y P E P S M K F N K S L I V D M
UniRef90_A9PCB9 E K L S E N I P A P T A F V D F A V D L T K D I N A H
UniRef90_A0A059BEC6 E K Y K A S D P N P D S Y M A V F I E M T K D I D A H V
UniRef90_D6MWR7 E M L N E D V G H P I S F L S Y F I D L T K D L E T H H L A K P
UniRef90_W5BZC2 K L L G V E E A Q Y E V A K A K E S V T A I F K A E A Y L I A N P D A Y N
UniRef90_UPI0002B47F99 E K A D E N I P T P E A Y L D F V S K L S L G L D A Y L A T N
UniRef90_B9S241 E M D E T K P E L A S F V I S T K Q L E I M A E T I A K Y L T H N K S
UniRef90_U5D556 I D E E H A W T P P I T I M P F K L I A E K V A N Y L
UniRef90_M4DRY7 E K R N D E V P E P S M K L V K S M V S E M Q E H V
UniRef90_B9HJC8 E K L K P D D P P N K Y L D F V I N V V K D I D E H L V
UniRef90_G3DQF0 T S K G V E A K D M M L K A K D S A E M F K T V E A H L I A N P D T Y N
UniRef90_M5XTG3 E K R N A D V E A P D R F V I G L M V T L V R D L D A H
UniRef90_K4C0U7 E K K N A N V P D P H T F M E L I L N V T K D I E N Y
UniRef90_K4CB09 E T K D V E N V D I T I A N L Q A F I A I M K T S A D Y L
UniRef90_A0A022QUF0 E L L K A D N P H P I N I L K F V I G F T K D I E T H
UniRef90_A0A059DBJ3 E E N K A S K D K A V G M L K A I E A H L L Q K P
UniRef90_G7L8F8 E K K N E D I D T P N G W M D Y L S K C T R D I D G H L V
UniRef90_G7L8F8 E K K N E D I D T P N G W M D Y L S K C T R D I D G H L V
UniRef90_M1BAW2 V P K G N
UniRef90_UPI0002B43CDB E K L N D D S P Y P Y K Y L D L M I K I L K D V A S H V
UniRef90_S8C4A3 E L N D D V G P P
UniRef90_D7KIV8 E K I S E E V A H P E T L L Q F C V E I S K E I D E H L L S
UniRef90_U5D556 E P L S S T P P E R A K E A A L T F L K S F E N F
UniRef90_A9SQR7 T P A P W A P P P E D L K G L S E K I T E T L H N Y A A E N P D A Y
UniRef90_C3SBS5 D L D N Q F E S N A S L I T V D S L W G M A K S I V K Y V L D N K S
UniRef90_K4LBQ3 V K I S E D V D T P N G W M D Y L S K S T R D I D G H L I
UniRef90_S8BW38 E T R G G D V E P P F A L E Q T A F G V
UniRef90_UPI0002B46E49 E K L N H S S P Y P Y K Y I E I M N G I T K D M E S H L
UniRef90_M4D7A1 K
UniRef90_Q6UEJ1 E K I S E D I N P P N A Q I D F L R K N T R D V D A N L V
UniRef90_B9N2R4 E F D D T K T E L A S L V T V K P L Q T M A E E I G K Y V
UniRef90_C5YF15 E Y D D
UniRef90_UPI0002B412C1 E K L D D G S P Y P Y S Y L D I M N R V T K D I E S H L
UniRef90_V7AJQ5 E R V S E E V H A P Y G Y L E F F D H V I R D V D A H L L E
UniRef90_A9SYY9 V P H N Q N I P P P D L A L N V W K V F E G V A R A S P Q A
UniRef90_A9SYY9 V P H N Q N I P P P D L A L N V W K V F E G V A R A S P Q A

1 10 20 30 40
UniRef90_UPI00042B81ED H L S Q D T V V E V P A A V L W D V F S L Q L A K L V D E L L G D V V G K
UniRef90_A0A022PQR4 I E F K A G G D V F H E L F R H K P H H L S N V T P E K V Q G
UniRef90_R018F7 D V E I K A S A K K Y Y Q M L A G R P N D I A K S T P D N V K G
UniRef90_K7MBC8
UniRef90_K4C0U8 S E I N I K C D G D V F H E T I M Y K P H Y M C N I C P D K I Q N
UniRef90_A0A059D667 S H E L E V E V P A S Q A W E L Y T L G I A R L V E Q S L S D V I S K
UniRef90_UPI0002C37431
UniRef90_A0A059B559
UniRef90_G3DQE8
UniRef90_Q8L6V6 S T E L G I K A P A S K F Y N L F A T Q L H N H C E R V H H T K L Q Q S
UniRef90_A2A1A1 H E L E V A A S A D E V W S V L G L H L P D L L P A G I F A K F E
UniRef90_B9HJC6 E L E T V I E L K S S P E K F F G V W K T Q A Y H I P N H T P D N I H A
UniRef90_A0A022R047 D V F H E L I R H N P H Q L S N I T P G N I Q G
UniRef90_G7L7S7 S T E L G I K T P V D K F F K L F A S E L H E V Q N I S E R V H G
UniRef90_A0A059DAK9 T S F T Q E L I C P I A P A R I L K A L I V E S N T L L P K L L P Q F I K S
UniRef90_A0A059DJC7 G Q V S Y E T E V K A G A K V W G L Y G T T K M A L L A K A L P D T I I G
UniRef90_UPI0002B4B17E S E L E I N A P A E K F Y K I F K H C F H V N I T P K F I Q Q
UniRef90_V4W3H7 Q V V L N L P A E K A W E M Y R N N E I I S K I N P E M L A H
UniRef90_C6T1D7 V G K I S T E I G V H A T A A K W F N L F A T Q L H H V Q N L T D R V H E
UniRef90_K4AR40 P H L I P N I T P S K I L S
UniRef90_M8AA1 H E F E T D L P A A D V W E V Y G L A L G Q L V P Q L L P Q V L S K
UniRef90_A0A059D656 T L K T E L E L K S P A D K Y F K G I S S K L Q H A P N A S S E K V H A
UniRef90_D8QP03 V A N V K V E I L N V N C D R A W E A F S K D S S S W L P R M M P N V I Q S
UniRef90_S8CI23 T K I E A S V E M K S D A D K V W E S I K E S T T L F P K A L P R Q Y A S
UniRef90_M1CUL1 I E M K A N K D V F H D V F T N K P H H V S T I C P L H V Q G
UniRef90_K4CRT4 S V A Q E I G A S V A T V W S V L R R F D N P Q A Y K H F V K S
UniRef90_I1J7H4 G V I T Y S Q K I T N V Q V L F L D S Q N M L P K I V P E G I K S
UniRef90_A0A059B5P1 G Q L S H E T E V K V G A G K A W E L Y T L K L V L L A K Q E F S H T I
UniRef90_A0A059DKN6 P Q L L P Q V L S K
UniRef90_W5AY05 E T E F E I T A P A D K F Y N I F K S E A H H I P N T S Q T G T I T G
UniRef90_UPI0002C2F965 I E M K A D K D V F H D V F T N K P H H V S T M S P L H V Q G
UniRef90_H9WFS7 T Y V A E V P L K G S A E K H Y K K W R N E N H V F Q D A V A H H I Q G
UniRef90_K4CQ32
UniRef90_Q42185
UniRef90_B9RZR8
UniRef90_W1P6J6
UniRef90_UPI0002B45654 Q I E I K T S A E K Y Y K L F K H H I H H L P D I T P I F Q Q
UniRef90_UPI0002B4B5DE V G E L V N E T E V N A N A N K F F H F K H E I F H T N I S S N L I Q Q
UniRef90_B9S473 I N A P V S T V F H S V I V R R F D N P Q A Y K H F V K S
UniRef90_M1ACY0 S E I N I K C D G D V F H E I F R H R P H H I S T M S S D K I Q N
UniRef90_S8CWB3 G K L V V A H E F P S K G E V F H Q I L K N N P H S F S T S S P Q F I Q G
UniRef90_UPI0002B42FD1 V V I Q E I T A P I S T V W S V V R R F D N P Q A Y K H F V K S
UniRef90_UPI00042B4BFD H L S Q D T Q V A V P A A V I W D V Y T L E L G R L V N K L L G D V I G S
UniRef90_UPI00042B4BFD H L S Q D T Q V A V P A A V I W D V Y T L E L G R L V N K L L G D V I G S
UniRef90_UPI0002C30EEE E T K A Q R T V G V E A L W K G M T K D L V S V M P K I M P D I V Q S
UniRef90_Q9FYJ0 T Y M T D V P L N G S A E K H Y K L W S S E T H R I P D T I G H L I Q G
UniRef90_M1B097 E I L L N I S A E N A W E M Y R D N D T I S R I N P Q M L A K
UniRef90_A0A022QWT5 V S P S H V Q N
UniRef90_A0A059DAY6 V T L K A E I T H P I P K A R L V E A F L G A G G F F Y N L L P A V T N
UniRef90_UPI00042B3D85 H L T N E L E V K V A S E V W E L Y R L G I S M L A A Q E L K N V I Q S
UniRef90_I3SFB3
UniRef90_C6TIJ3 P A D R F F N S F K N K E G S F T D K T E
UniRef90_M4DIN4 V T H E L E V Q V S A S Q A W E L I T L E L A K L T Q Q T L T D V V E K
UniRef90_UPI0002C35F21 H N F F T K V L P T H I F S S
UniRef90_H9WKD1 E T V L E L S C T P Q Q F F T V W K S E A H Q I P N H T P N N I H A
UniRef90_B9SJ69 E I S E Q V N I K S S A H K F Y Q F F K N K M D Y V F V Q M F P E I Y K S
UniRef90_UPI0002B41D41 I D A P V P V V W S V V R R F D E P Q A Y K H F L K S
UniRef90_A0A059BI46 I H D L F L T N S H H I P Y I S P S K I N R
UniRef90_M1CUI4 T E L G I K T P A D K F F H L F S K L H D V Q N H C E R V H E
UniRef90_Q6KAV9 I S A P V S T V W S V I V R R F D N P Q A Y K H F V K S
UniRef90_I3T217 Q I E V K A K N D V F H D A F R H K P H H V S T M C P V H I Q G
UniRef90_K4D3W5 L M L K A P H F F A K A A P A K V K S
UniRef90_M1AH43 D V K V K L G A P V E K I W S A A K K I G V L M P K I L P D V F S S
UniRef90_S8DP11 V E V P A A V I W E V Y R L Q L G K L V N E I T R D V I G E
UniRef90_UPI00042B5C82 S T E I G I K A S S D K F F K L F A S N I H E V Q N I C E S V H E
UniRef90_A9S6H3 V V Q E I D A P V S T V W S V V R R F D N P Q A Y K H F V K S
UniRef90_W5QXF0
UniRef90_B7FMF6 S T E I G I K A S S D K F F K L F A S N I H E V Q N I C E S V H E
UniRef90_UPI0002B4AD36 V V Q E I D A P V S T V W S V V R R F D N P Q A Y K H F V K S
UniRef90_G7JMQ1
UniRef90_V7AKT5 S T E I G V H A T A A K W F N L F A T Q L H H V Q N L T D H I H G
UniRef90_Q9LEN3
UniRef90_A0A022PXX4 T C T S L I T Q R I A P A N A V W P L V R R F D N P Q R Y K H F I K S
UniRef90_A0A059D6K5 E V E V D L K S S A D Q F Y G F R N T P H H L P T A C T D L H A
UniRef90_A0A059BFB8 V K V E A Q V E L E S P A E K V F D I F R R K S Y L F P E I I A P H V V K D
UniRef90_UPI0002B42B05 V E L K I G R E K Y Y H F L K D N V Y H A P N I I S T P H I Q D
UniRef90_B9HSJ1 T I N A P V S T V W S V I V R R F D N P Q A Y K H F V K S
UniRef90_F6HCA4 C S M V V Q T T A A A L P T V W S V V R R F D N P Q A Y K H F V K S
UniRef90_Q42173 Y V A E V P L K G S A E K H Y R R W R S Q N N L F P D A I G H H V Q G
UniRef90_G7KT83 I A A P V S T V W S V I V R R F D N P Q A Y K H F V K S
UniRef90_P85524 F Y E I F R Y R L Y L I S E M S P V N L I Q G
UniRef90_A0A022QW60 F K N
UniRef90_E0CTD9 E V V L N I P A E K A W E M Y R D N E I I S K I N P E M L A A
UniRef90_E3W9P6 V E V K C G G H P I H D I F H T N T H H I C N I S P G K I Q K
UniRef90_P93095 S E L E I N A A A E K F Y E I F K D Q C F Q V P N I T P R C I Q Q
UniRef90_M5X3G2 T V G V G V E A L W R A M A K D T V T V I P K I M P S I V R R
UniRef90_V7AJP1 S T E I G V H A T A A K W F N L F A K Q L H D V Q H L A E R V H G
UniRef90_W5BV75
UniRef90_M1BAU5 H R I P T I S P A G I N R
UniRef90_M4D7D7
UniRef90_D7KL54
UniRef90_V7AJQ1 S T E L P V H A T A D K W F H I M S K K I H H I Q H V A D K V H G

UniRef90_UPI00042B81ED V E V V Q G D G G V G T I L K L T F P G T P P G Y M K E R F T L T D D E E R L 80
UniRef90_AOA022PQR4 C D L H E G Q G H V G T I I T W R Y T H D G K E K K A K Q V I Q A V I N D E E Q K L
UniRef90_R018F7 C T L R Q G E G K L G S V I V W N Y V I D G E P K V M K Q R I M A V I D E E H A K N L
UniRef90_K7MBC8 V D I H K G D G T I G S V R F W K F T H D G K E M V A K E V I E K I D D E E K K L
UniRef90_K4C0U8 V Q L H E G E W H E D A V K L W N Y T L E G K A L T A K E R V E V D D D D A N K R V
UniRef90_AOA059D667 I E V E Q G D G E Q G T I L K L T F A P G I P P G W H K E K F T M V V D D D E E K R V
UniRef90_UPI0002C37431
UniRef90_AOA059B559 A H H A E G D G G V G S I G H Y N C G S A V P F N V V K K E I Q F L D E V D Q K Y E
UniRef90_G3DQE8 G E D W H H S D S S V K H W K Y V I D G K V H T C N E S V E E V D D E Q N K K
UniRef90_Q8L6V6 I T G D G G E G S I L D M T F P P G Q F P H H Y R E K F V F F D H K N R Y
UniRef90_A2A1A1 V D M H E G E W T E G S I K I W R Y S V D G K Q E V F K E K V V V D D E E K N T
UniRef90_B9HJC6 C D L H E G E G H V G S I I N W R Y T H D G K E K T A K Q V V Q T I D E E E Q K L
UniRef90_AOA022R047 A K L H E G E D H N D S V K H W T Y V I D G K V H T C H E S I E V D E Q N K K
UniRef90_G7L7S7 V E P V I Q G D S G A G S I E Q V K F H R R Y D H D
UniRef90_AOA059DAK9 L D I L E Q G G A V G T I K I T L A G G F S Y K E K F T K V D H E N R V
UniRef90_UPI0002B4B17E V E I H D D D H D H G S I K T W Y Y T V D G K A E V F K E Q V E F H D D K L L
UniRef90_V4W3H7 A E Y I Q G D G S P G S I R L F K L G P A V H S Y V K E S I E E K I E E D P G R S
UniRef90_C6T1D7 T K L H H G D D H N E S I K H W T C T I D G K I T T C L E S I E S V D E P N K T
UniRef90_K4AR40 F E F I E G E I K V G S V I R W K Y N D D G K D K V E E V F E A I D P E S K S
UniRef90_M8AA1 I E V H E G D W G A G T V L L V T F P P A S E P R S Y K E K F N V V D D E E K Y I
UniRef90_AOA059D656 Y E Y D G G R R G A G S L R R V T Y D F P A G S F S L Q K I L A E D N N S M T
UniRef90_D8QP03 I D L I Q G D G K V D S V R L R I K F H H G T T K E K I V G F D E E E G K T
UniRef90_S8CI23 C H V I G D G G N V G T V R E V R V I S G L P A A N S M E R L E I L D D E E R H V
UniRef90_M1CUL1 C E L L E G V G T V G S K I C W R Y T L I G G K E K I S R Q V I E C I D E E K K V
UniRef90_K4CRT4 C H V I E G D G V G T I R E V H V I S G L P A A R S T E R L E L D D A G S F Y
UniRef90_I1J7H4 I E F I E G D G G V G S I K Q T N F S N S H I K Y I K H K I D A L D A G S F Y
UniRef90_AOA059B5P1 C D V L E G D G G V G T V I K L N F G S L S Y T E K Y A K V D H E R R V
UniRef90_AOA059DKN6 V E L V E G D G G A G T V L L V T F P P A S E P R S Y K E K F N V V D D E K Y I
UniRef90_W5AY05 V A V H E G D W T E G S I K L W S Y S I E G E V G T F K E K V E H D D V N K A
UniRef90_UPI0002C2F965
UniRef90_H9WFS7 F D L L E G D G T V G S K L C W T Y T L D G E K R I S K Q L L E D V D H E N K V
UniRef90_K4CQ32 C T M H D G D W S H G S L R S W N I T C G S E I K H I K T K V E S T N K D N F T
UniRef90_Q42185
UniRef90_B9RZR8 M I L N K V I V V G Y E R F I K G R T D V F D D E K S F
UniRef90_W1P6J6 V T V H D G D W G H G S I K I W N Y T V D G K A E V F K E R V E V Y F D D D K N F A
UniRef90_UPI0002B45654 V K L H E G D W G H G S I K I W N Y T V D G K P E V F K E R V E F D D D K K L V
UniRef90_UPI0002B4B5DE C H L I N G D G D V G S L R E V H V V S G L P A E S S T E R L E E I D D D E K H V
UniRef90_B9S473 V D I H E G E G T V G S I R E V H V V S G L P A E S S T E R L E E I D D D E K K L
UniRef90_M1ACY0 C V V D E G E G K E G S V I I G N F T H D G K E K V A K H L I E K V D D D K K L
UniRef90_S8CWB3 C H V V V G D G N V G T L R E V H V I S G L P A G C S T E R L E L D D D H H I
UniRef90_UPI0002B42FD1 V E V I E G D G G V G T L I K V T F R P G S P D G Y M I E K F T K V D D D E N R V
UniRef90_UPI00042B4BFD V E V I E G D G G V G T L I K V T F R P G S P D G Y M I E K F T K V D D D E N R V
UniRef90_UPI00042B4BFD V E V I E G D G G V G T L I K V T F R P G S P D G Y M I E K F T K V D D D E N R V
UniRef90_UPI0002C30EEE V E L V E G D G G L G S V L L F K L G R D P L S K Q T E K I V E L D D E S Q Y R
UniRef90_Q9FYJ0 V I L H E G D W S H G S I K T W K Y N L D G K E E E F K R T E I D D E E K M A
UniRef90_M1B097 A E Y I K G K G E P G S L R C F Q L G P A L S N Y V K Q S I E K I E E E G R S
UniRef90_AOA022QWT5 C D L Q E G W G T V G S T V Y F N Y T H D G K E R V A K E I E A L D E E N K S
UniRef90_AOA059DAY6 A E I Q E A I S I E G R Q R R T V R H R V K A Q D Q E P F L
UniRef90_UPI00042B3D85 V E V L K G D G G V G T I L K L T F V P G N S S Y T E R F T V V N D E K R V
UniRef90_I3SFB3 V N R I D L M A G G E S K Y M L H R V D E V D E K E V L
UniRef90_C6TIJ3 R R D A I D D E A N L V
UniRef90_M4DIN4 A V Y I H H D D T N S S I Q I W N L I V D G K M E Q I K A K T E V D E E N M S
UniRef90_UPI0002C35F21 I E V V Q G D G Q A G T I L R L T C A P G V P P G W Q T E K F T V V D N E K R V
UniRef90_H9WKD1 A T I L E G D G G V G T I K Q F N T P E K E F S Y V K E R V D E I D D E E K L V
UniRef90_B9SJ69 V D V H E G D W T A G S L K A W K Y T V D G T T E T F K E R I E V D E E N M K
UniRef90_UPI0002B41D41 C K V V E G N G S D G S I T H L K F N A G K P A E E V K E R L A I D D D A N K S
UniRef90_AOA059BI46 C H V I D G D G H V G T V R E V R V S G L P A N W S T E R L E L D D D E R H V
UniRef90_M1CUI4 I D I N E G E G K I G T I M N C R Y N E D G Q E K I V K Y V I E A I D H H K N S
UniRef90_Q6KAV9 T L L H E G D D V S D S V K Q W T Y V D G K V H T C K E S V E E I D E E N K K
UniRef90_I3T217 L H E G E D W H S D S V K H W T Y V M D G K V H T C N E Q V E E V D E E Q N K K
UniRef90_K4D3W5 C H V V V G D G D V G T L R E V R V I S G L P A A S S T E R L E L D D D E R H V
UniRef90_M1AH43 C E C L E G D G I V G S K I C W K Y T H D G K E K F S K Q V I E A I D D E E K K L
UniRef90_S8DP11 C Q V L E G S G T E G S I L W E Y I Y G G K V H T A K H V I R A D I D E E K R H
UniRef90_UPI00042B5C82 V E V V Q G D G S V G T I V K V T F P P G T P P S Y M K E M F T K I D D E I R L
UniRef90_A9S6H3 C D V V G D G G P G T I R V Y H C G P A L Q E G K I R E R I D E D E A S H S
UniRef90_W5QXF0 N K D Y S Y A K R V D E I D D D K M V
UniRef90_B7FMF6 T K L H Q G D H H S D S V K H W T H V R D G K V Y T C H E S F E E I D D E K N K K
UniRef90_UPI0002B4AD36 C D V I V G D G N V G S L R E V R V I S G L P A A N S T E R L E L D D D E R H I
UniRef90_G7JMQ1 H R N Y F H N I T L H S H A K C H
UniRef90_V7AKT5 T R L H E G E D H H E T V K H W T Y V I D G K V V K A H E K I E S L D E E K K T
UniRef90_Q9LEN3 V L H R V D E I D E E I N K F I
UniRef90_AOA022PXX4 C R L A A G D G G V G S I R E V T V V S G L P A S T S T E R L E L D D E E N H V
UniRef90_AOA059D6K5 G E I H E G E W H T G S I R K W T Y S V E G K K E T F K E K I Q F D D K N K I
UniRef90_AOA059BFB8 V K L V S G D W S V G S V W L W T Q C D S G S G K E T F E A F D D E T K S
UniRef90_UPI0002B42B05 V A I H E G D W S H D S I K V W N Y T I D G K A E V M K E Q P T F D D E N L Q
UniRef90_B9HSJ1 C H V I D G D G N V G S L R E V H V V S G L P A A S S T E R L E I L D D D E Q H V
UniRef90_F6HCA4 C H V I F G D G D L G T L R E V H V V S G L P A E S S T E R L E L D D D E R H V
UniRef90_Q42173 V T V H D G D W S H G S I K F W N Y T L D G K P E V I K E R E I D D D E K M A
UniRef90_G7KT83 C H V I L G D G N V G T L R E V R V I S G L P A A V S T E R L E V L D D D E R H V
UniRef90_P85524 V D L L H E G N G T V G S V I F K Y T L D G K E K T A K D I V E A I D E E T K S
UniRef90_AOA022QW60 C D L H D G E G T V G S I I Y F N Y T H D G K E R V A K E I E A I D E V N K S
UniRef90_E0CTD9 A Q Y I Q G D G S P G S L R L F K L G P A V R V N E S T E K I E K V E K G R S
UniRef90_E3W9P6 F D I R E G E T K V G S I V N W Y N D D G K D K I C K Q R V E A V D H E K K S
UniRef90_P93095 V E I H G T N W G H G S I K S W Y Y T D G K A E V F K E R V E F H D D K L L
UniRef90_M5X3G2 I E V I E G D G G L G S V L L F N L G D Q S K R K Q T E K I V E L D D S E Y R
UniRef90_V7AJP1 T K L H Q G E D H N D T I K H W T Y V I D G K V T T C H E S I E S V D D E E N T
UniRef90_W5BV75 M D H P Y L S
UniRef90_M1BAU5 F E I H E G E T K I G S V V S W H Y N D D G Q K K I M K Q I I E A I D P H K K S
UniRef90_M4D7D7 Q V L A G D G S P G S I R L T I Y G E G S P V K V S A E R I E T V D L E N K S
UniRef90_D7KL54 C D L E G E G K V G S I L L W K L T F D G E P R V S K D R I E G I D V E N N V
UniRef90_V7AJQ1 A K L H E G D D W H D S V K H W T Y T L D G K T V T C F E T I E S V D E E N K R

UniRef90_UPI00042B81ED K E A E T I E I G G F K D V G F D V Y R M R L Q I L E K D A E S S I V R S S V D Y
UniRef90_A0A022PQR4 M E F K M L E G D L M E L Y K A F L T T I H V I E T K N G I D L V T W T L E Y
UniRef90_R018F7 L V F K V I D G D M M K D F K S F F L S I H A T P K R S N G P G S I V V S C H F K Y
UniRef90_K7MBC8 Y N F S L I I G G T A L A D T L E K V S F S K L V E G S N G G S I R K V S H V I Q F
UniRef90_K4C0U8 V K K K M I E G G D M L E Y E S F Y L T T H V I E T K D E N N L V T W L E Y
UniRef90_A0A059D667 L T F N I I E G G D L L E E F K T F K A I V K T I A K S D G R S L V K W T L E Y
UniRef90_UPI0002C37431 K E V I G V V E G G Y R E L G F T F Y L I R F E I T E A G S S T C L I K T T V E Y
UniRef90_A0A059B559 Y K H T M I D L E E R F E S I A Y E V K L E P T P D G G S K N T M T S T Y
UniRef90_G3DQE8 C K Y T I E G D E C D G I D M A T W N I K I K P T E N D G S V A K V J E C T Y
UniRef90_Q8L6V6 I T Y K L F G G D I D E H Y K V F K L I L Q V I D N G D G T G A A K W T V I E Y
UniRef90_A2A1A1 K L V E Q I D G D F F D L G V T Y Y M D T I R V V A T G P D S C V I K S T E Y
UniRef90_B9HJC6 L A L T G L E G D V M T R Y K I F N P T Y H L T P K D D G S L A R L I T E Y
UniRef90_A0A022R047 V Q F K T F E G D L M E L Y K T F L V T C H V I E T K N E I D M V T W T F E Y
UniRef90_G7L7S7 I T F K L F G G D I D E H Y K V F N L I T Q V I D N G D G T G A A K W T V I E Y
UniRef90_A0A059DAK9 K E T E A I E I G G A L G D K L Q S L D Y E V K F E A T S D G G S V C R M T S K D
UniRef90_A0A059DJC7 I T Y K L F G G D I G H K Y K V F K L I F Q A I D T H G G V I K W T V I E Y
UniRef90_UPI0002B4B17E I T L V G L E G D V F N H Y K S F K P S Y Q V V P K G P N H C Q A I L T I E Y
UniRef90_V4W3H7 V T Y L V V D G E L K G L Y D P Y R V T I S F T P K Q D E M C I A E W A A E F
UniRef90_C6T1D7 I T Y K L F G G D I G H K Y K V F K L I F Q A I D T H G G V I K W T V I E Y
UniRef90_K4AR40 I T S K I T E G G D M L E L Y D S F T F I S S S D Q Q W A T W T F L Y
UniRef90_M8AAI1 K E A E T V E G G F L D L G F R K Y V A I T K P E Q T P E G R C S H V W G W R W
UniRef90_A0A059D656 A T F V A V A G H L L E K Y K S Y K V T L H I V P K G E A S V A K I T L D F
UniRef90_D8QP03 S T Y T L V G G S L A S K Y R H Y V A T V R F R P G P A D R S V A S W S L D Y
UniRef90_S8CI23 I V F A V T E G N L L K Y A D N V K A T V S V T G S D G C S V K W C M E F
UniRef90_M1CUL1 I T F S V V G G D H R L V N Y R S V T T L H S D Q N S G N V G T I V V I E S Y V
UniRef90_K4CRT4 I T F K E F E G D L V N T Y D N W K A T L H I E T K G E V D L V S W T M E Y
UniRef90_I1J7H4 I S F S M I G G D H R L A N Y R S V T T L H P T A S S A S G G C
UniRef90_A0A059B5P1 C K Y I M V I E G S D I K F D K I D L V E D V K F V A A G
UniRef90_A0A059DKN6 K E T E A I E I G G F L D M G L S L Y R L R F E V I G K E E E S C V I K S T I E Y
UniRef90_W5AY05 K E A E T V E G G F L D L G F R K Y V R F E V V G K D D G S N I A K L T L E Y
UniRef90_UPI0002C2F965 I I V N G L E G D V F K Y K T F K G I Y Q F N Q L D D G S N I A K L T L E Y
UniRef90_H9WFS7 Y K Y T V I E G G P L G N Q L I A L S Y E I K F V A K E E G G C V I S R T S N Y
UniRef90_K4CQ32 L V L K E F E G D I L D K Y D S F K A T L H I E T K D E I D L I T W T L E Y
UniRef90_Q42185 L T L I G L E G H A M E K Y K Y E V I Y Q I P K S E E G C V C K I T
UniRef90_B9RZR8 H C Y S V I E G G E P W M D E L K K T Y Y E I K V V A S S D G G S I I K S I S K Y
UniRef90_W1P6J6 F K Y T V I E G E R L G T R F N S L V Y E V K F D E A A N G G T E A K M K V D Y
UniRef90_UPI0002B45654 V T V V G I E G D V F N H Y K S F Q G T Y Q V V P K D S K H C F A V L T V E Y
UniRef90_UPI0002B4B5DE M K L V G L E G N V F K H Y K T F N I Y Q I V P K K P Q H S L V V M N L K Y
UniRef90_B9S473 I S F S M I G G D H R L K N Y R S V T T L H A S P N G N G T V V I E S
UniRef90_M1ACY0 V K F K V T G G D I L E D Y N S F Y L T V H V I E T K G E D N I V T W L E Y
UniRef90_S8CWB3 I S L R I T I G G D L L D E Y K E F V A T F H V I E S E D G K D L V T W T F E Y
UniRef90_UPI0002B42FD1 L S F S M I G G D H R L A N Y R S V T T L H Q S S A E G G N K T V V V E S Y A V
UniRef90_UPI00042B4BFD K E T E I V E G G Y K A L G R R K M R G H L
UniRef90_UPI00042B4BFD K E T E I V E G G Y K A L G R R K M R G H L
UniRef90_UPI0002C30EEE F A L Q V L E G Q A L L R D F S S L T T F Q Q L S A I S E K E T L V D M K V E Y
UniRef90_Q9FYJ0 V T M T A L D G Q V M E E L K V Y I L P N L Q F I P E S Q N A C V C K V S V K W
UniRef90_M1B097 V T Y Q V T D G D L K K M Y N P Y R V T F S F I P V S N E Q C V A E W K A E Y
UniRef90_A0A022QWT5 V T Y K V T E G D L M E L Y K T F K L I T V R V D T T G E D N V V T W T F E Y
UniRef90_A0A059DAY6 Y N H S T V D R D E L G G I S R E I S H E V K I T A L P E G G S V C K Y A G R Y
UniRef90_UPI00042B3D85 K V A K G L E G G C L A I G C S V Q I V R F D I I A K T N A S C I I K S D I A Y
UniRef90_I3SFB3 Y N F S I I G G T G L A D P L E K V Q F K S K F V E G P N G G C I R G V I Q A Q Y
UniRef90_C6TIJ3 Y D Y S I V G G T G L H E S L E K V T F Q T K V A P G P D N G S I A K A T L T Y
UniRef90_M4DIN4 V S F L A M E G D V L E Q Y K S Y K I T L D V V P K D D R V C I A K W K W E Y
UniRef90_UPI0002C35F21 K V A E V I E G G Y L E L G F T L F R V R A E L I E S S S S C I I K S S L E Y
UniRef90_H9WKD1 Y K Y T V I E G G P L G S K L I A L S Y E T K F V A K E E G G C V
UniRef90_B9SJ69 V T L V G E E G D V M K S Y K V F K P I Y Y L A P K G N G C L A T C V I E Y
UniRef90_UPI0002B41D41 I T F E C L E G D P L R N F E V L K L K F Q V L E N G N N G G T V N W S I E F
UniRef90_A0A059BI46 M S F S V V G G E H R L A N Y R S V T T
UniRef90_M1CUI4 I S R K V I E G D L L E F Y S S F T F V S S C Q H E W A T W T I E Y
UniRef90_Q6KAV9 L T F K L F G G D I D E H Y K I F K L I I E V I D K A D G S A S V K W T I E Y
UniRef90_I3T217 I T F K L F G G D I E N Y K V F K L I L E V L N K A D G S A V R W T I D Y
UniRef90_K4D3W5 I S F S V V G G D H K L A N Y R S V T T L H T E P S S G N E A A A E T I V V I E S
UniRef90_M1AH43 I T F K E F E G D I V N E Y E K W K V S L H V D E E G V K D L V G W T M E Y
UniRef90_S8DP11 I G Y E V I G G D L L E L Y K K V L F A T D V E T R D G V D F V T W T I E Y
UniRef90_UPI00042B5C82 K E T E I I E G G F K E V G F D L Y R I R L Q I L E K D A E S S I V R S S V I E Y
UniRef90_A9S6H3 I C Y T V L E G D P R Y K S M R A T I R Y V S S D D G T S T A V F N A E Y
UniRef90_W5QXF0 Y K Y T T I E G G P L G K K L S A L N C E L K F V P R K E G C V V I W L C N Y
UniRef90_B7FMF6 I V H K I F G E E I D E Q Y K V F K L I I E V I D K A D G T S V K W T V E Y
UniRef90_UPI0002B4AD36 I S F S V V G G E H R L A N Y R S V T T L H P T G D G T I V V I E S
UniRef90_G7JMQ1 H N Y S I V G G V G L P E T V E K I S F E A K L V E G P N G G S I G K T T V K Y
UniRef90_V7AKT5 I F Y K L F G E D I E H S F K V F K L I F Q A I D K E N H G V I T K W T I E Y
UniRef90_Q9LEN3 Y N F S I T G G T G L A D T L E K V S F K S Q L F D D E N G G T L R K V H V E Y
UniRef90_A0A022PXX4 L S F R V V G G E H R L N N Y R V S V D I P E G N T G E D T K M
UniRef90_A0A059D6K5 V T H G G I E G G E V F N Y Y K S Y T A I W Q A V H K D G G P D V V K V I I E Y
UniRef90_A0A059BFB8 I T F K C I D G V A M F N Y K S L K S S L Q F S P E G E R C T A K A V L T Y
UniRef90_UPI0002B42B05 I S F T V I E G D M L K Y R S M K I S Y H S V P K G P Q C V L Y V T L E Y
UniRef90_B9HSJ1 L S F S V V G G V H R L N N Y R S V T T L H A S P N G N
UniRef90_F6HCA4 L S F S V V G G D H R L C N Y R S V T T L H P S P T G T G T V V V I E S
UniRef90_Q42173 I T F R G L E G H V M E K Y K Y E V I L Q F L P K S N
UniRef90_G7KT83 I S F S M I G G D H R L A N Y R S V T T L H P S P I S D E D
UniRef90_P85524 V T F K I V E G D L M E L Y K T F L I V Q V D T K G E H N S V T W T F H Y
UniRef90_A0A022QW60 V T F K V I E G D L M E L Y K T F L I V H V D T S G E D N L V T W T L E Y
UniRef90_E0CTD9 V S Y S V I R G C L K N M Y D P Y R V T F S F T P M K G D K C I A E W K A E F
UniRef90_E3W9P6 I T W K V I G G D L L E L Y N S F I T S S H D H Q W T W T F V I Y
UniRef90_P93095 I V L D G V E G D V F K N Y K S F K P A Y Q F V P K D R N H C Q A I L S I E Y
UniRef90_M5X3G2 F A L K V L E G P A L L R N F S A L T T S F Q L S K I G E Q E T L V D M K V V Y
UniRef90_V7AJP1 I Y Y K L F G E D I D H R F K V F K L I F Q A I D K E N H G V I K W T L E Y
UniRef90_W5BV75 G W L R H C G G G I G T A I E T A T S H I K V I E P A A N G G S F V K V D S T Y
UniRef90_M1BAU5 S C W K V T I E G D V L E M Y S S F T Y L I S F E P Q W S I W T I E Y
UniRef90_M4D7D7 M T Y S I I E G G M L E Y Y K T F K G T L T V T P K G G S I L K W S A E F
UniRef90_D7KL54 I Q W R V L E G P L K K E Y K S F L K T M K V S P K G G T G S V V K W N M K Y
UniRef90_V7AJQ1 I A F K L F G E A L D E K Y K V F T S T F E A I E K D G G S A A V K W S V I E Y

UniRef90_UPI00042B81ED E I D D K L Q E L A S Q A T T K P M E I L A E V V G K Y L 130 140 150
UniRef90_A0A022PQR4 E M L N E D V E H P L S L L S F F I D M T K D I E T H
UniRef90_R018F7 E R I D E K V A S E E E I K A S R D M G E M L L S E V
UniRef90_K7MBC8 F T K G N A F S E E E V K A N Q A K V E G L V K L V E G Y L L A N P D
UniRef90_K4C0U8 E K K N V H V P D P H T F M E L C I N I T K D I E S Y
UniRef90_A0A059D667 E K L H E G V A N P N A Y I D L E V K L T K D A D A H L I S N
UniRef90_UPI0002C37431 E L K E E A A M V S F V S V D L F A N I A Q I A K H H L L
UniRef90_A0A059B559 Y V K G N V K L E E E I K A G K E R A L G M Y K I A E A Y L L Q N P N A Y
UniRef90_G3DQE8 N C V E G K D M M L K A K D S G I D M F K T V E A Y L I A N P D A
UniRef90_Q8L6V6 E K I N E D I Y P P
UniRef90_A2A1A1 H V K P E F A K I V K P L I D T V P L A I M S E A I A K V V L E N K H
UniRef90_B9HJC6 E K L N E N I P V P D K Y M D F M I T V T K D I D A S L
UniRef90_A0A022R047 E M L N D D V V E H P I T P L S V A I D I T K A I E T H
UniRef90_G7L7S7 Q K I N E D I D P P N G W M D L L G K V T R E V D A H L V
UniRef90_A0A059DAK9 N S K K A L Q V E E E
UniRef90_A0A059DJC7 E I T N G A S F D V S L V S V K L F A D
UniRef90_UPI0002B4B17E E K L N D G S S Y P Y K Y I D L M N G I T K D I E S H
UniRef90_V4W3H7 E P L T T S T P A P E K A R D A A L G F L K C F D K F Q L S
UniRef90_C6T1D7 E K I D E N V D P P
UniRef90_K4AR40 K K K T E E T P E P L A L L G F L I G V T K D I E N H L L
UniRef90_M8AAI1
UniRef90_A0A059D656 E K H H E S H E D P K D Y M E F V I G L A K D I D E H L
UniRef90_D8QP03 E L R P T D S T D N A A S R S Q Q S A L D A F K A L E Q Y L L S
UniRef90_S8CI23 D K M S E E A P D P E L M K G F A V E C F Q D L D A Y
UniRef90_M1CUL1 V D I P H G N T K E E
UniRef90_K4CRT4 E R P N E N V P E L I N L L D F I I G M T K A V D D H
UniRef90_I1J7H4
UniRef90_A0A059B5P1
UniRef90_A0A059DKN6 E V A D G A S F D V S I T S I K Q L A D M A E V A K K H L T A S A S A
UniRef90_W5AY05 E V D A E H A K N A S L V S T E A V A S I A E A I T K H I
UniRef90_UPI0002C2F965 E K L S E E I A V P D K Y V R L M T N L V K D L E A H F V
UniRef90_H9WFS7 E T A P G A E F D E A V K E V K E N M N A M F E K M E Q Y L L S N P N V Y
UniRef90_K4CQ32 E R P N E T V P E L I S L L D F V V G M T K G I D D H
UniRef90_Q42185
UniRef90_B9RZR8 Y P K E G H E L N E E I K A G A E K A F G I F N A I E A Y V L A N S D V
UniRef90_W1P6J6 D T I G D A T L D D D E A K Q M K E N L L Y L F K A V I E A F L F Q N P D A Y
UniRef90_UPI0002B45654 E K L D H S C P D P N K Y L V L M T N V S K D I E S F L
UniRef90_UPI0002B4B5DE E K L D D G S P A P Y K Y V E F L E N L I K D I E S H L
UniRef90_B9S473
UniRef90_M1ACY0 E K R N C N V P D P H T L M E L C L N I T K D I E T H
UniRef90_S8CWB3 E T L N D E V G P P
UniRef90_UPI0002B42FD1 D T P P G N T K D E T M
UniRef90_UPI00042B4BFD
UniRef90_UPI00042B4BFD
UniRef90_UPI0002C30EEE A T E K E A A A N M G E I A M Q P V L S F V Q L L E K L V L E
UniRef90_Q9FYJ0 E K R T E D S E P A K F Y K F L E K M I A D S D D H I L L H N
UniRef90_M1B097 E P I A P T I P T P E K A R D A A L S F L K
UniRef90_A0A022QWT5 E K L S E D I P D P H T L M E F F G T M T K S I D S H
UniRef90_A0A059DAY6 F T V G P G D I P E E M R A M R G K A S V M F G A I E A Y L E V P S D A
UniRef90_UPI00042B3D85 A V K K E F E A D D P
UniRef90_I3SFB3 F T K G D T T L S E E V K A S Q A K V N G I V K I A E G F L L A N P D Y N
UniRef90_C6TIJ3 H T K G V A P L S D A V D E T K A R G A G I F K A I E G Y V L A N P
UniRef90_M4DIN4 E K L N D D V P P P T K Y I A F V A D Y T R E L E A R L L S
UniRef90_UPI0002C35F21 E L K E E A A A N V A I D V S A H P F A K I A E I A K N H L L
UniRef90_H9WKD1
UniRef90_B9SJ69 E K V N E N V P A P D K Y M E F M I N A T K E I D A G L V
UniRef90_UPI0002B41D41 V K A N E D V A S P H H Y L L C V T K V A K G L D D Y L C N N
UniRef90_A0A059BI46
UniRef90_M1CUI4 E K K N E D T P E P L I F L G F I L D M T K D I E A H L L
UniRef90_Q6KAV9 E K I H E D Y D P P N G Y M D Y F A K C T K D M D A H L V
UniRef90_I3T217 E K N N E E V E T P N G W M D Y L S K G T R D I D G H L V
UniRef90_K4D3W5 Y V V D
UniRef90_M1AH43 E R P N E N V P E L T N L L Q F F I D M T K S I D D H V N K P N
UniRef90_S8DP11 E L R K P D N P H P L S L V D F W I E F A R D V E E H
UniRef90_UPI00042B5C82 E I D D K L E E I A S Q V T T Q P L K I M A E V I G K Y L
UniRef90_A9S6H3 E L D D S E E G F S D E I T E M I S L M Q I S L S E Y V L N N S D V
UniRef90_W5QXF0 E T L P G A Q L D E R A Q E I K E H S G A M F K K I E Q Y
UniRef90_B7FMF6 E K I N E D I E P P N S W M E Y L S K C T R D I D A H L V
UniRef90_UPI0002B4AD36
UniRef90_G7JMQ1 Q T K G D A K P I E E V E E G K A K G D A L F K A I E G Y V L A N P N Y N
UniRef90_V7AKT5 E R L G E E V D P P Y G Y I E Y F H K G T R D I D A H L L
UniRef90_Q9LEN3 F T K G D Y Q T E E E L K A G K D K V E G L I K I C E G Y L L A N P D
UniRef90_A0A022PXX4
UniRef90_A0A059D6K5 E K L N E S M P H P V I Y I D F L V N M T K D I D A H L V
UniRef90_A0A059BFB8 E K Q N A D V P D A N K Y L E F T R S L L I S V D G Y L L
UniRef90_UPI0002B42B05 E K Y D P T T P D P Y N Y L Q L I A K A I K D L E N Y L I H H
UniRef90_B9HSJ1
UniRef90_F6HCA4
UniRef90_Q42173
UniRef90_G7KT83
UniRef90_P85524 E K L K E D V E E P N T L M N F C I E I T K D I E T Y
UniRef90_A0A022QW60 E K L N E D V P D P H T L M E F C L K V T K D I E S H L T A N
UniRef90_E0CTD9 E M L T P E T P M P E K A R D A A L G F L K S F E K F
UniRef90_E3W9P6 E K K T E D T P E L V L L G F V L H V T K D I E G H L L
UniRef90_P93095 E K L H H G S P D P H K Y I D L M I G I T N D I G S H I
UniRef90_M5X3G2 E T E K E A N T G D I A L Q P A I S Y I Q F L E K Y V L E
UniRef90_V7AJP1 E K L D A E V E P P Y G Y L E Y L H K C T S D L D G N L L
UniRef90_W5BV75 K L L S G V E V N D E I T K A K E S V T A I F K A E A Y L I A N P D A Y N
UniRef90_M1BAU5 E K K T E D T P E P L I E L G I S I D M I K D I E S H L F K N
UniRef90_M4D7D7 E K T G H E I E D P H V I K D F A V K N F K E I D E Y L L K Q S S V
UniRef90_D7KL54 E R I D E K V H P E R L L K F F V E V I T E V D Q Y L L S
UniRef90_V7AJQ1 E K V S E E V H A P Y G Y L E L Y D H V V R D I D A H L V E

UniRef90_Q84RN5
UniRef90_A9SNC6
UniRef90_M0ZNM3
UniRef90_S8E032
UniRef90_M0ZSZ5
UniRef90_A0A022RQC9
UniRef90_K4CQ40
UniRef90_UPI0002B4948C
UniRef90_C6SYE7
UniRef90_V7AMW1
UniRef90_M4DI53
UniRef90_B9JJD9
UniRef90_K7L142
UniRef90_B7FGX0
UniRef90_UPI0002B475C4
UniRef90_O80992
UniRef90_J3MSL0
UniRef90_UPI00042B48C4
UniRef90_B9SJ67
UniRef90_A0A022QXQ9
UniRef90_A9RIG6
UniRef90_A9RIG6
UniRef90_R0GNR6
UniRef90_V7AIV0
UniRef90_Q9C7I3
UniRef90_B9HDP0
UniRef90_A0A059DCT5
UniRef90_Q39467
UniRef90_F2EK44
UniRef90_K4CQ30
UniRef90_E3W9P8
UniRef90_A0A059AMU9
UniRef90_K4BS57
UniRef90_M1BAU7
UniRef90_S8CEK9
UniRef90_W5HXM3
UniRef90_Q8S8E3
UniRef90_M1CXS6
UniRef90_M4CU78
UniRef90_A0A059DB92
UniRef90_G7JKP6
UniRef90_UPI0002BC8CD8
UniRef90_Q40308
UniRef90_UPI00046E171F
UniRef90_M1ALE4
UniRef90_Q71HN2
UniRef90_UPI0002B463DA
UniRef90_M1AVL1
UniRef90_G9C065
UniRef90_A0A022QWU4
UniRef90_Q5ULZ4
UniRef90_K7VNS9
UniRef90_M4DRY5
UniRef90_G9C068
UniRef90_G71986
UniRef90_UPI0002B49FEE
UniRef90_Q9FLB1
UniRef90_A0A022PYG6
UniRef90_M0YP57
UniRef90_M1DNR1
UniRef90_V7AIQ1
UniRef90_A9THF2
UniRef90_S8DQR8
UniRef90_C0HDT7
UniRef90_S8C938
UniRef90_V7C5E1
UniRef90_UPI0002B4A111
UniRef90_M7Z7W7
UniRef90_M1C4M7
UniRef90_A0A059AIP2
UniRef90_Q941W8
UniRef90_V7D218
UniRef90_UPI0002B46D5B
UniRef90_UPI00042B8991
UniRef90_UPI0003D25CB8
UniRef90_A0A059A9E4
UniRef90_M1C4P6
UniRef90_K4BNH6
UniRef90_S8DX50
UniRef90_UPI0002C2FB86
UniRef90_R0GFPO
UniRef90_UPI0003D27CDD
UniRef90_D8R674
UniRef90_M4DKI2
UniRef90_V7AIV5
UniRef90_M1C4P2
UniRef90_D8SHF5
UniRef90_T2DNF0
UniRef90_M1A5V9
UniRef90_M1CSU7
UniRef90_N0DK19
UniRef90_B9SZH8

1 10 20 30 40

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

UniRef90_Q84RN5 VEVHEGDWGHGSSIKLWKYSVDGKDEVFKEERVFEFDDEKNS
UniRef90_A9SNC6 CKITLGDGGVGGSSIKREVLHVVSSVPAATCSLEERLLEEDLDDDEKHT
UniRef90_M0ZNM3 FELLDGGLVGTNGSSKVICWYWFEEGKVKRWDKQQLLEEDLDDDEKHT
UniRef90_S8E032 CHLHGGSTNGSSKVICWYWFEEGKVKRWDKQQLLEEDLDDDEKHT
UniRef90_M0ZSZ5 FEIHKGSTKGTSSIVSWKYIIEAQQDKYMKHLLEEAIDDDPHKHL
UniRef90_A0A022RQC9 CHLVLGDGDDVGGSSVREVRVITSGLPAAVSSSTEERLEEDLDDDEKHT
UniRef90_K4CQ40 VDLHEGGDGTGGSSVLRVWNYTIEGQEKVVVKVVVVEEDLDDDEKHT
UniRef90_UPI0002B4948C VDLHEGGDWTGGSSIKLWNYTIDGKPEVVFKEQVVEEDLDDDEKHT
UniRef90_C6SYE7 TKLHHGGDDHNESSIKHWTCTIDGKVTRTYHESIEESVLDDEEENKKT
UniRef90_V7AMW1 T K L H H G G D D H N E S S I K H W T Y V V D G E A R V M K E R I E E S I L D D P E N N R
UniRef90_M4DI53 Y
UniRef90_B9JJD9 IHLLEGE G D P G C T L C W N F C L D G E A R V M K E R I E E S I L D D P E N N R
UniRef90_K7L142 GKLLHEGDWHDGSSVKKHWTYVITDGEVHTCNEQVVEEEDLDDDEEENKKT
UniRef90_B7FGX0 AKLHEGGDHTNDSSVKKHWTYVITDGEVHTCNEQVVEEEDLDDDEEENKKT
UniRef90_UPI0002B475C4 CRRLVIEGGDGTGGSSVREVEVIVSSGLPAVSSSTERLEEDLDDDDHHRV
UniRef90_O80992 CRRLVIEGGDGTGGSSVREVEVIVSSGLPAVSSSTERLEEDLDDDDHHRV
UniRef90_J3MSL0 AEYLIEGGDGS P G S S L R V F K L G P A L H H F V K E S V Q K V E E T G R C
UniRef90_UPI00042B48C4 CKHLLEGGDWTGGSSNTLHWSYVHDGDDAKVVAQLTIEESVVDDEENNS
UniRef90_B9SJ67 VHLHEGGDWTGGSSVWIFHYTIEGKPGIFKERVVEEDLDDDEENKKT
UniRef90_A0A022QXQ9 ILEVVIQGE G G V G T I L E L F F L P G R K M T S Y K E K C T M V D D D E K R V
UniRef90_A9RIG6 YEFLEGNAGEAGSIRLLKLGHALPNKKNVVEHIDVNDAAATKR
UniRef90_A9RIG6 YEFLEGNAGEAGSIRLLKLGHALPNKKNVVEHIDVNDAAATKR
UniRef90_ROGNR6 ITHLEGGDWSHGAIKTTKALWFEEVFKERIEEDLDDDEKMA
UniRef90_V7AIV0 TKLHGGDDHNESSIKHWTSTIDGKVTTYHESIEESLDDDEANKMT
UniRef90_Q9C713 CDLLEGGEGWEGSSILLWKLTVDGEPKVS KDMIEEALDDDDENHT
UniRef90_B9HDP0 CKMSAGDGGVGGSSIREVTVVSSGLPAASTSTERLEEDLDDDDENHT
UniRef90_A0A059DCT5 CHVLAAGDRTVGGALRLRVLVSSGLPAANSTSTERLEEDLDDDDENHT
UniRef90_Q39467 FEIHEGGDGTGGSSVLRVWNYTIEGQEKVVVKVVVVEEDLDDDDPHKHL
UniRef90_F2EK44 CALLDGGDGGVGGT L R E V R V V S S G L P A A S S R E R L E E T L D D D E R H V
UniRef90_K4CQ30 FELLEGGGIGVGGSSKICWNYTLDGGEKKIKSQQLLEEDLDDDDENKKS
UniRef90_E3W9P8 FDI DEGGDGTGGSSVLRVWNYTIEGQEKVVVKVVVVEEDLDDDDPHKHL
UniRef90_A0A059AMU9 VDLIEGGDGGVGGT V I K L V L A G G F S Y K E K F T K V D D Q E H H V
UniRef90_K4BS57 CEIHEGGEGKIGSSVLSWKYNDGDKKEKFLKEEIKEDI DD PHKKS
UniRef90_M1BAU7 FEIHEGGGKIGSSVLSWNYNDGDKQNKFFTKQIEDI DD PHKKS
UniRef90_S8CEK9 CHLVFNGGGVGGT V R E V R V I S G L P A V S S T E R L E E L D D D E R H V
UniRef90_W5HXM3 FEVVVIGDGGVGGSSVLRRLTFPPGIGLEFYQKEKFTKLDNENYV
UniRef90_Q8S8E3 CHVVI G D G G V G S S I R E V S V V S S G L P A A F S L E R L E I M D D D R H V
UniRef90_M1CXS6 CKMTGDGGVGGSSIREVTVVSSGLPAASTSTERLEEDLDDDDKHI
UniRef90_M4CU78 CRRLVSGDGGVGGSSVRETVVSSGLPAASTSTERLEEDLDDDDHHRV
UniRef90_A0A059DB92 ADI Q E
UniRef90_G7JKP6 CNLVIGNGNDVGGT L R E V N L I S G L P A A R S T E R L E E L D D E E R H V
UniRef90_UPI0002BC8CD8 MDLHEGGEGGLGSSVKKSWKFTYGGKEKIFVKEVIEEEDLDDDEKHL
UniRef90_Q40308 EGGDGNAGTIVKKTTFVDEGGETKYVHLHKLVDLDDVNL
UniRef90_UPI00046E171F CNMKGDDGGVGGSSIREVTVVSSGLPAASTSTERLEEDLDDDEKHI
UniRef90_M1ALE4 FDLLEGGDGTGGSSKICWNYTLDGGEKKIKSQQLLEEDLDDDDHHRV
UniRef90_Q71HN2 VDLVHEGGDHTGGSSVLRVWNYTIEGQEKVVVKVVVVEEDLDDDDPHKHL
UniRef90_UPI0002B463DA AEYVIQGDGGP GT L R L F K L G P A V I S S Y V E E S V E K I E E T G R S
UniRef90_M1AVL1 VDLIHEGGEGTGGSSVLSWKYLDGDKKEKFLKEEIKEDI DD PHKHL
UniRef90_G9C065 AKLHEGGHTGGSSIKHWTYVITDGGKVVXKCLEEKLEEDLDDDEKNS
UniRef90_A0A022QWU4 CDLHHEGGEGTGGSSILFWSYTHGNILLPYNFHRYEEKKS
UniRef90_Q5ULZ4
UniRef90_K7VNS9 CHLVLDGDGEVGGSSVRELLLVSSGLPAESSREERLEERLDDDEERV
UniRef90_M4DRY5 VTVRHGYGHYGGSTLREVNLISSGLPAARSTERLEEDLDDDEERV
UniRef90_G9C068 AKLHEGGD H G P G S S I K H W T Y V I T D G K V H E C L E K I E D V D D E K K K
UniRef90_G71986 VEIHKGDWKPGSSVKKHWTYVITDGGKVEEELFNERLEEDLDDDEENKKT
UniRef90_UPI0002B49FEE VAVDEGGDWSH D S S I K V W N Y T I D S K A E V L K E Q P Q F D D D E K L K
UniRef90_Q9FLB1 CRIVIQGDGHTGGSSVREVMVSSGLPAVSSSTERLEEDLDDDEERHV
UniRef90_A0A022PYG6 CEELVIEGGDGTGGSSRRRRTVSSGLPAASTSDERLEEDLDDDEERHV
UniRef90_M0YP57 CALVAAGDGGVGGT L R E V H V V S S G L P A A S S R E R L E E L D D D E S H V
UniRef90_M1DNR1 IDLHEGNGTVDVTIKCNFNVEGQEKAVKQVESLVDLDDDEEKRL
UniRef90_V7AIQ1 TKLHGGDDHNESSIKHWTYVITDGGKVVVTCKVESLMEYDDEANKKT
UniRef90_A9THF2 CEIIEGGDGGVGGSSIREVRLVSSITPAATSSTERLEEDLDDDEEHIT
UniRef90_S8DQR8 CCLLIEGGDGGVGGSSIREVSSVSSGLPAATSSSTERLEEDLDDDEERRV
UniRef90_C0HDT7 CHLVLDGDGGVGGSSVRELVVSSGLPAATSSSTERLEEDLDDDEERRV
UniRef90_S8C938 CRLVGDGA V G S S I R E V T V V S S G L P A S T S T E R L E E L D D E E R R I
UniRef90_V7C5E1 VEIHQGGDWTGGSSVRLWKYNTIEGKPEEFKKEKVLEEDLDDDEKQ
UniRef90_UPI0002B4A111 CTLRQGDGGVGGT V R E V V L V T G M P A N T S V E R L E H L D D D E A H V
UniRef90_M7Z7W7 AHPVIEGGGGIGSSVRFNFFTSGVIEVNDAKE SVT A I F K A E A E A
UniRef90_M1C4M7 FELIHEGGEGKIGSSIVLSWKYIYEDGKEMFVKTVIEEAIDDDPHKNS
UniRef90_A0A059AIP2 CHMREGNGGVGGSSVREVRVSSGLPAATSSSTERLEEDLDDDEERRV
UniRef90_Q941W8 CRLLVLDGDGGEGSSVREVRVSSGLPAEWS TERLEEDLDDDEERRV
UniRef90_V7D218 CHVITGDGSSVAVRVRVSSGLPAEWS TERLEEDLDDDEERRV
UniRef90_UPI0002B46D5B FQFLEGESTTGGSSVVMHQQYHLLGSPAAAKIKMRVVDLDDVKKKS
UniRef90_UPI00042B8991 CHLLLDGEGWGLGSSIT H W S Y V H D G Q A K V A K L I T I E S V D S T K N S
UniRef90_UPI0003D25CB8 VNIHEGGEGTGGSSVRSWNITHDGKKEKAVKELVEEEDLDDDEKHL
UniRef90_A0A059A9E4 CQVIDGDGDDVGGSSLRVSHVITSSGLPAVSSSMERLEEDLDDDEHHL
UniRef90_M1C4P6 FEITHEGGSKVGGSSVLSWKYD D D G K D K I A K Q V I D A V D L Q K K S
UniRef90_K4BNH6 FGLIHEGGSKTGGSSVLSWKYNEAGQEMMYMKHLIEEAADPHQKLV
UniRef90_S8DX50 CRLVSGDGGVGGSSMREVTVSSGLPAGSSMERLEEDLDDDEELV
UniRef90_UPI0002C2FB86 CKMCA GDGGVGGSSIREVMISTGLPAKTSMERLEEDLDDDDNHV
UniRef90_ROGFP0
UniRef90_UPI0003D27CDD FEIHEGGEKPGSSIVS WKYNEAGQEMMYMKLEIEAVNTPHKKS
UniRef90_D8R674 VELYLVGGGEAGSTIRLLGLKQDGS SKVVKEERLEEDLDDDASMT
UniRef90_M4DKI2 CHVVAAGDGREGSSVREVRVSSGLPAAFSLERLEEDLDDDDRRV
UniRef90_V7AIV5 TKLHGGEDHNESSIKHWTYVITDGGKVKCTQESVVEADAKKR
UniRef90_M1C4P2 FEIHQGGGK V G S S I V S W K Y Y A D G K L K I V K E V I E A V D N K K S
UniRef90_D8SHF5 C T V N G D G K V G S S I R N V N V V T G L P A T S S T E R L E E L D D E E H I
UniRef90_T2DNF0 NMRSGDGSVGGSSIREVTVSSGLPAASTSTERLEEDLDDDDNHL
UniRef90_M1A5V9 FEIHEGGEK V G S S I V S W N Y N E D G Q K K I V K Q V I E V I D P H K K L
UniRef90_M1CSU7 CEHLIEGGDETGGSSKICWNYTLDGKKEKFLKQLEIEAIDDEEKHL
UniRef90_NODK19 IQLVIEGHS S G S V V Q F K F Q F G D E L R A E K W A I R V D D V K K Y
UniRef90_B9SZH8 ISPSNSD GTVRVIT Y G E D S P R I K Q S E Q Q I T G K N V

UniRef90_Q84RN5 V T L I G L E G D V F K H Y K T F N A I Y K V V P K S P E H S L A V L T L E Y
UniRef90_A9SNC6 I S F R V L G G G H R L Q N Y S S V S S L H E L E V E G H P C T L V
UniRef90_M0ZNM3 L T F K F E F E G D V V D I Y D N F K S T L H L E T K G E I D L I S W T I E Y
UniRef90_S8E032 I G F K M I G G E L L E L Y K E V F I S N D V E T K D G V D F L T W T I E Y
UniRef90_M0ZSZ5 I K W K V I E G D L L E L Y N Y F D Y T T S C
UniRef90_A0A022RQC9 I S F S V V G G D H R L A N Y R S V T T
UniRef90_K4CQ40 V T F K A F E G H L I E A N Y R S V T T
UniRef90_UPI0002B4948C V T L I G L E G D V F E H Y K T F K V T Y Q V V P K D S E H S L A I L T L E Y
UniRef90_C6SYE7 I T Y K I F G E D I D H Q Y K V F K V I F Q A I H K D H G G A F I K W T I E Y
UniRef90_V7AMW1 I K C K L F G E E I D H Q Y K V F N L I F E A I D K E N G G A I A K W T I E Y
UniRef90_M4DI53 V T Y R V L E G D V M N E Y K S F V I T L Q V I P K G E P G S V V H W H F E Y
UniRef90_B9JJD9 T T F K V I E G D L M E A Y K S F K V I V Q A T P K G H G S V V H W T L I F
UniRef90_K7L142 I S F K I F D G E N S K D Y K M Y K V H L Q V I D I E E G G V V T W T I E Y
UniRef90_B7FGX0 I T F K L F G G D I E N Y K V L K L I L E V I T K D N G T S A L R W T I D Y
UniRef90_UPI0002B475C4 M S F S V V G G D H R L N N Y R S V T
UniRef90_O80992 L S F R V V G G E H R L K N Y K S V T S V N E F L N Q D S G K V Y T V V L E S
UniRef90_J3MSL0 F G Y E V V S G E L K E V Y D P Y H V T F S F A P K E E E Q C V A G W K A E F
UniRef90_UPI00042B48C4 V T Y R V L E G D L A N E F S V F K V K I E A T E K D E G S K V H L T F N Y
UniRef90_B9SJ67 V K F I G L E G D V F K I Y K V Y N G I W H I K P K S Q G C S A K L T I E Y
UniRef90_A0A022QXQ9 K E T E V L E G G F L D L G F T L Y R V R Y E V I E K E E K M C V T R V T I E Y
UniRef90_A9RIG6 W G Y T V L Q Q G D P K Y K Y L S A V M Q F L P S E E E G T T L A K W V G A Y
UniRef90_A9RIG6 W G Y T V L Q Q G D P K Y K Y L S A V M Q F L P S E E G T T L A K W V G A Y
UniRef90_R0GNR6 V T Y T A L D G E V M E E L K L Y V A N L H F I P E S S Q N G C V C K I S V N W
UniRef90_V7AIV0 I T Y K V I E G E F D H K F R N I F K S V I F E A I H K D E G G S I I K W L I E Y
UniRef90_Q9C713 I Q W R V L E G P L K N E Y N I L S K T M K V S P K G G S S V V K W N L K Y
UniRef90_B9HDP0 L S F R V V G G E H R L N N Y K S V T S V N E F
UniRef90_A0A059DCT5 I S F S V V G G D H R L A N Y R S V T T
UniRef90_Q39467 I R W K A I E G D V L E S Y N S F T I V T F S E H E W T T W V I E Y
UniRef90_F2EK44 L S F S V V G G E H R L R N Y R S V T T V H P A P G E
UniRef90_K4CQ30 L T L K E F E G D V T D I Y D S F K A I L H I E T K G E I D L V C W T L E Y
UniRef90_E3W9P8 L T W K V I E G D L L E L Y N S F T I I T S S H D H Q W T T W T F V Y
UniRef90_A0A059AMU9 K E T E M I E G G L R D M G F S L Y R V R L E V I G K E E E C I I K S T I E Y
UniRef90_K4BS57 I T W E V I E G D V L E L Y N F F I T T S S E H Q W T T V T F E Y
UniRef90_M1BAU7 I R W K I I G G D V L E M Y N S F T I A V S C E P Q W V T W T I E Y
UniRef90_S8CEK9 I S F R V L G G D H R L S N Y R S V T T
UniRef90_W5HXM3 K E A L V I E G G L N L G F L K Y F V R F E I V R D A D N T S T I S T V E Y
UniRef90_Q8S8E3 I S F S V V G G D H R L M N Y K S V T T V H E S E E D S D D G K R T R V V E Y
UniRef90_M1CXS6 L S F R V V G G E H R L N N Y K S V T S V N G F E K N G K A Y T I V L E S Y I V
UniRef90_M4CU78 L S F R V V G G E H R L N N Y K S V T S V N E F L N Q D S G R V Y T V V L E S
UniRef90_A0A059DB92 Y S H S T V D R D E K G R I S K E T G H E V K I V A L P E D G S V C K Y A G R Y
UniRef90_G7JKP6 I S F S V V G G D H K L A N Y R S V T T L H P S A E G D G S G T V I
UniRef90_UPI0002BC8CD8 L K K K V I E G D L L E Y Y K S F Y G T Q V E T K G E N N L V T W I M E Y
UniRef90_Q40308 Y H Y S I V E G G F L P D T V E K I S F E S K L S A G P N G G T I A K L S V M Y
UniRef90_UPI00046E171F I S F R V V G G E H R L N N Y R S V T S V T E F V D G R D G G S V Y S I V L E S
UniRef90_M1ALE4 L I L K E F E G D I T Y N Y D S L K A T L H I E T K D E I D L V S W T L K Y
UniRef90_Q71HN2 V I L N G L E G D V F K E Y K S P V Y H V L P N P G K G S L V K L S I E Y
UniRef90_UPI0002B463DA V S Y D V V G G E L R K M Y D P Y K V T F T F T P K E K E M C T A Q W K A E Y
UniRef90_M1AVL1 I K K K I I E G D L L E Y Y K S F Y I T M V I E T K G E N N L V T W I M E Y
UniRef90_G9C065 I T F X I F G E D I D T H Y K V F K X L L E V I D N X G G H D A V K W T I E Y
UniRef90_A0A022QWU4 V T Y N L V E G D L M E L Y K T F K A T V H V D T V G E D N L V T W T F V Y
UniRef90_Q5ULZ4 Y G Y V K V E G D A L S D T L E K I D Y E T K L V S A P S S T I I K I T S K Y
UniRef90_K7VNS9 I S F R V L G G D H R L A N Y R S V T T V H E A A P S Q D G R P L T M V V E S Y
UniRef90_M4DRY5 M T V R G L E G H V M E L F K V Y D L I G Q F I P K T E D S C I C K I T M V W
UniRef90_G9C068 I T Y K L F G E D I D T H Y K V F K L I L E V I D K G I G H D A V K W X I E Y
UniRef90_G71986 I T Y V A V I G G N V L E L Y K N Y K A I V N V E N G N L K L R I E Y
UniRef90_UPI0002B49FEE I S F T A I G G D V L E Y K S F K I T H H P V P K G P E Q C V V Y I T I E Y
UniRef90_Q9FLB1 I S F S V V G G D H R L K N Y R S V T T L H A S D D E G T V V
UniRef90_A0A022PYG6 L S F R V V G G D H R L R D Y V S V T S V N D V I I S D A N N R V Y C V V L E S
UniRef90_M0YP57 L S F R V V G G E H R L K N Y L S V T T V H P S P A A P S S A T
UniRef90_M1DNR1 V T Y N I F E G N L M E Q Y K A F K V I T L H L I E N E E E N N L V I W T I Q Y
UniRef90_V7AIQ1 I T F K L F G E E I D N Q Y K L L N I R F E A T D K N N G D A I I T W T V E Y
UniRef90_A9THF2 I S F R V L G G G H R L Q N Y W S V T
UniRef90_S8DQR8 L S F R V L G G E H R L N N Y R S V T S V N G L E T A E G K
UniRef90_C0HDT7 I S F R I L G G D H R L A N Y R S V T T V H E A A S E G G P L T M V V E S Y V V
UniRef90_S8C938 I S F R V V G G E H R L N N Y R S V T S V N G F K E E E E E E Y T V V I E S Y
UniRef90_V7C5E1 L S Y V A V G G N A L E L Y K S Y K A I V K V E K G M L K L R I E Y
UniRef90_UPI0002B4A111 M V F T I V G D H K L A N Y R S T T T
UniRef90_M7Z7W7 Y
UniRef90_M1C4M7 I T W N A I E G N L L D L Y N S F N V I I S S E H Q W I T Y A L V Y
UniRef90_A0A059AIP2 L G F R V I G G D H R L H D Y R S V T S V N E V M T N E E E E R K V
UniRef90_Q941W8 L S F R I V G G E H R L A N Y R S V T T
UniRef90_V7D218 M S F S V V G G E H R L R N Y R S V T T L H A S G N G T V V M E S
UniRef90_UPI0002B46D5B I V Y E F M G D V L K N Y K V F R A K L E A V N G G K N F A K W T I E Y
UniRef90_UPI00042B8991 I T Y G V I G G D L K N E F N S F T F K I E A T Q K D G G Q S
UniRef90_UPI0003D25CB8 L K K K I I E G D L L E D Y K S F Y I T T H V E T K G E N N L V T W I I E Y
UniRef90_A0A059A9E4 M S F S I V G G D H R L A N Y R S V T T
UniRef90_M1C4P6 I T W K V I G G D L L E L Y N S F T I I T S C D K Q W T T W T F V Y
UniRef90_K4BNH6 L K W K V I E G D L L K L Y K Y C N F T T S C D G Q W T T W T I D Y
UniRef90_S8DX50 M S F S V V G G D H R L R N Y I S V S V H E A P T K A
UniRef90_UPI0002C2FB86 M D F S I V G G E H K L V N Y S S T T V Q E E K G R K C V V
UniRef90_ROGFP0 I T F R V I E G D L L K E Y K S F V I T Q V T P K G G R G S V V H W H V E Y
UniRef90_UPI0003D27CDD I K W K V I E G D L L K L Y N Y F N I T T S C E C Q W A T W V E Y
UniRef90_D8R674 I R Y T M L E D C D F S H L Y S H Y V G T L R F H P S E P S K S V V W E I E C
UniRef90_M4DKI2 M S F S V V G G D H R L Q N Y R S V T T V H E S T D D N K K T R V V E Y
UniRef90_V7AIV5 I I F K L F G G D L D H Q Y K L N L I F E A S D K E N G G A V I K W I V E Y
UniRef90_M1C4P2 I T W K V I E G D L L E L Y N S F T I I S S F E L Q W T T C T L A Y
UniRef90_D8SHF5 E S Y R I L G G E H R L K N Y W S I T
UniRef90_T2DNF0 L S F R V V G G E H R L K N Y R S V T S V N E F
UniRef90_M1A5V9 I K W K V I E G D I L E M Y S F F T I V T S C E H E W T T W S F E Y
UniRef90_M1CSU7 I T F K E F E G D V V N E Y E N W K V S L H V A E E G K D L V S W T M E Y
UniRef90_NODK19 L I Y E A V E G D P L K E F K V L R A K F E V V N G G R R G N F T K W T V E F
UniRef90_B9SZH8 F S Y T V L G G D L L K Y Y A S F C G E I T I T T M D D G T W V K W T W N M

UniRef90_Q84RN5 E K L D D G S P Y P Y 130 Q Y L D L M N G L T K D I E S H L 150
 UniRef90_A9SNC6 E R P N E N V P E L V N F L D F I V G I T K A V D D H
 UniRef90_MOZNM3 E K L E N E P D N P H P L S L L N Y F I E F T K D I E A Y V L Q
 UniRef90_S8E032 E K K T E D T P E P L I H F G N I L L D M T K D I E G H L L Q
 UniRef90_M0ZSZ5
 UniRef90_A0A022RQC9 E K Q N E E I Q E P F S Y L Q L A T N L T K D V D T H
 UniRef90_K4CQ40 E K L R D D T P Y P Y K Y L H L M N K L T K D I E A H
 UniRef90_UPI0002B4948C E R V G E E V D L P F G F I E Y L N K G S R D V D G H L L
 UniRef90_C6SYE7 E R V D E E V D P P Y G Y V E Y V H K C T S D I D A H L L
 UniRef90_V7AMW1 E K I N E E V A H P E T L L Q F A V E V S K E L D A H L
 UniRef90_M4DI53 E K L N E N I P A P T A F L D N A V D F T K D L N A H
 UniRef90_B9JJD9 E K L N E N I P A P Y H Y L D I T A T T K E T D A H V L
 UniRef90_K7L142 E K N N E N V D T P N G W M D Y L S K S T R D I D G H L V
 UniRef90_B7FGX0
 UniRef90_UPI0002B475C4 Y T I P E G N T E E D T K M F V D T V V K L
 UniRef90_O80992 E P I S P T S P P P E K A K D A A L G F L K L F E
 UniRef90_J3MSL0 I K Q S L D V A D P E T L L E L G K Q V C K V V D A H L
 UniRef90_UPI00042B48C4 E K L N P S V P A H I V S I Q P I V V I M E A V A R H L T Q N
 UniRef90_B9SJ67 D V R E E F A A N V A L V S I Q P I V V I M E A V A R H L T Q N P Q A
 UniRef90_A0A022QXQ9 V P H N P T I T P P D L A L H V W K V F E G V A K A S P Q A
 UniRef90_A9RIG6 V P H N P T I T P P D L A L H V W K V F E G V A K A S P Q A
 UniRef90_A9RIG6 E K R T Q D S Q S T K F Y K F L E G M V A A M D D H I C H N
 UniRef90_ROG NR6 E T T S E E V H P P
 UniRef90_V7AIV0 E R I D E K V A H L E R L L Q F F V E C V N E I D Q Y L L S
 UniRef90_Q9C713
 UniRef90_B9HDP0
 UniRef90_A0A059DCT5 E K K T E G T P E P L V Q L G I V L D M T K D I D A H L L
 UniRef90_Q39467
 UniRef90_F2EK44 E R P N E N V P E L I N V L N F V V G M T K A I D D H
 UniRef90_K4CQ30 E K K T E E T P E P L V L L A Y A L H V T K D V E S H L L
 UniRef90_E3W9P8 E V P D D G S V D V S I I S V K P F A D
 UniRef90_A0A059AMU9 E K K T E N I P E P L S F L D Y F V N V M K D M E G H L L S
 UniRef90_K4BS57 E K K T E D T P E P L I E L G I I L D L N K D I E G H L V K N
 UniRef90_M1BAU7
 UniRef90_S8CEK9 E V E D E H T G N A A F V T T S T F A R I A E A I T K Y I K A
 UniRef90_W5HXM3 V V D V P A G N D K E
 UniRef90_Q8S8E3 D I P Q G N T G E D T K M F T D T V V K L
 UniRef90_M1CXS6 Y T V D V P E G N T V E D T R M F V D T V V K
 UniRef90_M4CU78 F T V G Q G D I T E E I G A M R E K A S V M F K A I L D Y
 UniRef90_A0A059DB92
 UniRef90_G7JKP6 E K K N V N V P D P H Y L M E F C L G A T K D I
 UniRef90_UPI0002BC8CD8 F T K G D A
 UniRef90_Q40308 Y V I P E G N T G E D T K M F V D T V I K L
 UniRef90_UPI00046E171F E R P N E N V P E L I S L L D L V V G M T K G I D D H
 UniRef90_M1ALE4 E K L H E G V S P P D I Y V K L M V N I S K D L D V H L
 UniRef90_Q71HN2 E P L T P A I P P P D K A R D A A L Q F L Q S F D K F Q L S
 UniRef90_UPI0002B463DA V K K N A N V P D P H T L M E L C I N V T K D I E T H
 UniRef90_M1AVL1 E K L N E N I D P P L N K S T R D I D V N L L K A
 UniRef90_G9C065 E K L N K D V P D P H T L M D L C V K L T K D I E S H H L T N
 UniRef90_A0A022QWU4 H T K G D V E I K E E V K A G K E K A A H L F K L I E G Y L K D H P S E Y N
 UniRef90_Q5ULZ4
 UniRef90_K7VNS9 E K R N D E V P E P S M K L L K S M V V D M D D H V L
 UniRef90_M4DRY5 E K L N E N I D P P
 UniRef90_G9C068 E K L N D N T P P K K Y Q Q F I V N I V R D L D G N L V
 UniRef90_G71986 E K Y D P T T P D P Y N Y I Q L I A K L I K D A G D H L I H H
 UniRef90_UPI0002B49FEE
 UniRef90_Q9FLB1 Y
 UniRef90_A0A022PYG6
 UniRef90_M0YP57
 UniRef90_M1DNR1 E K Q N E D V P E P
 UniRef90_V7AIQ1 E R V R E E V D P Y G Y I E Y L H K C T A D I D A H L L
 UniRef90_A9THF2
 UniRef90_S8DQR8 D V P P G N T V E E
 UniRef90_C0HDT7 I V D V P E G N T V D D T K M F T D T V V K
 UniRef90_S8C938 E K L N E Q I P P P K K Y Q Q F I I N I V R D I D A N L L
 UniRef90_V7C5E1
 UniRef90_UPI0002B4A111 E K K T E D I P E P L A L L D Y C I G V I K D I E G H L L E N
 UniRef90_M7Z7W7
 UniRef90_M1C4M7
 UniRef90_A0A059AIP2
 UniRef90_Q941W8
 UniRef90_V7D218
 UniRef90_UPI0002B46D5B Q K A N E N V P S P E T Y M E L A V K V S K G L D A Y I F K N
 UniRef90_UPI00042B8991
 UniRef90_UPI0003D25CB8 E K K N A N V P D P Y T Y M G F A L N M T K D I E T H
 UniRef90_A0A059A9E4
 UniRef90_M1C4P6 E K K I E E T P E P L V L L G F A L D L T K D I E G H L L
 UniRef90_K4BNH6 E K K T E D T P E P L L H L G V I L A M T K D I E S H L L
 UniRef90_S8DX50
 UniRef90_UPI0002C2FB86
 UniRef90_ROGFP0 E K I D D K V A H P E T F L E F C V H V S K E I D E H L L
 UniRef90_UPI0003D27CDD E K K T K D T L E P L A H L G A L L A M T K D I E G L L V
 UniRef90_D8R674 V P L G S A P P P R P A A Y V R I W K E I E Q H L V E
 UniRef90_M4DKI2
 UniRef90_V7AIV5 E R L R E D V D P P Y G Y I E Y L H K C T A D I D A H L L
 UniRef90_M1C4P2 E K K T A A T P D P L A F L G Y F I E L T K D I E D H F L
 UniRef90_D8SHF5
 UniRef90_T2DNF0
 UniRef90_M1A5V9 E K K T E D T P E P L N F V G L I L E V T K H I D D H L L
 UniRef90_M1CSU7 E R P N E N V P E L N L L Q F F I D M T K S I D D H H V N K P N
 UniRef90_N0DK19 E K A N Q N V A S P Q N Y L E L F V K I S K G V D A Y F S N N
 UniRef90_B9SZH8 F P N P N N P L D I E V D L D E I A V K T I L G K L D D Y L L

1 10 20 30 40

UniRef90_D8RV30 H Q V E V N V S I D R M W G A L Q D M P H L L S K I V P E G I K S 40
UniRef90_M1BAS4 I E V R C G G H S I H D M F H T N T H H I P N I N P T K Y K H
UniRef90_K4BNT6 G K L V V S M E V K C G G H L F H D L Y Q T S S H H V T N I S S D K V H H
UniRef90_K4BNT5 F H D F Y Q I N A H H V S N I S P D K V H H
UniRef90_M0VJ16
UniRef90_R4IKN8
UniRef90_MOSP32 V S A P L P T V W S L V R R F D R P Q D Y K K F V K D
UniRef90_V7BSP1 S L V Q T I D A P V P L V W S L I R R F F E N P Q G Y K L F V K K
UniRef90_UPI0002C338CA S H S Q I I D A P L P L V W S L I R Q F D N P Q A H K Q F I K S
UniRef90_A0A059BEM3 K L N C P A D G V F E F Y S R Q C Y L F P T I M P T V F K E
UniRef90_M1CVY7 M C D K I Q N
UniRef90_UPI0002B431B0 T C T S L V T Q R V A P L A A V W P I V R G F A S P Q R Y K H F I K S
UniRef90_K3YVT2 A P A E A V W A V V R R F D R P Q A Y K R F V K S
UniRef90_I1HT01 V K E V K T Q A K I G V G V D I L W K A L A K N L K F I I P K M L P N L V K D
UniRef90_B9T645 T L V Q T I D A P L P L V W S I L R R F D N P Q A Y K Q F V K T
UniRef90_V4L7V3 A P L P L V W S I M R R F D H P Q L Y K Q F V K S
UniRef90_UPI00042B8CCB V V Q E T T A S I A S V W S V V R R F D N P Q S Y K N F I K S
UniRef90_UPI00032A6100 T E S E V N C N A D K Y Y Q I F K H H E D L P S A I P H I Y T S
UniRef90_P19825 E V E I D I Q S S A D K F Y N L F K S Q I Y H L P T I S S D I I Q K
UniRef90_A0A059D6M2 G K L V V S M E V K C G G H L F H D L Y Q T K P H H V S N I S P N Y V T G
UniRef90_E3W9Q0 V E V K C G G H L M H D L L H T N S H H V A N I S Q H V N H
UniRef90_M1AUH1 C S A V V Q A I A P V E A V W S V V R R F D R P Q A Y K R F I K S
UniRef90_F2DFC3 T I N A P L P L V W S I L R R F D Y P Q A Y K Q F V K T
UniRef90_M4E8E2 S A E K F Y G F L R N D L G D L V K M F P D V Y K T
UniRef90_UPI0002B4B654 V Q L K S S G E K F F E F F K N K M D Y F P R M F A G N V E S
UniRef90_UPI0002B46568 T I N A S V S T V W S V V R R F D N P Q G Y K H F V K S
UniRef90_UPI00032A529 V K V I D A P L P L V W S L V R K F D K P Q C Y K N F I S S
UniRef90_K4B8Q4
UniRef90_A0A059D6E4
UniRef90_M5XJK5
UniRef90_Q5ZF57 V E A L V Q T K C C S T K V Y D L M K N N L A K L V D I L P A Q F K S
UniRef90_Q06394 V G K L V M E S E V N C N A D K Y Y K L Y K H H E D L P S V I P H I Y T S
UniRef90_UPI00042B1AEB T C T S L I T Q R I A P L S F I W P F V R D F E N P N K Y K H F I K S
UniRef90_M5Y6L3
UniRef90_UPI0001622013 A S N M D L I F P S L L P Q F F V K
UniRef90_MOT346 T C T S L I T Q R I A P L C A V W P V V R S F D R P E R Y K H F I K S
UniRef90_W4ZLNQ0 E A P V G A V W A V V R R F D R P Q A Y K H F I R S
UniRef90_A0A059DAZ2 V T H N T E I S H P I P K A K L I E A L L K A N G F F P H V L S P G V L R
UniRef90_UPI00032A5545 V H S F Q V E R L T F V P L D K L F R D V K R N A F H V I P K L D Q I L R
UniRef90_M5WZH7 T I D A P L P L V W S V L R Q F D N P Q A Y K Q F I K S
UniRef90_C0PK92 T C T S L V T Q R V A P L A A V W P I V R G F G S P Q R Y K H F I K S
UniRef90_R0F1P8 T I N A P L P L V W S V L R R F D N P K T Y K Q F V R T
UniRef90_UPI00042B3667
UniRef90_UPI0002B429D7 S E Q V Q L K C S G H K F Y D F F T N K M D S V I Q M F P H I V T S
UniRef90_UPI0003D282D1 I E V K C G G H L I H D I L H A K P H H I S N I S P S K V I K S
UniRef90_UPI0002C36277 S T L V Q I I D A P L P L V W S I L R Q F D N P Q A Y K L F V K S
UniRef90_V5P0A6 S I A A P V D A V W S L V R R F D Q P Q G Y K G F I R S
UniRef90_A0A022QNP5 W S M V R Q F D N P Q A Y K Q F I R S
UniRef90_G7J2D4 V T Q T I S A P I S A V W P V V R R F E N P Q G Y K N F V K S
UniRef90_D7MSQ9 T I D A P L S I V W S I L L R R F D N P Q A Y K Q F V K T
UniRef90_B8BMG3
UniRef90_K4BNU0 S E I N I K C D G D V F Y E V Y R Q R P H H I S T M S P N K V Q N
UniRef90_W9SSK9 T S T V V Q P I D A P V S S V W S V V R R F D E P Q A Y K R F V K N
UniRef90_W1NK26 V V S E L V I R S P A V K F F S V F A K Q L H N L Q T Y K H F I R S
UniRef90_K7K9H9 T C T S L V T V Q A P L A A V W D I V R G F A N P Q R Y K H F I K S
UniRef90_M7YRV1
UniRef90_D7KPP9
UniRef90_K4BNK8 I E V K C G G S P I H D I L H T N T H F L P N I T P R V L N H
UniRef90_K7TFM0
UniRef90_MOU1E0 V E V G V E V K S S P D K F W T A I H A S T K L I P R I L P P H H K S
UniRef90_A0A059CCK9 T Q T I D A P L P L V W S L V R R F D N P Q A Y K Q F V K S
UniRef90_K4BNT9 G K L I V S L E V K C G G H S I H D I F R T N T Q H L S T I S P S R V K H
UniRef90_U5CQ23 A P L R V V W P V V R S F D N P Q Y K H F I K S
UniRef90_V7BUZ0 E T K V H L K A S A Q Q F Y D V F C N R P H H I A N I L P K K Y N E
UniRef90_M4DA24 S T V V E T I E A P L S L V W S I L R R F D R P Q A Y K R F V K S
UniRef90_I1M1T4 A P L P L V W S L I R R F E Y P Q G Y K L E V K K
UniRef90_UPI0002B436A2 S I V A K V E L K S N I E K F Y G F F R N H V E D L M N L F P D L Y Q G
UniRef90_A0A059DKS4 G L V S Y E T E V K A G A A K V W E L Y G T T K M A L L M K A L P D T I I G
UniRef90_V7CS79 I D A P A S T V W P F V R S F E N P Q Q Y K H F I K G
UniRef90_D8TAX3 I Q A P V A V W S V I V R R F D S P Q A Y K C F I R G
UniRef90_B8BMG0 S D E R S V A V S A E R F W K V F S N P P A M P K I L S K
UniRef90_Q41020 V G K L V T E L E V N C N A D E Y Y K I F K H H E D L P N A I P H I Y R G
UniRef90_A5BR51 T T D A P L P Q V W S M V R R F D R P Q S Y K R F V R G
UniRef90_M1ABV6 I E V K C E G H S I H D I V H T N T H H L P N I I P S V L N H
UniRef90_A0A059D6L1 E E D F E I N S P A E K F Y K R W S Y E V H H L P E A S P D K V Q G
UniRef90_D5A9H9 I R A P V E D V W S V V R R F D T P Q T Y K H F I R S
UniRef90_M1ABV5 T C T S L I A H R V T P A R T I W R F V R D F A N P N I A P N V L N H
UniRef90_M4CV19 T C T S L I A H R V T P A R T I W R F V R D F A N P N K Y K H F I K S
UniRef90_D5AAA4 W S M V R R F D C P Q R Y K R F I H H
UniRef90_W9QTV9
UniRef90_S8C2Q1 A P L P L V W S L V R R F D E P Q S Y K P F V I S N
UniRef90_UPI0002B46CDD A P S E A V W S I V R R F D Q P Q S Y K H F I K S
UniRef90_Q41182 Q I E M K C A G D L L H E H F K S N P H Q T S T M S P N K I T N
UniRef90_M1B0C9 T H Q A A N I S P T I Y H F
UniRef90_A9SKY6 A P I E V V W S I V R S F G S P Q I Y K K F I Q A
UniRef90_G7KF38 I H A P P Q T V W S V V R S F D K P Q I Y K H F I K S
UniRef90_UPI0004758418 H T Y D V T V T L S A S P E V V W K L V H A S P L W P K V S L D T A R S
UniRef90_UPI0002B4A67E S E E V K L N C C G D K F Y D F F V N K M D H L F P Q V S N L Q S
UniRef90_D8RCG8 E V R A P V E V V W S V V R R F D Q P Q C Y K R F I R S
UniRef90_K4BNT4 H H I P N I S P N I I N H
UniRef90_A9NQM9 V V Q Q V E A P V S V V W S L V R R F D Q P Q V Y K H F V S N
UniRef90_V4P714 S T V I E T I E A P L P L V W S I L R R F D K P Q A Y K R F V K S

UniRef90_D8RV30 V I D K K D G T V T L H F A P A I A E K D Y V K E K V E I D H K N K T S
UniRef90_M1BAS4 F E I H E G E T K V G S I V S W K Y N Q D G K E K F I K Q K V I E A V D D S Q N K K S
UniRef90_K4BNT6 F D I H E G E D R A G S I I G W K Y T H D G K V K V T K Q Q L I E A V D D E E K K S
UniRef90_K4BNT5 F N I H E G D L K V G S I I G W K Y N H D G K V K V T K Q Q L I E A V D D E E K K S
UniRef90_M0VJ16 M R S R V M A R D D N A A R L V
UniRef90_R4IKN8 N G G P G T I R K K L V S V L E D G K L D Y V L H K L D A T D D D A N R L G
UniRef90_MOSP32 C E L S A G D G G V I G S V R E V I M V T S S G L P A G T S T E R L D D D D D K H V
UniRef90_V7BSP1 C T M L A G D G G V I G S V R E V I M V T S S G L P A G T S T E R L D D D D D K H V
UniRef90_UPI0002C338CA C T I R A G D G G T I R E V M V T S S G L P A G T S T E R L D D D D D K H V
UniRef90_A0A059BEM3 V K R I K P E G S E R N W T F V N A S C G S S W M D T V G P I D D T E K K S
UniRef90_M1CVY7 V D I H E D E W T V G S V L S W Y F I H D G K E K V A K D I E A I D E E K K L
UniRef90_UPI0002B431B0 Y K L V E G N S T H G S V S F W K Y D F G F G S S L E V K M K V L V D D P N K T
UniRef90_K3YVT2 C D L R S G D G T V G S V R E V R V V S S G L P A T S T E R L E I L D D D D R R K I
UniRef90_I1HT01 C R L V E D G G G V G S V R E V R V V S S G L P A T S T E R L E I L D D D D R R V
UniRef90_B9T645 A E V I E G D G G L G S V R V L F N F G P D I K M T Y Q K E K I S E L D D D S L H R
UniRef90_V4L7V3 C D L S S G D G G E G S V R D V T V V S S G L P A A Y S V E R L D D D D S H V
UniRef90_UPI00042B8CCB C C T L S A G T G S I G S V R E V M V V S S G L P A A T S T E R L D E L D D E D S H V
UniRef90_UPI00032A6100 C T V T I G D G T I N L I G S L R E V N L I S G L P A A R S T E R L E I L D D D D R H V
UniRef90_P19825 V K A V E G H G T T G C V K E W C Y L I E G K P L T V K E K T Y N D E T R T
UniRef90_A0A059D6M2 V E L H D G D W S S D A I K H W N Y T L D G K S L T V K E K V E V D D A N K S
UniRef90_E3W9Q0 F D I H E G G G V G S I V S W K Y S E A D G N A K L A K C V I E A I D D D E K K S
UniRef90_M1AUH1 F Q I H E G E S K V G S I V S W S Y S E A G Q K K F M K Q V I E A I D D P Y K S
UniRef90_F2DFC3 C R L V D G D G G V G S V R E V R V V S S G L P G T S S R E R L E I L D D D E R R V
UniRef90_M4E8E2 C D L S S G D G G E G S V R D V T V V S S G L P A G Y S T E R L D E L D D D A K H V
UniRef90_UPI0002B4B654 I E V V E G R T S G S V V H F Q Y Y L I G D Q V V S K W L I K V A D D D A K C
UniRef90_UPI0002B46568 Y K F V E G N S T H G S V S I W K Y D I G F G R A V I E V K M K L L V D D E A N K T
UniRef90_UPI00032A529 C N V V A G D G R V G A L R E V R L V S G L P A V S S T E R L E I L D D D D H V
UniRef90_K4B8Q4 C T L I S G E G G V G S I R E V N L V S G F P G K R S T E R L D L L D D D D M H V
UniRef90_A0A059D6E4 K V S K E K I D G V D D E A D K V
UniRef90_M5XJK5 V E L L G E G G C A G H V K M I S H S K S L R L H V K H R I D G L D D K D N F V
UniRef90_Q5ZF57 V K A V E G H G T T G C V K E W G Y I L E G K P L S C K E K T T Y N D D E T R T
UniRef90_Q06394 C T M K G D G G V G S M R D V T V I S G L P A S T S T E L E A I D D D D H V
UniRef90_UPI00042B1AEB W S T G I S M V N G K A K V S K Q I E A I D A E K N L
UniRef90_M5Y6L3 T E R L E G D G G P G T I R L I T L G P G G E E R Q N K E R V T V V D D E G T G T
UniRef90_UPI0001622013 C R L V V D G D G G V G S V R E V R V V S S G L P A T S S R E R L E I L D D D D R R V
UniRef90_MOT346 C R V V D G D G G V G S V R E V R V V S S G L P A T S S R E R L E I L D D D D R R V
UniRef90_W4ZNQ0 A D S Q E K I S V E G R L H R T V R A T V N A N P G S F L
UniRef90_A0A059DAZ2 V Q T L Q G D G S P G T L L N V K P Q E G I L S K N V V L K V D E I D D E A N K K
UniRef90_UPI00032A5545 C S M R A G N G G I G S I R E V V V K T G L P A K T S M E R L D E L D D D A E M H V
UniRef90_M5WZH7 C D L K A G D G T V G S V R E V T V V S G L P A S T S T E R L E I L D D D H R H I
UniRef90_C0PK92 C A L R S G D G G E G S V R E V T L V S D L P A S F S L E R L D E L D D D E S K H V
UniRef90_ROF1P8 K V I E I F K E K I T V D D E A N K S
UniRef90_UPI00042B3667 Y K I L L E G N G A H G S V I H L K Y N I G G P A E M K E R L A F D D A N K S
UniRef90_UPI0002B429D7 F D F H E G E T D V G S I V Q W T Y N D D G K D K T S K Q V I E A V D H E T K T
UniRef90_UPI0003D282D1 C T M R T G D G V G S I R E V I M V T S S G L P G K T S T E R L D R L D D E K H V
UniRef90_UPI0002C36277 C H L V D G D G E V G S V R E L E V T S G L P A Q N S R E R L E I R D D D D E R R V
UniRef90_V5P0A6 C H L I S G Y G G A G S V R E L R V V S S G L P A E S S T E R L D R L D D D L H V
UniRef90_A0A022QNP5 C Q V I T G E N T V G A V R E R V V S S G L P A E S S T E R L E I L D D D E S H V
UniRef90_G7J2D4 C N L S F G D G G T G S V R E V T V V S G L P A E F S Q E R L D E L D D D E S H M
UniRef90_D7MSQ9 Y A A A D A G S V Y K T K I V V C S A T H V
UniRef90_B8BMG3 D G K E V G K E R V E I D D E A N K M
UniRef90_UPI00042B3667 V D V H E D G K E V G K E R V E I D D E A N K M
UniRef90_K4BNU0 C L M R S G D G G V G S V R E V R V V S G L P A G V S V E R L E R L D D D A R V
UniRef90_W9SSK9 C S L R A G D G T V G T L R E V R V V S S G L P A A S T T E R L E I L D D D E H H L
UniRef90_W1NK26 G K L H E G D W H D G S V M S W G L T T E G K V H S T K E S I E A I D D D E Q T K
UniRef90_K7K9H9 C A L A A G D G T V G S V R E V T V V S G L P A S T S T E R L E I L D D D R H I
UniRef90_M7YRV1 F E I H E G E T K I G S V V S W K F H Q D G K E I F L K E M I E S V D L E N K K S
UniRef90_D7KPP9 K M L A E R I E A V D L E N K K S
UniRef90_UPI00042B3667 F E I H E G E T K I G S V V S W K F H Q D G K E I F L K E M I E S V D L E N K K S
UniRef90_K4BNK8 F A A L G E N K T L K S R V V A L D A A A R V
UniRef90_K7TFM0 I R L I E G D G S V G T I R L L K Y A Q G V P I T F A K Q A E E L D D D A D
UniRef90_MOU1E0 C Y M V A G D G T P G S I R E V T V I S G L P A H R S R E R L E I L D D D E H V
UniRef90_A0A059CCK9 F E I H E G E G E I G S V A S W K Y Y E D G K E M F V K T V I E A I D P Q T N S
UniRef90_K4BNT9 C T Y V R G D V R V G T V R E V T V I S G L P A S T S T E R L E I L D D D D N H V
UniRef90_U5CQ23 K K Y V A K E V V E G I N K N C K
UniRef90_V7BUZ0 C T I R D G D G G E G S V R D V A L V S G V P G N F S T E R L D E L D D D S Y V
UniRef90_M4DA24 C N L L D G D G G I G S V R E V M V T S G L P A G V S V E R L D K L D D D D K H V
UniRef90_I1M1T4 I D L V E G Q G A G S V I L F M Y H L G A D Q V V S K W L I R A V D D D A K H C
UniRef90_UPI0002B436A2 I D L L E G Q G A V G T I I K I T L A G G F S Y K E K F T K V D H E N H V
UniRef90_A0A059DKS4 C N M R G D G G V G S I R E V T V V S G L P A S T S T E R L E I L D D D D K H V
UniRef90_V7CS79 C V L R E G D G S V G S T R D V T L V S G L P A S C S S T E R L E I L D D D Q Q H V
UniRef90_D8TAX3 G D T R H V W W D V R T L L I F S S Q R M V E V
UniRef90_B8BMG0 V K A V E G D R T S G F I K E W H Y I I E G K P L T C K E R T T Y E D A A R T
UniRef90_Q41020 C T L R R G K G V G S V R E V N I V S G L P A E I S L R E L D K L D D D D H V
UniRef90_A5BR51 F E I H E G E T K V G S I V S W K F N Q D G K E M L L K E K I E S I D D L E K K S
UniRef90_M1ABV6 A E I H E G E D W T P G S V R L W N Y T V D G V Q E V F K E K V E I D E E N K T
UniRef90_A0A059D6L1 C S M R G D G T V G S V R E V R V V S S G L P A E H S T E R L E I L D D E D H V
UniRef90_D5A9H9 F E I H E G E T K V G S I V S W K F N H G G N E I L S K D V V E S V D L E K K S
UniRef90_M1ABV5 C T I R G N G K E G T L R E V S V V S G L P A S T S T E R L E I L D D E E K R I
UniRef90_M4CV19 C S M Q G D G N V G S T R H V R V I S G L P A A S S T E R L E I L D D E H R H I
UniRef90_D5AAA4 E Y C T A V V E A I D E K N K I
UniRef90_W9QTV9 C T V S G G D L R I G T V R E V N V T S G L P A T T S K E R L E R L D D D E H I
UniRef90_S8C2Q1 C T V S E G T M K L G C T R E V N V I S G L P A D T S T E R L D I H D D D E R H V
UniRef90_UPI0002B46CDD F T L H E G G T G S V V S W K F V L I G G K E R H A K Q V L H I D D D A K K S
UniRef90_Q41182 E V H E G G K V G T I F N M K Y N E D V Q E K T V K Y E I E A I D D S Y K K S
UniRef90_M1B0C9 C I L T V G D G V G S I R E V F L V S G V P A T S S T E R L E I L D D D E K H V
UniRef90_A9SKY6 C S L K E G Q M K V G C T R D V N V I S G L P A A T S T E R L D V L D D D E R R V
UniRef90_G7KF38 V D L D G G D D G V G A V R A F R T G R T V T G E R L T E K V E R R L
UniRef90_UPI0004758418 Y K F V E G N R T H G S V T H F Y D F G P A E V K T R L L V D E P N K A
UniRef90_UPI0002B4A67E C S T Q G D L K V G S T R E I T V V S G L P A T T S K E Q L E I L D D E D K H I
UniRef90_D8RCG8 L E I H A G E T K V G S I V S W K Y N E A G Q K K S A K Q V I E A I D L D K K S
UniRef90_K4BNT4 C F M R G D L K V G C L R E V R V V S G L P A A T S T E R L D L D D E E R H I
UniRef90_A9NQM9 C T I R D G E R G E S V R D V K L V S G V P G D F S T E R L D K L D D D E S H V
UniRef90_V4P714

UniRef90_D8RV30 L V T E M L E G A G L G K K Y T S K K L V T C L K P K S A S S T L V S W E V H C
UniRef90_M1BAS4 I T W K V I E G N V L E L Y N S L I V I T S S E H Q W T T L T F V Y
UniRef90_K4BNT6 I T W K V L E G D T L E L Y N S F T I S A S F E D N W A T W T F V Y
UniRef90_K4BNT5 I T W K V L E G D T L E L Y N S F A I T A S F E E N W A T W T L V Y
UniRef90_M0VJ16 F K T E V L E G D K V S G Q L K S Q A V E M K L E A A G D G A C V A K L K V E Y
UniRef90_R4IKN8 Y N Y S L V V G P L H E S L E K V T F E T I V A G S D G G S I V K L S V K Y
UniRef90_M0SP32 I S F S V V G G D H R L S N Y Q S T T T
UniRef90_V7BSP1 L K F S I I G G D H R L A N Y S S T I T L H E E E E K H G G K T V A
UniRef90_UPI0002C338CA M N F S I V G G D H K L A N Y S S I T T
UniRef90_A0A059BEM3 I K W T L A G D V P L K S Y K S L S V V H H F S I S E G G C V A K V V L T F
UniRef90_M1CVY7 V K F K V T G G D L L E E Y K A C S F T V H V I E S K G E N N L V T W I A E Y
UniRef90_UPI0002B431B0 I I Y E C L E G D L F K D F D I F N V K L K V N D G G N N S S V N W C L E Y
UniRef90_K3YVT2 L S F R V V G G D H R L R N Y R S V T S V T E F Q P G P Y C
UniRef90_I1HT01 L S F R I V G G E H R L A N Y R S V T V S E V P V A G G
UniRef90_B9T645 L A L Q L T A I G E G E T L I D V T V A Y
UniRef90_V4L7V3 M V I S I I G G D H R L I N Y R S K T T A F V A A A E E E K T
UniRef90_UPI00042B8CCB M V V S I I G G D H R L V N Y R S T T T L H E I E E G K G K T V V
UniRef90_UPI00032A6100 I S F S V V G G D H R L A N Y R S V I T T
UniRef90_P19825 I N H N G I E G G M M N D Y K K F V A T L V V K P K A N G Q S I V T W I V D Y
UniRef90_A0A059D6M2 I T F N I M E G D I L K E F K S F
UniRef90_E3W9Q0 N T W K V I G G D L L E A Y N D F L V N I S C N Q H W L T W T L E Y
UniRef90_M1AUH1 I C W K V I E G D V L E Y N S F T I I T S H E P Q W T L W T L D Y
UniRef90_F2DFC3 L S F R I V G G E H R L A N Y R S V I T T V N E V A S T V A G A P R V T L V V E S
UniRef90_M4E8E2 M A I S I I G G D H R L L N Y R S K T T A F
UniRef90_UPI0002B4B654 I V Y E A V I E G D M L N Y Y K M L R A R V I E A V N G R S N E S F A E W T V E F
UniRef90_UPI0002B46568 I I Y E C L E G D L F K D F D M F K V K L E V T D G G S S N S S V N W C L E F
UniRef90_UPI00032A4529 I S F S V V G G D H R L R N Y R S V I T L H S D G N G G T I V V
UniRef90_K4B8Q4 S I V S V V D G D H S F S N F K S I M T L H E D K V I E D H D I G N Y Y K T V
UniRef90_A0A059D6E4 V T Y S V I D G D L L K Y Y K N F N G S I K V I P K G D G S L V K W S C G F
UniRef90_M5XJK5 Y S Y T L V E G D A L S D K V E K I S Y E I K L V A S A D G G S L I K S A I A N
UniRef90_Q5ZF57 M E I V A F E G D V M Q L Y K S F K T T I T A V D G N T V K W S I E F
UniRef90_Q06394 I H H M V V A G D L M N D Y K K F D A T L V V N P K S N G H C I V K W T I D Y
UniRef90_UPI00042B1AEB I T F R L V G G D H R L N N Y R A V I T S V N E F N Q G G K A Y S M V L E S Y T V
UniRef90_M5Y6L3 I T F K V I E G D L L E H Y K S F K M T F H A T P K A H G Q S I V H W T M E Y
UniRef90_UPI0001622013 I G W E L V D D H R Y S K L K T T F K I I P C S N K D S I L H W E I D F
UniRef90_MOT346 L S F C V M G G E H R L R N Y R S V T S V T E L H R E G K A Y T L V L E S Y V V
UniRef90_W4ZNQ0 L S F R V V G G E H R L S N Y R S V I T
UniRef90_A0A059DAZ2 Y N H S T V E R D E Q G N I S K E I S H E V T I E A W P G V G S V C K Y A G R Y
UniRef90_UPI00032A5545 Y G Y S V V G G D D F D E T M E R L S Y K L K L E E S D D S D C I A N I S I E F
UniRef90_M5WZH7 M H Y S I V G G D H R L A N Y S S T T T V H G E E E G
UniRef90_C0PK92 L S F R V V G G D H R L R N Y R S V I T S V T E F Q P G P Y C V V L E S Y V V D
UniRef90_R0F1P8 M V I S I I G G D H R L I N Y R S
UniRef90_UPI00042B3667 V T L V A L E G H V M E E F K S Y K I V F G V T P M S D Q S S V V K I T L D Y
UniRef90_UPI0002B429D7 I A F E V F E G D L F R D F E V F K M K M Q V I E K G S N G S S V N W S I E F
UniRef90_UPI0003D282D1 I T W K V I G G D L L E L Y D S F T I T S C D H W T T Q T F L Y
UniRef90_UPI0002C36277 M N I S I I G G E H R L V N Y R S T T T V H E E E E K G M K T V V
UniRef90_V5P0A6 I G F S I L G G D H R L A N Y R S V I T T V H E A A S Q N G G G P L T M V V E S
UniRef90_A0A022QNP5 M V I S I V G G D H K L N Y R S T T S L H E E D D G G V G T V V
UniRef90_G7J2D4 I S F S V V G G D H R L R N Y R S V I T T
UniRef90_D7MSQ9 M V I S I I G G D H R L V N Y R S K T M A F V A A D E E E K T V V V I E S Y V
UniRef90_B8BMG3 L K V E V L E V K S R V G N L K S H S T E T K L E A T G D A T C V A K L T V I E Y
UniRef90_K4BNU0 M K K R I I E G D L L E Y Y K S F Y V T I H V E T K G E N N L V T W I L E Y
UniRef90_W9SSK9 M S F S I I G G D H R L E N Y R S T T
UniRef90_W1NK26 I S F R V I G G D H R L A N Y R S V I T L H P V A R S N E G E T L V I E S Y V V
UniRef90_K7K9H9 I S K D Y K M Y K F H L Q L I D E E E G G A V T I W T I Q Y
UniRef90_M7YRV1 L S F R V V G G E H R L R N Y R S V I T S V T E F T D Q P
UniRef90_D7KPP9 M S Y S I I G G E M L E Y Y K T F K G T I T C I P K D G G S L L K W S G E F
UniRef90_K4BNK8 I T W K V I G G N M L E Y Y K T E S Y N S F T I T S S E Y W T T V T L M Y
UniRef90_K7TFM0 V R T E V L Q G G T V S A Q L R T H F A E I R V E A A G E G A C V A K V K V D Y
UniRef90_MOU1E0 I T D S E I L V S F Y K T F K T T L K V E A R G D S S L V K Y Y I E Y
UniRef90_A0A059CCK9 M V I S I I G G D H R L V N Y R S T T T
UniRef90_K4BNT9 I S W N V I E G N L L D L Y N S F T V I T S S E H E W I T Y T L V Y
UniRef90_U5CQ23 M S F S V V G G E H R L K N Y R S V I T
UniRef90_V7BUZ0 L S F K V L E G D L L G L Y K S F K T D F Q V T P K G N G S V V Q W T L V F
UniRef90_M4DA24 M V V S I I G G N H R L V N F T S K T M V V A S P D D E A D K T V V V E S
UniRef90_I1M1T4 L K F S I I G G D H R L V N Y S S T I T L H E E E E E
UniRef90_UPI0002B436A2 I I Y E A I E G D L Q K Y Y K V L R A K L E V V S K I G R G S F A K W T I E F
UniRef90_A0A059DKS4 K E T E A I E G G F L D M G
UniRef90_V7CS79 L S F R V V G G E H R L Q N Y R S V T S V N E F K K E G T V Y T I V L E S
UniRef90_D8TAX3 L S F R V V G G E H R L K N Y R S V T S L H A T T A G G R D A T I V
UniRef90_B8BMG0 I H H S T V E G V L L D D Y K K F D A T L V N P K A D G H G S I V T W I V E Y
UniRef90_Q41020 M R F T V I G G D H R L A N Y H S T T L H E D E D G B R K T V V
UniRef90_A5BR51 T T W K V I G G N M L E L Y D S F T I I T S S E H Q W T T V T L M Y
UniRef90_M1ABV6 M T M V A V G
UniRef90_A0A059D6L1 L S F K V V G G E H R L K N Y R S L T T L H R I C D V G E N
UniRef90_D5A9H9 I T W K V I G G N M L E L Y N S F T V I T S S E H Q W T T V T L L Y
UniRef90_M1ABV5 L S F R V L G G E H R L R N Y R S V I T S V N E F V V L E N D K V K R V Y
UniRef90_M4CV19 I S F R L V D G D H R L R N Y R S I T T L H D C P V N G R P G T V V
UniRef90_D5AAA4 V R S K A L D G E I T R K L Y N S Y T F I I Q A I D K A D G G S I V K T T V E Y
UniRef90_W9QTV9 F S M R I V G G D H R L R N Y S V T V H P E V
UniRef90_S8C2Q1 I G F S I I G G E H R L K N Y R S V T S V H Q L E
UniRef90_UPI0002B46CDD I T F N F V E G D M N E L Y K S M T A T L I A E G N W M T W T F V Y
UniRef90_Q41182 I S R K V I G G D L L D F Y S F T V S S C E Q Q W I T W T F E Y
UniRef90_M1B0C9 F S F R V L K G G H R L Q N Y R S V T T
UniRef90_A9SKY6 T G F S I I G G E H R L K N Y R S V T S V H G F G D G D N G G E I W T V V L E S
UniRef90_G7KF38 L A Y E D A F N S L H N Y H A R I E L K P T A N S G T V I H W Y G E Y
UniRef90_UPI0004758418 V I F E C V E G D L L K D F E M F Q V K V E V R D G G N G V S S V K W S V G F
UniRef90_D8RCG8 L S F K V L D G D H R L R N Y R S I T T
UniRef90_K4BNT4 I T W K V I E G D V L E S Y S F T G I L S C E H E W T T W T I E Y
UniRef90_A9NQM9 L S F S I V G G D H R L N Y R S I T T
UniRef90_V4P714 M V V S I I G G N Q R L V N Y R S K T K V V A S S P E E D E K E K T V V V E S Y

UniRef90_D8RV30 D P V G E D A A E E A E S L S T L K K V E E H L V A N P S L Y
UniRef90_M1BAS4 E K K T G D T P E P L T D F G F F L D A I K D M E D H L I
UniRef90_K4BNT6 E K K T E D T P E P V T L L K L M I D I T R D L E S G H L
UniRef90_K4BNT5 E K K T E D T P E P V T L L S L M I D I T R D L E S H L H N N
UniRef90_M0VJ16 E R L G G A L S V E D Q A A L A A G Y L D L F K M V E A Y L V A H P A E Y
UniRef90_R4IKN8 H T K G D E V L T D A V R E

UniRef90_M0SP32 E K K H D H G P V P I D Y M K V L C D M L R A V E E Y V
UniRef90_V7BSP1 E K K N V N V P D P H T Y M E L L N T S K D I E T H
UniRef90_UPI0002C338CA V K A N E N V D P P N N Y L Q F G L K L C K N V D A F L G N N

UniRef90_K3YVT2 E S E I E D D T M P S K T K S S T L A Y I S S L E N Y L A N A S S C
UniRef90_I1HT01
UniRef90_B9T645
UniRef90_V4L7V3

UniRef90_UPI00042B8CCB E K I N E D S P V P F D Y L A F F Q Q N I E D L N S H L C A
UniRef90_UPI00032A6100
UniRef90_P19825
UniRef90_A0A059D6M2

UniRef90_E3W9Q0 E K K T E D T S E P I T F L G F F A Y L S K D I E A H
UniRef90_M1AUH1 E K K T E D I P E P L S F M G H I L D I I K D M E G H L L K N
UniRef90_F2DFC3 Y V V D
UniRef90_M4E8E2

UniRef90_UPI0002B4B654 E K A D E N V P L P Q T H L D L F V E M S K A V D A Y
UniRef90_UPI0002B46568 V K S N E N V A P P N D Y L Q F G V K I C K D V D A Y L S N N
UniRef90_UPI00032AA529

UniRef90_K4B8Q4 V I H S Y V V D I P E I
UniRef90_A0A059D6E4 E K A S D E I P D P H V I K D F A I Q N F K E L D E F I L
UniRef90_M5XJK5 S S N D F A L H Q I E M L A A T E Q A
UniRef90_Q5ZF57 E K A N E L A P A P D H Y I L L A T Q V T K M L D A Y L V
UniRef90_Q06394 E K M N E D S P V P
UniRef90_UPI00042B1AEB E I P Q G N T E E D T K M F V D T V V K L

UniRef90_M5Y6L3 E K H H G D I E D P H T L L Q F A V D V S K D V D A H L
UniRef90_UPI0001622013 E P I D G S T P P P E N F K D S K I H V I E A V Q K Y A N T H P E
UniRef90_M0T346 D I P E G N T E E D T K M F T D T V V K L
UniRef90_W4ZNQ0

UniRef90_A0A059DAZ2 F T V G Q V D I T E E I K A M R E K A S V M F G A I Q A Y S A A K P
UniRef90_UPI00032A5545 H G K E R R N M S D E
UniRef90_M5WZH7 V P D G N T E E D T R M F T D T V V K L
UniRef90_C0PK92
UniRef90_R0F1P8

UniRef90_UPI00042B3667 E K L N E N I P D P N K Y L Q F L M N V I K D I D A H L L
UniRef90_UPI0002B429D7 V K E N E D V A A P H Q Y L T I A A Q T S K T L D D Y L C N N
UniRef90_UPI0003D282D1 E K K T E D T P E P L V L L G L V L H V T K D I D G H L L
UniRef90_UPI0002C36277

UniRef90_V5P0A6 Y V V D
UniRef90_A0A022QNP5
UniRef90_G7J2D4

UniRef90_D7MSQ9 V D V P E G N S E E E T T S F A D N I V G F
UniRef90_B8BMG3 E L E D G A S L P E Q E K M I V D G Y F S M L Q M I E A Y L V A H P A E Y
UniRef90_K4BNU0 E K K N V N V P D P H T L V E L L L N V T K D I E N H
UniRef90_W9SSK9

UniRef90_W1NK26 D V P P G N T K E E T V
UniRef90_K7K9H9 K K L N E D V A P P Y H Y L D I I T A T T K E T D A H L
UniRef90_M7YRV1

UniRef90_D7KPP9 E M T A H E I D D P H V I K D F A V K N F K E I A E Y L L K Q S S A
UniRef90_K4BNK8 E K K T E D T P E P V T L L N I F L T G L K D I E S H L L
UniRef90_K7TFM0 E R L D G A P L A P E D E A R L Q G Y V R L V R M V E A Y L V A H P D E F
UniRef90_M0U1E0 E K V Y E E V P D P H L T Q E M A V K H Y
UniRef90_A0A059CCK9

UniRef90_K4BNT9 E K K T E D T P E P L A L M H Y C V G V I K D T E S H L L K N
UniRef90_U5CQ23
UniRef90_V7BUZ0 E K Q E N H I P D P H T L L Q L V V E M S K N I D S Y L
UniRef90_M4DA24 Y I V D V P E G N S E E D T I L
UniRef90_I1M1T4

UniRef90_UPI0002B436A2 E K A N E N V P S P D S H M E I F V K I S K G V D A Y C L S
UniRef90_A0A059DKS4 Y I I P E G N T E E D T K M F V D T V V K L
UniRef90_V7CS79

UniRef90_D8TAX3 E P D G G S L S P E K Q K I I L E G Y F G M L K M I E N Y L V A H P A E Y
UniRef90_B8BMG0 E K I N E D S P V P
UniRef90_Q41020
UniRef90_A5BR51

UniRef90_M1ABV6 E K K T E D T P E P L T L L G V F I I G L K D I E S H L L
UniRef90_A0A059D6L1
UniRef90_D5A9H9

UniRef90_M1ABV5 E K K T E D T P E P L T H L G V L L N C L K D I E S H L L
UniRef90_M4CV19 S V V L E S Y I V D I P K G N T E E D T R M F
UniRef90_D5AAA4
UniRef90_W9QTV9 E K K N E A V P D P T A Y F D F A A A L Y K T M D A H L V N N
UniRef90_S8C2Q1

UniRef90_UPI0002B46CDD
UniRef90_Q41182 E K L N E N I P E P L D I F E L A I C L L K D L E P H
UniRef90_M1B0C9 E K K I E S N P E P L N F L G F I L N V T K N I E G H F L
UniRef90_A9SKY6

UniRef90_G7KF38 Y V V D V P E G N T E E D T R L F A D T V V K
UniRef90_UPI0004758418 E T L G W V M P R Y L Q K F M Q G M A D G L A R Y A E E Y
UniRef90_UPI0002B4A67E M K A N E D V A P P H N Y L Q F G V K V C K G L D A Y L
UniRef90_D8RCG8

UniRef90_K4BNT4 E K K T E D I P E P L I Q L G L L L D L T K D I E R H L
UniRef90_A9NQM9
UniRef90_V4P714 A V D V P E G N S E E

UniRef90_K3Y279
UniRef90_A0A059D6V9
UniRef90_A0A059DEV8
UniRef90_V4MRT4
UniRef90_R0EYF4
UniRef90_A0A059AJM5
UniRef90_A9PG02
UniRef90_W9S787
UniRef90_M1BBE4
UniRef90_W9S5R1
UniRef90_M1ANA7
UniRef90_M5Y306
UniRef90_E3NYH4
UniRef90_D8QY92
UniRef90_Q9SSM7
UniRef90_M1C4P1
UniRef90_M4E889
UniRef90_V7CE11
UniRef90_D8SRM9
UniRef90_H9MAT9
UniRef90_K3XRY8
UniRef90_B9IKG8
UniRef90_W9RRZ9
UniRef90_M4CDM8
UniRef90_F6HT94
UniRef90_D7KHS1
UniRef90_UPI0002B468A2
UniRef90_O82320
UniRef90_K3ZMR9
UniRef90_UPI00042B210B
UniRef90_M1C4P4
UniRef90_M1C4P5
UniRef90_M4CU83
UniRef90_A0A022RVK7
UniRef90_UPI0002B4615F
UniRef90_UPI0002C34831
UniRef90_M0TQI1
UniRef90_UPI0003D252FF
UniRef90_M0SM66
UniRef90_M0SP82
UniRef90_R0HRW8
UniRef90_UPI0002C3591A
UniRef90_A4FLF4
UniRef90_K4C0V5
UniRef90_W9RN97
UniRef90_B9H2N3
UniRef90_K4D062
UniRef90_R0GN44
UniRef90_V4UGN6
UniRef90_M4EWT2
UniRef90_UPI00046DC645
UniRef90_V4UK58
UniRef90_UPI0003761684
UniRef90_S8DW99
UniRef90_V7BSD5
UniRef90_UPI0002B48E9E
UniRef90_UPI0002B4157E
UniRef90_M0SQ80
UniRef90_K4CJT1
UniRef90_UPI0003B5033E
UniRef90_K4AZV9
UniRef90_F2D8F8
UniRef90_K7LF21
UniRef90_M0TRZ4
UniRef90_M0ZNM2
UniRef90_UPI00046DC9AE
UniRef90_A9NSZ1
UniRef90_D7KMN3
UniRef90_V4TLR8
UniRef90_M1D6Z2
UniRef90_D8S7P6
UniRef90_I116D9
UniRef90_Q7XBY6
UniRef90_I1NZ39
UniRef90_M0ZS26
UniRef90_A0A059CTV3
UniRef90_W5HSC0
UniRef90_K7WBY4
UniRef90_UPI0002C30041
UniRef90_A0A059C0N5
UniRef90_B9N2N0
UniRef90_V4SLZ8
UniRef90_M0TC73
UniRef90_UPI00035C493C
UniRef90_UPI00046E0C53
UniRef90_W5HRS6
UniRef90_K4C6U8
UniRef90_D8QPG8
UniRef90_UPI00046DB4E7
UniRef90_F5R8P2
UniRef90_R0I902
UniRef90_NODPC1

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

UniRef90_K3Y279 C A L A A G D G S V G S V R E V T V V S G L P A S S T E R L E V L D D D R H I
UniRef90_AOA059D6V9 V E I H E G E W H T G S L R K W T Y S V E G K K E T F K Q K I Q F D D D K N K I
UniRef90_AOA059DEV8 A D I Q E K T S I E G R L H R T V K E R I V K A F D D R E P F L
UniRef90_V4MRT4 A K E R I E V V I E P E K K M
UniRef90_R0EYF4 C H V D E S E M R V G C T R D V N V I S G L P A N T S R E R I L D L L D D D R K V
UniRef90_AOA059AJM5 E G D G G V G S V R K L R V V S G L P A S T S M E R L E V L D D D R R R V
UniRef90_A9PG02 I G L A D G N N T V G S R K M I S E S S R D T A E K I K Y V V E S V L D D D D R S R K
UniRef90_W9S787 C H G I H G N G D P G C I R Y C S N V G D K P V I S W S K E R L T J A V D H A Q H S
UniRef90_M1BBE4 F D L L E G D G T V G S K I C W T Y T L D G E K K I S K Q L L E A L D H E K K V
UniRef90_W9S5R1 V D C H E G D W R T H G D G T S G V F K E K V E F D D E N K K A
UniRef90_M1ANA7 C T L I S G E G G V G S I R E V N L V S G F P G K K S I E R L D L L D D D M H V
UniRef90_M5Y306 T S G S V K L W K Y T L D G N V E T L K E K V E I D D E A N K L
UniRef90_E3NYH4 C H V V G D D G I G A L R E V R V V S G L P A E S T S T E R L E I L D D D D K H V
UniRef90_D8QY92 C S F K G D E L R V G C T R E V T V V S G L P A T S S T E R L E I L D D D D K H V
UniRef90_Q9SSM7 C T I V N G N G K V G T I R E V S V S G L P A S T S V E I L E A L D D E E K R L
UniRef90_M1C4P1 V E I H E G E K V G A V V S W K Y I E D G K E K L L K E I D H H E K K S
UniRef90_M4E889 C S V E E G E M R A G C T R Y V D V I S G L P A N T S R E R I L D L L D D D E R R V
UniRef90_V7CE11 C H V K E D Q L V V G S T R D V N V I S G L P A A S T S T E R L E I L D D D D R H V
UniRef90_D8SRM9 C V I A S G D G S V G S L R N I T L I S G L P A A S C S T E R L E I L D D D E H H I
UniRef90_H9MAT9 C S I R E G D L K I G C L R E V R V V S D L P A A S T S T E R L E I L D D E E R H I
UniRef90_K3XRY8 C R L V D G D G T G S E R E L I V G S G L P A N S S R D R L E I L D D D A L R V
UniRef90_B9IKG8 Y G I H G T N G E P G C I R H C T D G H S Q P V S W S S R L T V V D H V E R S
UniRef90_W9RRZ9 C N M A A A A I A V G S V R E V T V V S G L P A S T S V E R L E I L D D D E R H V
UniRef90_M4CDM8 C C E L R E G E G Q V G S I V V W R Y I H G K W G G K N D D D D E R H V
UniRef90_F6HT94 C H V E D G E M R V G C L R D V N V I S G L P A E T S T E R L D I L D D D E E H I
UniRef90_D7KHS1 C T V I G D P E I G S L R E V N V K S G L P A T T S T E R L D I L D D D E E H I
UniRef90_UPI0002B468A2 Y E F V E G N S T H G T V I H W K Y D F G G G L E E S K V R L T V E P N K S
UniRef90_O82320 H G V H G N N G E Q G C I R F C S N G V D S A A R W S K E K L V A V N P V E R V
UniRef90_K3ZMR9 V K V L E G N G G V G T L I R L T F P D G T G Y K K F T K I D N E N Y I
UniRef90_UPI00042B210B N H F H E G E S K I G S I V S W T Y N D D E K D K I V K E V I E A V D P E E K S
UniRef90_M1C4P4 I L S F E F L E D G K D K I A K Q V I D A V D L Q K K S
UniRef90_M1C4P5 C H G V R H G N G E L G C I R F C S N G V E P T V G W S R E K L V A V D P V E R V
UniRef90_M4CU83 C S V R D G F A E V G D L R D R V S V I S G L P A A T S T E R L D A L D D D E R R V
UniRef90_AOA022RVK7 F A F V E G Q S S A D T V R Q L E Y N L I G H Q L L T A N I K L K V V D D M K K Y
UniRef90_UPI0002B4615F Y Q L V E G V S G Q P G L V R Y C E M G R D E T T L W A K E K L L M I D P T N Q S
UniRef90_UPI0002C34831 C A L K D G S D G P G C L R E V S V I T G L P A S T S T E R L D L I D D D G R R V
UniRef90_M0TQI1 F E V N E G E G T V G T L V I E W R F N Y D G E E R V A K Q V I D H I D E E K K R
UniRef90_UPI0003D252FF C V V Q G D L E V G S V R E V N V K S G L P A T T S T E R L E L L D D D Q E H V
UniRef90_M0SM66 C V V Q G D L A I G S V R E V N V K S G L P A T T S T E R L E L L D D D Q E H V
UniRef90_M0SP82 Y G I Y G E P G C I R F C S G S G S G W S K E K L V A V D P V E R V
UniRef90_R0HRW8 C S Q V E G V G Q P G L I R Y C T D N D E T T V K W R K E K L J A V D P I K R C
UniRef90_UPI0002C3591A E I E G G D A R P G C V R A L T L S D G A L V R E R L S A L D D I Q R S
UniRef90_A4FLF4 I E V G D L G I G S V R E V N V K S G L P A T T S T E R L E F L D D D E E H L
UniRef90_K4C0V5 E L V D G E D K V G S R R K R V H F D E A G L E D F K D E V V E I D P K A K Q
UniRef90_W9RN97 F T L H D G G G K T N S V I G W K I I L G G K E R H F K Q V V D I D D A A K S
UniRef90_B9H2N3 C T M R K E S G G Q G S V R D V T L V S G L P A D F S T E R L D E L D D D E H V
UniRef90_K4D062 C E L L E G E G K P G C V I C W R F C G F Y G L R T T W S
UniRef90_R0GN44 C T V I G D P E I G S L R E V N V K S G L P A T T S T E R L E L L D D D E H I
UniRef90_V4UGN6 C T V I G D P E I G S L R E V N V K S G L P A T T S T E R L E L L D D D E H I
UniRef90_M4EWT2 R K A T F S K E L T E A I D D D E H S
UniRef90_UPI00046DC645 P A T T S T E R L E M L D D D E H I
UniRef90_V4UK58 D Q I V E G N N K V G A V R L L T L K D G G T I K E K L L G Y D P A H H S
UniRef90_UPI0003761684 C S V R D D S L K I G D L R E L T V I S G L P A E T S T E R L D I L D E E R R L
UniRef90_S8DW99 I Q I H K G E G T E G S I I S W N Y T H
UniRef90_V7BSD5 Y G L S G T N A E V G S V R F C S D G S D G V V S W S K E R L V G V D E E H R R
UniRef90_UPI0002B48E9E C A V N G G E I R V G C L R E V S I S G L P A S T S T E R L D V L D D E A L R R M
UniRef90_UPI0002B4157E F T L H E G G K T N S V I S W N Y I L I G G K E R H A K Q V L H I D D E E K S
UniRef90_M0SQ80 E I V E G N N T V G A V R Q L T L A G E T P T I K E K L T A L D D D A A K S
UniRef90_K4CJT1 C T V K G D L T V G S V R E V N V K S G L P A T T S T E R L E L L D D D E E H I
UniRef90_UPI0003B5033E C D P E A G D D R P G R L R E V S V I S G L P A S T S T E R L D L L D D D A R R A
UniRef90_K4AZV9 C A V K E P H M A V G V T R D V N V I S G L P A A T S T E R L D F L D D D V N R V
UniRef90_F2D8F8 C I V Q G D F A V G C L R E V N I K S G L P A A T S T E R L E Q L D D D E R H I
UniRef90_K7LF21 Y S V Q G A N G A P G C I R Y C S K G D H M A V S W S K E R L V A V D D D A H S
UniRef90_M0TRZ4 C S V R G G I T V G S I R N V N V K S G L P A T A S E E R L E L L D D D A N H V
UniRef90_M0ZNM2 C A L H E G E G K V G S N G Q P K V G K E R I E A V D H E K N L
UniRef90_UPI00046DC9AE C I V Q G D L Q I G S V R E V N V K S G L P A T T S T E R L E L L D D D E E H I
UniRef90_A9NSZ1 C R W I A G D H A P G S V R Y V S T G C D G R K S W A K E K L L T M D E S S H T
UniRef90_D8S7P6 C A L D D G E L R P G R L R E V S V I S G L P A S T S T E R L D L L D D D A R R A
UniRef90_I116D9 C D P H H D D N G N R L R E V S V I S G L P A S T S T E R L D L L D D D A H R V
UniRef90_Q7XBV6 C E M K G N I E I G S V R E V N V K S G L P A T R S T E R L E L L D D D N E H I
UniRef90_I1NZ39 M Y M K H L I E A V D P H K K L
UniRef90_M0ZS26 Y G I H G K N G E P G C V R Y C D P G E N R P I K W S K E R L V G V D P P G R S
UniRef90_UPI0002B48E9E E Y Q K E K F I K I D N E N F V
UniRef90_UPI0002B48E9E C D P D A G D A R P G R L R E V C V I S G L P A S T S T E R L D L L D D D A A R V
UniRef90_W5HSC0 C A V G P G E L A A G S A T R Y V D V I S G L P A A T T I T E R L E L L D D D D K H L
UniRef90_K7WBV4 C S V G P G T V G S T R D V N V I S G L P A A T S T E R L D I L D D D E R F V
UniRef90_UPI0002C30041 C S V S D N T M A V G S T R D V N V I S G L P A A T S T E R L D I L D D D R Q Q V
UniRef90_AOA059C0N5 C D V V V G D G D V G T L R E V S V V S G L P A A T S T E R L E I L D D D E R H V
UniRef90_B9N2N0 V E W T G D K V G G A R V C T A P E G Q G F Y K E S I V A F D D N A R T
UniRef90_V4SLZ8 C L V H E G D W T H G S V K I W N Y H L G D E V G T L K E K V K Y D D N E N K A
UniRef90_M0TC73 C V M Q G N I E P G C V R E V T I K S G L P G T W S T E R L E L L D D D N E H I
UniRef90_UPI00035C493C C S V A E N S M V V G A T R D V N V I S G L P A N T S T E R L D L L D D D E K Y V
UniRef90_UPI00046E0C53 V E I D P G D G I T G S R R R I S P R I D N I Q S W A I E K L V E F D A E N H Y
UniRef90_D8QPG8 S T A T A G S E V G S V R T L K I K G G G E V T E K L E A I S D A D R S
UniRef90_UPI00046DB4E7 D G K P E F F K E R E I D D E K M T
UniRef90_F5R8P2 C V V Q G N L E I G S L R E V D V K S G L P A T T S T E R L E L L D D D N E H V
UniRef90_R0I902
UniRef90_NODPC1

UniRef90_K3Y279 L S F R V V V G G D H R L R N Y R S V T S V T E F 100 110 120
UniRef90_A0A059D6V9 A T H V G I E G D E V F N Y Y K S Y T A I W Q A V L M D G G P D V V K V I I G Y
UniRef90_A0A059DEV8 Y N H S T V E I R D E K G N F S K E I S H E V K I E A L P D S G S V C T Y A G R Y
UniRef90_V4MRT4 I K F R V L V G G D I M K E F K S F V I T I Q V T P K G G S S I V R W H F D Y
UniRef90_R0EYF4 T G F S I T G G E H R L R N Y R S V T T V H R F
UniRef90_A0A059AJM5 L S F R V L V G G D H R L R D Y R S V T S V N E V T M I E G E R K V V T L V L E S
UniRef90_A9PG0 I T Y K V L E G A L L Q V S F S V T L Q V T S S S T A K W T I N Y
UniRef90_W9S787 I L T Y E I V D S N I G F E S Y V S T V K L V P G S D C G C A I E W S F T V
UniRef90_M1BBE4 L I L R E F E G D V F T D K Y D S F K A T L H
UniRef90_W9S5R1 V I L N G F E G D V F N E Y K L F K P V Y H V V P N P G R G S I A K L S I E Y
UniRef90_M1ANA7 S V F S I L D A D H S F L N F K S
UniRef90_M5Y306 V S L T A L E G S H V L E R N Y R S C K L I F Q V T P K S E G G L V K I T L E Y
UniRef90_E3NYH4 I S F S V V G G D H R L R N Y R S V T T
UniRef90_D8QY92 L S F R V V G G D H R L R N N Y R S V T H E F D V E G A K G T L V V
UniRef90_Q9SSM7 L S F R V L V G G D H R L R N N Y R S V T S E F V V L E K D K K R V Y S V V L E S
UniRef90_M1C4P1 L T W K V I G G D V L E L Y N S F T I I T S N E H E W A T T L I Y
UniRef90_M4E889 T G F S I T G G E H R L R N Y R S V T T V H G F E R D G R I W T V V L E S Y
UniRef90_V7CE11 I G F T I V G G E H R L R N Y R S V S S V H G F E R D G K I W T V V L E S Y
UniRef90_D8SRM9 V S F R V V G G E H R L R N Y R S V T S L H E K V V T V V M E S
UniRef90_H9MAT9 L S F S I V G G D H R L S H Y R S V T T L H E R L V K G K P G T I V
UniRef90_K3XRY8 I S F K I L G G E H R L S N Y R S V T T V H E A T S S D G P V A M V
UniRef90_B9KGB L S Y E I V D S N I G F K S Y V S T V K V V P Q G D D G C V I E W S F N V
UniRef90_W9RRZ9 L S F R V V G G E H R L R N N Y R S V T S V N E F V G G E G N V Y T V V L E S
UniRef90_M4CDM8 G D D R L R N R S G E Q P D H V I Q V T S K G D V G S V A H W H F Q Y
UniRef90_F6HT94 T G F S I T G G E H R L R N Y R S V T T V H E Y Q N H G G E I W T V V L
UniRef90_D7KHS1 L C I K I I G G D H R L R N Y R S V T T V H P E I E G R V G T M V I E S
UniRef90_UPI0002B468A2 I A M E C I E G D V L K T F Q V F K V K V Q V K D S D V G V N S V K W C V I E F
UniRef90_O82320 M R Y E I V E S N I N T G F E S Y V S T V K I L P R G E D G C V I E W S F T V
UniRef90_K3ZMR9 K E A L I I E G G F L D R G F Q K Y L T R I E L I G K E E K T S I V R S T V E Y
UniRef90_UPI00042B210B K E T E V I E G G
UniRef90_M1C4P4 I T W K V I G G D L L E L Y D S L T I I T A C E H E W T T C S F I Y
UniRef90_M1C4P5 I T W K V I G G D L L E L Y N S F T I I T S C D K Q W T T W T F V Y
UniRef90_M4CU83 M R Y E I V E S N I G F E S Y V S T V R I L P R D E E G C V I E W G F T V
UniRef90_A0A022RVK7 T G F S L V G G D H R L R N Y R S V T T V H E V E R R E V G I C S V M E S Y
UniRef90_UPI0002B4615F I T Y E A V E G D V L K N Y E V F T T R L E V V S K V G G S F A K W T I D F
UniRef90_UPI0002C34831 I T Y E V G D N L G L K Y S Y V A T M Q V V P I N N N N C K I V W S Y S C
UniRef90_M0TQ1 I G F T I V G G E H R L R N Y R S V T T E L P A G E G G E P R T V V
UniRef90_UPI0003D252FF I T F K F I D G Y F M E L Y K T L S T T L D A E E N W I T W T F E Y
UniRef90_M0SM66 L S V K I V G G D H R L R N Y S S I T T V H P E V
UniRef90_M0SP82 L S V K I V G G D H R L R N Y S S I T A H P E V M D G R P G T L V
UniRef90_R0HRW8 M R Y E I V E S N I G F E S Y V S T V K V S P R G E D G C V V E W S F T V
UniRef90_UPI0002C3591A L S Y E V L D S N I G F K S Y V A T I Q V V P V I K N N D C V I E W S F V C
UniRef90_A4FLF4 C T Y E M L E G P F A V R R Y V A T L R L A P V T D R H T F A E W Y S E Y
UniRef90_K4C0V5 I K K K M I E G D L L E D Y K S F Y I T T H V E T K G E N N L F I W I E Y
UniRef90_W9RN97 L G V K I V G G D H R L R L K A F Q S C F S M L H K L Q N Y S S I L T V H
UniRef90_B9H2N3 L T Y K V L E G N M M L F Y H S F Q A A L E V T E G T A K W T V E F
UniRef90_K4D062 M T F N F I E G Y M N E L Y N S M T L I L L T V K E N W I T W S M M Y
UniRef90_R0GN44 M V V S I L G G N H R L R N Y R S
UniRef90_V4UGN6 F T V R L F R C H Y I G E T Q E L S I Q L L K V T P K D K G S L V H W T S K Y
UniRef90_M4EWT2 L G I K I I G G D H R L K N Y S S I V T V H P E I
UniRef90_UPI00046DC645 V T F T V L E G N P L D R Y K S F K I T L Q V S P K A D E G S V V H L V L Q Y
UniRef90_V4UK58 L S F R V L G G D H R L Q N Y R S V T S D F I S E T G E V Y C V V
UniRef90_UPI0003761684 F K Y A I L E G V L P V S D Y T S T V S V K A A D G K S V V T W S G Q F
UniRef90_S8DW99 T G F S I I G G E H R L R N Y R S V T
UniRef90_V7BSD5 I G G D L L E H Y K S F K F N L Q V T P K K N G S V M Q F A M E F
UniRef90_UPI0002B48E9E M V L V G M E G D V F N Y Y K S Y K S T F Q V V P K D D N H C Q A V M T I E Y
UniRef90_UPI0002B4157E I C Y E I V D S N I G F K S Y V A T M E V G S V S G G C M I E W R F E Y
UniRef90_M0SQ80 T G F T I V G G E H R L R N Y R S V T T V D E L R G S G G T W A V V L E S Y
UniRef90_K4CJT1 I T F N F K E G Y M N E L Y K S M T L T L I L I A E K N F I T W T L V Y
UniRef90_UPI0003B5033E E S Y E I V E G P L P V S D Y S S T L T V A A D G A G S T V T W S S K F
UniRef90_K4AZV9 L G I R I V G G D H R L R N Y R S V I T V H P E T L D G R P G T L V
UniRef90_F2D8F8 G G F T I T G G E H R L R N Y R S V T T V S E L S P A A P A E I C T V V L E S
UniRef90_K7LF21 T G F S I T G G E H R L R N Y R S V T T V H S F D A S A D G K I Y T V V L E S Y
UniRef90_M0TRZ4 L S I K I V G G D H R L R Q N Y S S I T A H P E M I D G E E G T L V I E S
UniRef90_M0ZNM2 L T F K E F E G D V V D I Y D N F K S T L H I E T K G E I D L I S W T I E Y
UniRef90_UPI00046DC9AE L S Y E I V E S H L G F K S Y V S T V R V V P G G D V D C L I E W S I T V
UniRef90_A9NSZ1 F S I K I L G G D H R L Q N Y S S I I T V H P E I I D G R P G T L V
UniRef90_D7KMN3 I A L R V V D G D T Y E S V Y K S F
UniRef90_V4TLR8 F G M R I V G G D H R L K I I W N F S N F I S T S S S
UniRef90_M1D6Z2 I T W K V I G G D L L E L Y D S F T I I S S C D H L W T T W T F L Y
UniRef90_D8S7P6 I S Y A L I E S N L G M E D Y V A T M R V L G G P D G H N T V E W S F E
UniRef90_I116D9 F G F T I T G G E H R L R N Y R S V T T V S E I R A A G A A V V
UniRef90_Q7XBY6 F G F T I T G G E H R L R N Y R S V T T V S Q L
UniRef90_I1NZ39 L S V R F V G G D H R L K N Y S S I L T V H P E V I D G R P G T L V
UniRef90_M0ZS26 I K W K V I E G D L L E L Y N Y F V Y T T S C D H Q W T T W T F L Y
UniRef90_A0A059CTV3 L N Y E M I D S N N G F T S Y A S T V R V I P G G E G G C T I E W S F T V
UniRef90_W5HSC0 K E A I V I E G G L L N L G F L K Y F V R F E I V G N A D N T S T I R S T V E Y
UniRef90_K7WB4 Y F G F S I T G G E H R L R N Y R S V T T V S E L A G P G I C T V V
UniRef90_UPI0002C30041 P S I K I I G G D H R L R N Y S S I I S L H P E I V D G R P G T V V
UniRef90_A0A059C0N5 T G F T I I G G E H R L R N Y R S V T T V H E V A R E E G G I W S V V L E S Y
UniRef90_B9N2N0 T G F S I I G G E H R L R N Y R S V T T V H G F E R E G K I R T V V
UniRef90_V4SLZ8 T G F S I I G G E H R L R N Y R S V T S V H G F N R D G A I C T V V
UniRef90_M0TC73 L S F R V V G G E H R L A N Y R S V T T
UniRef90_UPI00035C493C Y S Y A L I E G V P V K G M V N S F K V I D L G Y Q K S M V V W T S N Y
UniRef90_UPI00046E0C53 A T L T G L D G E M F K Y Y K S I K G I F Q F A Q M G D V S V A N L T I H Y
UniRef90_W5HRS6 L S V K F I D G D H P L K N Y S S I L T V H H E V I G G H P G A L V I E S F V V
UniRef90_K4C6U8 T G F S I I G G E H R L K N Y R S V T S V H G F E R H G R I W T V V L E S Y
UniRef90_D8QPG8 Y T Y E V E E S N I G L E G Y R A T L Q L N D F G D D T T L V N W V Y
UniRef90_UPI00046DB4E7 V N F S A L I E G P V L E Q Y R S Y K I S F Q V T P K S E G G L V K I T I H Y
UniRef90_F5R8P2 F T Y T A Q D G S A L P V S K Y K S T L T V K P A D G G S V V E W K G V F
UniRef90_R0I902 L T L R G L E G O A V E R Y K V Y D V I Y Q F I P K S K E G C V C K I T L I W
UniRef90_NODPC1 L S I R I V G G D H R L K N Y S S V V

UniRef90_K3Y279
 UniRef90_A0A059D6V9
 UniRef90_A0A059DEV8
 UniRef90_V4MRT4
 UniRef90_R0EYF4
 UniRef90_A0A059AJM5
 UniRef90_A9PG02
 UniRef90_W9S787
 UniRef90_M1BBE4
 UniRef90_W9S5R1
 UniRef90_M1ANA7
 UniRef90_M5Y306
 UniRef90_E3NYH4
 UniRef90_D8QY92
 UniRef90_Q9SSM7
 UniRef90_M1C4P1
 UniRef90_M4E889
 UniRef90_V7CE11
 UniRef90_D8SRM9
 UniRef90_H9MAT9
 UniRef90_K3XRY8
 UniRef90_B9IKG8
 UniRef90_W9RRZ9
 UniRef90_M4CDM8
 UniRef90_F6HT94
 UniRef90_D7KHS1
 UniRef90_UPI0002B468A2
 UniRef90_O82320
 UniRef90_K3ZMR9
 UniRef90_UPI00042B210B
 UniRef90_M1C4P4
 UniRef90_M1C4P5
 UniRef90_M4CU83
 UniRef90_A0A022RVK7
 UniRef90_UPI0002B4615F
 UniRef90_UPI0002C34831
 UniRef90_M0TQI1
 UniRef90_UPI0003D252FF
 UniRef90_M0SM66
 UniRef90_M0SP82
 UniRef90_R0HRW8
 UniRef90_UPI0002C3591A
 UniRef90_A4FLF4
 UniRef90_K4C0V5
 UniRef90_W9RN97
 UniRef90_B9H2N3
 UniRef90_K4D062
 UniRef90_R0GN44
 UniRef90_V4UGN6
 UniRef90_M4EWT2
 UniRef90_UPI00046DC645
 UniRef90_V4UK58
 UniRef90_UPI0003761684
 UniRef90_S8DW99
 UniRef90_UPI0002B48E9E
 UniRef90_UPI0002B4157E
 UniRef90_M0SQ80
 UniRef90_K4CJT1
 UniRef90_UPI0003B5033E
 UniRef90_K4AZV9
 UniRef90_F2D8F8
 UniRef90_K7LF21
 UniRef90_M0TRZ4
 UniRef90_M0ZNM2
 UniRef90_UPI00046DC9AE
 UniRef90_A9NSZ1
 UniRef90_D7KMN3
 UniRef90_V4TLR8
 UniRef90_M1D6Z2
 UniRef90_D8S7P6
 UniRef90_I116D9
 UniRef90_Q7XBY6
 UniRef90_I1NZ39
 UniRef90_M0ZS26
 UniRef90_A0A059CTV3
 UniRef90_W5HSC0
 UniRef90_K7WBY4
 UniRef90_UPI0002C30041
 UniRef90_A0A059C0N5
 UniRef90_B9N2N0
 UniRef90_V4SLZ8
 UniRef90_M0TC73
 UniRef90_UPI00035C493C
 UniRef90_UPI00046E0C53
 UniRef90_W5HRS6
 UniRef90_K4C6U8
 UniRef90_D8QPG8
 UniRef90_UPI00046DB4E7
 UniRef90_F5R8P2
 UniRef90_R0I902
 UniRef90_N0DPC1

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

1 10 20 30 40

UniRef90_UPI0002B4B231 A P R D V V W S V V R R F D K P Q T Y K H F I K S

UniRef90_AOA059CHW6 A P R A A V W P I V R R F D R P Q V Y K H F I K S

UniRef90_S8CDC7 L V L N T P H H F A E A I P A K F Q S

UniRef90_W9REG3 E T D V E I K A F P S Q F H H M F K H K P H H I S N V S S G K I Q G

UniRef90_B9RS02 K A K A E Q I W P L F T D F F N I H K W L P T L R T C

UniRef90_V4MRH2

UniRef90_UPI00042B27D9 V T S A S A D Q I W P L Y T D F F N L H K W Y P G L T T C

UniRef90_M1ACY6

UniRef90_F2CRI9 P D Q A W A L L R D F C S L D K W V P L V H T

UniRef90_S8DSC4 I K A P L D I V W S L V R R F D E P Q L Y K P F I S N

UniRef90_C5X6J0 V V S A P V D R V W E L V S A T S R L R E W M P M V I E S

UniRef90_UPI00032A52DB T L H I E R T I R A P L P Q V W S L V R R F D Q P Q K Y K P F V I S R

UniRef90_D9QL92 T I Q A P A D T V W D A L R D F G A L H T R V A P G F I L D

UniRef90_Q5Z7A8 T E L A A S P E E V W T T I G N F H D M S W H P A V F

UniRef90_X7EAB0 I K A P L H T V W S L V R R F D Q P Q L F K P F V I R N

UniRef90_W1NYB1 T A E L K S T K P D Q V W P F L E D F C S L H K W M P S L D T C

UniRef90_A5BHR2 T I K A P A D R V W Q A L V G D Y G E I A H F S P F I L Y A S

UniRef90_J3L3N0 T I K A P A D R V W Q A L V G D Y G E I A H F S P F I L Y A S

UniRef90_UPI00036DC8F8 V T L E C P R D A W K L F S D F G G L C K W K P A I T V

UniRef90_AOA022QD56 V T P E K V W S V F A D F C N I L Q E W F P A L D T

UniRef90_A9SAJ8 I K A P V H H V W S L V R R F D Q P Q K Y K P F V I S R

UniRef90_R0F2B0

UniRef90_M0S9I8

UniRef90_UPI00034DE434 A P V H L V W S L V R R F D Q P E R Y K P F V I S R

UniRef90_M0RKB0 T A S A V I E I P V S A D K V W A L V G G F N D L P K W L P L I A K S

UniRef90_UPI00034BCFA5 T V C V E I T V A D P A Q R V W E A I A D V G A V H R R L L P G R V A D

UniRef90_R4LLB0 V D A P A K L W E L A S D F C G L C K W M P G R I E E

UniRef90_D8RQ53 V E H I N A P L H L V W S L V R R F D Q P Q K Y K P F V I S R

UniRef90_B5M1Y8 A P V H L V W S L V R R F D Q P Q L F K P F V I S R

UniRef90_B4FR81 K W F P T L T T C

UniRef90_F6HGL5 T T T A T T D I P V P A D C V W Q L I G G F D S L P D W L P Y I P A S

UniRef90_UPI000467A160 W P L F T D F F N I H K W F P V V E T C

UniRef90_W9RIG9 G K N T V T V R G T V P E P V E E V W E A F R P E S M Q F W P Q I K S

UniRef90_C3Z2M4 M P K V C A G F V D D

UniRef90_AOA022QU60 E Q S I E I N A K A D D V W A T S S N F G D L G A W H P A A T K

UniRef90_B8BMG1 A S R V W D V L K Q F G Q I S K W H P A I P E S

UniRef90_C6X789 W E G E V T T A A D P H Q I W P L L T D D F C S L H K W L P F V D T

UniRef90_UPI0002B492F9 V T E T I E I N A T P D A V W A L V G D W G N L Q N W L P V V E S

UniRef90_UPI00042A59DC W S L V R R F D Q P Q I Y K P F V I R K

UniRef90_B9FTJ8 V N A P I D Q V W Q L V R S F N G L P Q W A G I S A S

UniRef90_D2VP67 L K W E A E V S T K A T A D Q I W P L F Q D F F G L H K W F P G L A T C

UniRef90_A0A022PX84

UniRef90_A9PIR0 E L N G P E A E Q V W P L L E D F F G L H K W F P T L T T C

UniRef90_M5WAN7 F E T I T I K A S P D A V W A K V S D F T Q L Q S W H P A V I E S

UniRef90_F5RH69 I I A A P A T R V W E V I V G D F G S L P S W F P F V T A S

UniRef90_UPI0004649243 T T V S I E I P A S A D T V W Q L M G G F D S L P D W L P F I L P K S

UniRef90_C4SS20 G L V S Y E T E V K A R A A K V W E L Y G T K M A L L A K E A L P D T I T G

UniRef90_A0A059DKL5

UniRef90_W9S5Q7 A T A D Q I W A L Y R D F F N F H K W F P G L A S C

UniRef90_F6H356

UniRef90_M0Z2U7 V E K T V V I D A S P D K V W A L V K D F G N M Q K W H P A V E S

UniRef90_Q1GZE5

UniRef90_UPI0003D260C0 V L P A S A D R V W A Y L R D F G N L A E W L P G V D T G

UniRef90_UPI0004788E9D S V V E T I E A P L P L V W S I L R S F D K P Q A Y Q R F V K S

UniRef90_Q9SN51

UniRef90_W9R6X1 I K A P L Q T V W S V V R R F D K P Q V F K P F V I E K

UniRef90_M0WAF1 L S V Q E K V E I I A A P A Q K V W Q R V I G F D G T D F P W V P G V S K N

UniRef90_UPI0002D4B5A1 S T L V K H I I N A P V H I V W S L V R R F D Q P Q K Y K P F I S R

UniRef90_F4KJ16 I G I N T T P E Q A W E V I K S G K D V H K W L S E V I K S

UniRef90_A0A023BTN2 I W N A L E C N L H K L L P H I F Q P F V I E T

UniRef90_V7AYC8 A P V H L V W S I V R R F E E P H I F Q P F V I E T

UniRef90_Q6EN43 V T E S V E I H A P P E T V W S V V R R F D R P Q I Y K H F I K S

UniRef90_Q8VZS8 I K A P V H L V W E L V R R F D Q P Q R Y K P F V I R N

UniRef90_UPI000478A4EF E L A G P K A E Q V W P L L Q D F F G L D K W F P T L T T C

UniRef90_B4FX11 K V T V T T E V I A A E P A E V W D Y I G D F Q D L T W H P A V I Q S

UniRef90_UPI00042B1FF4 T T T V S I E I P A S V D Q V W Q L M G G F D S L P D W L P F I L P K S

UniRef90_W4HHQ4 K L K V E E K V E V N A N A A Q V W E K V N K D L G A W H P A V A N T I I Q S

UniRef90_L8BHV3 I A A P A A G V W K I V G D F G S L P V W F P F V T A S

UniRef90_Y0KJ69

UniRef90_A0QW52

UniRef90_UPI0003DE8EA4 S V S R E V E V D A A P A T V W K L V G N F N H L D V W H P A V V A S

UniRef90_W7W476 T T T A T I E L P V P A D R V W Q L I G G F G S L P D W L P Y I L P T S

UniRef90_N0CG08 E V E H E I T I G A P A D A V Y Q L L A D V I T N W P R I F P P T I H

UniRef90_UPI0002D62E62 E W E G K V V S A V P A A T A D E A W A L L S D F L A F H R W H P R V A A

UniRef90_K3XRX5 E V V I S A P V E K V W A T A S D W L K F P R R C S

UniRef90_A9SNA7 L E I N A P A D K V W E V V S N F Q D M S W H P A I E K

UniRef90_V5SGT7 S I R H E I V I D A S P E H I W E V L R D V G A V H E R L L P G R V I A G

UniRef90_UPI00032AA085 T V A V E T I V D L P A A R V W E A I A D V G A V H E R L L P G R V I A G

UniRef90_UPI00037B66C2 I R A P L Q T V W S V L R R F D Q P Q L F K P F V I K K

UniRef90_G8SC41 I E I N A P A D K V W A H A G N F A D M S W H P A V I A K

UniRef90_J3MEM7 S I N E D F S V A V P A E L L W K A F A L D A S A M E K A F A G M I D A

UniRef90_C6X9W7 K A D Q I W P K R W F P T L T A

UniRef90_K3ZA52 I E I S A P A K V W A A I S N F Q D M S W L P I V T K

UniRef90_UPI00032A085 I T I A A D P K A V W A V A G K F D G L A A W H P D I A S

UniRef90_UPI0001D2E41F I E V A V S A D R A W R L L G G F D S L P L W I P M I E T S

UniRef90_F8ET17 V E V D A K P A A V W A A I G D F C G I G A W H P A V I A K

UniRef90_Q1YML7 V T E T I E I N A A P A V V W G I I K D F D K G E W M P Q V A S T

UniRef90_Q605A3 V R G T P E K V W G I I G G F N D L P K W H P A I A K S

UniRef90_I3CBU2

UniRef90_UPI0002B4B231 C T V A E D F I T V G C T R D V N V I S G L P A A T S T E R L D I L D D D D R C V |
UniRef90_A0A059CHW6 C S V A D F R L A V G S T R D V I V I S G L P A S T S T E R L D V L D D D E R H V |
UniRef90_S8CDC7 V K F T D G S G G N G T T L E V D Y L L D | D E G K K H |
UniRef90_W9REG3 C D L H E G E G T V G A V I Y W N Y F H G |
UniRef90_B9RS02 Y G L C G T N G E R G C V R Y C K S H L N H N S S W S K E R L V A V D H V E R C |
UniRef90_V4MRH2 | Q V N M K A D R V V N T I K K K E G S F N D K T K S |
UniRef90_UPI00042B27D9 H G I H G T N G E P G C I R F C S G V D K G S E N W A K E R L I A V D H S G R S |
UniRef90_M1ACY6 C R R L E G D G R P G C V R Y C M A A P G E A V G W S R E R L L E V D A A G R S |
UniRef90_F2CRI9 C R A S D D L K I G S L R E V N V K S G L P A T T S T E R L L E V L D D Q E H V |
UniRef90_S8DSC4 C T A V A G D G V P G Y V R L V R F P Q Q A S S S W V R E R L V A M D H A S R S |
UniRef90_C5X6J0 C V V K G N L E I G S L R E V D V K S G L P A T T S T E R L L E L L D D D N D R V |
UniRef90_UPI00032A52DB T V V E G D V R T V T F A G G L V L R E R L I A L D D D D R R V |
UniRef90_Q5Z7A8 C V M R E N I I A T G C I R E V N V Q S G L P A T R S T E R L L E L L D D D N E H I |
UniRef90_X7EAB0 A T E G E G D A T P G A T R V L T L G E E G G P T I S E T L D A R D E A G M S |
UniRef90_W1NYB1 C R L L S H G G T V G A T R E V T V I S G L P A T A S T E R L D I L D D D A G R V |
UniRef90_A5BHR2 Y Q V E G V K G Q P G L I R Y C S S T A A S P D N W V K E K L L T I D P I N H C |
UniRef90_J3L3N0 C R R V E G D G R P G C V R Y C K A E P A A A A G W S R E R L L E L D N P A G R R |
UniRef90_UPI00036DC8F8 D Y E N G K T E G A E R K C M F N A K G S R W S H E R I V M L D N E N M R |
UniRef90_A0A022QD56 C V V H G N L E I G S L R E V D V K S G L P A T T S T E R L L E L L D D D N E H I |
UniRef90_A9SAJ8 C D L V E G D N E V G S V R Y C R G T L P D S W V H E W L V H D N E N Y L |
UniRef90_R0F2B0 C Y R V Q G D G E P G L I R Y C T K T K E E G T S W A K E R L V K I D H I G R C |
UniRef90_M0S9I8 C I V Q D G T G V G S L R E V N I K S G L P A T T S F E R L E H L D D D D E R V |
UniRef90_UPI00034DE434 | Y K E R L E L P D D D N E H V |
UniRef90_M0RKB0 C I L Q G D F A V G C L R E V N I K S G L P A T T S T E R L E Q L D D D N E H I |
UniRef90_UPI00034BCFA5 E P S E G G R L R H L T T A D G G E I V I E R L Q T F D N V A R T |
UniRef90_R4LLB0 A R I I Q G D V R V L T M P D G A Q V K E L I A V D H D I R R |
UniRef90_D8RQ53 C R R I Q G D G D P G C V R L V V G T Q D G Q K S W I T E K L V A M D P S A R S |
UniRef90_B5M1Y8 C V V Q G G D L E I G S V R E V D V K S G L P A T T S M E L L E L L D D D K E H V |
UniRef90_B4FR81 C E M K G N L E I G S V R E V N V K S G L P A T R S T E R L L E L L D D D D E R L |
UniRef90_F6HGL5 L P V E G V S G Q P G C T R Y C A N S G D V I M N W T K Q K L S I D P D E L T |
UniRef90_UPI000467A160 T L S E G G R V R S L T N E E G G V I V I E R L E A F D N Q A R T |
UniRef90_W9RIG9 Y A V H G N N G E P G C I R Y C S S G S I K P S W A K E R V I A V D H D E H T |
UniRef90_C3Z2M4 L V L E E G K D E V G C I R T V R Y D T T S R K E R L E E R D I K H V |
UniRef90_A0A022QU60 C T V Q G G D L Q I G S V R Q V N I K S G L P A T T S T E R L L E L L D D D Q K H I |
UniRef90_B8BMG1 I V V E G N G D A G V G N T Y K T R V A V C D N A A K R V |
UniRef90_C6X789 T E I V E G N N Q V G A V R V I T L P D G G K L K E K L E A Y D A K K H T |
UniRef90_W6VAA1 I E D G Q P D G L V G C I R R L T L Q D G A V L R E K L L A V D E T N L L |
UniRef90_M1D4W6 M F A K T V I E A I D P Q K N S |
UniRef90_UPI0002B492F9 C H Y V E G V G Q P G L V R H C A V T V T P S I K W A K E R L N L I D P I A H T |
UniRef90_UPI00042A59DC T S A Q G G T E K G A T R E L K L K S G G V I K E E L K S Y D A D K M T |
UniRef90_B9FTJ8 C V M R G N V I E T G S V R E I S V Q S G L P A T R S T I E R L E F L D D N E Y I |
UniRef90_D2VP67 L N G R G D N S I G C V R S I S L A G G E E P I R E E L S F D E K N H T |
UniRef90_A0A022PX84 Y G I H G S N G E P G C M R Y C S G S G G L K R E W S K E R L V A I S G A K M T |
UniRef90_A9PIR0 E K I K Y V V E S V D P R S R K |
UniRef90_M5WAN7 L G V E G I S G Q P G C V R Y F K T P V D H K R E W T K Q K L S I D P A R Q I |
UniRef90_F5RH69 S T A T N G S N A G S V R T L K L K G G E L V I E T L E S I D P A A K K |
UniRef90_UPI0004649243 E L L E P A G G Q R M V G A L R T N H I D D G T T V V I E R L V A L S D R D R R |
UniRef90_C4SS20 V I T E G G R V R T L I T A D G G T V I E R L E A F D N R Q R S |
UniRef90_A0A059DKL5 L N I L L E G Q G A V G T I K I T L A G D M G L S L Y R L Q L E V M G K D |
UniRef90_W9S5Q7 E Y C A I V E A I D E K N K T |
UniRef90_F6H356 Y G I H G I N G E P G C I R Y C S E E G E N S V S W S K E K L T A V D P I E R S |
UniRef90_M0Z2U7 V V I A R D N A A R V |
UniRef90_Q1GZE5 T K L D K V D G T E E T V R L L T L K G G G T I L L E N L K S I D E D R K Q |
UniRef90_UPI0003D260C0 Q K K F I K Q V I E A I D P D R K S |
UniRef90_UPI0004788E9D V I E D G G P S D R V G C V R R I I G P G D T V F R E R L T S L D D D E S R T |
UniRef90_Q9SN51 C T M G K G G E G K G S V R D V T L V S G F P A D F S T E R L L E E L D D D E S H V |
UniRef90_W9R6X1 N W T K Q K L L S T D R T R M V |
UniRef90_M0WAF1 C V M Q G N I E P G C V R E V T V K S G L P A K W S I E R L L E L L D D N E H I |
UniRef90_UPI0002D4B5A1 V L I S G S P N E A G A V R E L F I G S D A S V E E L V S I D P A A M T |
UniRef90_F4KJ16 C V V K G N M E I G T V R E V D V K S G L P A T R S T E R L L E L L D D N E H I |
UniRef90_A0A023BTN2 C C E L F D N I R V C R T D Y G T I T E K I L K I D H E H M E |
UniRef90_V7AYC8 C T H V E G S G Q P G C V R Y C A S I V J E E K K W A K E K L L E I D P E Q R V |
UniRef90_Q6EN43 C T M R G S T S A V G C V R E V D F K S G F P A K S S V E R L E I L D D D K E H V |
UniRef90_Q8VZS8 C N V S E D E M R V G C T R D V N V I S G L P A N T S R E R L D L L D D D R R V |
UniRef90_UPI000478A4EF V I T T E G G A K P E F A H R K L L Q G G A A I S E S L T K Y D A D N M S |
UniRef90_B4FX11 C V V R G D L E V G S L R F A V N V K T G L P A T T S T E R L E Q L D D D D H I |
UniRef90_UPI00042B1FF4 L P V E G V S G Q P G C V R F V N G S D E G T V N W T K Q K L L S I D P S E M A |
UniRef90_W4HHQ4 G E G G N E I D A T R V L H L S D Q G A D G P I S E V L Y K Y D D E K M T |
UniRef90_L8BHV3 V S E G G R V R T L T S D G G T V I E R L E A F D N R Q R S |
UniRef90_Y0KJ69 G A E A K V G T V R V L T L Q D G G K I T E E L K A Y D T N K K M |
UniRef90_A0QW52 L D P P G G R R E V G A L R T N H I D D G T V V V I E R L V E L S D R D R R |
UniRef90_UPI0003DE8EA4 L N L V K K Y G G C L F R E K M V K |
UniRef90_W7W476 T Q K G G I R T L T L A G G G G T I V I E K R T A L S D S K M S |
UniRef90_NOCG08 E A S E G G R V R T L T N E D G G V I V I E R L E A F D D A A R T |
UniRef90_UPI0002D62E62 V D R T E A D G D H E R I H I W A T A N G Q A K E W T S H R T L D R E N L T |
UniRef90_K3XRX5 C R L A S G T P R P G C V R Y C E G T P A P P D W A H E T L L E Y D A D R R F |
UniRef90_A9SNA7 V E C A E G G E G V P G C V R K V Q A H N S S F W V A E K L T E I D H D K R F |
UniRef90_V5SGT7 T E G E G G N A V D A T R T L T L Q G G G I H E K L T K F D E A G K V |
UniRef90_UPI00032AA085 Y G I H G S N G E P G C I R Y F S L P T D E N V S W S K E R L V A V D D V D R S |
UniRef90_UPI00037B66C2 T R L E G D Q R F L T F P D G H V I R E L I V A I D D D D R R C |
UniRef90_G8SC41 A E I D G G F R T L T M P N G A R I R E L I A I D H E L R R |
UniRef90_J3MEM7 C V M R G S I E V G S V R E V T V Q S G L P A T R S I E R L D L L D D D N E H I |
UniRef90_C6X9W7 T L L S S G T A N A G A Q R V L V L K D G G T I H E T L T E F D D A N H V |
UniRef90_K3ZA52 V E I K G D G G L G S L R F L M K Y N P A M G K A M V K S R L A V H D H A E L V |
UniRef90_A0A059CV79 C T G V E G V G Q P G C I R Y C A G F N N A P F D W A K E K L L S I D P V A K T |
UniRef90_W1JX3 T E G Q K G N E I G A T R T L T L T G P T V I E E L Y K Y E P D M Q S |
UniRef90_UPI0001D2E41F V K A T G G D A V I G A E R E L T F R K G G V L K E S L D E Y D P A A F K |
UniRef90_F8ET17 V L E E G G R V R H L T A A G G I T I R E R M L T F D E Q A R L |
UniRef90_Q1YML7 C E E A E A D G K T R R T L T L G D G A M I V I E L V A W D D A M S |
UniRef90_Q605A3 I G T G G N E K A T R E L K L K S G G T I K E E L K S Y D A E K M S |
UniRef90_I3CBU2 Q L E I S G D A N S G G I T S R I L T L N V P D N V I V I E Q L L S Q D P E K M T

UniRef90_UPI0002B4B231 T G F S I T G G E H R L R N Y R S V T T V H E M E R D G Q I W T V V L E S Y
UniRef90_A0A059CHW6 A G F S I T G G E H R L R N Y R S V T T V H E M G A G G G G G E I W T A V M E S
UniRef90_S8CDC7 I G Y K V I G G S L L E L Y R N V F L I S T D V E T K D G V D F L T W T L E Y
UniRef90_W9REG3 V I F T V I E G D L L M E H F T N G F L S L F K Q I P K S V S K D L E T H I L L E D
UniRef90_B9RS02 L T Y E I V D S N I G F K S Y V S T V K I V P A G G N G C V I E W S F Q V
UniRef90_V4MRH2 V S F L A L E G D V L K Q Y K S Y K V T L N V V P K D D R V C I A K W T W E Y
UniRef90_UPI00042B27D9 L S Y E I V D S N I G F N S Y V A T V K I V P A G D N G C I I E W S F T V
UniRef90_M1ACY6 I K W K V I E G D L L E L Y N Y C N F T T S C E L Q W T T W T I E Y
UniRef90_F2CRI9 Y S Y E V V E T N K G F G R Y R A T I A V E P D P A G C A V I R W S F E A
UniRef90_S8DSC4 L S V K F I G G D H R L R N Y S S V T T L H P E G E R E T V I
UniRef90_C5X6J0 Y T Y V M E D G N V G L A G S R N T I S L F D Y G Y G A S A T L V V W S F E M
UniRef90_UPI00032A52DB L S I R I I D G D H R L R N Y S S V M
UniRef90_D9QL92 I A Y S I L L S D T F E H H S A S N T V I A E G D R C R F V W V V D F
UniRef90_Q5Z7A8 L K V N F I G G D H M L K N Y S S I
UniRef90_X7EAB0 Y S Y R I T E V D P A V L P V T D Y S S T L A V T A R E D G G A S V T W T G T F
UniRef90_W1NYB1 T G F T I V I G E H R L R N Y R S V T T V N E F G D G R H G G I W T V V L E S Y
UniRef90_A5BHR2 F S Y E V L D N N M G F N S Y V T T F K V I P I N G G G C L I Q W S F V C
UniRef90_J3L3N0 Y S Y E V V E T N K G F G R Y R A T L Q V E P D P A G C A V I A W S F E A
UniRef90_UPI00036DC8F8 M K N L I I D A Q K F P L N L D N S Y A I L Y S V T N N G D G T C T A G Y E F N F
UniRef90_A0A022QD56 L S V R I I G G D H R L R N Y S S V T T V H P
UniRef90_A9SAJ8 L K Y R M E N N R F P E G V Q G Y V S Q I Q F H A A G K G K T S V D W T Y S V
UniRef90_R0F2B0 L S Y E I L E N N V G F G S Y V S T V R V T P V D G D D Q V S R I E W S F V A
UniRef90_M0S9I8 L S I R I V G G D H R L K N Y S S I T
UniRef90_UPI00034DE434 L K Y S L V E A K P S A L N L K S I M T T V E M S A K S Q T E T I V H W S A
UniRef90_M0RKB0 L S I K I V G G D H R L R N Y S S V T
UniRef90_UPI00034BCFA5 Y S Y T I E A S P F P V S A Y L A T L Q I E A L S D A S A K V T W S G V F
UniRef90_R4LLB0 M A Y A V V E G Q R L P L T Y H H A A F Q V F E A G E H S R L V
UniRef90_D8RQ53 F T Y V L E D G D P L S T G Y S T F T V S A S E Q D S A K S R V E W R F E C
UniRef90_B5M1Y8 L R V K F V G G D H R L K N Y S S I V
UniRef90_B4FR81 L S V R F V G G D H R L Q V C
UniRef90_F6HGL5 F S Y S I I D G N V G F N S Y V S T V K V L P T E E G C S I E W R Y E V
UniRef90_UPI000467A160 Y S Y S I V Q A P F P V T G Y R S T L T V H E K P G G Q C R V I E W S G T F
UniRef90_W9RIG9 L T Y E I L E N N M G F E S Y V A T V K I V P G G D E D C V I E W S F A V
UniRef90_C3Z2M4 M V Y S L L P G T M H P H I F K T Y S E V T M V T M S S E G N S E T E V K F E C
UniRef90_A0A022QU60 L G V K F V G G D H R L K N Y S S I T V H P E I M E G R Q G T V V
UniRef90_B8BMG1 L K S E V L E A E S K V G K L K S H S T E T K L E G T G D G S C V A K L K V E Y
UniRef90_C6X789 Y S Y T L L E G V L P V S N Y H S T Y T V H A I G A N K T K V T W K G T F
UniRef90_W6VAA1 F S Y R F E E A P L P V D N Y V A I V K L L P T G E N K T V V L W S A S F
UniRef90_M1D4W6 I T W N A T I E G N L L D L Y N S F V V T S S E H Q W I T Y A L V V
UniRef90_UPI0002B492F9 L T Y E V L D N N M G F K S Y V A T M K L L Q G S G G C K F V W S F V A
UniRef90_UPI00042A59DC M Q Y K I T E V D P K D L P V A N Y S S T I K V E P N P A G G S K V E W S G A F
UniRef90_B9FTJ8 L R V K F I G G D H M L K V I E S F V V D I P E E N T K E D I C F V K N L L R C
UniRef90_D2VP67 Y S Y T I L D G P L P F K N Y K H Y Y S T I T L R E T E S N T F I E W K S E F
UniRef90_A0A022PX84 F T Y E I V D C N I G F E S Y V S T V T V P G G G G C T V R W R T S L
UniRef90_A9PIR0 I T Y K V L E G A L L Q Q Y E S F S V T L Q V V T S S S T A K W T L N Y
UniRef90_M5WAN7 F S Y S I I D G N V G F N S Y I S T V Q V P K E G G C S I V W K Y E V
UniRef90_F5RH69 F S Y R A K D G G A L P V T N Y S N L T V K P G D G G T S V V E W R G A F
UniRef90_UPI0004649243 V T Y D V V I G G D A P V R N Y T A T L T V H E S D E D S S L V T W A S S F
UniRef90_C4SS20 Y S Y S I I Q A P I V D Y L S T I S V H T T A D N S I T R V E W T G S F
UniRef90_A0A059DKL5 V R N K A I E G A R D K Q E T G Q Q L Q A I D K A D G G S S I V K T T V E Y
UniRef90_W9S5Q7 L T Y E L V D C N I G K E Y V S T V K I T P C G E S G C E I D W W I N V
UniRef90_F6H356 I K T E M L E G G K V S G Q L K S Q V V Q M K L E V A R G G A C V A K L T V E Y
UniRef90_M0Z2U7 L K Y G I E G A L P V S D Y S T I T V K E A E G G K T E V K W M G R Y
UniRef90_Q1GZE5 I T W K V I E G D V L E L Y N F F T V I L S C E Y E W T T W T L E Y
UniRef90_UPI0003D260C0 Y R Y E I L E C P L P V R R C R A A L R V V P V I T M T G E A F V E W S A D F
UniRef90_UPI0004788E9D M V S I I G G N H R L V N Y K S K T K V V A S P E D M
UniRef90_Q9SN51 F S Y S I V D G N V G F H S Y V S T V K V A P T E E G G C S I K W W Y E V
UniRef90_W9R6X1 L R V K F I D G N H P L K N Y S S I T V H H E V I D G H P G A L V
UniRef90_M0WAF1 L K Y K I V K E N D H R L P V T H Y Q S T I S V V A K G D S A S E V T W S G E F
UniRef90_UPI0002D4B5A1 L S I R I V G G D V D L L K N E S K G S F S V S E S K
UniRef90_F4KJ16 F K F V F L E Q D M I P N I E H L T T Y V K T I S D I H G K A L V N Y K W T F
UniRef90_A0A023BTN2 L T Y E V V E S N I G F K S Y V A T L K V L P I G Q D G S K I E W S F V C
UniRef90_V7AYC8 F G V R I I G G D H R L K N Y S S I T V H H E V I D G H P G A L V
UniRef90_Q6EN43 T G F S I T G G E H R L R N Y K S V T T V H R F E K E E E E R I W T V V L E S
UniRef90_Q8VZS8 Y S Y R I I D D V G D H R V L P V T N Y S S T I T V I E P V E G N K S K V I E W R G A F
UniRef90_UPI000478A4EF L G V K F V G G D H R L
UniRef90_B4FX11 F S Y S I V D G N V I G F N G Y V S T V K V L P K E A G C D I D W K Y E V
UniRef90_UPI00042B1FF4 Y S Y R I T D V D V E V L P V T N Y S S H I L T V K P L D G G S L V E W R G A F
UniRef90_W4HHQ4 Y S Y S I I I Q A P F P V V D Y L S T I A V V A T A D N I T R V E W S G S F
UniRef90_L8BHV3 F T Y R I I E G V L P V S H Y I S T V Q V T S L A S N K T L V T W V G H F
UniRef90_Y0KJ69 V T Y D V I I G G D A P V K N Y T A T I T V H E I S D Q E C F V T W T A S F
UniRef90_A0QW52 I T F N F F D G E I S K N Y K T Y K I H L Q V V D K E E G G A V T W T M E Y
UniRef90_UPI0003DE8EA4 Y S Y V I Q S G P L P V Q Q Y A S T L T V M T G A A G K S I V S W T G T F
UniRef90_W7W476 Y S Y S I I L Q A P F P V T G Y L S T I A V H A G E G P G S A V E W S G T F
UniRef90_N0CG08 I T F R Q E I P A A P V K H M G G T W I J E P L G A D D R S R V R L L H D Y
UniRef90_UPI0002D62E62 F R Y E M N D N N M G F G L F F A T F R V V P A P A G A G C E L R W E F E C
UniRef90_K3XRX5 L T Y D L V I G G N T G I E I G Y R A A F Q V I D E G E S R T R V V P F M F
UniRef90_A9SNA7 Y N Y V I T E V D V K V L P V E N Y S R I T V G D G E K S E V E W W G A F
UniRef90_V5SGT7 I K Y E I V D C N I G F K S Y E S T M R V I S D D D G G C M I E W F F A V
UniRef90_UPI00032AA085 L A Y S V V E G A R P A L D H H H A S F E V R P E G D E A G R L I W T T N
UniRef90_UPI00037B66C2 F A Y A V V E G Q G L P L T Y H Q A A F Q V F E V E D Q A R I V W T
UniRef90_G8SC41 L H V R F I G G D H M L K
UniRef90_J3MEM7 L K Y T I T E S V L P L R E Y D S T L Q V I Q A V G E G K T K V T W K S M F
UniRef90_C6X9W7 V S F
UniRef90_K3ZA52 L S Y T I I D S N I R F N S Y V A T G R V V P K E E G C C I M W R Y E V
UniRef90_UPI0002D62E62 Y S Y R I T K V D V K V L P V T N Y S S T L T V S P A P D G K A D L E W A G A F
UniRef90_UPI0001D2E41F Y S Y R M A D P N L D V L P I S S Y S V T F I K P A A G G S K D V Q W Y G R L
UniRef90_F8ET17 Y T Y A Y V I E G P D P V K N Y I G K V S V E A K T S D S C V I S W G S R F
UniRef90_Q1YML7 Y T Y T A V I E G P L P V D N Y E S T I T V T E A G E S Q I S W T G S F
UniRef90_Q605A3 Y S Y K I T E V D P K D L P V A N Y S S T I S V T P A G A G S V V E W N G A F
UniRef90_I3CBU2 Y S Y A I T K T V P E V L P V Q N Y M S T I S V V P V D K N Q S Q V I W E G S F

UniRef90_UPI0002B4B231 I V D V P E G N T E E 130 140 150
UniRef90_A0A059CHW6 Y V V D V P E G N T E E E D T R L F A D T F V K
UniRef90_S8CDC7 E L L V P E N P H P V S I I N F W L E F T K E F E A H H L A
UniRef90_W9REG3 H V F G K L E T D V E I K A S P S K F H H M F R
UniRef90_B9RS02 D P V K G Y V L D D L I K K Y E R A L Q V I G K R M E D
UniRef90_V4MRH2 E K L N D D V P P
UniRef90_UPI00042B27D9 D P V E G W E L E D M K Q K F Q V G L Q G Q A K R M E D
UniRef90_M1ACY6 E K K T E D T P E P L L H L G V I L A M T K D I E N H L L
UniRef90_F2CRI9 D P V K G W T L G G F L G F L E K L A H G V A K R L E E
UniRef90_S8DSC4 E P V D G A N Q D
UniRef90_C5X6J0
UniRef90_UPI00032A52DB L P D G P K D R I E A M M N A G A D A I R A
UniRef90_D9QL92
UniRef90_Q5Z7A8 E P S E G A S D E D A V G A G L D A L T E R F G A A E
UniRef90_X7EAB0 V V D V P E G N T E E
UniRef90_W1NYB1 D P V Q G W R Y E D L A S Y I D S S L Q F M A K K M E E T L
UniRef90_A5BHR2 D P V R G W T L E G F V G F L E E L A R G V A K R L E E E I M T Q D D A
UniRef90_J3L3N0 R T A P A F M G G L V V G S F K K S L N E T L I G L E H Y L L
UniRef90_UPI00036DC8F8
UniRef90_A0A022QD56 Q P V A T Q T Y E Q F P N F M T G F Y L
UniRef90_A9SAJ8 D P V D G W K K E D L D S Y V D F C L H M A K K M E
UniRef90_R0F2B0
UniRef90_M0S9I8 E L D V G Q V F A G Q I V I A Q E K A Y K E A I A F L D A H
UniRef90_UPI00034DE434
UniRef90_M0RKB0 T P V E G V T D A A V E E L F A G V Y K D V E A L R A N
UniRef90_UPI00034BCFA5
UniRef90_R4LLB0 E T K N S R E I I E F M E A V F A K N I A
UniRef90_D8RQ53
UniRef90_B5M1Y8
UniRef90_B4FR81
UniRef90_F6HGL5 E P V E G W T L G D L D S F I G S G L Q V M A K R M E A A L K A
UniRef90_UPI000467A160 T T T G Q E A I A L F H G I Y T E G L A A L K K T L E A
UniRef90_W9RIG9 D P I E G W A L D D M E R Q Y D E W L H H I A D K M E A S L V
UniRef90_C3Z2M4 F L D G K P R Y P L N I E K E S R N S L Y R G V
UniRef90_UPI00022QU60
UniRef90_B8BMG1 E L A D G S S L S P E Q E K T A T S A
UniRef90_C6X789 N A A G A S N A D
UniRef90_W6VAA1 D T R D P D P Q G E Q T A V I Q S L I V G G H E S L Q R Y L
UniRef90_M1D4W6 E K K T E D T P E P L A I L D Y C L G V I K D V E G H L L K N
UniRef90_UPI0002B492F9 D P I E G W P L E F V K Y L D S G L H Q M V N K M A D F L K K S P
UniRef90_UPI00042A59DC Y M N N N P P D Q N D E A A V N A V T K I Y K E G L A N L K A
UniRef90_B9FTJ8 N L R T L A D V I S E E S L A S
UniRef90_D2VP67 F C P L G E H D S A K P I V E G V Y
UniRef90_A0A022PX84 D P V V G W N L E D L V G R Y E L G L Q R M L K K M E A
UniRef90_A9PIR0 Q K K D P A T E N P D F Y L Q L L P T V N A T V D I Y L R S N
UniRef90_M5WAN7 E P V E G W K M E D L D M F I G T G L Q V M A S R M E A S L
UniRef90_F5RH69 Y R K N D P P K G E D D E A A L T A V T G V Y K
UniRef90_UPI0004649243 D A I G E A D P
UniRef90_C4SS20 T P V G V S D S E A E
UniRef90_A0A059DKL5 E V T D E A S V D V I S L I S V K L F A D I A K V I K K R L
UniRef90_W9S5Q7 E K K N E A V P D P T A Y F D F A A A L Y K T M D A H L V N N
UniRef90_F6H356 D P V K G W V M E D L V K K F E V G L A R V A R R M E E A L
UniRef90_M0Z2U7 E R L D G A L S A E D Q A T F A A G Y L D L L K M V E A Y
UniRef90_Q1GZE5 K L N P P I P P G Q D D K S A L D A I N G V Y D A
UniRef90_UPI0003D260C0 E K K T E D I S E P L I Q L G L L D L T K D I E R H L L
UniRef90_UPI0004788E9D S A N A D D E E A M A K T L T V G I Y
UniRef90_Q9SN51
UniRef90_W9R6X1 E P V E G W K P Q D F I G K G L Q M A T R M E E A L Q A Y V
UniRef90_M0WAF1
UniRef90_UPI0002D4B5A1 F R G F P E S D P P P Y L T D D A A V
UniRef90_F4KJ16
UniRef90_A0A023BTN2 D A I D D V I S E S Q A K E V L K G M G E M G I K S L E A Y I L S N
UniRef90_V7AYC8 D P V E G W S F Q D L N S Y I E S S V E F M A K K I V L A H
UniRef90_Q6EN43
UniRef90_Q8VZS8 Y V V D
UniRef90_UPI000478A4EF Y R G D P N D N P P P
UniRef90_B4FX11
UniRef90_UPI00042B1FF4 E P V K G W T L K D L D F F I A S G L Q V M A Q R M E A A L
UniRef90_W4HHQ4 Y R Y P N N D P P E E L E A A V A A V T G I Y E A
UniRef90_L8BHV3 T P V N V S D A D A E
UniRef90_Y0KJ69 Q R K D
UniRef90_A0QW52 D V I G D A D
UniRef90_UPI0003DE8EA4 E K Q N E D I A P P Y P Y L D I V T A A T K S I D A H
UniRef90_W7W476 N A K G A P D D K A K E V I Q G V Y D A G L A R V A A N
UniRef90_N0CG08 T P D G I G D D E A T G L F Q G I
UniRef90_UPI0002D62E62 S A I G D D P H D
UniRef90_K3XRX5 E P V R G T P R E A L V A R L Q A G L D G M A A R V R D H V L A
UniRef90_A9SNA7 S P E Q V S V E S L I S V V K K K F L
UniRef90_V5SGT7 Y R G F M N N D P P E L S D E A A V K A I
UniRef90_UPI00032AA085 D P V E G L V L E D L V S K Y R I G L Q L M A H K M E E
UniRef90_UPI00037B66C2 V L P H S R A A E I R V R M E H G A W E M K Q A I E A
UniRef90_G8SC41
UniRef90_J3MEM7
UniRef90_C6X9W7 K R K D P A H E P E D D K T A R D T V T S I Y Q
UniRef90_UPI00032A52DB
UniRef90_UPI0001D2E41F E P V N G W K H E D L D Q W F E S A L Q V M A R S M E K A L L
UniRef90_W1JIX3 Y P N N D P P P E L S D E A A T K A V S G L Y K A
UniRef90_UPI0001D2E41F Y R G D T G N E P P E
UniRef90_F8ET17 E P A G
UniRef90_Q1YML7 D A K G A T D A E A E
UniRef90_Q605A3 Y M N N N P P P E E N D E A A L K A V T S V Y K E
UniRef90_I3CBU2 S A L P N T D P A K A K E I V E N V Y

```

UniRef90_A5V3K9      1  I T V E K A T R V A A T A D R L W H L L S S R E G Q 30  C R L E R G L V A S
UniRef90_E2CL73     K V T V T K E I A A P A E V W A R V G N F Q D M S W H P A V H S
UniRef90_UPI000415FADE  T T E K I E I N A P P E K V W A A A A D F H D L S W L P G V A K T
UniRef90_V7C433
UniRef90_M4EBZ0      S T L V K H L K A P L H L V W S L V R R F D Q P Q K Y K P F I S G
UniRef90_B6BUS5      V K I A A S P D K V W E V V K D F D N A N K W L P F V S D
UniRef90_Q8H940      P E Q A W T L L K D F I N L H K I M P S L S V
UniRef90_R4SQZ1      S I N N E I M V E S S A E A V W K V I G D F S T G P S R M A P G F V I E D
UniRef90_A2SEB1      G A I S F S R D V T I D R S P A T V W K Y V G D F N A T D L W H P S V R N
UniRef90_UPI000362A667 I E I A A P P A A V W A L M G D F V N I P K W N P L V A D S
UniRef90_UPI000366512A I T I P A S P E R V W Q L I G G F N A L P D W L P Y I P S S
UniRef90_I1HR40      P D Q A W A L L R D F C S L D K W V P S V R T
UniRef90_UPI000312A441 I T L P V A P D R V W Q L I G G F D S L P D W L P Y I P K S
UniRef90_UPI0002379793 V I E A S A E Q V W Q A V R D F N G L P T W H P A I E R S
UniRef90_A2SEB2      G A L S V E R E V T I L D T S P A T V W K L V G N F N A I D V W H P A V L K S

```



