

QUERY
UniRef90_B7JB30
UniRef90_Q8ME68
UniRef90_O98427
UniRef90_B2BY98
UniRef90_W4NF37
UniRef90_I6NJK0
UniRef90_D7BIR5
UniRef90_Q48952
UniRef90_R7XYT9
UniRef90_UP10002EDF0C7
UniRef90_Q9TIC8
UniRef90_K3Z2S7
UniRef90_B0FIY0
UniRef90_Q85ZK1
UniRef90_D5FFV0
UniRef90_Q8MBZ6
UniRef90_Q9TKM8
UniRef90_G9B6J2
UniRef90_Q85ZK8
UniRef90_G8IVV9
UniRef90_Q9MT11
UniRef90_Q9MT07
UniRef90_Q8WJA7
UniRef90_Q9XPY0
UniRef90_C7DTK7
UniRef90_S6DF14
UniRef90_Q9GG55
UniRef90_Q71N76
UniRef90_B6CJW4
UniRef90_Q29U57
UniRef90_B3SV61
UniRef90_O03124
UniRef90_Q8HSM6
UniRef90_Q9MSZ2
UniRef90_T1BQ18
UniRef90_E1CBU8
UniRef90_Q49P15
UniRef90_B6RIS4
UniRef90_Q8GIC5
UniRef90_Q71N62
UniRef90_D0ETE6
UniRef90_Q29Z81
UniRef90_Q36661
UniRef90_C7IXC7
UniRef90_Q4QSS8
UniRef90_Q6QE43
UniRef90_Q5J6H8
UniRef90_J7F859
UniRef90_Q95GX0
UniRef90_Q9MT16
UniRef90_Q6YZZ5
UniRef90_I1SZM9
UniRef90_S5JU64
UniRef90_B5LZZ4
UniRef90_G3KEU8
UniRef90_F1D875
UniRef90_Q32298
UniRef90_A1E8T2
UniRef90_O03635
UniRef90_F4NB49
UniRef90_O46984
UniRef90_Q36841
UniRef90_D0ETE7
UniRef90_G3KEU6
UniRef90_S4S856
UniRef90_C5NT28
UniRef90_I6Q9L8
UniRef90_C9DSA3
UniRef90_Q9LBP9
UniRef90_Q8HUN5
UniRef90_Q8MCY2
UniRef90_A0A024B822
UniRef90_Q36628
UniRef90_U5JE0
UniRef90_G3CET5
UniRef90_Q32627
UniRef90_Q4V182
UniRef90_A2T239
UniRef90_L7QI76
UniRef90_Q9GE55
UniRef90_A6YF66
UniRef90_Q8PXG9
UniRef90_C5NSZ2
UniRef90_I6QQF6
UniRef90_A8CCW5
UniRef90_A8Y805
UniRef90_L0L1E0
UniRef90_Q31790
UniRef90_A8CCW2
UniRef90_W5GR15
UniRef90_E2I6Y7

1 10 20 30 40

P	P	H	G	[Q]V	E	R	D	K	[L]	N	K	Y	G	R	P	[L]	G	C	T	[I]	K	P	K	[L]	G	S	A	K	N	Y	G	R	A	C	Y		
P	P	H	G	[Q]V	E	R	D	K	M	N	K	Y	G	R	P	M	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	T	G	[V]V	E	R	E	R	L	D	K	Y	G	R	P	L	L	G	A	T	V	K	P	K	L	G	S	G	K	N	Y	G	R	V	V	Y	
P	P	H	G	[Q]V	E	R	D	R	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	H	G	[P]V	E	R	D	L	L	N	K	Y	G	R	P	L	L	G	A	T	V	K	P	K	L	G	S	G	R	N	Y	G	R	V	V	Y		
P	A	T	G	V	V	E	R	E	R	L	D	K	F	G	R	P	L	L	G	A	T	V	K	P	K	L	G	S	G	R	N	Y	G	R	V	V	Y
P	A	H	G	V	V	E	R	E	R	M	D	K	F	G	R	P	F	L	G	A	T	V	K	P	K	L	G	S	A	R	N	Y	G	R	V	V	Y
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	S	S	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R	P	L	L	G	C	T	[I]	K	P	K	L	G	S	A	K	N	Y	G	R	A	V	Y	
P	P	H	G	[Q]V	E	R	D	K	L	N	K	Y	G	R</td																							

290 300 310 320

QUERY	R N E G R D [A R E G N E I I R S A C K W S P E L A A A C E I W K A [K F E F E
UniRef90_B7JB30	R N E G R D L E R E G K D I L T N A A K D S P E L K I A L E T W K E I K F E F D
UniRef90_Q8ME68	R N E G R D L A R E G N E V I R E A C K W S P E L A A A C E V W K E I K F E F E
UniRef90_O98427	R N E G R D L P R E G N E I I R E A A K W S A E L A A A C E V W K E I R F E Y Q
UniRef90_B2BY98	R N E G R D L A R Q G N E I I R E A S K W S P E L A A A C E V W K E I K F E F E
UniRef90_W4NF37	R N E G R D I A S E G P D L L E A A A R H C T P L K Q A L D T W G D I T F N Y T
UniRef90_I6NJK0	R N E G R D L S R E G G D V I R E A C K W S P E L A A A C E V W K E I K F E F E
UniRef90_D7BIR5	R N E G R D I L N E G P S I L K Q A A Q H S P A L L A A A C E V W K E I T F D Y T
UniRef90_Q48952	R N E G R D I V N E G P E I L Q E A A R S C T P L Q Q A L E T W K D V T F N Y T
UniRef90_R7XYT9	R N E G K D L L R E G A D V L R N A A K T C Q P L E A A L S T W G D V T F D Y T
UniRef90_UP10002EDF0C7	R N E G R D I L N E G P E I L Q K A A R L S P S L Q Q A L D V W K D V T F N Y E
UniRef90_Q9TIC8	R N R G R D L A R E G N E I I R E A G Q W S N E L S A A C A V W K E I K F E F P
UniRef90_K3Z2S7	R N E G R D L A R E G N E I I K A A C K W S P E L A A A C E V W K E I K F E F E
UniRef90_B0FIY0	R N E G R N L A Q D G N S I I R Q A G Q W S P E L A A A C E V W K E I K F E F Q
UniRef90_Q85ZK1	R N E G R D L A R E G N E I I R K A V K W S P E L A A A C E V W K E I K F E F Q
UniRef90_D5FFV0	R N E G R D Y V A E G P Q I L Q D A A K T C G P L Q T A L D L W K D I T F N Y T
UniRef90_Q8MBZ6	R N E G R D Y V A E G P E I L Q D A A K M C G P L Q T A L D L W K G I S F N Y A
UniRef90_Q9TKM8	K N E G R D Y L K E G V E I L K T A S K D C R P L Q T A L D L W K A I T F N Y A
UniRef90_G9B6J2	R N E G R D Y V N E G P Q I L R D A A K T C G P L Q T A L D L W K D I S F N Y T
UniRef90_Q85ZK8	R N E G R D L A R E G N E I I R K A A K W S H E L A T A C E V W K E I K F E L Q
UniRef90_G8IVV9	R N E G R D L A X E G N E V I R E A C K W S P E L A A A C E I W K E I K F E F D
UniRef90_Q9MT11	H N E
UniRef90_Q9MT07	R N E G R D L A R E S N E I I R E T C K W S P E L A A A C E I W
UniRef90_Q8WJA7	R N E G R D Y V G E G P E I L R N A A S T C G P L K A A L D L W K D I T F D Y T
UniRef90_Q9XPY0	R N E G R D L A R E G N E I I R E A S K W S G E L A A A C E V W K E I K F E F E
UniRef90_C7DTK7	R N E G R D L A R E G N E I I R E A S K W S G E L A A A C E V W K E I K F E F E
UniRef90_S6DF14	R N Q G V G H
UniRef90_Q9GG55	R N E G X D L A R E G N E I I R E A S K W S P V L A A A C E V W K E M K F
UniRef90_Q71N76	R N E G R D L A R E G N E I I I R E A X Q W S H E L
UniRef90_B6CJW4	R N E G R D P A R D G N E V I R E A S K
UniRef90_Q29U57	R X E G R
UniRef90_B3SV61	R N E Q R D Y V A E G P Q I L R D A A K T C G P L Q T A L D L W K D I T F N Y T
UniRef90_O03124	R N E G R D L A R Q G N E I I I R E A A K W S P E L A A A C E
UniRef90_Q8HSM6	R N E G R E Y I S E G P Q I L R D A A K T C G P L Q T A L D L W K D I T F N
UniRef90_Q9MSZ2	R T E G R D L A R E
UniRef90_T1BQ18	
UniRef90_E1CBU8	
UniRef90_Q49P15	R N E G R D Y L N E G P Q I L R D A A K M C G P L K T A L D L W K D I T F D Y T
UniRef90_B6RIS4	R N E G R N Y V A E G P Q I L R D A A K T C G P L Q T A L D L W K D I S F N Y T
UniRef90_Q8GIC5	
UniRef90_Q71N62	R N E G R X L A R X G X X X R X A X Q W S X E L S X D X S X W K E I X L E F P
UniRef90_D0ETE6	
UniRef90_Q29Z81	R N E G R D V E R E G K D I L A Q A A K S S P E L Q V A M E T W K E I K F E
UniRef90_Q36661	R N E X X X X V T E G P Q I L Q D A A K T C G P L Q T A L D L W K D I S F N Y T
UniRef90_C7IXC7	R N E G R D L A R E G N E I I I R S A C K W S P E L A A A C E I W K A I K F E F E
UniRef90_Q4QSS8	R N E G R D L A R E G N E I I I R E A C K W S P E L A A A C E V W K E I K F E F E
UniRef90_Q6QE43	R N E G R D L A R E G H E I I I R E A C K K
UniRef90_Q5J6H8	R N E G R D L A R E G N E V I R E A C K W S P E L A A A C E I W K E I K F E F D
UniRef90_J7F859	R N E G R N Y V A E G P Q I L R D A A K T C G P L Q T A L D L W K D I S F N Y T
UniRef90_Q95GX0	R N E G R D Y V T E G P Q I L R D A A K T C G P L Q T A L D L W K D I T F N Y T
UniRef90_Q9MT16	R N E G R D L A R E G N E I I I R E A C K W S
UniRef90_Q6YZZ5	
UniRef90_I1SZM9	
UniRef90_S5JU64	R N E G K D I V N E G P G I L K K A A Q F C T P L K Q A L D T W G D I T F N Y T
UniRef90_B5LZZ4	R N E G R N I A T E G P E I L R A A A R W C K P L E A A L D T W G N I S F N Y T
UniRef90_G3KEU8	R N E G R D Y L A E G P E I L N K A A K W C S P L R V A L D L W K D I T F N Y T
UniRef90_F1D875	R N E G R
UniRef90_Q32298	R N E G R D Y V A E G P Q I L Q D A A K T C G P L Q T A L D L W K D I T F N Y T
UniRef90_A1E8T2	
UniRef90_O03635	R N E G R D L A T E G N A I I I R K A C K W S T E L A A A C E V W K E I K F E F A
UniRef90_F4NB49	R N E G R D I R N D G P A I L R Q A A T F C T P L K Q A L D T W G E I S F N Y T
UniRef90_O46984	R N E G R D Y L E E G P Q I L R D T A K M C G P L Q T A L D L W K D I S F N Y A
UniRef90_Q36841	X X X X X X X A E G P Q I L R E A A K T C G P L Q T A L D L W K D N T F N Y T
UniRef90_D0ETE7	
UniRef90_G3KEU6	R N E G R D I A N E G P Q I L R Q A A L W C A P L A Q A L E V W K D V T F N Y T
UniRef90_S4S856	
UniRef90_C5NT28	R N E G R N L A R E G N D V I R E A C R W S P E L A A A C E L
UniRef90_I6Q9L8	R N E G R D I M A E G P D I L K A A A K S C K P L E T A L E T W K G V E F N Y T
UniRef90_C9DSA3	R N E G R D Y V G E G P E I L R V A A A T C N P L K T
UniRef90_Q9LBP9	R N M G R E L E K E G K D I L K S A A K H S P E L A A M E T W K E I K F E M D
UniRef90_Q8HUN5	
UniRef90_Q8MCY2	R N E G R D L A R E G N E I I I R E A C K W S P E L A A A C E V W K E I K F E F D
UniRef90_A0A024B822	R N E G R D Y V A E G P Q I L Q D A A K T C G P L Q T A L D L W K D I T F N Y T
UniRef90_Q36628	R N E X R D Y V N E G P Q I L Q D A A K T C G P L Q T A L D L W K D I S F N Y
UniRef90_U5JE0	R N S G A D F F S N G P K I L A D A G K M C A P
UniRef90_G3CET5	R
UniRef90_Q32627	
UniRef90_Q4VI82	
UniRef90_A2T239	R N E G R D Y V N E G P Q I
UniRef90_L7QI76	
UniRef90_Q9GE55	
UniRef90_A6YF66	
UniRef90_Q8PXG9	
UniRef90_C5NSZ2	R N E G R D I S Q D Y A K N H K E L E T A L G K W
UniRef90_I6QQF6	R N S G R E L E K E G K D I L T K A A A S S P E L K I A M E T
UniRef90_A8CCW5	
UniRef90_A8Y805	R N E G R D I A N E G P Q I L R D A A K W C S P L A A A L D T W G D I T
UniRef90_L0L1E0	R N E G R D Y L R E G P Q I L E A A A R C C S P L K G A L G A W K D V T F N Y T
UniRef90_Q31790	R N E G R D Y V A E G P Q I L Q D A A K T C G P L Q T A L D L W K D I T F N Y T
UniRef90_A8CCW2	
UniRef90_W5GR15	R N E G R D L A R E
UniRef90_E2I6Y7	

QUERY	P [V D K L]
UniRef90_B7JB30	T [V D K L]
UniRef90_Q8ME68	A M D T [L]
UniRef90_O98427	P [V D]
UniRef90_B2BY98	A M D T [L]
UniRef90_W4NF37	P T D T
UniRef90_I6NJK0	T [I D K L]
UniRef90_D7BIR5	S T D T
UniRef90_Q48952	S T D S
UniRef90_R7XYT9	S T D
UniRef90_UPI0002EDF0C7	S T D T
UniRef90_Q9TIC8	A M D T [L]
UniRef90_K3Z2S7	A M D T [L]
UniRef90_B0FIY0	
UniRef90_Q85ZK1	A M D T [L]
UniRef90_D5FFV0	S T D T
UniRef90_Q8MBZ6	S T D T
UniRef90_Q9TKM8	S T D T [L]
UniRef90_G9B6J2	S T D T
UniRef90_Q85ZK8	A M D T [L]
UniRef90_G8IVV9	X [I D X L]
UniRef90_Q9MT11	
UniRef90_Q9MT07	
UniRef90_Q8WJA7	
UniRef90_Q9XPY0	S T D T
UniRef90_C7DTK7	
UniRef90_S6DF14	
UniRef90_Q9GG55	
UniRef90_Q71N76	
UniRef90_B6CJW4	
UniRef90_Q29U57	
UniRef90_B3SV61	S T D T
UniRef90_O03124	
UniRef90_Q8HSM6	
UniRef90_Q9MSZ2	
UniRef90_T1BQ18	
UniRef90_E1CBU8	
UniRef90_Q49P15	S
UniRef90_B6RIS4	S T D T
UniRef90_Q8GIC5	
UniRef90_Q71N62	P [L V T]
UniRef90_D0ETE6	
UniRef90_Q29Z81	
UniRef90_Q36661	S T D T
UniRef90_C7IXC7	P [V D K L]
UniRef90_Q4QSS8	A M D T [L]
UniRef90_Q6QE43	
UniRef90_Q5J6H8	V [I D R L]
UniRef90_J7F859	S T D T
UniRef90_Q95GX0	S T D T
UniRef90_Q9MT16	
UniRef90_Q6YZZ5	
UniRef90_I1SZM9	P T
UniRef90_S5JU64	P T
UniRef90_B5LZZ4	P T
UniRef90_G3KEU8	
UniRef90_F1D875	
UniRef90_Q32298	S T D T
UniRef90_A1E8T2	
UniRef90_O03635	A X D T [L]
UniRef90_F4NB49	P T
UniRef90_O46984	S T D T
UniRef90_Q36841	S T D T
UniRef90_D0ETE7	P T E
UniRef90_G3KEU6	
UniRef90_S4S856	P T
UniRef90_C5NT28	
UniRef90_I6Q9L8	
UniRef90_C9DSA3	
UniRef90_Q9LBP9	S
UniRef90_Q8HUN5	
UniRef90_Q8MCY2	
UniRef90_A0A024B822	S T D T
UniRef90_Q36628	
UniRef90_U5JEJ0	
UniRef90_G3CET5	
UniRef90_Q32627	
UniRef90_Q4V182	
UniRef90_A2T239	
UniRef90_L7QI76	
UniRef90_Q9GE55	
UniRef90_A6YF66	
UniRef90_Q8PXG9	
UniRef90_C5NSZ2	
UniRef90_I6QQF6	
UniRef90_A8CCW5	
UniRef90_A8Y805	
UniRef90_L0L1E0	P T E
UniRef90_Q31790	S T D T
UniRef90_A8CCW2	
UniRef90_W5GR15	
UniRef90_E2I6Y7	

UniRef90_O46972 1 10 20 30 K P K L G F T G K N Y G R V V Y

UniRef90_F5B8Z7

UniRef90_B5SW42

UniRef90_L0N864

UniRef90_O46968

UniRef90_Q58632

UniRef90_B6CWX9

UniRef90_A4GGX0

UniRef90_Q29Z69

UniRef90_Q78531

UniRef90_Q8MDV4

UniRef90_S528V0

UniRef90_A5X4E8

UniRef90_A3F4N2

UniRef90_NOBMV6

UniRef90_Q31862

UniRef90_B6RID4

UniRef90_D2REY6

UniRef90_G3EJ5

UniRef90_B51GK0

UniRef90_UP100034DDFC4

UniRef90_Q93A92

UniRef90_Q8H980

UniRef90_Q29Z92

UniRef90_L0L0G3

UniRef90_F8AF48

UniRef90_E0WMP2

UniRef90_H9AXK6

UniRef90_D5U228

UniRef90_N6ZDS5

UniRef90_Q32593

UniRef90_E7BJG4

UniRef90_Q36825

UniRef90_M1E6K1

UniRef90_L0N854

UniRef90_Q28635

UniRef90_C5H391

UniRef90_Q3ZTM2

UniRef90_W016Q3

UniRef90_Q29Z96

UniRef90_I0JU35

UniRef90_C7AQ55

UniRef90_W5RG27

UniRef90_Q78526

UniRef90_A3F4N4

UniRef90_S6CME1

UniRef90_Q29Z63

UniRef90_Q6L5W7

UniRef90_B6RID0

UniRef90_C1JFJ9

UniRef90_C6FFX9

UniRef90_Q32260

UniRef90_Q8WK40

UniRef90_Q29Z84

UniRef90_R4ITK6

UniRef90_S6DLT3

UniRef90_G3EJJ8

UniRef90_H81700

UniRef90_E0WH92

UniRef90_H1Z445

UniRef90_S2KHX8

UniRef90_Q946N3

UniRef90_O46976

UniRef90_UP100037238A6

UniRef90_K4LCF4

UniRef90_V7AWJ9

UniRef90_C3MI92

UniRef90_A3CV55

UniRef90_W2E2Y0

UniRef90_E6MJM2

UniRef90_H8XBR9

UniRef90_UP10004689AF5

UniRef90_A717B2

UniRef90_W5UGA7

UniRef90_Q2FSY4

UniRef90_UP100046ED4B5

UniRef90_A0B9K9

UniRef90_B9KXE5

UniRef90_O46970

UniRef90_C5H378

UniRef90_Q4QST2

UniRef90_C5H372

UniRef90_M1ZKA3

UniRef90_D3SZI3

UniRef90_UP1000369EF47

UniRef90_UP1000364E063

UniRef90_UP100036C978B

UniRef90_C9R9G7

UniRef90_UP1000479B9BF

UniRef90_A6CPI1

UniRef90_E7DY67

UniRef90_I0BLM9

UniRef90_O46972
 UniRef90_F5B8Z7
 UniRef90_B5SW42
 UniRef90_L0N864
 UniRef90_O46968
 UniRef90_Q58632
 UniRef90_B6C9X9
 UniRef90_A4GGX0
 UniRef90_Q29Z69
 UniRef90_O78531
 UniRef90_Q8MDV4
 UniRef90_S5Z8V0
 UniRef90_A5X4E8
 UniRef90_A3F4N2
 UniRef90_NOBMV6
 UniRef90_Q31862
 UniRef90_B6RID4
 UniRef90_D2REY6
 UniRef90_G3EJ5
 UniRef90_B51GK0
 UniRef90_UPI00034DDFC4
 UniRef90_Q93A92
 UniRef90_Q8H980
 UniRef90_Q29Z92
 UniRef90_L0L0G3
 UniRef90_F8AF48
 UniRef90_E0WMP2
 UniRef90_H9AXX6
 UniRef90_D5U228
 UniRef90_N6ZDS5
 UniRef90_Q32593
 UniRef90_E7BJG4
 UniRef90_Q36825
 UniRef90_M1E6K1
 UniRef90_L0N854
 UniRef90_O28635
 UniRef90_C5H391
 UniRef90_Q3ZTM2
 UniRef90_W016Q3
 UniRef90_Q29Z96
 UniRef90_I0JU35
 UniRef90_C7AQ55
 UniRef90_W5RG27
 UniRef90_O78526
 UniRef90_A3F4N4
 UniRef90_S6CME1
 UniRef90_Q29Z63
 UniRef90_Q6L5W7
 UniRef90_B6RID0
 UniRef90_C1JFJ9
 UniRef90_C6FFX9
 UniRef90_Q32260
 UniRef90_Q8WK40
 UniRef90_Q29Z84
 UniRef90_R4ITK6
 UniRef90_S6DT3
 UniRef90_G3EJJ8
 UniRef90_H81700
 UniRef90_E0WH92
 UniRef90_H1Z445
 UniRef90_S2KHX8
 UniRef90_Q946N3
 UniRef90_O46976
 UniRef90_UPI00037238A6
 UniRef90_K4LCF4
 UniRef90_V7AWJ9
 UniRef90_C3MI92
 UniRef90_A3CV55
 UniRef90_W2E2Y0
 UniRef90_E6MJM2
 UniRef90_H8XBR9
 UniRef90_UPI0004689AF5
 UniRef90_A717B2
 UniRef90_W5UGA7
 UniRef90_Q2FSY4
 UniRef90_UPI00046ED4B5
 UniRef90_A0B9K9
 UniRef90_B9KXE5
 UniRef90_O46970
 UniRef90_C5H378
 UniRef90_Q4QST2
 UniRef90_C5H372
 UniRef90_M1ZKA3
 UniRef90_D3SZI3
 UniRef90_UPI000369EF47
 UniRef90_UPI000364E063
 UniRef90_UPI00036C978B
 UniRef90_C9R9G7
 UniRef90_UPI000479B9BF
 UniRef90_E7DY67
 UniRef90_I0BLM9

	130	140	150	160
UniRef90_O46972	V I G Y T A I Q S M A I W S R K N D M I L	H L H R A G N S A Y A R Q K Q N H G I N		
UniRef90_F5B8Z7	N G D F C A N T G L A Q W C A D N G M L L	H I H R A M H A M I D R N P S H G I H		
UniRef90_B5SW42	T G G F T A N T T L A H Y C R D N G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_L0N864	T G G F T A N T S L A F Y C R D N G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_O46968	V M G Y T A L Q S A A I W A R K N D M I L	H I H R A G N S T Y A R Q K N H G I N		
UniRef90_Q58632	V C G F S A V Q S F R E E D F K F I I	H A H R A M H A A M T R S R D F G I I S		
UniRef90_B6CWX9	V X G X S A I Q T M A I W A R K A X M I L	H I H R A G N S T X A R Q K N H G I N		
UniRef90_A4GGX0	T G G F T A N T T L A H Y S R D N G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_Q29Z69	T G G F T A N T S L A H Y C R D N G L L L	H I H R A M H A V I D R Q K N H G I H		
UniRef90_O78531	I G Y S A I Q S M A I W A R K N D M I L	H I H R A G X X X X X X X X X X X X X X X		
UniRef90_Q8MDV4	I A G W S A L T Y I R D L A E E H K L A I	G H R A F H A A F T R N P Y H G I I S		
UniRef90_S52Z80	T G G F T A N T S L A H Y C R D N G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_A5X4E8	T A G F T A N T G L A K W C R K N G M L L	H I H R A M H A V I D R H P K H G I I H		
UniRef90_A3F4N2	T A G F T A N T G L A K W C R K N G M L L	H I H R A M H A V I D R H P K H G I I H		
UniRef90_N0BMV6	T A G F S A V Q T V R N K C E E G L G L A I	H I H R A M H A G A F T R N E E H G I I H		
UniRef90_Q31862	V I G Y T A I Q S M A K W A R K H D M I L	X X		
UniRef90_B6RID4	V I G Y T A I Q S M A I W A R K H D M I L	H I H R A G N S T Y S R Q K N H G M N S		
UniRef90_D2REY6	I A G W S V L K Y M R E L A N D Y G L A I	H A H R A M H S A F T R N R Y H G I I S		
UniRef90_G3EJ5	T G G F T A N T G L A R W C R R N G M M L	H I H R A M H A V I D R L D R N P S H G I I H		
UniRef90_B51GK0	I S G F S A V Q S Y R E E F G F K M A I	H I H R A M H A A I T R N P E H G I I H		
UniRef90_UP100034DDFC4	I I G W S A I Q S I A N W A R K H D M I L	H I H R A G H G T Y T R Q K N H G I V S		
UniRef90_Q93A92	A G G F C A N T G L A N W C R D N G L L L	H I H R A M H A V I D R X P H H G I I H		
UniRef90_Q8H980	T X G F A A X S X L A H Y X G D N G L X L	H I H R A M H A V I D R Q K S H G M H		
UniRef90_Q29Z92	T G G F C A N T G L A N W C R E N G M L L	H I H R A M H A V I D R H P K H G I I S		
UniRef90_L0L0G3	P T G W S S V Q T L R D V I T E E L G L A I	H A Q I Q G H N T F T G M E D H S I I S		
UniRef90_F8AF48	V V G W S A L Q Y M R E V A E D L G L A I	H A H R A M H A A F T R N P R H G I I S		
UniRef90_E0WMP2	V I G Y T A I Q S M A K W A R R R N D M I L	H I H R A G H S T Y T R Q K T H G V I S		
UniRef90_H9AXK6	V I G Y T A I Q S M A I W A R K A D M I L	H I H R A G N S T Y S R Q K N H G M N S		
UniRef90_D5U228	V S G W G V L N Y I R D L A E E Y G L A V	H A H R A M H A S T Y S R Q K N H G I V S		
UniRef90_N6ZDS5	I V G W T A I Q S M S N W C R D N D M I L	H I H R A G H G T Y T R Q K N H G I V S		
UniRef90_Q32593	V I G Y T A I Q S M A I W A R R N D M I L	H I H R A G N S T Y S R Q K N H G M N S		
UniRef90_E7BJG4	I I I G Y T A I Q S I S E W C R Q N D M I L	H I H R A G H G T Y T R Q K N H G V I S		
UniRef90_Q36825	V V G Y T A I Q T M A I W S R R N D M I L	H I H R A G N S T Y S R Q K N H G M N S		
UniRef90_M1E6K1	T T G F A G V Q S L R N A N S G L I L	H A H R A M Y A S F A R S K K H G I I H		
UniRef90_L0N854	T G G F T A N T S L A H Y C R D N G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_O28635	I T G W G A L E Y I R D L A E D Y D L A I	H G H R A M H A A F T R N A K H G I I S		
UniRef90_C5H391	T I G Y T A I Q S M A H W A R R N G V L L	H I H R A G H S T Y T R Q K T H G V I S		
UniRef90_Q3ZTM2	V V G Y T A I Q T M G I L W A R R N D M I L	H I H R A G N S T Y X R Q K S H G M N S		
UniRef90_W0I6Q3	V T G W G A L E Y I R D L A E D Y G I A L	H A H R A M H A T F T R N P Y H G I I S		
UniRef90_Q29Z96	T A G F T A N T G L A N W C R D N G M L L	H I H R A M H A V I V D R N P Y H G I I H		
UniRef90_I0JU35	T A G F T A N T T L A H Y W C R D N G V L L	H I H R A M H A V I D R Q K N H G I I H		
UniRef90_C7AQ55	T G G F T A N T S L A H Y C R D N G X L L	H I H R A M H A V I D R Q K N H G I I H		
UniRef90_W5RG27	T G G F T A N T S L A H Y C R D H G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_Q78526	I G Y T A I Q S M A I W A R K A D M I L	H I H R A G N S T Y A R Q K N H G I I H		
UniRef90_A3F4N4	T T G W A A H Q S L S K W C R K N G M L L	H I H R A L B H G V I D R N P K H G I I H		
UniRef90_S6CME1	T G G F T X X X X X X X X X X X X X X X X X			
UniRef90_Q29Z63	P A G F R P N T S L A N W S R A I G M L L	H I H R A M H P V L A R I P T H A I I H		
UniRef90_Q6L5W7	V I G Y T A I Q T M A K R C R N N D M I L	H I H R A G N S T Y S R Q K N H G M N S		
UniRef90_B6RID0	V I G Y T A I Q S M A I W A R K H D M I L	H I H R A G N S T Y S R Q K N H G M N S		
UniRef90_C1JF9	T G G L T A N T G L A N W C R D N G M L L	H I H R A M H A V I D R N P H H G I I H		
UniRef90_C6FFX9	V L G Y T A I Q T A A I W A R E N D M I L	H I H R A G N S T Y A R Q K N H G I I H		
UniRef90_Q32260	I G Y T A I Q T M A I W X X X X X X X X X X X			
UniRef90_Q8WK40	V I G Y T A I Q S M A I W A R K H D M I L	H I H R A G N S T Y X X X X X X X X X X X X X X X		
UniRef90_Q29Z84	T A G F T A N T S L A N W W R E N G M L L	H I H R A L B H A V I D R N P H H G I I H		
UniRef90_R4ITK6	V M G Y T A I Q T T A I W A R E N D L I L	H I H R A G N S T Y A R Q K N H G I I H		
UniRef90_S6DLT3	V V G Y T G I Q S L S N W C R A N D M I L	H I H R A G H G T Y T R Q K N H G V I S		
UniRef90_G3EJ88	V I I G Y T A I Q S M A E W C R Q N D M I L	H I H R A G H G T Y T R Q K N H G V I S		
UniRef90_H8I700	T A G F S A V Q A I N E A G I N L P I	H V T M H G A L T R G A F T M Y E S P Y S G L S S		
UniRef90_E0WH92	T G G W S A N T Q L A Q W C Q D N G M L L	H I H R A M H A V I D R Q K N H G I I H		
UniRef90_H1Z445	T C G Y S A L Q A L S E E M K I N V P V	H I H R A T M H G A M T R M P E H G I I A		
UniRef90_S2KHX8	S V G L S G V T H L R R H C R	L A L H G H A R A G W G L Y I S R S R P Y I G M S S		
UniRef90_Q946N3	T G G F T A N T G L A N W C R K N G M L L	H I H R A M H A V I D R Q K N H G I I H		
UniRef90_O46976	V W T D L L T A C D V L G A N W C R D N G M L L	H I H R A G N S T Y A R Q K N H G I I H		
UniRef90_UP100037238A6	S Y G F D V L H E L S S D S S I N I P I A A H P A L A G A F Y P S Q P H Y G I A A A			
UniRef90_K4LFC4	T A G I T A L Q S L L A E D P E I N V P I	H I H R A T M H G A L T R G A F T M Y E S P Y S G L S S		
UniRef90_V7AWJ9	T G G F T A N T S L A H Y C R D N G L L L	H I H R A M H A V I D R Q K N H G M H		
UniRef90_C3M92	T A G F C A N T G L A N W C R D N G M L L	H I H R A M H A V I D R N P H H G I I H		
UniRef90_A3CV55	S I Q Q G A F L R R S R S R L A L H A R N G W D L L T R H P G I G M N S			
UniRef90_W2E2Y0	V A G T A A V A T L R D Y C S D L G L A I	H I H R A M H A A F T D R D E K H G I I T		
UniRef90_E6MJM2	A Y G F D V L H E L S R D P N I P V P F M A H P S L S G A L Y P S Q A Y G I I A A			
UniRef90_H8XBR9	T V G L D A T R M L A E D D R I N V P I L G H S D Y T G A V Y E S P W S G M S A			
UniRef90_UP10004689AF5	T A G F C A N T G L A N W C R D N G M L L	H I H R A M H A V I D R Q K N H G I I H		
UniRef90_A717B2	A Y G Y D A L H R S A D P S V P I M A H P A L A G A L Y P S P H Q G L I A A			
UniRef90_W5UGA7	V A G T A S V M T M R D Y C S D L G L A I	H I H R A F H S A F D R N K K H G M T		
UniRef90_Q2FSY4	T G G F T A N T T L A M Y S R D N G L L L	H I H R A M H A V I D R Q R N H G I I H		
UniRef90_UP100046ED4B5	V C G F D A V R A V A E E P G N L P I	H I H R T M H A A I T R Q K N H G I I H		
UniRef90_A0B9K9	S V G L A G A V H R K F S E V P I	H I H R A N Q W G A M T R C P Q L G M E		
UniRef90_B9KXE5	T A G F S A L E A L A R G V D L P I	H I H R T M H G A M T R D R A H G I I S		
UniRef90_O46970	W V G I A A F D Y L R R N C P P L I	H I H R A N Q W G M M T R A P G L G M D		
UniRef90_D3SZI3	V I G Y T A I Q S M A V W S R K N D M I L	H I H R A G N S A Y A R Q K N H G I I N		
UniRef90_UP1000369EF47	T I G Y S A M Q S M A H W A R A N G V L L	H I H R A G H S T Y T R Q K T H G V I S		
UniRef90_UP1000364E063	T G G F T A N T S L A H Y C R D N G L L L	H I H R A M H A V I D R Q K N H X X X		
UniRef90_UP100036C978B	V I G Y T A I Q S M A K W A R K N D M I L	H I H R A G H G T Y T R Q K S H G I I S		
UniRef90_C9R9G7	A V G L P I V R M L A E D P E I N V P I L G H A T A A G G F T D S P Y Y G M S I			
UniRef90_UP1000479B9BF	T C G W S A V Q S V R D R C E K H G L A I	H I H R A M H A A F T D R M D H H G V S I		
UniRef90_A6CPI1	S Y G D Y A L Q E D P D I R I P I A A H P A L A G A M Y P S P H Y G I I S P			
UniRef90_A7DY67	W V G I S G L L K L N E F T Q L P I	H I H R A G H G T Y T R Q K N H G I I S P		
UniRef90_O2B1M9	T A G F S G G L S L R K A N L G L I I	H I H R A N Q W G M M T R A P G L G M D		
UniRef90_D3SZI3	A Y G L D V M Q N L V E D P E I N I P I M A H P A V V S G A S T A S S L Y G F S N S			
UniRef90_UP1000369EF47	A Y G L D V L Q A I R E D N E L G L P I M A H P A V V S G A L T S S P F Y G F S H			
UniRef90_UP1000364E063	W V G I S G L L K L N E F T Q L P I	H I H R A G H G T Y T R Q K N H G I I S P		
UniRef90_UP100036C978B	T A G F S G G L S L R K A N L G L I I	H I H R A N Q W G M M T R A P G L G M D		
UniRef90_C9R9G7	A Y G L D V M Q N L V E D P E I N I P I M A H P A V V S G A S T A S S L Y G F S N S			
UniRef90_UP1000479B9BF	A Y G L D V L Q A I R E D N E L G L P I M A H P A V V S G A L T S S P F Y G F S H			
UniRef90_A6CPI1	S C G V A C L C W N R Y C O V P I	H I H R A N Q W G M M T R A P G L G M D		
UniRef90_A7DY67	C S C G V A C L C W N R Y C O V P I	H I H R A N Q W G M M T R A P G L G M D		

	250	260	270	280
UniRef90_O46972	L N Y L G E D C V L Q L G G G T X X X X X X X X X X X X X A M E S V L L A			
UniRef90_F5B8Z7	V A I F G D D A V L Q F G G G T L G H P W G N A A G A A A N R V A L E A C V E A			
UniRef90_B5SW42				
UniRef90_L0N864				
UniRef90_O46968	L N Y L G D D V V L Q F G G G T I G H P D G Q A G A T A N R V A L E A M V L A			
UniRef90_Q58632	V E I L G R D L I I Q A G G G V H G H P D G T R A G A K A M R A A I E A L I E G			
UniRef90_B6CWX9	X X X L G D D V V L Q F G G G T I G H P D G Q S G A T A N R V A L E S M V L A			
UniRef90_A4GGX0	T D I F G D D S V L Q F G G G T I G H P W G N A P G A V A N R V A L E A C V Q A			
UniRef90_Q29Z69	G L I F G D D S V L Q F G G G T P G H P A A G A A A I V L A L E A C G Q A			
UniRef90_O78531	T E I F G D D S V L Q F G G G T I G H P W G N A P G A V A N R V A L E A C V Q A			
UniRef90_Q8MDV4	L D Y L G D D V V L Q F G G G T I G H P D G Q A G A T A N R V A L E S M V I A			
UniRef90_S5Z8V0	I K A M G M D I V I Q V G G G T I G H P D G P R A G A A A V R Q A I E A Y M T			
UniRef90_A5X4E8				
UniRef90_A3F4N2	V T I F G D D S C L Q F G G G T Q G H P W G N A A G A A A N R V S L E A C V K A			
UniRef90_N0BMV6	I E L F G V D V I I Q A G G G V H G H P D G S E K G A M A L R Q A I S A V L E			
UniRef90_Q31862	X M A			
UniRef90_B6RID4				
UniRef90_D2REY6	I D A L G E D I I I Q V G G G V M G H P D G P K A G A K A V R Q A L E A I K L G			
UniRef90_G3EJ15	V S I F G D D A V L Q F G G G T I G H P W G N A A G A A A N R V S V E A C V K A			
UniRef90_B51GK0	V D I L G K D I V I Q A G G G V H G H P E G T R A G A K A M R E A L K M Q G			
UniRef90_UP100034DDFC4	L N L F G D D V I L Q F G G G T I G H P A G Q A G A V A N R V A L E C M V K A			
UniRef90_Q93A92				
UniRef90_Q8H980				
UniRef90_Q29Z92	D A I F G D D A V F Q F G G G T I G H P W G N A A G A A A N R V A L E A C I E A			
UniRef90_L0L0G3	M N V F D K D V I I D C N S G I Y S H P M G C A A G A K S C R Q V I E A V L A G			
UniRef90_F8AF48	I R L F G R D L V I Q V G G G V M G H P D G P R A G A K A L R D A I E A A I E G			
UniRef90_E0WMP2				
UniRef90_H9AXK6	L N Y L G D D V V L Q F G G G T I G H P D G Q A G A T A N R V A L E S M V L A			
UniRef90_D5U228	I D A L G P D I V L Q V G G G V V H G H P D G P R A G A M A V R Q A L D A I V K G			
UniRef90_N6ZDS5	L S L F G D E V V L Q F G G G T I G H P M G Q A G A T A N R V A L E A M V L A			
UniRef90_Q32593	L D Y L G V D V V L Q F G G G T I G H P D G I Q A G A T A N			
UniRef90_E7B7G4	L D L F G D D V V L Q F G G G T I G H P M G I Q A G A T A N R V A L E A M C S H			
UniRef90_Q36825	L D Y L G L D D V V L Q F G G G T I G H P D G I Q A G A T A N R V A L E X X X X X			
UniRef90_M1E6K1	F K I F G K N A V F Q Y G G G V H G H P E G T R M G A R A V R D S V E C A V K G			
UniRef90_L0N854				
UniRef90_O28635	I D A L G K E I V I Q V G G G V L G H P M G A K A G A K A V R Q A L D A I I S A			
UniRef90_C5H391	L D L F D D D V I L Q F G G G T I G H P Q G A A G A E A N R V A L E A M V K A			
UniRef90_Q3ZTM2	L D Y L G E D V V L Q F G G G T I G H P D G I Q A G A T A N R V A L E S I V I A			
UniRef90_W016Q3	I D A L G T E L V L Q F G G G T I G H P D G P K A G A M A V R Q A L D A I I Q G			
UniRef90_Q29Z96	V A I F G D D A C L Q F G G G T I G H P S P W G N A A G A T A N R V A L E P C V E A			
UniRef90_I0JU35	V D I F G D D S V L Q F G G G T I G H P W G N A P G A T A N R V A L E A C V Q A			
UniRef90_C7AQ55	T E I F G D D S V L Q F G G G T I G H P W G N A P G A V A N R V A X E A C V Q A			
UniRef90_W5RG27	V E L F G D D A C L Q F G G G T I G H P W G N A P G A A A N R I A C E A C I Q A			
UniRef90_O78526				
UniRef90_A3F4N4	V N I F G D D A V L Q F G G G T I G H P W G N A A G A A A N R V A L E A C V R A A			
UniRef90_S6CME1	T E I F G D D S V L Q F G G G T I G H P W G N A P G A A A N R V A L E A C V Q A			
UniRef90_Q29Z63	F S I F G D D S V L Q F G G G T I G H P W G N A A G A A A N R V S L E A C V E A			
UniRef90_Q6L5W7	L H H L G E D V V L Q F G G G T I G H P D G I Q A G A T A N R V A L E S M V M A			
UniRef90_B6RID0	L D Y L G D D D V V L Q F G G G T I G H P D G Q A G A T A N R V A L E A M V Q A			
UniRef90_C1JFJ9	V T I F G D D S V L Q F G G G T I G H P W G N A A G A A A N R V A L E A C V E A			
UniRef90_C6FFX9				
UniRef90_Q32260	L D Y L G I D D V V L Q F G G G T I G X A			
UniRef90_Q8WK40	I D Y L G D D D V V L Q F G G G T I G H P H P W G N A A G A A A N R V A L E A C I E A			
UniRef90_Q29Z84	C S I F G D D A V F Q F G G G T I G H P W G N A A G A A A N R V A L E A C I E A			
UniRef90_R4ITK6				
UniRef90_S6DLT3	L D L F G D D V V L Q F G G G T I G H P Q G Q A G A T A N R V A L E A M V Q A			
UniRef90_G3EJJ8	L D H Y G I D C I L Q A G G G H G H P E G T I A G A K A M F Q A V E A W K K Q			
UniRef90_H8I700	L D H Y G I D C I L Q A G G G H G H P E G T I A G A K A M F Q A V E A W K K Q			
UniRef90_E0WH92	V N I F G D D S V L Q F G G G T I G H P W G N A A G A A A N R V A L E A C V E A			
UniRef90_H1Z445	I S G L G C D I V L Q A G G G H G H P D G T E S G A R A M R Q A V D A Y M E			
UniRef90_S2KXH8	R T I G S T D L I F C A G G G I M A H P G G G A G V R S L R Q A W D A A V Q G			
UniRef90_Q946N3				
UniRef90_O46976	V Y F L G D X X X X X X X X X X X X X X F M R G A T A F R V A M E G I I L A			
UniRef90_UP100037238A6	L R D F G R E V V V N A G G G V H G H P Q G A A A G G R A F N Q A I D A T L Q G G			
UniRef90_K4LCF4	I R D L G K D C I L G A G G G I H G H P M G P V A G G K A M R Q A I D A A L Q G Q			
UniRef90_V7AWJ9				
UniRef90_C3MI92	T E I F G D D D F V L Q F D G G T I G H P W G N A P G A			
UniRef90_A3CV55	R R T G R T D L L Y L C G G G V V S H P D G P G A G V K A V R Q A W E A			
UniRef90_W2E2Y0	L D I Y G S E L V L L V S G G G I H G H P K G T R A G A E A A M Q A I E A W K E			
UniRef90_E6MJM2	M R D F G K E V V V N A G G G V H G H P M G A A S G G R A F R Q A I E A A S R			
UniRef90_H8XBR9	I K K F G N D V M I A A G G A I H G H P M G P A A G A R A F R R Q G I D E V M N G			
UniRef90_UP10004689AF5	V N I L A T T R C C Y E D F G T E S I M N A A G G G I H G H P Q G A I A G G R A F R Q A I S I L S S G			
UniRef90_A717B2	L D I Y G T D L V L L V S G G G I H G H P K G T R A G A K A T M Q A I E A W Q			
UniRef90_W5UGA7				
UniRef90_Q2FSY4	V S M L G R D I I L Q A G G G I H G H P D G T R V G A T A M R Q A V D A A V A G			
UniRef90_UP100046ED4B5	A S M E T I D V M H L A G G G I L H G H P S G L E A G V K S M I Q G W E A A V S G			
UniRef90_A0B9K9	L D G Y G I D C V Q A G G G V H G H P D G T I A G A G A T A N R V A L E A M V Q A			
UniRef90_B9KXE5	R R C T R I D L L Y L C G G G I F A H P H G V A A G I R A I R E A W E A A V A G			
UniRef90_O46970	L N Y L G D X X X X X X X G G G X G L P D G S L S G A T A N R V A M E C V L L A			
UniRef90_C5H378	V D L L D E D V I L Q F G G G T I G H P Q G A A G A E A N R V A L E A L I I			
UniRef90_Q4QST2	T E I F G D D S V L Q F G G G T I G H P W G N A P G A V A N R V A L E A C V Q A			
UniRef90_C5H372	L D H Y G I D D V V L Q F G G G T I G H P G G Q A G A T A N R V A L E A M I F A			
UniRef90_M1ZKA3	V G D L G T D I I L I G A G G G V H G H P M G A V A G G K A F R Q A I D A T L D G			
UniRef90_D3SZI3	I D A L G T D I C V Q A G G G I H G H P D G T H A G A K A L R Q A T D A S L D G			
UniRef90_UP1000369EF47	L R D F G T D V V V N A G G G I H G H P M G T E A G G Q A F V Q A I A A A G Q S S			
UniRef90_UP1000364E063	L D L F G D D D V V L Q F G G G T I G H P M G I Q A G A Q A N R V A L E A M V F S			
UniRef90_UP100036C978B	N A I K S T D V M Y V C G G G I V A H P D G I A A G V K S I I Q G W E A A I K			
UniRef90_C9R9G7	I S I F G V D C V Q A F G G G I H G H P R G T R A G A S A V R A A V E A A T S G			
UniRef90_UP1000479B9BF	V N D F G V D S V I N A A G G G V H G H P N G A I G G G K A F R Q A I I D A T L S G			
UniRef90_A6CP1	Y R D F G T D S V I N A A G G G V H G H P G A A G G G K A F N Q A I D A V L K G			
UniRef90_E7DY67	L D Y L G N D V V L Q F G G G T I G H P D G I Q A G A T A N R V A L E A M V I A			
UniRef90_I0BLM9	E Q A G T T D L M H L A G G G I L A H P D G P A A G V E S M K Q G W E A A V K A			

UniRef90_O46972
 UniRef90_F5B8Z7
 UniRef90_B5SW42
 UniRef90_L0N864
 UniRef90_O46968
 UniRef90_Q58632
 UniRef90_B6CWX9
 UniRef90_A4GGX0
 UniRef90_Q29Z69
 UniRef90_O78531
 UniRef90_Q8MDV4
 UniRef90_S5Z8V0
 UniRef90_A5X4E8
 UniRef90_A3F4N2
 UniRef90_N0BMV6
 UniRef90_Q31862
 UniRef90_B6RID4
 UniRef90_D2REY6
 UniRef90_G3EJ15
 UniRef90_B51GK0
 UniRef90_UP100034DDFC4
 UniRef90_Q93A92
 UniRef90_Q8H980
 UniRef90_Q29Z92
 UniRef90_L0L0G3
 UniRef90_F8AF48
 UniRef90_E0WMP2
 UniRef90_H9AXK6
 UniRef90_D5U228
 UniRef90_N6ZDS5
 UniRef90_Q32593
 UniRef90_E7BJG4
 UniRef90_Q36825
 UniRef90_M1E6K1
 UniRef90_L0N854
 UniRef90_O28635
 UniRef90_C5H391
 UniRef90_Q3ZTM2
 UniRef90_W016Q3
 UniRef90_Q29Z96
 UniRef90_I0JU35
 UniRef90_C7AQ55
 UniRef90_W5RG27
 UniRef90_O78526
 UniRef90_A3F4N4
 UniRef90_S6CME1
 UniRef90_Q29Z63
 UniRef90_Q6L5W7
 UniRef90_B6RID0
 UniRef90_C1JFJ9
 UniRef90_C6FFX9
 UniRef90_Q32260
 UniRef90_Q8WK40
 UniRef90_Q29Z84
 UniRef90_R4ITK6
 UniRef90_S6DLT3
 UniRef90_G3EJJ8
 UniRef90_H8J700
 UniRef90_E0WH92
 UniRef90_H1Z445
 UniRef90_S2KHX8
 UniRef90_Q946N3
 UniRef90_O46976
 UniRef90_UP100037238A6
 UniRef90_K4LFC4
 UniRef90_V7AWJ9
 UniRef90_C3MI92
 UniRef90_A3CV55
 UniRef90_W2E2Y0
 UniRef90_E6MJM2
 UniRef90_H8XBR9
 UniRef90_UP10004689AF5
 UniRef90_A717B2
 UniRef90_W5UGA7
 UniRef90_Q2FSY4
 UniRef90_UP100046ED4B5
 UniRef90_A0B9K9
 UniRef90_B9KXE5
 UniRef90_O46970
 UniRef90_C5H378
 UniRef90_Q4QST2
 UniRef90_C5H372
 UniRef90_M1ZKA3
 UniRef90_D3SZI3
 UniRef90_UP1000369EF47
 UniRef90_UP1000364E063
 UniRef90_UP100036C978B
 UniRef90_C9R9G7
 UniRef90_UP1000479B9BF
 UniRef90_A6CPI1
 UniRef90_E7DY67
 UniRef90_I0BLM9

UniRef90_O46972 S T D T
UniRef90_F5B8Z7
UniRef90_B5SW42
UniRef90_L0N864
UniRef90_O46968 S T D T
UniRef90_Q58632
UniRef90_B6CWX9
UniRef90_A4GGX0
UniRef90_Q29Z69
UniRef90_O78531
UniRef90_Q8MDV4
UniRef90_S5Z8V0
UniRef90_A5X4E8
UniRef90_A3F4N2
UniRef90_N0BMV6
UniRef90_Q31862 S T D T
UniRef90_B6RID4
UniRef90_D2REY6
UniRef90_G3EJ15
UniRef90_B5IGK0
UniRef90_UP100034DDFC4 S T D T
UniRef90_Q93A92
UniRef90_Q8H980
UniRef90_Q29Z92
UniRef90_L0L0G3
UniRef90_F8AF48
UniRef90_E0WMP2
UniRef90_H9AXK6
UniRef90_D5U228
UniRef90_N6ZDS5 S T D T
UniRef90_Q32593
UniRef90_E7BJG4
UniRef90_Q36825 S T D T
UniRef90_M1E6K1
UniRef90_L0N854
UniRef90_O28635
UniRef90_C5H391 P T E
UniRef90_Q3ZTM2
UniRef90_W016Q3
UniRef90_Q29Z96
UniRef90_I0JU35
UniRef90_C7AQ55
UniRef90_W5RG27
UniRef90_O78526
UniRef90_A3F4N4
UniRef90_S6CME1
UniRef90_Q29Z63
UniRef90_Q6L5W7 S T D T
UniRef90_B6RID0
UniRef90_C1JFJ9
UniRef90_C6FFX9
UniRef90_Q32260 S T D T
UniRef90_Q8WK40
UniRef90_Q29Z84
UniRef90_R4ITK6
UniRef90_S6DLT3
UniRef90_G3EJJ8
UniRef90_H8I700
UniRef90_E0WH92
UniRef90_H1Z445
UniRef90_S2KHX8
UniRef90_Q94GN3
UniRef90_O46976 S T D T
UniRef90_UP100037238A6
UniRef90_K4LFC4
UniRef90_V7AWJ9
UniRef90_C3MI92
UniRef90_A3CV55
UniRef90_W2E2Y0
UniRef90_E6MJM2
UniRef90_H8XBR9
UniRef90_UP10004689AF5
UniRef90_A717B2
UniRef90_W5UGA7
UniRef90_Q2FSY4
UniRef90_UP100046ED4B5 S T D T
UniRef90_A0B9K9
UniRef90_B9KXE5
UniRef90_O46970
UniRef90_C5H378
UniRef90_Q4QST2
UniRef90_C5H372
UniRef90_M1ZKA3
UniRef90_D3SZI3
UniRef90_UP1000369EF47 S T D T
UniRef90_UP1000364E063
UniRef90_UP100036C978B
UniRef90_C9R9G7
UniRef90_UP1000479B9BF
UniRef90_A6CPI1
UniRef90_E7DY67 S T D T
UniRef90_I0BLM9

UniRef90_Q31785
 UniRef90_X0TIA2
 UniRef90_G9EEI8
 UniRef90_I3XPD1
 UniRef90_Q85VF1
 UniRef90_G3MF02
 UniRef90_UPI00046F3AD0
 UniRef90_Q31996
 UniRef90_Q4QSS7
 UniRef90_C6CYF7
 UniRef90_K9DA60
 UniRef90_UPI00036E538A
 UniRef90_C1JFL0
 UniRef90_G5E4R3
 UniRef90_Q95GW3
 UniRef90_G3KET2
 UniRef90_K014B7
 UniRef90_Q7X0C7
 UniRef90_O46973
 UniRef90_A4ILL5
 UniRef90_V6M6W5
 UniRef90_Q1QSJ9
 UniRef90_S2WZY6
 UniRef90_G0WXP2
 UniRef90_L0ECD9
 UniRef90_UPI000465982F
 UniRef90_F5A076
 UniRef90_UPI00036FE6F0
 UniRef90_F5A0Q1
 UniRef90_B5TIS2
 UniRef90_X2L979
 UniRef90_A8FCG8
 UniRef90_E5WDQ7
 UniRef90_Q13K83
 UniRef90_UPI000378C4E4
 UniRef90_F2RM54
 UniRef90_G8TNH2
 UniRef90_Q1YLC2
 UniRef90_Q5WQ13
 UniRef90_W1PD34
 UniRef90_D7AAR4
 UniRef90_I3E804
 UniRef90_T1X8D1
 UniRef90_E0U8F2
 UniRef90_UPI00047A6104
 UniRef90_Q8KBL4
 UniRef90_W1N853
 UniRef90_Q1YDM7
 UniRef90_B5EKK0
 UniRef90_UPI00047E4C62
 UniRef90_N0DLV0
 UniRef90_G2DXM6
 UniRef90_V5W8P0
 UniRef90_A9CVC3
 UniRef90_F8GV07
 UniRef90_Q0GQ15
 UniRef90_UPI0003B3ACA8
 UniRef90_G3EJL3
 UniRef90_UPI0003708ADC
 UniRef90_Q85WD8
 UniRef90_X6L4C2
 UniRef90_UPI0002D69357
 UniRef90_E4NPX6
 UniRef90_K9RK11
 UniRef90_W4QFX6
 UniRef90_L0KU91
 UniRef90_UPI0002883EF9
 UniRef90_Q9GGR4
 UniRef90_B3EFP0
 UniRef90_F4LRZ3
 UniRef90_S9QDJ1
 UniRef90_Q32318
 UniRef90_A1AWY1
 UniRef90_W1JTC5
 UniRef90_Q21YM9
 UniRef90_UPI000375486A
 UniRef90_E7CQ92
 UniRef90_M1YY16
 UniRef90_T1WZS4
 UniRef90_X2L1L0
 UniRef90_Q60FK5
 UniRef90_X2KYB1
 UniRef90_V4JLW9
 UniRef90_C0CYW8
 UniRef90_W0F514
 UniRef90_Q4KYY4
 UniRef90_UPI00046641E6
 UniRef90_UPI0004742E57
 UniRef90_UPI000304F626
 UniRef90_B1G890
 UniRef90_W4HGZ4
 UniRef90_G0WXN0

1 10 20 30 40
 P A T G I V C E R E R M D K F G R P F L G A T V K P N L G L S G K N Y G R V V Y
 P R Y G I K G L R K K F K I K N R P F V G T I V K P K V G L T P S E H A R V A Y
 P Q F G I S G T R Q L T G I S N G P L I G T I I K P S V G L S A A E T A D M V A
 P P H G I Q V E R D K L N K Y G R P L X
 P K F G I Q G I R D I L G V H D R P L L N N M I K P C T G L S P E K T A E L A Y
 P A T G I X V E R E R M D K F G X P F L G X T V K P K L G L S G K N Y X X X X X
 P K Y G I E G V R Q L L G V H D R P L L M S I F K S V V G H D L P N L Q E Q F Y
 P Q F G V A G T R R L A G V Y D R P M I G T I I K P S V G L S P E A T A E Q V R
 P Q F G L A G S R K L T G V Y D R P I I G T I V K P A L G L R P Q E T A E L V G
 P R Q G I A G T R A L T G V Q G R P L I G T I I K P N V G L S A E E T G E L A G
 P R F G I A G I R E K V G V Y D R P L L M S I F K G I I G R D L A Y L T S E L K
 P K F G I D G L R N R L G A H D R P L l M S I F K S C L G L P F D D L K T Q F R
 P Q F S I E G T R R L C G T E Q G P L V G T I I K P S V G L T P E E T A T L V K
 P A F G V S G T R R M A G V H G R P L I G T I I K P S I G L T P D Q T G E L V D
 P K F G I E G V R K Q L G V E N R P L l M S I F K S V I G H D L P N L R E Q F F
 P K F G I E G I R K W T G V Q D R P F V M S I F K G I L G K D L S F L L H Q L E
 T I K P K L G L S A K N Y G R A V Y
 P K F G I Q G V R E L L D V P H R P L l M S I F K S V I G Y D L G G L R E Q F M
 T I K P K L G L S A K N Y G R A V Y
 P A C G I L I V E R E R M D K F G R P L l G A T V K P K L G L S G K N Y G R V V F
 P V F G I D G I R K K T G V F D R P l l M S I F K G V I G R D M T D L K E Q L R
 P R F G I D G L R E K L N V Y D R P l l M S I F K G V L G K D M D F L T S Q L R
 P R H G V A G T R A L T D V K D R P M I G T I I K P N V G L S A A E T A A L V R
 K F G V E G I R N L L N V H D R P l V N T M I K P C I G L N P K Q T A E L A H
 P A F G V K G C R Q L T N V Q D R P l i g t i i k p s i g l t p e q t a d m v k
 P Q F G I A G S R Q L M G V E E G P M I A S I I k p s l g l l p d e t a a v v a
 P K F G V A G T R R L A G V E G R P l i g t i i k p s v g f g p q e t a d l v e
 P R F G I P G I R E K L N V Y G R P l v m s i f k g l i g r d l d y l l s q l k
 P R A G I A G T R R T T G V A S G A l v g t i i k p n v g l s a s e t a a l v a
 P K F G I G T I R K T L N V W N R P l l M S I F K G V L G K D M D F L T S Q L R
 P Q F G I E G I R S M I l D S H E R P l l M S I F K G V I G R D l s y l q e q m k
 P K F G I E G L R D I l N A H G R P I F F G V V K P N I G L S P G E F A E I A Y
 P Q F G I Q G T R Q L T G I D S G P l i g t i i k p s v g l s p t q t a d v v a
 P A F G V E G T R Q L T G V V D R P V I G T I I k p s i g l n p a e t a a l v d
 P P R A I Q L I S D L W R I L G R P I A G T I I k p k l G L R P E P F A A A A Y
 P K L G M Q Q G V R D L L G V H D R P l V M S I F K S V I G H D L T G L R E Q F L
 P A T G V I V E R E R L D K F G R P l l G A T V K P K L G L S G K N Y G R V V Y
 P R F G V E G I R D M L Q A Y D R P l f f g v i k p n i g l p p d v f s d l g y
 P Q F G A D G T R E l M M G G H E G P V I G T I I k p s v g l s p s e t a e l v q
 P A F G I D G T R K L A D V T T G P l i g t i i k p s v g l s v e q t a q q v r
 T T K P K L G L S A R N Y G R A V Y
 P R Y G I D G I R E T l G V T G R P l V M S I F K K A M l G R D l s y f q q l r
 P K F G V Q Q G I R E l T G A Y D R P l V M S I F K G V I G R D l s y m e r q l k
 K N Y G R A V Y
 P G F G T A G T R R L T G V A D G P l i g t i i k p s v g l t p e g t a t l v d
 P A F G I E G T R R R M S G V R Q G P l i g t i i k p s v g l s p d k t a e q v k
 P Q F G S S V R E E I F G I E D R P I l a t v p k p k v g l s t d r h a e v g y
 P K L G I S G I R E R L G V F N R P l l M S I F K G V I G R D l s s l k e q m k
 P K V G I E G L R K L L G A Y D R P l l M S I F K G V I G R D l s s l k e q m k
 P A F A V E G T R R L T G V T G R P l i g t i v k p s v g l t p r e t a t l a d
 P K F G I N G I R E K L G V F D R P l V M S I F K G V I G R D l e y l k e q l r
 P K F G I E G I R D I l Q A Y D R P l f f g v v k p n i g l k p s c f a e i a y
 P N F G I E G V R K L T G V Y D R P l V L N M I k p c t g f s p k v g a k i f y
 P K F G I P G T R E l A G V A D G P l i g t i v k p s i g l d a g q t a a v v q
 G G Y I A G T I I k p k l G L R P K P F S E A A Y
 P K F G A E G T R R L A G V K D R P l i g t i i k p s v g f s p g e t a a l v k
 I S D L W R I L G R P I V G T I I k p k l G L R P E P F A Q A A Y
 P R Q G V A G T R A L T G I A A G P I l G T I I k p n v g m t p e q t a a t v a
 P R F G I Q G V R D L L Q M K D R P l l M S I F K Q C I G L S l d e l e e E Y R
 P G F G I D G L R K R W G I H G R P F F F G V I K P N I G L P P E P F A E l A H
 P K F G I Q G L R E L T G V W D R P l l l N M I k p c t g l t p e a g a k i f y
 P E F G V E G C R K L T G V A S R P l i g t i i k p s v g l s v t e t a d l v k
 P K F G I N G I R D I l H A Y N R P l l N N M I k p c t g y t p d v g e k l f y
 P R F G I E G I R E K L K V Y D R P l V M S I F K G V I G R D M D Y l t e q l r
 P K F G I E G I R T I l N V H E R P l V M S I F K G V I G R D l d y l v i a q l r
 P A F G I E G T R R L S G V A H G P l i g t i i k p s v g l s p v e t a q q v r
 P A Q G I T G T R E S L G T E G R P I F G T I I k p n v g l r p v e i a a l v a

50 60 70 80

UniRef90_Q31785	E G L K G G L D F I L K D D E N I N S Q P F M R W K E R Y L Y S M E G V N R A I □ A		
UniRef90_X0TIA2	E S W I G G C D I V K D D E N L T S Q N F N E F K K R F L I F T T A L R K K A E K		
UniRef90_G9EE18	Q L V A G G I D F I K K D D E N L Q A N G P H N P L R A R V D A I M P I I N A H A E		
UniRef90_I3XPD1	K D D E N I N S Q P F M H W R D R F L Y C M E A V N H A S A		
UniRef90_Q85VF1	X X X X X X X D F T K D D E N V N S Q P F M R W R D R F L F C A E A I Y K A Q A		
UniRef90_G3MF02	K D D E N V N S Q P F M R W Q N R F E F V A E A V I K A Q Q		
UniRef90_UPI00046F3AD0	Q A A V G G V D I I K D D E L V A N P P H C P L I E R V K T V M P A I Q D A D K		
UniRef90_Q31996	X X X X X X X X X X X N S Q P F M R W K E R Y L Y S M E G V N R S □ A		
UniRef90_Q4QSS7	K Q A L G G V D L I K D D E I L F E N P L T P L E K R V E V C M E A A R K A Q Q		
UniRef90_C6CYF7	A L V E A G V D F I K D D E L Q A D G P H C P F E A R I S A V M R V I N D H A D		
UniRef90_K9DA60	E L I Q S G V D F I K D D E K L M S P V Y S P L K E R V A A I M P K I L D H E Q		
UniRef90_UPI00036E538A	K D D E N I N S Q P F M H W R D R F L Y V M D G V M K A S A		
UniRef90_C1JFL0	D F T K D D E N I N S A P F Q R W R D R F L F V A E A I K E S Q A		
UniRef90_G5E4R3	UniRef90_Q95GW3	K D D E N I N S Q I F M H W R K E R F L Y S M E A V N R S □ A	
UniRef90_G3KET2	UniRef90_K0I4B7	R L C A A G V D F I K D D E V C A N P V H A P L A D R V K S V M R R V R A H Q D	
UniRef90_Q7X0C7	UniRef90_O46973	K D D E N I N S Q I F M H W R D R F L Y C T E A V H R A E E	
UniRef90_A4ILL5	K Q A L G G V D L V K D D E I L F D N E L L P F E K R I T A G K A A L Q E V Y E		
UniRef90_V6M6W5	A Q A L G G V D L V K D D E I F F A D D R A P F L E R I K A F K Q I A L E A E A Q		
UniRef90_Q1QSJ9	Q L I E G G I D F I K D D E L I A D P P Y S P L S E R V P A I I M Q V I N E H A Q		
UniRef90_S2WZY6	S L C A A D I D F I K D D E L I A D P P Y A P F D E R L R A V V M P V L Q R H A D		
UniRef90_G0WXP2	R Q A L G G V D L I K D D E I L F E N P L T P L E K R V E A C M A A A A E A K R		
UniRef90_L0ECD9	UniRef90_UPI000465982F	Q Q A R G G V D F V K D D E I L F D N E L T P F E E R I T K G R E V L E K V Y S	
UniRef90_F5A076	E C L R G G L D F T K D D E N V N S Q P F M R W R D R F D F C Q E A I L E K A E R		
UniRef90_UPI00036FE6F0	A Q A L G G V D L I K D D E I L F E N P L T P L E Q R V R A C Y E A A Q E A E Q		
UniRef90_F5A0Q1	E A L R G G L D F T K D D E N I N S Q P F M R W R D R F L F V A D A I T K A Q A		
UniRef90_B5TIS2	E G L K G G L D F I K D D E N I N S Q P F M R Y R E R F L Y S M E G V N H A A C		
UniRef90_X2L979	UniRef90_A8FCG8	M R W R D R F L F C A E A I Y R A Q S	
UniRef90_E5WDQ7	L Q A L G G V D F I K D D E I L F E S P L A P F E D R I K E G K K I L K E T Y E E		
UniRef90_Q13K83	E Q A L G G I D L V K D D E I L F E N R L T P F E A R I T E G K E V L R Q V Y E E		
UniRef90_UPI000378C4E4	E L C E A G V D F I K D D E V C A N P A H A P L A E R V R A V V M S E V R R Y R E E		
UniRef90_F2RM54	S I A L G G V D I K D D E L T A D P D H C H L V D R V K A V V M A A L K S A D E		
UniRef90_G8TNH2	T L A G A G I D F I K D D E L L S S S A N S L F K D R V D A I M K V I N A H A D		
UniRef90_Q1YLC2	D L C A A G V D F I K D D E K L M S P A Y S P L E Q R I A A I M P V I R D H E Q		
UniRef90_Q5WQ13	G L D F T K D D E N V N S Q P F M R W R D R F L F V Q E A I E K A E A		
UniRef90_W1PD34	UniRef90_D7AAR4	T L A E G G I D F V K D D E L Q S D G P H C P F E E R V R A V M R V V N D H A D	
UniRef90_I3E804	E Q A K G G V D I V K D D E I L F K N E L T P F E K R I T E G K K V L R E V F E		
UniRef90_T1X8D1	R L C A A G V D F I K D D E V C A D P A H A P L A E R V P A V M A V V R A H Q E Q		
UniRef90_E0U8F2	Q V A Q A G L D I I K D D E I L G D L A T A P T L K R L E A C R Q V I E E I Q Q		
UniRef90_UPI00047A6104	E Q G L G G V D V V K D D E I L L F E N E L T P L T D R V K V C K E A L R Q S Y E		
UniRef90_Q8KBL4	Q S W L G G L D I A K D D E M L A D V T W S S I E E R R A A H L G K A R R K A E A		
UniRef90_W1N853	Q L L E G G I D F I K D D E L Q A N G P H N P L E A R V D A V M P L V R E H E Q		
UniRef90_Q1YDM7	Q L C D G G I D F I K D D E L Q A D G A I C P F E E R L A A V T T V I A R H A E		
UniRef90_B5EKK0	Q F W L G G G D F I K D D E P Q G N Q V F A P V K K T I P L V Y D A M K R A M D		
UniRef90_UPI00047E4C62	Q Q A L G G V D L I K D D E I L F E N P L T P L E K R V E A C M D A A R E A E R		
UniRef90_N0DLV0	E G L R G G L D F I K D D E N I N S Q P F M R W K E R F L Y C M E G V N R S A A		
UniRef90_G2DXM6	Q S W L G G L D I A K D D E M L G D T D W C P L Q E R S R L L G E A R R R A E V		
UniRef90_V5W8P0	UniRef90_A9CVC3	UniRef90_F8GV07	T L I E A G I D F I K D D E L Q A N G P H C P F E E R L K L V S R V I N L H A E
UniRef90_F8GV07	E L V A G G I D F I K D D E L Q A D G S F C P F D E R V S A V M R V V N E A A Q		
UniRef90_Q0GQ15	E C L R G G L D F T K D D E N I N S Q P F M R W Q D R F T F V M E A V R K A E R		
UniRef90_UPI0003B3ACA8	E Q A L G G I D L V K D D E I L F D N P L T P F K E R I R A A K E V L S A T E A		
UniRef90_G3EJL3	K G G L D F T K D D E N I N S Q P F M H W R E R F L Y C M E A V N K A Q A		
UniRef90_UPI0003708ADC	A Q L N G G I D I I K D D E I L F E N K L T P F E E R L K L G K Q V I V		
UniRef90_Q85WD8	E C L R G G L D F T K D D E N V N S Q P F M R W R D R F L F V A E A I Y K S Q A		
UniRef90_X6L4C2	UniRef90_UPI0002D69357	A L C A G G I D F I K D D E L Q A D G P H C P F E E R F R A R V M D V I D R H A D	
UniRef90_E4NPX6	M L V D G G I D F I K D D E L Q A D G P H C P F E E R V T A V M R V V N D A A Q		
UniRef90_K9RK11	E A W L G G V D L L K D D E N L T D Q S F N P Y H D R L V E S L A L R D D A E D Q		
UniRef90_W4QFX6	Q V I A Y A G L D I I K D D E L L G D L D V A P T L E R R L K A C R Q V I D E I K Q		
UniRef90_L0UK91	G Q A L G G V D L V K D D E I L F E N E L T P L T N R I V C K E A L K E S E E		
UniRef90_UPI0002883EF9	T L I S A G G L D F I K D D E L M G D P H S P F E Q R F E A V M A V I D R H A D		
UniRef90_Q9GGR4	E Q V L G G V N I I K D D E I L F E N Q L T P F E T R I T E G R K V L D E V Y R		
UniRef90_B3EFP0	UniRef90_F4LRZ3	UniRef90_S9QDJ1	Q S W L G G G D I A K D D E M L A D V D W S T L E E R S R E L G A A R M R A E K
UniRef90_F4LRZ3	UniRef90_S9QDJ1	UniRef90_Q32318	E T A L G G V D L I K D D E L L G G N P N F C K A V D R V K E Y N E A A K A A L E
UniRef90_S9QDJ1	UniRef90_Q32318	UniRef90_A1AWY1	E L A E A G I D F V K D D E L Q A D G P N C P F E D R V R A V M R V I N E H A D
UniRef90_Q32318	UniRef90_A1AWY1	UniRef90_W1JTC5	Q F W L G G G D F I K N D E P Q G N Q V Y A R M K D V T P L V A D A M R R A Q D
UniRef90_A1AWY1	UniRef90_W1JTC5	UniRef90_Q21YM9	T L C E A G I D F I K D D E L Q A D G P H C P F N D R V A V M R E I N S N A D D
UniRef90_W1JTC5	UniRef90_Q21YM9	UniRef90_UPI000375486A	Q F W L G G G D F I K N D E P Q G N Q V F S P I K K T L P L V Y D A L K R A Q D
UniRef90_Q21YM9	UniRef90_UPI000375486A	UniRef90_E7CQ92	T L C Q A G V D F I K D D E V M A N P P N A P L A A R V A Q V M K V I E A H A Q
UniRef90_E7CQ92	UniRef90_M1YY16	UniRef90_T1WZS4	K Q I E G G V D L V K D D E I F F A D G K A P A L E R V K R F E A L N R Q R E E
UniRef90_M1YY16	UniRef90_T1WZS4	UniRef90_X2L1L0	D F L P H D E N L N S Q P F M R W R E R F L Y C L A G I N R G A A
UniRef90_X2L1L0	UniRef90_Q60FK5	UniRef90_X2KYB1	Q A W L G G G D I A K D D E M L A D P D W S P L R Q R S A L L G E A R A R A E Q
UniRef90_X2KYB1	UniRef90_V4JLW9	UniRef90_C0CYW8	E T A L G G V D F I K D D E L L A N P D F C P A A K R V K A Y N E A A K A A Y E
UniRef90_V4JLW9	UniRef90_C0CYW8	UniRef90_W0F514	T L A A A G I D F I K D D E L L S S S A N S K F E D R V A G I M K V I N K H A D
UniRef90_W0F514	UniRef90_Q4KYY4	UniRef90_UPI00046641E6	Q A W L G G G D I I K D D E L I G D R V F N K I E D R V K A N M A A A K R A E E
UniRef90_Q4KYY4	UniRef90_UPI00046641E6	UniRef90_UPI0004742E57	A Q A L G G V D L V K D D E I L F D N E L T P F E K R I T E G K K V L D E V Y K
UniRef90_UPI0004742E57	UniRef90_UPI000304F626	UniRef90_B1G890	E Q A L G G V D L V K D D E I L F E N H H T P F E K R I T R G R K V L Q Q V Y E
UniRef90_B1G890	UniRef90_W4HGZ4	UniRef90_G0WXN0	E L V A G G I D F I K D D E L Q A D G P H C P F D E R V R A V M R V V N A E A D
UniRef90_W4HGZ4	UniRef90_G0WXN0	UniRef90_G9GR4	D L C A A G V D F I K D D E L L S S S A N S K F E D R V A G I M K V I N H A A

	130	140	150	160
UniRef90_Q31785	X X X X X X X X X X X X X X X A N D M I L	H [] H X X X X X X X X X X X X X X X X X		
UniRef90_X0TIA2	T [] G W G G [] Q T A R	N F T K L P I	H A H R A G H A M F D R N P N H G M T	
UniRef90_G9EE18	S V G L A A [] V A H [] L R R H C Q V A L	H G H R A G W G M L S R S P H [] G M A		
UniRef90_I3XPD1	I V G W T A [] Q S L S E W C R N G M L L	H M H R A G H G T Y T R Q K N H G I [] S		
UniRef90_Q85VF1	T G G F T A N T T L A F Y C R D N G L L L	H [] H R A M H A V I D R Q K N H G M H		
UniRef90_G3MF02	T G G F C A N T G L A R W C R N G M L L	H [] H R A M H A V I D R H P K H G I [] H		
UniRef90_UPI00046F3AD0	T V G L D V A R M I T E D P E I N V P I L	G H S D Y V G A S T A C E W C G T S T		
UniRef90_Q31996	V I G Y T S I Q T M A I W A R R N D M I L	H [] H R A G N S T Y S R Q K I [] H G M N		
UniRef90_Q4QSS7	T G G F T A N T T L A H Y C R D N G L L L	H [] H R A M H A V I D R Q K N X X X X		
UniRef90_C6CYF7	S Y G Y D V L H E L S K D S E I N V P I A	A H P A M A G A F Y P S P H Y G I [] S A		
UniRef90_K9DA60	S I G L P A M K M L R A H A	Q L P I H G H R N G W G M L G R S P A I G M S		
UniRef90_UP100036E538A	S I G M G G M A F V R K R S G L A L	H A H R N G W D V L T R H P G I G F D		
UniRef90_C1JFL0	V I G W T A [] Q S I A N W C R K H D M I M	M H M H R A G H G T Y T R Q K N H G V S		
UniRef90_G5E4R3	T A G F T A N T T L A R W C R D N G L L L	H [] H R A V H A V I D R Q K N H G I [] H		
UniRef90_Q95GW3	T I G Y S A I Q T M A I W A R A N D M I L	H L H R A G N S T Y S R Q K I [] H G M N		
UniRef90_G3KET2	V I G Y T A I Q S M S K W A R D N D M I L	H L H R A G H S T Y T R Q R D H G M S		
UniRef90_K014B7	W C G Y S A V Q T L R R H T P L A L	G H H R N G Y G A L S R H P [] L G F S S		
UniRef90_Q7X0C7	T G G F C A N T G L A N W C R D N G V L L	H [] H R A M H A V L D R H P K H G I [] H		
UniRef90_O46973	V I G Y T A I Q T M A I W S R K N D M I L	H [] H R A G N S T Y A R Q K N H G I [] N		
UniRef90_A4ILL5	T Y G L D V L Q G L R E D E N I N V P I M	A H P A F S G A M T P S E F Y G V A P		
UniRef90_V6M6W5	A F G F D A L H R L A A D P D I N L P I M	A H P A L A G A Y Y P S P D Y G I A T		
UniRef90_Q1QSJ9	W I G L G A L A A L R R H S Q L A I H G H	R H R N G W G V F Y R H P Q L G I [] S		
UniRef90_S2WZY6	W V G F A G V E H L R H A Q L P I H G H	R H R N G W G A F T R H Q G L G F S S		
UniRef90_G0WXP2	V I G Y T A I Q S M S N W C R Q N D M I L	H L H R A G H G T Y T R Q K T H G I [] S		
UniRef90_L0ECD9	A Y G F D A L A E L A R D P E I H V P I A	A H P A V S G A I Y P S P H Y G I [] A A		
UniRef90_UPI000465982F	A Y G L D T L H S L A E D S E I A V P I M	A H P A V S G A F T P S P Q Y G L S N		
UniRef90_F5A076	T I G W A A Q A S L S R W C R N N G M L	L H V H R A M H G V L D R N P K H G I [] N		
UniRef90_UP100036FE6F0	P Y G F D V L H E L S S D P E I T V P I A	A H P S L A G A I Y P S P H Y G I [] S A		
UniRef90_F5A0Q1	T A G F T A N T T L H W C R D N G V L L	H [] H R A M H A V I D R Q K N H G I [] H		
UniRef90_B5TIS2	V I G Y T A I Q S M A K W C R K I D C	H L H R A G N S T Y S R Q K N H G M N		
UniRef90_X2L979	T G G F T A N T S L A N Y C R D N G L L L	H L H R A M H A V I D R H P K H G I [] H		
UniRef90_A8FCG8	A Y G L D V M Q S L A E D P D I R L P I M	A H P A V S G A L T S S P E Y G F S H		
UniRef90_E5WDQ7	S Y G L D V L Q S L R R E D D E I G L P I M	A H P A V S G A L S A S S S V Y G I [] S Y		
UniRef90_Q13K83	W C G F S A I Q S L R R T T P L V L H A H	R H R N G Y G M M S R D P A L G M S S		
UniRef90_UP1000378C4E4	P V G M D A C R M L A D D P D I N V P I L	S H C D M Q G A L Y E S P W S G M S A		
UniRef90_F2RM54	T G G F T A N T T L S H Y C R D H S L L	H I H R A M H A V L D R Q K I H G M H		
UniRef90_G8TNH2	S V G M A G V K K I C D Q H Q L A I H A H	R H R N G W G M Q T R H P L L G I [] D		
UniRef90_Q1YLC2	S I G Y G G M T F L R K R S A L C L H A H	R H R N G W D I L T R H P G L G L E		
UniRef90_Q5WQ13	T L G W A A H Q S L S K W C R D N G M L L	H V H R A M H G V I D R N P K H G I [] N		
UniRef90_W1PD34		M H V V I D R Q G N H G I [] H		
UniRef90_D7AAR4	S V G L V G M V E L G R F T E L P I H A H	R N G W G Y L S R A P M L G W S		
UniRef90_I3E804	S Y G L D I L Q E L R E D D D I S L P I M	A H P A F S G A I T S S P Y Y G L S H		
UniRef90_T1X8D1	W C G H S G M Q T L R R H T G L A L H G H	R N G Y G A L S R H P [] L G I S		
UniRef90_E0U8F2	T Y G F S V L E A L A A D P E I N V P I M	A H P A F A G A M C A S A D T G L S Y		
UniRef90_UP100047A6104	S Y G L D V L Q A L A E E K E I H V P I M	A H P A M P A G F I S S P E Y G F S P		
UniRef90_Q8KBL4	P V G L S A V R M I L S N Y T Q V P L I G	H F P F I A S F S R M E K Y G I [] H		
UniRef90_W1N853	A V G L L S G V S E L R R H S A L A I H G H	R A G G W G M L S R H P [] L G I [] D		
UniRef90_Q1YDM7	S V G L T G L T A L R R H A R P I H A H	R N G W G Y L G R S P D D N G W S		
UniRef90_B5EKK0	S V G G P G M I T T A R R Q Y A G Q Y L H Y	R A G H G M I T S P S K R G Y T		
UniRef90_UP100047E4C62	A Y G F D A L A E L A A D P D I T V P I A	A H P S L A G A I Y P S Q Y H G M S A		
UniRef90_N0DLV0	I G Y T A I Q T M A I W A R K A Q M I L H L	H R A G N S T Y A R Q K N H G I [] N		
UniRef90_G2DXM6	P V G L S A V R M I L R K H A R V P L I A	H F P F I A P F S R L G N F G I [] H		
UniRef90_V5W8P0	T G G F T A N T T L A K W C R R N G V L L	H I H R A M H A V I D R Q R I H G I [] H		
UniRef90_A9CVC3	S V G L T G L R A V V R D R S P M I V	H G H R A G W G L F S R S P D I G L S		
UniRef90_F8GV07	S V G I V G L Q E L R R H S Q L P I H A H	R A G W G Y L S R S P A L G W D		
UniRef90_Q0GQ15	S V G G T A H T S L S R W C R D N G V L L	H C H R A M H A V I D R Q K N H G I [] H		
UniRef90_UP10003B3ACA8	A Y G L D V L T E A D E E I T V P I M A H	P A V S G A F T A S A R Y G L D R		
UniRef90_G3EJL3	V I G Y T A I Q S I S K W A R D N N M L L	H R A G S T Y T R Q K S H G V I S		
UniRef90_UP10003708ADC	A Y G L D V L Q E L A E D R D I P V P I M	A H P A I S G A F T S S P H H G I S T		
UniRef90_Q85WD8	T A G F T S N T T L A H Y C R D E G L L L	H I H R A M H A V I D R Q R N H X I [] H		
UniRef90_X6L4C2	S V G L A G L T A L R R H C S L P I H A H	R N G W G M L G R P S D S G W S		
UniRef90_UP10002D69357	S V G L V G M N A L R R H S A L P I H G H	R A G W G Y L S R S P A L G W D		
UniRef90_E4NPX6	T T G W A A V Q T V R E R C E D H G I A I	H A H R A M H A A F D R L E N H G V S		
UniRef90_K9RK11	P Y G F S V L Q A L A T D A D I N V P I F	T H P A L A G A L C A A P D H G I [] S Y		
UniRef90_W4QFX6	L Y G L D V L Q E L S E D P D I P L P I M	A H P F S G A M I S S A D Y G L S P		
UniRef90_L0UK91	S V G L S G V K M R R H S A V A L H G H	R A G W G L F S R S P D V G M S S		
UniRef90_UP10002883EF9	A Y G I D V L Q S L A E D P Q V S I P M	A H P A V S G T L T P S E F Y G F S N		
UniRef90_Q9GGR4	T A G F T A N T T L A E Y C R D Q G L L L	H I H R A M H A V I D R Q K N H G I [] H		
UniRef90_B3EFP0	P V G L S A V R M I L K H T K V P L I G	H F P F I A F S R L E K Y G V H		
UniRef90_F4LRZ3	A V G Y D M L H N L A K N I N V P I L G	H Y A G A G M F Y E G V L N G M S S		
UniRef90_S9QDJ1	S V G L S G F L G L S R H S E L P I H A H	R N G W G Y L S R S P A L G W D		
UniRef90_Q32318	I G Y T A X X X X X X X X X X X X X X X X X X	I G Y T A X X X X X X X X X X X X X X X X X X		
UniRef90_A1AWY1	V G G C G M I T T A R R N Y P N Q Y L H Y	R A G H G A T T S P S S V R G Y T		
UniRef90_W1JTC5	S V G L A G M I E L A K F S Q L P I H A H	R N G W G Y L S R S P Y P M L G W S		
UniRef90_Q21YM9	V G G P G M V T T A R R Q Y P N Q Y L H Y	R G G H G M V T S P S S K R G Y T		
UniRef90_UP1000375486A	W C G Y G A I Q S L R R A T P L A L H G H	R N G W G Y L S R S P D V G M S S		
UniRef90_E7CQ92	V L G Y T A I Q T A A N W A R E N D M I I H L	H R A G N S T Y A R Q K N H G I [] N		
UniRef90_M1YY16	V Y G L D I L H R L A S D P D I P V P I L A	H P A F A G A I Y A S P E H G V S S		
UniRef90_T1WZS4	T G G F T A N T G L A N W C R K N G M L L	H I H R A M H A V I D R H P K H G I [] H		
UniRef90_X2L1L0	T G G F T A N T S L C K Y C G D H G L L L	H I H R A M H G V I D R Q R N H G M H		
UniRef90_Q60FK5	V I G Y T A I Q T A A I W A R A N H M I L H L	H R A G N S T Y A R Q K N H G I [] N		
UniRef90_X2KYB1	T M G W A A H N S L S K W C R D N G M L L	H V H R A M H A V M D R N P N H G I [] N		
UniRef90_V4JLW9	P V G L S A V R M I L R R H A K V P L I A	H F P F I A A V V S R L P N F G V H		
UniRef90_C0CYW8	T V G Y S T F R A I S E Q I P I P V M G	H Y A A S G S N E G L N S G L S S		
UniRef90_W0F514	S V G L S G V K K I C D Q R Q L A I H A H	R N G W G M L T R H P [] L G I D		
UniRef90_Q4KYY4	V I G Y T A I Q T M G V W A R K N D M I L H L	H R A G N S T Y S R Q K S H G M N S		
UniRef90_UP100046641E6	G V G Y S A V R A L A E D P E I T V P I L G	C F T S S P Y Q G Q M S S		
UniRef90_UP10004742E57	A Y G L D V L Q A L R E D D D I N L P I M	A H P A V S G A L T P S E F H G F S N		
UniRef90_UP1000304F626	T Y G L D V L Q E L A E D K E I Q L P I M	A H P A F S G A F T S S A F Y G V S N		
UniRef90_B1G890	S I G L V G M H E L R R H A Q L P I H A H	R A G W G Y L S R S C P E L G W D		
UniRef90_W4HGZ4	W C G L S G M E T L R A H T P L A I H G H	R N G F G A M M R H P V L G M A		
UniRef90_G0WXN0	V I G Y T A I Q S M A Y W A R R N D V I L H	H R A G N S T Y S R Q K N H G M N		

170 180 190 200

UniRef90_Q31785	X G X P L M I X G F Y N T L L		
UniRef90_X0TIA2	M E I I A Q L A R M V G V D T L H I G A V V G K M T G G K D E I L H I E K E I E		
UniRef90_G9EE18	F D A Y H K L W R L A G V D H I H V N G L R N K F S E E D A S V I N S A R A C		
UniRef90_I3XPD1	F R V I A K W L R L A G V D H I H A G T A V G K L E G D P M T V Q G Y Y N V C R		
UniRef90_Q85VF1	F R V L A K A S R M S G G		
UniRef90_G3MF02	F R V L V I K C L R L S G G D H I H T G T V V G K L E G D R A S T L G Y V D L L R		
UniRef90_UPI00046F3AD0	K L M N A K L P R L A G L D M I I A L S P Y G K F P M L M D T F I D C G Y A M		
UniRef90_Q31996	F X V I C K W M R M A G V D H I H A G T V V G K L E G X P X X X X X X X X X X X X		
UniRef90_Q4QSS7	X X		
UniRef90_C6CYF7	S V L L G K L M R L L A G A D L V L F P S P Y G S V V M P K E E N M A V K D A L L		
UniRef90_K9DA60	Y I A F Q K L W R L L A G A D I D H T H V N G I D N K F C E S N E S V I A S A R E C L		
UniRef90_UPI00036E538A	F K V W Q Q F W R L L G V D Q F Q I N G I G V K Y W E P D E S F V E S F K A V T		
UniRef90_C1JFL0	F R V I A K W L R L A G C D H I H T G T A V G K L E G D P M T V Q G Y Y N V C R		
UniRef90_G5E4R3	F R V L A K A L L H M S G G D H I H T G T V V G K L E G D R A I T M G F V D L L R		
UniRef90_Q95GW3	F R V I C K W M R M A G V D H I H A G T V V G K L E G D P L M I R G F Y N T L L		
UniRef90_G3KET2	F R V I A K W M R M A G V D H I H A G T V V G K L E G D P A T I A G I Y D I L R		
UniRef90_K0I4B7	F N A W Q T L W R L L A G V D H M H V H G L Q G K F S Q T D E E V I E S A H D T L		
UniRef90_Q7X0C7	F R V L A K I L R L S G G D H I H T G S V V G K L E G D R A T T L G W I D L L R		
UniRef90_O46973	F R V I C K W M R M A G V D H I H A G T V V G K L E G D P L M V K G F Y N T L L		
UniRef90_A4ILL5	S L L L G K F L R L A G A D F V L F P S P Y G S V A L E R E Q A L G I A R A L T		
UniRef90_V6M6W5	P L L L G L T L M R I A G A D L V L F P S P Y G S V A L D K N E A L K L A D H L		
UniRef90_Q1QSJ9	Y R A Y Q A L L R L L A G A D H L H V N G L L A S K F A E E D A S V M D S A R A C L		
UniRef90_S2WZY6	F Q A Y Q K L W R L L A G V D H L H V N G L R S K F W E P D D S V I A S A R A C L		
UniRef90_G0WXP2	F R V I A K W M R M A G V D H L H G G T V V G K L E G D P A M T R G W Y D Y M R		
UniRef90_L0ECD9	P L L L G K L M R I A G A D L V L F P S P Y G S V V M P K E E N M A L K D A L		
UniRef90_UPI000465982F	Q L A L G K L L R F A G A D F S L F P S P Y G S V A L E K N E T L K I M E S T		
UniRef90_F5A076	F R V L A K M L R L L G G D H L H S G T A V V G K L E G		
UniRef90_UPI00036FE6F0	S L L L G K L M R I A G A D L V L F P S P Y G S V V M P R E E N L A I Q R E L V		
UniRef90_F5A0Q1	F R V L A K C L R M S G G D H I H T G T A V V G K L E G		
UniRef90_B5TIS2	F R V I C K W M R M		
UniRef90_X2L979	F R V L A K C L R L S G G D H I H T G T V V G K L E G D R N S T L G F V D Q L R		
UniRef90_A8FCG8	S L L L G K L N R Y A G A D L S L F P S P Y G S V A L P K K D A F G I Y E A C V		
UniRef90_E5WDQ7	P L L L G K L L R Y A G A D F S L F P S P Y G S V A L E K T L A L S I G D T L T		
UniRef90_Q13K83	F Q A Y Q T L W R L L S G V D H M H V H G L A G K F A Q S D A E V I E S A R D C		
UniRef90_UPI000378C4E4	S L V C S K L P R L L A G L D M G I V L S P Y G K F P L T M D T F I Q A G Y A C L		
UniRef90_F2RM54	F R V L A K A L R L S G G D H L H S G T V V G K L E G D R E V T L G F V D L M R		
UniRef90_G8TNH2	F R A Y Q K L W R V L V A G V D H L H V N G L Q N K F W E S D D S V V A S I K A L Q		
UniRef90_Q1YLC2	F R A Y Q K I W R L L G V D Q F Q I N G I Q A K Y W E P D E S F V R F E D C M T		
UniRef90_Q5WQ13	F R V L A E L L R L M G G D H I H S G K M V G N L E G D R E A T L G W D L L M R		
UniRef90_W1PD34	F R I L A K A L R L M S S G D H I H S G S V V G K L E G E R D A T L S I V D L L R		
UniRef90_D7AAR4	Y V A W Q K I W R L L A G A D H M H V N G L S N K F S E A D D S V I A S A R E C L		
UniRef90_I3E804	S L L L G K L T R Y A G A D F S L F P S P Y G T V V A L E R D K A I A V A V A L R		
UniRef90_T1X8D1	F Q A Y Q T L W R L L A G V D H M H V H G L Q G K F S Q P D S E V I E S A R D C F		
UniRef90_E0U8F2	S V I L G T L M A H A G V D A V L V Y P A H Y G S L P F E A Q E E H N I R D N L R		
UniRef90_UPI00047A6104	A L L L G K L L R V L V G A D F V L F P S P Y G S V A M E K E A T L G I A K N L		
UniRef90_Q8KBL4	S K V M T K L Q R L L A G L D A V I M P G F G D R R M M T P E E E V L		
UniRef90_W1N853	F A A W Q V F W R L V V G V D H L H V N G L D N K F S E S N D S V T A S A R A C L		
UniRef90_Q1YDM7	Y V A W Q K I W R L L A G V D H M H V N G L A N K F W E P D D S V V A S A K A C L		
UniRef90_B5EKK0	A F V L A K M S R L Q G A S G I H V G T M G Y G K M E G G A D D R N I		
UniRef90_UPI00047E4C62	A L L L G K L M R I A G A D L S L F P S P Y G S V V M P K A E N L A V K E A L L		
UniRef90_N0DLV0	F R V I C K W M R M S G V D H I H A G T V V G K L K		
UniRef90_G2DXM6	S Q V F S K L Q R L L A G F D S I I M P G F G E R M H T S D E E V L A N V D A C L		
UniRef90_V5W8P0	F R V L A K C L R L S G G D H L H S G T V V G K L E G E R D I T L G F V D D Q M R		
UniRef90_A9CVC3	F T A F Q K L W R L L A G A D H V N G L A S K F T E S D E V V A Q S A R S V Q		
UniRef90_F8GV07	Y A P W Q K I W R L L A G A D H V N G L R N K F S E A D E S V I A A A K A V L		
UniRef90_Q0GQ15	F R V L A K W L R M A G G D H I H N G T V V G K L E G		
UniRef90_UPI0003B3ACA8	Y P A W A T L W R V A G V D H M H V N G I A N K F W E P D E S S V A S A R A C L		
UniRef90_G3EJL3	F A A W Q S L W R L L V G V D H L H V N G L R N K F S E S D D T V T V I A S A R A V T		
UniRef90_UPI0003708ADC	M R V L A Q I S R L C G V D Q L H T G T A G L G K L A N E D T V G I N D W M R		
UniRef90_Q85WD8	S V I L G T F M A H G G A D A V L Y P A H Y G S L P F D A S E E A K I K N S L R		
UniRef90_X6L4C2	S L L L G K L L S R M A G A D F V L F P S P Y G S V A L E R E Q T L A I A		
UniRef90UPI0002D69357	F R V L A K Q F K W R L L A G A D H L H V N G I A N K F W E P D E S S V A S A R A C L		
UniRef90_E4NPX6	Y P A W A T L W R V A G V D H M H V N G I A N K F W E P D E S S V A S A R A C L		
UniRef90_K9RK11	M R V L A Q I S R L C G V D Q L H T G T A G L G K L A N E D T V G I N D W M R		
UniRef90_W4QFX6	S L L L G K L L S R M A G A D F V L F P S P Y G S V E M A K E T I K I A R E L T		
UniRef90_L0UK91	Y L L A Y Q K F W R L L A G A D H M H V N G L S N K F C E P D D S V M A S A H A C L		
UniRef90UPI0002883EF9	K L L L G K L L R Y A G A D L V L F P S P Y G S V A L E R E Q T L A I A		
UniRef90_Q9GGR4	F R V L A K A L R L S G G D H L H S G T V V G K L E G E R E V T L G F V D I M R		
UniRef90_B3EFP0	S R V M T K L Q R L L A G D S I I M P G F G S R M M T P E E E V M D N I R E C L		
UniRef90_F4LRZ3	P L A I G K L P R L L A G A D I V M M N T P Y G G Y P L K Y Q K Y I Q T T N E L		
UniRef90_S9QDJ1	Y P A W S K F W R L L A G A D H M H V N G L G N K F S E P D E S V M R S A R S L F		
UniRef90_Q32318	X E G D P L M I Q G F Y N T L L		
UniRef90_A1AWY1	A F V L G K L S R L M G A S G I H V G T M G Y G K M E G G A D D R N I		
UniRef90_W1JTC5	F V A W H K I W C L A G A D H M H V N G L A N K F S E C D E S V I E A A R A C L		
UniRef90_Q21YM9	A L V L A K M S R L Q G A S G I H V G T M G Y G K M E G G A D D R N I		
UniRef90UPI000375486A	F H A Y Q V L W R L L A G V D Q L H H A G T V V G K L E G D P L M I K G F Y D V L R		
UniRef90_E7CQ92	F R V I C K W M R M S G V D H I H A G T V V G K L E G D P L M I K G F Y D V L R		
UniRef90_M1YY16	S L L L G K F L R L L A G A D F V L Y P S P Y G S V A M P K E E S L S V A D R L R		
UniRef90_T1WZS4	F R V L A K C L R L S G G D Q L H T G T V V G K L E G D R Q T T L G F V D L M R		
UniRef90_X2L1L0	F R V L A K A L R M S G G D H L H S G T V V G K L E G E R E V T L G F V D L M R		
UniRef90_Q60FK5	F R V I C K W M R M A G V D H I H A G T V V G E L E G D P L M I Q G L Y D T L L		
UniRef90_X2KYB1	F R V L T K V L R L L G G D H L H S G T V V G K L E G D R A T T L G W I N Q M R		
UniRef90_V4JLW9	T R V L T R L L Q R L L A G F D V I I M P G F G S R M R V T E A E V L E N V A A C V		
UniRef90_C0CYW8	H L S I G K F P R M A G A D L V M M N T P Y G G Y P L T R Q Q Y F K T A H Q L		
UniRef90_W0F514	F R A Y Q K I W R L L A G V D Q L H H V N G I Q N K F W E T D D S V V A S I N A C		
UniRef90_Q4KYY4	F R V I C K W M R M A G V D H I H A G T V V G K L E G D P L M I R G F Y N T L L		
UniRef90UPI00046641E6	S K V M A K L A R M A G V D C Y L T Q P P Y G K F		
UniRef90UPI0004742E57	S L L L G K L L R L L A G A D F S L F P S P Y G S V A M P L E D T A G I		
UniRef90UPI000304F626	P L L L G K L T R Y L L A G A D F S L F P S P Y G S V A L E K D V A L A A E E L T		
UniRef90_B1G890	Y A P W Q M I W R L L A G A D H L H V N G L R N K F S E D D S V V A S I N A C		
UniRef90_W4HGZ4	F P A Y Q A L Y R L L A G V D H M H V H G I G G K F V D S A D D V T E A A R A C L		
UniRef90_G0WXN0	F R V I C K W M R M A G V D H I H A G T V V G K L E G E P K M I K G F Y K T L L		

UniRef90_Q31785
 UniRef90_X0TIA2
 UniRef90_G9EE18
 UniRef90_I3XPD1
 UniRef90_Q85VF1
 UniRef90_G3MF02
 UniRef90_UPI00046F3AD0
 UniRef90_Q31996
 UniRef90_Q4QSS7
 UniRef90_C6CYF7
 UniRef90_K9DA60
 UniRef90_UPI00036E538A
 UniRef90_C1JFL0
 UniRef90_G5E4R3
 UniRef90_Q95GW3
 UniRef90_G3KET2
 UniRef90_K014B7
 UniRef90_Q7X0C7
 UniRef90_O46973
 UniRef90_A4IL55
 UniRef90_V6M6W5
 UniRef90_Q1QSJ9
 UniRef90_S2WZY6
 UniRef90_G0WXP2
 UniRef90_L0EC09
 UniRef90_UPI000465982F
 UniRef90_F5A076
 UniRef90_UPI00036FE6F0
 UniRef90_F5AQ01
 UniRef90_B5TIS2
 UniRef90_X2L979
 UniRef90_A8FCG8
 UniRef90_E5WDQ7
 UniRef90_Q13K83
 UniRef90_UPI000378C4E4
 UniRef90_F2RM54
 UniRef90_G8TNH2
 UniRef90_Q1YLC2
 UniRef90_Q5WQ13
 UniRef90_W1PD34
 UniRef90_D7AAR4
 UniRef90_I3E804
 UniRef90_T1X8D1
 UniRef90_E0U8F2
 UniRef90_UPI00047A6104
 UniRef90_Q8KBL4
 UniRef90_W1N853
 UniRef90_Q1YDM7
 UniRef90_B5EKK0
 UniRef90_UPI00047E4C62
 UniRef90_N0DLV0
 UniRef90_G2DXM6
 UniRef90_V5W8P0
 UniRef90_A9CVC3
 UniRef90_F8GV07
 UniRef90_Q0GQ15
 UniRef90_UPI0003B3ACA8
 UniRef90_G3EJL3
 UniRef90_UPI0003708ADC
 UniRef90_Q85WD8
 UniRef90_X6L4C2
 UniRef90_UPI0002D69357
 UniRef90_E4NPX6
 UniRef90_K9RK11
 UniRef90_W4QFX6
 UniRef90_L0KU91
 UniRef90_UPI0002883EF9
 UniRef90_Q9GGR4
 UniRef90_B3EFP0
 UniRef90_F4LRZ3
 UniRef90_S9QDJ1
 UniRef90_Q32318
 UniRef90_A1AWY1
 UniRef90_W1JTC5
 UniRef90_Q21YM9
 UniRef90_UPI000375486A
 UniRef90_E7CQ92
 UniRef90_M1YY16
 UniRef90_T1WZS4
 UniRef90_X2L1L0
 UniRef90_Q60FK5
 UniRef90_X2KYB1
 UniRef90_V4JLW9
 UniRef90_C0CYW8
 UniRef90_W0F514
 UniRef90_Q4KYY4
 UniRef90_UPI00046641E6
 UniRef90_UPI0004742E57
 UniRef90_UPI000304F626
 UniRef90_B1G890
 UniRef90_W4HGZ4
 UniRef90_G0WXN0

210 220 230 240

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

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

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

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

 A E D F V P Q N L E H G V F F D Q P W A S L G K V M P V A S G
 E D S I Y K Q T F P V P S A G I H P G L V P V L
 D P I V E K D R P W S I L L H R D W G
 T P L H P D H P R T V M P V F S S G Q T V L Q A D A T Y
 R P L F Q D P M A A M P V F S S A Q T G L Q A H D T F
 S E L Y G L N D V L P V A S G G I H P G L I P D L
 D R N V F P V P S A G I H P G I V P Q A
 A K D L Y H R A F P V P S A G I H P G L T P K L
 T P M T E L T K T D E Q F K P S F P V P S A G I H P G L V P L L
 F G R A D R P D T V M P V F S S G Q T A V Q A G E T Y
 Q D F G H I R T S L P V P G G S D S A L T L E T V Y R K V G S F D F G
 D A Y I E K D R S R G V Y F T Q D W A S L P G V M P V A S G
 Q P L Y Y N I K P S M P A V G G G V H P G I A E R Y
 D P M F E D K P C V P M P V F S S G Q S A V Q P P E T F
 M S H L D Q D L I K G I F F E Q D W A S L R K V T P V A S G G I H C G Q M H Q L
 A Y M I E R D S A D G P V Y H Q E W F G M K P T T P I I S G G M N A L R L P G F
 T P M F A D K P C I S M P V F S S G Q G V K Q V P H T Y
 A Y M I E R D E C Q G P V Y F Q K W Y G I K P T T P I V S G G M N A L R L P G F
 Q P L A G G D A I M P V F S S G Q W A G T V P T F
 L T K L D I N L P F G I F F E M D W A S L R K C L P V A S G G I H C G Q M H Q L
 U N I R E F 9 0 _ M 1 Y Y 1 6 R P Y G N I K P S L P A P S A G I H P G L V P V L
 E S F V P E D R S R G N F F D Q D W G
 D D Y I E K D R A R G I Y F T Q D W A S M A G V M P V A S G G I H V W
 K T K L S I D L P K G I F F D M D W A S L R K C L P V A S G G I H C G Q M P Q L
 D K F V K E D R S M G I F F D Q D W G S M P G V F P V A S G G I H V W
 D P M G P I K P A L P V P G G S D S A A T L E R Y
 S L P C C H L K P T M P I C G G G V H P G M V Q R F
 L T K L F D Q Q N V L P V V S S G Q W G G Q A F E T W
 D N T F D N Y I I N L I T S K A K M Y D I K P M L P F V G G G V P G L V P K F E
 T Y E V T R P L H T Y K Q T F P V P S A G I H P G M V P Q L
 K E T T F K R T F P V P S A G I H P G L V P L L
 A P V M R E A P M S A M P V F S S G Q T G L Q A A D T Y
 A P L A E G A D D R V L P A F S S G Q W A G T L G S A L
 D L T T K H D F A Y G L Y F S Q E W A S L R K C V P V A S G G I N A G Q M H F L

290 300 310 320

UniRef90_Q31785	X T A L D X W K D T F N Y T
UniRef90_XOTIA2	I S E K Y S K T H E E L K A L I E F W K
UniRef90_G9EEI8	I P A T Y A R E H Q E L A Q A M E T F
UniRef90_I3XPD1	L T E N Y S T A S D K E V S H E A A K W C D S V E G A D Y Y E S F N Y T
UniRef90_Q85VF1	
UniRef90_G3MF02	
UniRef90_UPI00046F3AD0	Q S E K A G K Q Y E E G A A N A W G Y K E N
UniRef90_Q31996	X X X X X X X F A E G P Q L R D A A K T C G P L Q T G L D L W K D T F N Y T
UniRef90_Q4QSS7	R N E G R D L A R E G N E I I R E A S K W S P E L A A A C E V W K E K F E F E
UniRef90_C6CYF7	V P L R E A A A Q P G N E P L Q A A D A W G
UniRef90_K9DA60	V D Q A E A A S Q A P E L R D A L A A F
UniRef90_UPI00036E538A	I P E T Y A E D H P E L A A S L K K F G
UniRef90_C1JFL0	
UniRef90_G5E4R3	
UniRef90_Q95GW3	X X X X X X X X X X X X X X R D A A K T C G P L Q T A D L W K D M T F N Y T
UniRef90_G3KET2	
UniRef90_K014B7	R N E G R E E K E G K D I L T Q A A Q H S P E L R R A I E F F G
UniRef90_Q7X0C7	R K E G R D Y L K E G P K I L R A A G D Q C T P L R V A L D L W K D S F N Y T
UniRef90_O46973	R L R E A V K E N E A L L Q K A I D R W G A E V E
UniRef90_A4ILL5	R S L Q D A A A D S A E L A I A L E K W G
UniRef90_V6M6W5	V S L E D H A K Q E P D L A V A L R A F
UniRef90_Q1QSJ9	I G L D T Y A K T H P A L Q R A M A H F
UniRef90_S2WZY6	
UniRef90_G0WXP2	
UniRef90_L0ECD9	A G E P L R E A A K R H D E L R A A E A W G
UniRef90_UPI000465982F	A K K T L S D A A Q T N E E L R Q A L E L W G D
UniRef90_F5A076	V P L E Q A A Q S L P E L M A A L D T W G
UniRef90_F5A0Q1	
UniRef90_B5TIS2	
UniRef90_X2L979	
UniRef90_A8FCG8	E S I Q E K T A S C Q D L K A A L E L W G R V
UniRef90_E5WDQ7	A S L T D A P S N F P E L K K A I D L W G
UniRef90_Q13K83	
UniRef90_UPI000378C4E4	A S L K E A C K D T K N A G T P V Y A E H M P E L R R A L A F F G
UniRef90_F2RM54	R N E G R S L A A E G N N N I
UniRef90_G8TNH2	L S K E L L K S A I D A W G
UniRef90_Q1YLC2	L S L A D K A R D H P E L A A S L A K W G
UniRef90_Q5WQ13	
UniRef90_W1PD34	C N E G C D L A R E G N E V I R E A S R W S P G L A A A C E V W K E K F E F E
UniRef90_D7AAR4	V P L A D Y A R D H T A L L A R A L E T Y
UniRef90_I3E804	K L L S E S A E T S E E L R K A I D L W G S F E
UniRef90_T1X8D1	R A G T A L E E A A R S A P E L A R A L A F F G
UniRef90_E0U8F2	Q P F T V D S L P P G E Q G I S L E E L A K G S E E L A K A L N W G D A K
UniRef90_UPI00047A6104	E S A L G V D A A Q Y G R E H P E L A R A L E A F
UniRef90_Q8KBL4	V P L Q E A A A A S P D L A V A V K T F
UniRef90_W1N853	A G D P L E Y A R E H K E F A R A F E S F P G D A D K L Y P G W R E
UniRef90_Q1YDM7	V S L E Q Y A Q Q H E E L R I A I E R W G
UniRef90_B5EKK0	
UniRef90_UPI00047E4C62	V S L D E R A K T H T E L E A A M T A F G
UniRef90_N0DLV0	
UniRef90_G2DXM6	
UniRef90_V5W8P0	
UniRef90_A9CVC3	I P L A R H A A A A K E G V D E M Y A A N A P E L K S A L E T F K
UniRef90_F8GV07	
UniRef90_Q0GQ15	
UniRef90_UPI0003B3ACA8	G E L S D V D D A R P E L A K A L S L W G
UniRef90_G3EJL3	
UniRef90_UPI0003708ADC	R T L E E A A K Q H E D L R V A L E L W G T G K
UniRef90_Q85WD8	
UniRef90_X6L4C2	I P A G D L E Q A A R E D P R L A A A I R A F
UniRef90_UPI0002D69357	UniRef90_E4NPX6 K S L K A Y A A T R P A L Q S A L L G F W
UniRef90_K9RK11	E S F E L E S L N D G L E E S A D D S P E L A T A I D E W G
UniRef90_W4QFX6	
UniRef90_L0KU91	Q S L K D A A Q H S V E L R Q A I E L W G
UniRef90_UPI0002883EF9	I P A R D Y A A T H P E L E A A L Q A F G
UniRef90_Q9GGR4	K T L V E F A K N S P E L K K A I E L W G
UniRef90_B3EFP0	V P I E I Y A Q G R P E L Q A M D
UniRef90_F4LRZ3	V P L D E A A K E H S E L K I A L D L W G Y K K
UniRef90_S9QDJ1	
UniRef90_Q32318	A G V P A E T Y A K D H P L Q T A L D L W K D S F N Y T
UniRef90_A1AWY1	R N E G R D Y V K E G P Q I L R D A A K T C G P L Q T A L D L W K D S F N Y T
UniRef90_W1JTC5	K A D P L E F A K D H N E F A R E S F P N D A D S L Y P G W R D
UniRef90_Q21YM9	V P Q A D Y A L T H P A L Q A A M D
UniRef90_UPI000375486A	G A D P L E W A K E H R E F A R A F E S F P Q D A D R L F A G W R D
UniRef90_E7CQ92	V A L P R H A Q T H P A L A A A L D F Y G
UniRef90_M1YY16	Y S L R E A A A R S V K L S L A E K W G V V
UniRef90_T1WZS4	
UniRef90_X2L1L0	
UniRef90_Q60FK5	
UniRef90_X2KYB1	
UniRef90_V4JLW9	A G V D V N E Y A R E R P E L A A A M E Q F G
UniRef90_C0CYW8	T P L T T A A A H H P E L K T A L S L F
UniRef90_W0F514	G S T L Q E A A A Q Y R E F G K S A E K F G
UniRef90_Q4KYY4	
UniRef90_UPI00046641E6	R N E G R D Y V A E G P Q X X Q D A A K
UniRef90_UPI0004742E57	Q P L E D T L R E K A K E C K E L E V S L E K W G
UniRef90_UPI000304F626	V P G E E L S E V V I K E Q D E L R E A L K L W G A V K
UniRef90_B1G890	
UniRef90_W4HGZ4	V P L K Q H A A R H P A L N A A L E F W K
UniRef90_G0WXN0	A G E D L S A A R A S R P A L A A A L D T F G

UniRef90_Q31785 S T D T

UniRef90_XOTIA2

UniRef90_G9EEI8

UniRef90_I3XPD1

UniRef90_Q85VF1

UniRef90_G3MF02

UniRef90_UPI00046F3AD0

S T D T

UniRef90_Q31996

S T D T

UniRef90_Q4QSS7

A M D T

UniRef90_C6CYF7

UniRef90_K9DA60

UniRef90_UPI00036E538A

UniRef90_C1JFL0

UniRef90_G5E4R3

UniRef90_Q95GW3

S T D T

UniRef90_G3KET2

UniRef90_K0I4B7

UniRef90_Q7X0C7

UniRef90_O46973

S T D T

UniRef90_A4ILL5

UniRef90_V6M6W5

UniRef90_Q1QSJ9

UniRef90_S2WZY6

UniRef90_G0WXP2

UniRef90_L0ECD9

UniRef90_UPI000465982F

UniRef90_F5A076

UniRef90_UPI00036FE6F0

UniRef90_F5A0Q1

UniRef90_B5TIS2

UniRef90_X2L979

UniRef90_A8FCG8

UniRef90_E5WDQ7

UniRef90_Q13K83

UniRef90_UPI000378C4E4

UniRef90_F2RM54

UniRef90_G8TNH2

UniRef90_Q1YLC2

UniRef90_Q5WQ13

UniRef90_W1PD34

A M D

UniRef90_D7AAR4

UniRef90_I3E804

UniRef90_T1X8D1

UniRef90_E0U8F2

UniRef90_UPI00047A6104

UniRef90_Q8KBL4

UniRef90_W1N853

UniRef90_Q1YDM7

UniRef90_B5EKK0

UniRef90_UPI00047E4C62

UniRef90_N0DLV0

UniRef90_G2DXM6

UniRef90_V5W8P0

UniRef90_A9CVC3

UniRef90_F8GV07

UniRef90_Q0GQ15

UniRef90_UPI0003B3ACA8

UniRef90_G3EJL3

UniRef90_UPI0003708ADC

UniRef90_Q85WD8

UniRef90_X6L4C2

UniRef90_UPI0002D69357

UniRef90_E4NPX6

UniRef90_K9RK11

UniRef90_W4QFX6

UniRef90_L0KU91

UniRef90_UPI0002883EF9

UniRef90_Q9GGR4

UniRef90_B3EFP0

UniRef90_F4LRZ3

UniRef90_S9QDJ1

UniRef90_Q32318

S T D T

UniRef90_A1AWY1

UniRef90_W1JTC5

UniRef90_Q21YM9

UniRef90_UPI000375486A

UniRef90_E7CQ92

UniRef90_M1YY16

UniRef90_T1WZS4

UniRef90_X2L1L0

UniRef90_Q60FK5

UniRef90_X2KYB1

UniRef90_V4JLW9

UniRef90_C0CYW8

UniRef90_W0F514

UniRef90_Q4KYY4

UniRef90_UPI00046641E6

UniRef90_UPI0004742E57

UniRef90_UPI000304F626

UniRef90_B1G890

UniRef90_W4HGZ4

UniRef90_G0WXN0

1 10 20 30 40

UniRef90_U1WDJ1
 UniRef90_U7GFY8
 UniRef90_X2L0J3
 UniRef90_K9XQN8
 UniRef90_H1YB65
 UniRef90_UP100037E3117
 UniRef90_M9SFF0
 UniRef90_W8KKW5
 UniRef90_UP1000382EB1B
 UniRef90_UP10004248EF3
 UniRef90_UP10003782C46
 UniRef90_A3X9D1
 UniRef90_UP10003F4AFC6
 UniRef90_F4XPV2
 UniRef90_Q2RRP5
 UniRef90_W9E1H0
 UniRef90_H6SR69
 UniRef90_Q32635
 UniRef90_A6H556
 UniRef90_K1YJ0
 UniRef90_UP100040528A8
 UniRef90_UP10003704DEF
 UniRef90_A7JG7
 UniRef90_R9T8T7
 UniRef90_B6WB10
 UniRef90_C5H3A3
 UniRef90_UP1000425046C
 UniRef90_U4WSK5
 UniRef90_A0A021X0E6
 UniRef90_H2CI18
 UniRef90_F5A010
 UniRef90_UP10004792AB6
 UniRef90_UP100034BBB63
 UniRef90_X6L437
 UniRef90_B1C9J3
 UniRef90_16YD88
 UniRef90_C1IE0
 UniRef90_B7JZ27
 UniRef90_A7BYT9
 UniRef90_D9SHP6
 UniRef90_B0LQY6
 UniRef90_X2L216
 UniRef90_H8Z136
 UniRef90_I0JTZ9
 UniRef90_C3P745
 UniRef90_UP100047909EF
 UniRef90_A6W001
 UniRef90_Q6TEV4
 UniRef90_Q5SCL0
 UniRef90_16YD22
 UniRef90_U3MFP0
 UniRef90_B0LQZ8
 UniRef90_V5UID9
 UniRef90_U3MK29
 UniRef90_V8QVL4
 UniRef90_B0LQZ6
 UniRef90_X0Z867
 UniRef90_C5H371
 UniRef90_F7STU9
 UniRef90_Q59462
 UniRef90_Q0FNR2
 UniRef90_U3MDM8
 UniRef90_A3PRW6
 UniRef90_A8T1S6
 UniRef90_D2SC10
 UniRef90_M1GMR9
 UniRef90_UP100036905D4
 UniRef90_G2E110
 UniRef90_R7CTT0
 UniRef90_Q6X766
 UniRef90_C5H3B8
 UniRef90_C8XHW0
 UniRef90_W2Q3S5
 UniRef90_K2A722
 UniRef90_Q32594
 UniRef90_G5ILX4
 UniRef90_E7BJF4
 UniRef90_Q5ENN5
 UniRef90_Q6Y9H5
 UniRef90_I7HIY8
 UniRef90_B0MD38
 UniRef90_M5JJ6
 UniRef90_UP10003645BC8
 UniRef90_UP100035CDDA6
 UniRef90_J9ZCF3
 UniRef90_Q28MT2
 UniRef90_A7BL54
 UniRef90_Q33114
 UniRef90_SOFK9
 UniRef90_UP10003829AB0
 UniRef90_G8LZL2
 UniRef90_H5T867

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

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

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

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

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

K D G G Y | A G T | I I K P K L G L R P E P F A E A A Y

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

T I K P K L G L S G K N Y G R V V Y

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

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

P A F G | V A G T R K | L M G V | P D G V L I G T | I V K P N V G L V E E E F R G V V R

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

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

G G L | V V G T | I I K P K L G L Q P K P F G E A C Y
 I I K P K L G L Q P K P F G Q A C Y

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

	90	100	110	120
UniRef90_U1WDJ1	A S G R P V L Y A A N	L T G P V H Q L V	D K A K Y A I D R G A T C L L L N V L	
UniRef90_U7GFY8	R T G R K V M Y A F N	I T D E L D V M R R N A D L L Q Q A G G T C A M V S L F		
UniRef90_X2L0J3	E T G E R K G H Y L N	V T A P T F D E M M K R A E Y A K E I G A P I I M H D Y L		
UniRef90_K9XQN8	K T G K I V L Y A I N	L T G R A D R L L Q K A R L L V Q S G A N A L L F N V L		
UniRef90_H1YB65	K T G K K V M Y A F N	I S D E V D S M L H R Y E Y I L K A G G T C A M I		
UniRef90UPI00037E3117	R T G K K T M Y A F N	I T D D I E P M L R H D T V V K H G G N C V M V S I N		
UniRef90_M9SFF0	E G G H M M H A I N	I S S N A N D I V Q L A E D V Q S W G A R E L L M V D V L		
UniRef90_W8KKW5	A T G T P K I Y L A N	I T D E V D R L L H D A A V A R G A N A L L I N A L		
UniRef90UPI000382EB1B	E T G R T V L Y A V N	V T G R S P L E M A R R I L V R E G A N A L L L N V L		
UniRef90UPI0004248EF3	A T G E A K L F S A N	I T A D D H H E M L A R A E F I L E T F A E N A D H D G Y		
UniRef90UPI0003782C46	R T G K S V M V A F N	I T D E T D A M R R H A D L I A R E G G T C A M V S L N		
UniRef90_A3X9D1	K M G G K R V M Y A F N	I T D E L D Q M W R N L E L L E T Y G G T C A M V C M S		
UniRef90UPI0003F4AFC6	A T G E K T L Y A V N	I S G R T F E L K E K A K R A V D A G A S A L L F N V F		
UniRef90_F4XPV2	Q T G R T V L Y A V N	V T G S A D K L L D K A H T L V K E G A N A L R L N V L		
UniRef90Q2RRP5	E T G E A K L F S A N	I T A D D P F E I I A R G E Y V L E T F G E N A S H D G Y		
UniRef90_W9E1H0	E T G H K K V H S F N	V T A A D Y D T M I S R C E M I K N S W M E A G S Y A F L		
UniRef90_H6SR69	E T G Q A K L F S A N	I T D E L D Q M W R N L E L L E T Y G G T C A M V C M S		
UniRef90_Q32635				
UniRef90_A6H556				
UniRef90_K1YIJO	E T G H K K V H S F N	V S A A D Y D T M I S R C E M I K N S W M E A G S Y A F L		
UniRef90UPI00040528A8	I T G E K T L Y A V N	L T G R T Y E L K D K A K R A V E L G A S A L L F N V F		
UniRef90UPI0003704DEF	R T G K K V M Y A F N	I S D E M D A M H R K Y D Y V V Q S G G T C A M I S I N		
UniRef90_A7JG7	R R G R K V M V A F N	I T G D L D E M R R R H D L V L A E G G T C V M V C L N		
UniRef90_R9T8T7	E S G H I M V H A I N	V S T K G H E I V E V A E R V Q E L G A S E I I M V D V I		
UniRef90_B6WB10	E T G K K T L Y V P N	I T D H V D K I L D N A K M A V D K G A K I L V M L N F A		
UniRef90_C5H3A3	Q T G E V K G H Y L N	V T A A T M E D M Y E R A N F A H E L G S C I V M I D		
UniRef90UPI000425046C	K T G K K V M Y A F N	I S N E L D E M Q R N Y D T I L A H G G T C A M I S L N		
UniRef90U4WSK5	Q T G K P V L Y A N	T G P S S Q L I E R A K Q A V D A G A S C L L F N A L		
UniRef90AOA021X0E6	K T G K K V M Y A F G	I S H A D P D E M M R N H D L V L A A G G N C A V V V N I N		
UniRef90H2CI18	E T G E A K L F S A N	I T A D D P A E I I A R G E F I R E F G E H A D H V A F L		
UniRef90F5A010	S T G E V K G H Y L N	V T A A T M E D M Y E R A E F A K E L L G S I I I M I D		
UniRef90UPI0004792AB6	Q T G H R T L Y A V N	T G R T S Q L K E K A K R A A E L G A D L L L F N V F		
UniRef90UPI00034BBB63	E T G V P K I Y L A N	I T D E V D R L A E L H D V A V N A G A G A L L V N T M		
UniRef90X6L437	K T G K R V M Y A W G	I S S A D P E E M M A N H D L V L E H G G N A A V V N I N		
UniRef90B1C9J3	Q T G E K K L Y T V N	L T E D S F K I K D L A Y R A L D A G A N A L M I N T Y		
UniRef90I6YD88	S T G E V K G H Y L N	V T A A S M E E I Y E R A E F A K E I I G S I I V M I D		
UniRef90C1IE0		E E M M K R A E C A K E L L G M P I I M H D Y L		
UniRef90B7JZ27	N T G K T V L Y A T N	V T G K G Y Q V L E T A K L L V K E G A N A L L L N V L		
UniRef90A7BYT9	K T G K N S I Y V P N	I T A P A T E I M Q R V H Y A K H Q G A G G L L I A P G		
UniRef90D9SH6	E T G Q A K L F S A N	I T A D D Y K Y E M I H R G D F V L E T F A K Y F L V D G F		
UniRef90B0LQY6	A T G E V K G K S Y L N	V T G A T I E D M Y E R A D F A K E L L G S V I V M I D		
UniRef90X2L216	G T G E R K G H Y L N	V T A D T P E E M Y K H A E F A K E V G S P I L M H D F L		
UniRef90H8Z136	E T G Q A K L F S M N	V T A D D H Y E M C A R A A D F V L E T F G S A L L V D G Y		
UniRef90I0JT29	R P S E V K G H Y L N	I T A G T M E E M Y R R A E F A K D L G S V V V M I D		
UniRef90C3P745	T Y G H K T L Y A V N	V T G R T F D K E N A K R A V Q A G A D I L L F N V F		
UniRef90UPI00047909EF	K T G K K V M Y A F N	I S D E I D A M Q R K Y E H I Q K N E G T C A M I		
UniRef90A6W001	K S G K K V I Y A F N	I C H S D I G E I E R N H E Y L K S K G G D A A V I N V N		
UniRef90Q6TEV4	A T G E V K G H Y L N	V T A G T M E E M Y E R A D F X K S L L G S C I V M I D		
UniRef90Q5SCL0	E T G E I K G H Y L N	I T A G T C E E M I K R A V F A R E L G V P I V M H D Y L		
UniRef90I6YD22	V S G E V K G H Y L N	V S A A T M E D M Y E R A E F A K A L L G S V I V M I D		
UniRef90U3MFP0	A T G E V K G T Y L N	V T A G T M E E M Y K R A E F A K D L G S V I I M I D		
UniRef90B0LQZ8	E T G E I K G H Y L N	V T A G T M E E M Y R R A N F A K E I I G S V V V M I D		
UniRef90V5UID9	R T G K Q V M V A F N	I T D E T G E M L R H A D L V Q R E G G N C V M V S L N		
UniRef90U3MK29	A T G E V K G S Y M N	V T A A T M E E C I L R A E Y A K E L G T I I I M V D		
UniRef90V8QVL4	R T G K K V M M A F N	I S D D L D A M R R H A D L V R Q Q E G T C V M A S L N		
UniRef90B0LQZ6	V T G E I K G H Y M N	V T A A T M E E M Y E R A E F A K E L L G S I I I M Q D		
UniRef90X0Z867	E T G E K K I Y M P N	I T A P L T T M K K R A D F V I E N G G E Y I M L D I L		
UniRef90C5H371				
UniRef90F7STU9	R T G R Q V M V A F N	I T D E T D A M R R H A D L I E R E Q G S C V M A S L N		
UniRef90Q59462	A T G Q A K L F S A N	V T A D F H E E M I K R G E Y V L G E F A K Y G N V D G F		
UniRef90Q0FNR2	R T G R K V M M A F N	I T D E T D A M R R H A D L V A R E G G S C V M A S L N		
UniRef90U3MDM8	Q S G E V K G H Y L N	V T A S T M E D M Y E R A E Y S K E V G S V I S M I D		
UniRef90A3PRW6	E T G E A K L F S A N	I T A D D H Y E M V A R G E Y I L E T F G E N A D H D G Y		
UniRef90A8T1S6	A T G E V K G H Y L N	V T A A T M E E M Y A R A Q L A K E L L G S V I I M I D		
UniRef90D2SC10	V T G H R T M Y A F N	I T G D L A G L Q R R H D L V V E A G G N C V M L N V P		
UniRef90M1GMGR9	R T G E R K G H Y L N	V T A P S P E E M Y E R A E F A K E L N M P I I M H D F L		
UniRef90UPI00036905D4	K T G K Q V L Y A V N	I T D E I D Q M W R N L D A M K N V E A T C A M V C V Q		
UniRef90G2E110	E T G R T C L Y L A N	V T A P V G E I E R R A R F A K D A E V V G G L L F C P G		
UniRef90R7CTT0	K T G K K S M Y I A N	I C T A D G L Q M L D R A Y K A Q E I I G A D G I M V A P A		
UniRef90Q6X766	K T G E I K G H Y L N	V T A T M E D M Y E R A N F A T E L L G S I I V M I D		
UniRef90C5H3B8	A X G E V K G S Y L N	V T A G B M E X M Y X R A X F A K E L L G S V X X M X D		
UniRef90C8XHW0	V T G R D V V Y I P N	V T D R P D T A R R A V D A G A R A V M I A Y A		
UniRef90Q2W3S5	E T G Q A K L F S A N	I T A D D P A E M I A R G Q F I L D T F G E N A S H D G F		
UniRef90K2A722	E T G K N K V M S F N	V S A A D F M T M Q K R A E I V M E K G S Y A F L V D G L		
UniRef90Q32594	X X X X X X X X X X X	X X		
UniRef90G5ILX4	K T G K K A M Y V P N	V T A P L K K I R D N A R Y A K E C G A D G I M I A P G		
UniRef90E7BJF4	E T G E V K G H Y L N	I T A G T M E E M Y R R A E L A K E L L G S V I V M V D L I		
UniRef90Q5ENN5	E T G V A K L F S A N	I T A D D P A E M I A R G K Y V L A Q F G P A F L V D G Y		
UniRef90Q6Y9H5	E T G Q G K L F S A N	I T A D D P N E M I A R A K Y I L N Q M G P M A N C A F L		
UniRef90I7HIY8	A T G E V K G S Y L N	V T A G N M D E V I K R S E Y A K A V G S V I I M I D		
UniRef90B0MD38	E K T C L Y A V N	I T G E N L F D R A R R A I D A G A N A L M V N Y Q		
UniRef90M5JJ6	K T G K K V M Y A F G	I S H A D P D E M M R N H D M V L K A G G N C A V V N I N		
UniRef90UPI0003645BC8	R T G R K P M Y A F N	I T D D I G R L E A N H D L V V E A G G T C V M A C I N		
UniRef90UPI00035CDDA6	K T G F Q C A Y V P N	I T G L A S Q I V D R A F M A K E V G A G A V M L A P S		
UniRef90J9ZCF3	R P G Q G A M L Y A V N	I L S G S G A G L H E K A R L L V K E G A N A L L L S A P		
UniRef90Q28MT2	R T G K K V M Y A F N	I T G E V D E M R R R H D L V R D L G G G T C V M V S M L		
UniRef90A7BL54	K T G K N G I Y V P N	I T A P T T E I R Q R V E Y A K R Q G A G G L I A P G		
UniRef90Q33114	A S G E V K G H Y M N	V T S A T M E D M Y E R A E F A K Q L G T V I I M I D		
UniRef90SOFUK9	A T G H K T L Y V V N	I T D R V G N M L N N A K N A V D L G A D A L M I N Y S		
UniRef90UPI0003829AB0	K T G F K S I Y M P N	V T A P Y G E I Q K R S E K A K A G G G F L L C P G G		
UniRef90G8LZL2	E T G G K S V Y V P N	I T A P F S E M V D R A R K A K E L G G A G G L I S P G G		
UniRef90H5T867	E T G M N C R Y T P T L	I N S P A N Q I F D D A R W A K E Q G V G G F L V M P G		

130 140 150 160

UniRef90_U1WDJ1	P Y G F D I L H R L A A D P D I T V P L M A H P A M A G A F Y A A D E Y G I S S
UniRef90_U7GFY8	S L G L T G L T A I R R H I D L P L H C H R N G W G I T Y S R S P D I G I S
UniRef90_X2L0J3	T G G L T A N T G L A Q W C Q D N G M L L H I H R A M H A V L D C S P H H G I H
UniRef90_K9XQN8	T Y G F S I L E A L A D D P A V N V P I F V H P A F A G A L C A G T D T G L N Y
UniRef90_H1YB65	S V N S V G L S G T K K V C D Q G E L V I H G H R N G W G M L N R H P L L G I E
UniRef90_UPI00037E3117	T S G F G A L Q A V A E D P R I K V P V H V H R T M H A I T K D P Y N G I A
UniRef90_M9SFF0	P V G L S G V R M L R K H T Q V P L I A H F P F I A A F S R L P H Y G V H
UniRef90_W8KKW5	S Y G F S V L E Q L A A D P E I N V P V F A H P A L A G A L C G A P E H G M A Y
UniRef90_UPI000382EB1B	V T G P A A I T T A R R S F P R Q Y L H Y H R A G H G A V T S P Q S M R G Y T
UniRef90_UPI0004248EF3	W C G F S A V E T L R R H T D L V L H G H R N G Y G A F S R H E A L G I G
UniRef90_UPI0003782C46	S V G L T G L R A L R N R S S M T I H G H R A G W G I T Y S R S P D I G I S
UniRef90_A3X9D1	U A Y G L D V L Q S L A E D P E I S V P I M A H P A V S G A L T A S P F Y G F S N Y
UniRef90_UPI0003F4AFC6	T Y G F S V L E A L A A D P E I N V P I F A H P A L A G A L C G A P N H G M A Y
UniRef90_Q2RRP5	V A G A A A I T T A R R R F P D N F L H Y H R A G H G A V T S P Q S K R G Y T
UniRef90_W9E1H0	I D G I T A G W M A V Q R R R Y P D V F I H F H R A A H G A F T R P E N P G F S
UniRef90_H6SR69	V D G Y V A G P T T A R R R F P N T F L H Y H R A G H G A V T S P Q S K R G Y T
UniRef90_Q32635	V I G Y T A I Q S M A I W S R R N D M I L L Q F H R A G N S T Y S R Q K I H G M N
UniRef90_A6H556	T L G W A Q A Q S I L S K W C R D N G M L L H V P R A M H G V I D R H P K H G I N
UniRef90_K1YJ0	I D G T T A G W M A V Q R R Q Y P D V F I H F H R A G H G A F T R P E N P I F T
UniRef90_UPI00040528A8	T Y G L D V L Q S L A E D P D I T L P I M A H P S F S G A M T P S K V Y G I A N
UniRef90_UPI0003704DEF	S V G L S A T R R I C D L G Q L A I H G H R N G W G M L N R H P L L G I E
UniRef90_A7JG7	S I G L V G V R E I R R R H T Q L P I H G H R A G W G Y L Y R C P S L G W D
UniRef90_R9T8T7	T C G F A A V Q A L R E D P S I K V P I H V H R T M H G A I T K N K D M G V S S
UniRef90_B6WB10	S V G L D V L Q Y L T K N I D V P V I A H Y A S A G P Y Y E S A F S G I A S
UniRef90_C5H3A3	V I G Y T A I Q S M A K W A R A H D M I L L H L H R A G H S T Y T R Q K Q H G V S E
UniRef90_UPI000425046C	S V G L A G V K K C D N R Q L C I H G H R N G W G M L N R H P L L G I E
UniRef90_U4WSK5	A F G F D L L Q R L A E D P D I Q V P I M A H P A L A G A Y P S P D Y G I A A
UniRef90_A0A021X0E6	S I G F G G L S F L R K R S G L V L H A R N G W D I L T R H A G L G F E
UniRef90_H2CI18	I D G Y L A G T T T A R R N F P D Q F I H Y H R A G H G A L T S P Q S K R G Y T
UniRef90_F5A010	V V G Y T A I Q P M A K W A R R N D M I L L H L H R A G N S T Y A R Q K N H G M N
UniRef90_UPI0004792AB6	S Y G L D V L Q E L R E D D E I A L P L M A H P A F S G A I A S S P V Y G V S Y
UniRef90_UPI00034BBB63	P V G L S A V R M L R K H A R V P L M A H F P F I A A F S R L A G Y G I H
UniRef90_X6L437	A I G F G G M T Y L R R R S R L C I L H A H R N G W D V L T R H P A M G M E
UniRef90_B1C9J3	T A G F S A L R Q L A E D P N I Q L P V M S H P D Y A A A Q S Y S P D T G V A V
UniRef90_16YD88	T I G F S A M Q S M S K W A R A N G M L L H L H R A G H S T Y T R Q K N H G V N
UniRef90_C11IE0	T G G F T A N T S L A F Y C R D N G L L L H L H R A G H S T Y T R Q K N H G M H
UniRef90_B7JZ27	T Y G F S V L E M L A N D P E I N V P I F A H P A F A G A M C A A S E T G L S Y
UniRef90_A7BYT9	L T G F D T T M R A L A E D E T V N L P L I S H P A F L G S M V T S S E N G F S H
UniRef90_D9SHP6	V T G P A G V T T C R E F P D T F L H F H R A G H G A V T S Y K S P M G M D
UniRef90_B0LQY6	V I G Y T A I Q S M A N W A R K N D M I L L H L H R A G H G T Y T R Q K N H G V S
UniRef90_X2L216	T G G F T V N T G L V N W C R S N R I V L H I H R A M H A V I D R H P K H G S H
UniRef90_H8Z136	V G G P G M V T T I R R Q Y P D Q Y L H Y H R A G H G A L T S P S S K R G Y T
UniRef90_I0JT29	V V G W T A I Q S M S N W C R Q H D M H M R A G H G T Y T R Q K N H G I S S
UniRef90_C3P745	A Y G L D V L Q S L A E D D E P V P I M A H P A V S G A Y S A S K L Y G I S S
UniRef90_UPI00047909EF	S I N S V G L S G T K K I C D Q G E L V I H G H R N G W G M L N R H P L L G I E
UniRef90_A6W001	Q I G I C G L D S I N K F S D V I L H A H T N G L A F N E R S D W G I S
UniRef90_Q6TEV4	V I G Y T A I Q S M A K W A R R N D M I L L H L H R A G N S T Y S R Q K N H G M N
UniRef90_Q5SCL0	T G G F T A N T S L A H Y X
UniRef90_16YD22	V I G Y T A I Q S M S K W A R R N D M I L L H L H R A G H S T Y T R Q K N H G V S
UniRef90_U3MFP0	V I G Y T A I Q S M A N W A R D N D M I L L H L H R A G H S T Y T R Q R T H G V S
UniRef90_B0LQZ8	T I G Y T A I Q S M A H W A R E N G L L H L H R A G H S T Y T R Q K T H G V S S
UniRef90_V5UID9	W C G F S A V T T L R R H T P L A I H G H R N G Y G A M S R D P M L G I G
UniRef90_U3MK29	V M G Y T A L Q S M A I W A R E N D M I L L H L H R A G N S T Y A R Q K N H G I N G
UniRef90_V8QVL4	Y C G F S A I Q S L R R T E L A V H G H R N G F G A L S R H P L L G I G
UniRef90_B0LQZ6	T I G F T A M Q S M S K W A R A N G M I L L H L H R A G H G T Y T R Q K T H G V S T
UniRef90_X0Z867	T V G F S A L Q E I R D Y L D D K D I V I H A H R A M H A A I T R N K K H G M T
UniRef90_C5H371	F T A M Q S M A K W A R R N G V I L H L H R A G H G T Y T R Q K T H G V S
UniRef90_F7STU9	W C G Y S A I Q T L R R H T P L A L H G H R N G Y G A L S R H P L L G I G
UniRef90_Q59462	V T G P A G V T T S R R A F P D T Y L H F H R A G H G A V T S Y K S P M G M D
UniRef90_Q0FNR2	W C G L S G M E S L R T H T P L A I H A H R N G F G A M S R H P L L G M G
UniRef90_U3MDM8	V I G Y T A I Q S I C K W A R A N D Q I M H L H R A G N S T Y A R Q K N H G I N
UniRef90_A3PRW6	V T G P A A I T T A R R Q F P R Q F L H Y H R A G H G A V T S P Q S M R G Y T
UniRef90_A8T1S6	V I G Y T A I Q T M A K W A R D N D M I L L H L H R A G N S T Y S R Q K N H G M N
UniRef90_D2SC10	V M G L P A L A W L R G F A Q V P I H G H R A G L A A S M R S P A L G V D
UniRef90_M1GMR9	T G G F C A N T G L L A R R W C R K N G V L L H L H R A M H A V V D R N P H H G I H
UniRef90_UPI00036905D4	S V G L T G L R A V V R D R S E V L I H G H R A G G W G L M S R S P D I G I S
UniRef90_G2E110	L A G F D A M R S L A A D E G L C L P I L S H P A F Q G S F C L H P D T G L S H
UniRef90_R7CTT0	L T G F T L I R N L A R D P E F H P F L H C P F S G S L V L S E D S G M S P
UniRef90_Q6X766	V I G Y T A I Q S M A Y W A R N N D T M L H L H R A G N S T Y S R Q K N H G M N
UniRef90_C5H3B8	V X G Y T X I I Q S X X X W G R X N D M I L L H L H R A G H X T Y T R Q K N H G V X
UniRef90_C8XHW0	S A G F G S L Q S L A E S I G V P I L A H Y A G V T P Y F E G P G T G L S A
UniRef90_Q2W3S5	V A G P T A V T T C R N F P D T F L H Y H R A G H G A I T S R Q S K R G Y S
UniRef90_K2A722	T A G W T A V Q T A R R M W P D V F L H F H R A G H G A M T R E E N P I Y T
UniRef90_Q32594	X X X X X X X X X G V W A R K N D M I L L H L H R A G N S T Y S R Q K I H G M N
UniRef90_G5ILX4	L V S L D I M K E L A E D N E I G L P I F S H P A F S G C Y A I N R Q G F T F
UniRef90_E7BJF4	I G W T A I Q S I S E W C R Q N D M I L L H M H R A G H G T Y T R Q K N H G I S
UniRef90_Q5ENN5	V A G G T A V T V A R R N F P K Q F L H Y H R A G H G S V T S P Q T Q R G Y T
UniRef90_Q6Y9H5	V D G Y V A G V T V A R R N F P K Q F L H Y H R A G H G A V T S P Q T Q R G Y T
UniRef90_I7HIY8	V M G Y T A I R T A A I W A R E N D M I L L H L H R A G N S T Y A R Q K N H G I N
UniRef90_B0MD38	A M G W G A V E D F A M K R E K L I Y P I F G H H C A G M G A Y Y R S K T N G L S
UniRef90_M5JJ6	S V G F G G M S F L R K R S G L V L H A H R N G W D V L T R N P G A G M D
UniRef90_UPI0003645BC8	L I G V S G L E E F L R R H S A V P I H G H R A M F G A F G R S D Q V G I G
UniRef90_UPI00035CDDA6	L V G F D V S R G L A V D P D F G L P I V S H P T F S G A N V I T P T T G F S H
UniRef90_J9ZCF3	A Y G Y A L L E E L L A S D P E V G V P L F V H P A F A G A Y S G A S D H G L D W
UniRef90_Q28MT2	P V G L S G F L A L S R H A D L P I H A H R N G W G A L S R H P A L G W S
UniRef90_A7BL54	L T G F D T T M R A L A E E E T V N L P L I S H P A F L G S M V T S S E N G F S H
UniRef90_Q33114	I G Y T A I Q T M G V W A R K N D M I L L H L H R A G N S T Y S R Q K N H G M N
UniRef90_SOFK9	A V G Y D V L N Y I S E S I D P I L G H Y A G A G G F Y E S G F S G I S S
UniRef90_UPI0003829AB0	L V G L D V V R Y L S E N D D F A L P I M A H P A F L G S Y V T S D Q N G L S H
UniRef90_G8LZL2	L A G F D A M R E I S E D E N I N L P V F S H P A F L G T F V M S N E T G L S H
UniRef90_H5T867	I S G F D T M R C I A D D D D I N L P I L G H P S M L G S W V S P Q S G Y S H

	250	260	270
UniRef90_U1WDJ1	Y N D F G M D V I V N A G G G V H G H P S G A A D G A R A F R A A I D A V V N		
UniRef90_U7GFY8	R A V G H T D F I Y C A G G G I M G H P G G V A G G V A S L K Q A A E A A V		
UniRef90_X2L0J3	L T D Y G N D V I L N A G T G I M D H P D G A A A G V Q A F F E A L A R I K N N		
UniRef90_K9XQN8	R R T Q T T D L L Y M A G G G I M A H P D G P G G V V A L L Q Q A W E G A V N G		
UniRef90_H1YB65	A R L Q T V D L L N I A G G G I H G H P G P G A G Y R S L V Q G W E A A V A G		
UniRef90_UP100037E3117	M K V T G N D V Q I Q A G G G V A G H P E G V R G G A M A M C Q A A D A		
UniRef90_M9SFF0	F V P P G R G V F G H P M G P R A G A T S I R Q A W D A I G		
UniRef90_W8KKW5	L A D Y G Q D A I L N A G T G I M D H P D G P A A G V Q A F F E A L K L A A P G		
UniRef90_UP1000382EB1B	F N L G H S N L I L T A G G G A F G H D G A A A G A T S I R Q A E E C W K Q S		
UniRef90_UP10004248EF3	A A V G T S D L L F M A G G G I M A H P G G P A E G V A S I R A A W V A A		
UniRef90_UP10003782C46	S L L G N D D F I F C A G G G I L S H P S G A A A G V I A L R Q A A E A A R S		
UniRef90_A3X9D1	A N D F G V D S V I N A G G G I H G H P G G A E A G A R A F R Q A I D G V L R G		
UniRef90_UP10003F4AFC6	V A D Y G Q E V I L N A G T G I M D H P D G P A A G V K A F F E A L H		
UniRef90_F4XPV2	F E L G N A N V I L T A G G G A F G H D G P V A G A R S I R Q A W Q A W R D		
UniRef90_Q2RRP5	I D V M N V D F I T T M G S G V H A H P G G T Q D G A K A L V Q A C D A Y L Q		
UniRef90_W9E1H0	F A N L G H A N V I Q T G G G C F G H D G P A A G A R S I R Q A W E A W S Q		
UniRef90_H6SR69	X X		
UniRef90_Q32635	V N I F G D N A V L Q P F G G G T L G H P W G N A A G A A A N R V S L E A C V K A		
UniRef90_A6H556	D V M G N V D F I T T M G A W C H A P G G T Q K G A T A V Q S C E Y K A W		
UniRef90_K1YJ0	I J Q D F G I D S V I N A G G G I H G H P G G A S E G G K A F R D A I D G I L R D		
UniRef90_UP100040528A8	R R T Q T T D L L Y M A G G G I I L A H P Q G A S A G V T A L K Q A W E A A V N G		
UniRef90_UP10003704DEF	Y A D F G L D Q V V N A G G G I H G H P Q G A T A G G R A F R A A I D A S V N G		
UniRef90_A7IJG7	I A A T Q T D L L Y L C G G G I V S H P G G P G A G V K A I R Q A W E A A V		
UniRef90_R9T8T7	F D N L G H A N I I Q T G G G S F G H R D G V K A G V A S I R Q A V E A W Q K G		
UniRef90_B6WB10	U I K Q L G K D I M L A A G G A V Q G H P D G A E S G V K A M I Q S I E S A C Q		
UniRef90_C5H3A3	I T Y		
UniRef90_UP1000425046C	U R G D F G I D S F I N A G G G V H G H P D G A R G G G L A F R Q A I E T N L Q G		
UniRef90_U4WSK5	Y R I G S A D F G F V P G R G V F G H P M G P A A G A T S I R Q A W E A I A A G		
UniRef90_A0A021X0E6	G G I H G H P G G A A G G V R A I R Q A W D A A A A G		
UniRef90_H2C18	I Y E V G T D V M I A A G G A V H G H R N G A T A G A R A L R Q A I D G A M A G		
UniRef90_F5A010	U R G D F G D D A C L Q F G G G T L G H P W G N A P G A V		
UniRef90_UP10004792AB6	L A D Y G T E V V L N S G T G I M D H P D G P A S G V K A F F D R L		
UniRef90_X6L437	L L N L Y G N D I I F L I G G A L Y S H S M D L		
UniRef90_B1C9J3	F Q N L G H G N V I N C G G G A F G H I D S P A A G G I S L G Q A Y D C W K S		
UniRef90_I6YD88	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_C1IE0	T E I F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_B7JZ27	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_A7BY97	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_D9SHP6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_B0LQY6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_X2L216	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_H8Z136	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_10JTZ9	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_C3PT745	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_UP100047909EF	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_A6W001	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q6TEV4	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q5SCS0	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_I6YD22	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_U3MFP0	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_B0LQZ8	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_V5UID9	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_U3MK29	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_V8QVL4	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_B0LQZ6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_X0Z867	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_C5H371	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_F7STU9	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q59462	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q0FNR2	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_U3MDM8	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_A3PRW6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_A8T1S6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_D2SC10	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_M1GMR9	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_UP100036905D4	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_G2E110	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_R7CTT0	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q6X766	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_C5H3B8	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_C8XHW0	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q2W3S5	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_K2A722	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q32594	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_G5ILX4	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_E7BJF4	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q5ENN5	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q6Y9H5	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_I7HIY8	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_B0MD38	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_M5JJ6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_UP10003645BC8	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_UP100035CDDA6	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_J9ZCF3	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q28MT2	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_A7BL54	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_Q33114	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_S0UFK9	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_UP10003829AB0	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_G8LZL2	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		
UniRef90_H5T867	U U I Q D F G D D S V L Q F G G G T L G H P W G N A P G A V A N R V A L E A C V Q A		

UniRef90_	290	300	310
UniRef90_1WJDJ1	G Q T L A E G A Q T S K P L A L A L E K W G		
UniRef90_U7GFY8	G G I P A Q V F A K D H K E L S E A L D F G		
UniRef90_X2L0J3	Q S F D L N S P S G	A L Y Q A I A K W G T L	
UniRef90_K9XQN8	L S	M Q E A A G Q Y P E F A K S V E K F G	
UniRef90_H1YB65	I P	L E T H A E A H W E L K Q A I E T F G	
UniRef90_UPI00037E3117	A F E G I A L D E Y A K T H K E L R E A L E R W G		
UniRef90_M9SFF0	A G V D V H T H A E Q H P E L A A A L K A F G		
UniRef90_W8KKW5	E A F N L E T V P V G T	L R T A L E K W G	
UniRef90_UPI000382EB1B	A D P L E F A K D H K E F A R A F E S F P Q D A D A L Y P E W R		
UniRef90_UPI0004248EF3	E N G I D L V E A A R T D R A L A Q A L D F F G A		
UniRef90_UPI0003782C46	G T D I K Q Y A K E H P E L Q G A V E T F		
UniRef90_A3X9D1	E S	L S E T A K E K R E L E T A L D L W G	
UniRef90_UPI0003F4AFC6	G V P V L D Y A R E H K E L A R A F E S F P G D A D Q I Y P G W R		
UniRef90_Q2RRP5	K I D I E E Y A K T N K E L A Q A I E Y F		
UniRef90_W9E1H0	G V D L V T Y A K E H R E L A R A L E S F Q A		
UniRef90_H6SR69	R N E G R D Y V A E G P Q I L Q D A A K T C G P L Q T A L D L W K D I T F N Y T		
UniRef90_Q32635	R N E G R E L E K E G K D I L I E A P Q		
UniRef90_A6H556	D I H E Y A K T H K E L A Q A I E F F K D I K		
UniRef90_1V1YJ0	E S	L E E T A A N S E S L R A A L N L W G	
UniRef90_UPI00040528A8	G L T P E E A A H Q Y P E F G Q S V E K F G K L P F		
UniRef90_UPI0003704DEF	A S	L E D E A T R S P A L R S A L L G F W R	
UniRef90_A7IJG7	K I P A S E Y R K T H V E L D Q A L S K W G		
UniRef90_R9T8T7	G I D L N E A R K N H K E L D K A L E E W G		
UniRef90_B6WB10			
UniRef90_C5H3A3			
UniRef90_UPI000425046C	L S	I A E A V Q Q Y P E F A L S V E K F G	
UniRef90_U4WSK5	L S	L T V A A S D S N E L R L A L E K W G	
UniRef90_A0A021X0E6	L S	A G V P L E A Y A K D H A E L A Q S I E K F A D G K	
UniRef90_H2CI18	L S		
UniRef90_F5A010			
UniRef90_UPI0004792AB6	K	L L A E G A E N Y P E L K L A L K L W G	
UniRef90_UPI00034BBB63	L P	V A D Y A A G K P E L A A A L Q A F G	
UniRef90_X6L437		Q S L E A Q A Q D H P E L A A A L A T W G	
UniRef90_B1C9J3	L P	L K E Y A K D K P D L Q I A L D D W G	
UniRef90_I6YD88			
UniRef90_C1II0			
UniRef90_B7JZ27			
UniRef90_A7BYT9			
UniRef90_D9SHP6	G S D P I E Y A K T H K E F A R A F E S F P K D G D K L F A G W R E		
UniRef90_B0LQY6			
UniRef90_X2L216	A N P L D W A K D H K E F A R A F E S F P H D A D A I F P S W R E		
UniRef90_H8Z136			
UniRef90_I0JTZ9			
UniRef90_C3P745	K P L H E	V E K A A L Q Y P E F A A S V K K F	
UniRef90_UPI00047909EF	L S	I H D Y A V T H P E L S Q A L	
UniRef90_A6W001	Q N	R N E G R D L A R E G N E I I R A A S K L S P E L A	
UniRef90_Q6TEV4			
UniRef90_Q5SCL0			
UniRef90_I6YD22			
UniRef90_U3MFP0			
UniRef90_B0LQZ8	Q S		
UniRef90_V5UID9	V S	L A H Y S R N M P E L K A A L D F F G A	
UniRef90_U3MK29			
UniRef90_V8QVL4			
UniRef90_B0LQZ6			
UniRef90_X0Z867			
UniRef90_C5H371	R N E G R D F Y V E G P D I L A R A A Q G C P E L	G Y T L K E Y A K D H N E L A R A L E I W G	
UniRef90_F7STU9		R A G Q D L A A F A A E E P E L R R A L E H F G	
UniRef90_Q59462	G A E P I E A P R E	F A R A F E S F P G D A D K I F P G W R E	
UniRef90_Q0FNR2	G S L A E		
UniRef90_U3MDM8			
UniRef90_A3PRW6	G V D L V T Y A R E H R E L A R A F E S F P A D A D K F Y P G W R D		
UniRef90_A8T1S6			
UniRef90_D2SC10	S P L A A E H A A R G D S A L A H A L Q T F P		
UniRef90_M1GMR9			
UniRef90_UPI00036905D4	L P	L E Q Y A K P N T P L H A A I A N F	
UniRef90_G2E110			
UniRef90_R7CTT0			
UniRef90_Q6X766			
UniRef90_C5H3B8	R S	V V E A G Q E H P A L G R A L D R F G	
UniRef90_C8XHW0	L S	L V E Y A Q G H P E L R G A F E S F	
UniRef90_Q2W3S5			
UniRef90_K2A722	K I D M N E Y A K T H A E L G Q A V E F Y K E H V E Y T		
UniRef90_Q32594	R N E G R D Y V A E G P Q I L Q D A A K T C G P L Q T A L D L W K D I S F N Y T		
UniRef90_G5ILX4			
UniRef90_E7BF4			
UniRef90_Q5ENN5	K A G V Y G S V S L S D G V I E	Y A K T H E E I K G A F L T F	
UniRef90_Q6Y9H5			
UniRef90_I7HIY8			
UniRef90_B0MD38			
UniRef90_M5JJ6			
UniRef90_UPI0003645BC8	G K T I L E	A A S E C A E L Q A A I D V W G	
UniRef90_UPI00035CDDA6	E P V D V A F E R S A A L R R A A E L F G P V R		
UniRef90_J9ZCF3	E S F E P G S I P G G	P L K A A V G K W G	
UniRef90_Q28MT2			
UniRef90_A7BL54			
UniRef90_Q33114			
UniRef90_SOFK9			
UniRef90_UPI0003829AB0	G I K M E D A A N R H E E L K C A L D L W G		
UniRef90_G8LZL2			
UniRef90_U7Z907			

UniRef90_U1WDJ1
UniRef90_U7GFY8
UniRef90_X2L0J3
UniRef90_K9XQN8
UniRef90_H1YB65
UniRef90_UP100037E3117
UniRef90_M9SFF0
UniRef90_W8KKW5
UniRef90_UP1000382EB1B
UniRef90_UP10004248EF3
UniRef90_UP10003782C46
UniRef90_A3X9D1
UniRef90_UP10003F4AFC6
UniRef90_F4XPV2
UniRef90_Q2RRP5
UniRef90_W9E1H0
UniRef90_H6SR69
UniRef90_Q32635 S T D T
UniRef90_A6H556
UniRef90_K1YIJ0
UniRef90_UP100040528A8
UniRef90_UP10003704DEF
UniRef90_A7JG7
UniRef90_R9T8T7
UniRef90_B6WB10
UniRef90_C5H3A3
UniRef90_UP1000425046C
UniRef90_U4WSK5
UniRef90_A0A021X0E6
UniRef90_H2CI18
UniRef90_F5A010
UniRef90_UP10004792AB6
UniRef90_UP100034BBB63
UniRef90_X6L437
UniRef90_B1C9J3
UniRef90_I6YD88
UniRef90_C1IE0
UniRef90_B7JZ27
UniRef90_A7BYT9
UniRef90_D9SHP6
UniRef90_B0LQY6
UniRef90_X2L216
UniRef90_H8Z136
UniRef90_I0JTZ9
UniRef90_C3P745
UniRef90_UP100047909EF
UniRef90_A6W001
UniRef90_Q6TEV4
UniRef90_Q5SCL0
UniRef90_I6YD22
UniRef90_U3MFP0
UniRef90_B0LQZ8
UniRef90_V5UID9
UniRef90_U3MK29
UniRef90_V8QVL4
UniRef90_B0LQZ6
UniRef90_X0Z867
UniRef90_C5H371
UniRef90_F7STU9
UniRef90_Q59462
UniRef90_Q0FNR2
UniRef90_U3MDM8
UniRef90_A3PRW6
UniRef90_A8T1S6
UniRef90_D2SC10
UniRef90_M1GMR9
UniRef90_UP100036905D4
UniRef90_G2E110
UniRef90_R7CTT0
UniRef90_Q6X766
UniRef90_C5H3B8
UniRef90_C8XHW0
UniRef90_Q2W3S5
UniRef90_K2A722
UniRef90_Q32594 Y T D T
UniRef90_G5ILX4
UniRef90_E7BJF4
UniRef90_Q5ENN5
UniRef90_Q6Y9H5
UniRef90_I7HIY8
UniRef90_B0MD38
UniRef90_M5JJ6
UniRef90_UP10003645BC8
UniRef90_UP100035CDDA6
UniRef90_J9ZCF3
UniRef90_Q28MT2
UniRef90_A7BL54
UniRef90_Q33114
UniRef90_SOFK9
UniRef90_UP10003829AB0
UniRef90_G8LZL2
UniRef90_H5T867

1 10 20 30 40

UniRef90_X1CMU7
 UniRef90_W7ZX99
 UniRef90_Q7X097
 UniRef90_G0ZDJ4
 UniRef90_X1GVD8
 UniRef90_U3MEU7
 UniRef90_G1EFN6
 UniRef90_I0JTY9
 UniRef90_L0N7Y4
 UniRef90_X2L0G4
 UniRef90_D7GX00
 UniRef90_V5W9K5
 UniRef90_A1R5Z1
 UniRef90_X1CX47
 UniRef90_I0IMN8
 UniRef90_N6UU95
 UniRef90_H9ABC7
 UniRef90_A4S040
 UniRef90_G9IJ55
 UniRef90_F2ZCD1
 UniRef90_R5BSI7
 UniRef90_U1N0A0
 UniRef90_K4ARX4
 UniRef90_T0DUR0
 UniRef90_J8TTD1
 UniRef90_T1X146
 UniRef90_X2L245
 UniRef90_T1X2S8
 UniRef90_T1X2Q1
 UniRef90_T1X1P4
 UniRef90_X2L7L1
 UniRef90_M9ZPF6
 UniRef90_U3MC57
 UniRef90_F2ZCF5
 UniRef90_UP1000362E40B
 UniRef90_B8XLF2
 UniRef90_I4DDM4
 UniRef90_X1KXK2
 UniRef90_F2ZCE6
 UniRef90_G4V4B0
 UniRef90_F2ZCF4
 UniRef90_U3MBG2
 UniRef90_F2ZCG2
 UniRef90_F8I2R2
 UniRef90_I4DDP5
 UniRef90_C1FGV9
 UniRef90_U3MDP2
 UniRef90_R2XGK1
 UniRef90_W0E144
 UniRef90_Q8MDW1
 UniRef90_I0IS88
 UniRef90_Q6ST42
 UniRef90_Q32366
 UniRef90_T1X2M9
 UniRef90_A1WU93
 UniRef90_Q013D2
 UniRef90_X2L2E7
 UniRef90_T1WZU3
 UniRef90_G4E634
 UniRef90_F2ZCE9
 UniRef90_T1X283
 UniRef90_X2L297
 UniRef90_F2ZCB8
 UniRef90_F2ZCC4
 UniRef90_X1GPV0
 UniRef90_D7BHY9
 UniRef90_D5SVD7
 UniRef90_D3PQ41
 UniRef90_G3EJJ0
 UniRef90_Q5DVV2
 UniRef90_X1L1A5
 UniRef90_A0A059IN90
 UniRef90_Q0A9H0
 UniRef90_Q5DVV5
 UniRef90_F2ZCB3
 UniRef90_C1MR98
 UniRef90_Q0GEY0
 UniRef90_S6DLX0
 UniRef90_UP10004769195
 UniRef90_I6QN08
 UniRef90_S5K3Q9
 UniRef90_S9QP18
 UniRef90_W3Y5H0
 UniRef90_F2ZCB0
 UniRef90_S6DLW2
 UniRef90_F2ZCA9
 UniRef90_A0A017HM60
 UniRef90_X0TT38
 UniRef90_V5LLY6
 UniRef90_V4KR78
 UniRef90_W1UWY0
 UniRef90_Q07KC6

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

P G Y G P G I R Q M L G V Y G R P L L C A V L K P M G L S S A D L A N L A A
 P A F G I E G T R K L I S D V Q G V M V G T I V K P N V G L S E E E F R L V V R
 T G H T A D V T A D L V Y
 P A F G I Q G I T R R S L E I F D R P L L M A I F K P S L G L T A R E H G E I F R
 P R H G I A G L R A R A G V G E T P L L M S A I K P V G L P T K E L A R L A H
 P R F G V H G L R R L L R V P E G P L V M T A L K P M G l s s q e l a e l a y
 I S D L W R I L G R P I A G T I I K P K L G L R P E P F A N A A Y
 I S D M W R T L G R P L V G T I I K P K L G L R P K P F A E A A Y
 P R F G L N G I R E L V K T P K R A M I Q A V I K P M G I S P A Q L A D M C K
 K F G V T G I R E L L G V H D R P L V M S I F K G V I G R D L A F L E Q Q L R
 P K F G V S G C R A R Y N V E T R P L V M S I F K A A C V G L T L P E L V E Q F E
 M S I F K A A I G R S L D S L H E Q M L

K N G G Y I A G T I I K P K L G L R P K P F A E A A Y
 P G T G T E G L R A L T G V P R R A L L A T A L K P M G l s a s e l a r c s
 I Q E M W R T L G R P L V G T I I K P K L G L R P Q P F A D A C Y
 P R F G I K G T R K L L S I P D D E L I G T I I I K P C A G L S P E E V A E K C Y
 I S D M W R V L G R P I V G T I I K P K L G L R P Q P F A R A A Y
 G G Y I A G T I I K P K L G L R P K P F A D A A Y

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

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

P A C G I A G L R E Q I N A P Q R P I T C T A L K P Q G l p p q a l a q l a a
 I S N L W R V L G R P I V G T I V K P K L G L R P R P F A D A C Y

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

P Q F G I N G I R E L L Q V K D R P L M G A I I K P N L G L N P E R T A G V V S
 P R F G I E G I R A L C C G R P R G G L I A P V L K P P Q G L D A D A L A E L G Y
 P G L G V S G L R A R L D V G A R P P L L C A A L K P M G L S A P A l a a r c a
 R D L D N G G M V V G T I I K P K L G L R S Q P F A D A C Y

P K F G V R G L R K L L G V P R G P I I M T A L K P M G S S T A A l a e m a y
 P A T G I I C E R E R E R M D K F G R P F L G A T V K P K L G L S G K N Y G R V V Y
 R F G A A G L R Q L I G K K S G G F V C P V I K P P Q G S S A E E l a e l c y
 P S M G I Q D M W R I L G R D I V G T I I K P K L G L R P Q F A E A C Y
 R F G V E G I R R L C G R P R G G L I A P V L K P P Q G L D A A S L A I A R
 P R F G L A G I R K L V G T P K R P M I Q A V I K P M G T S S A E E l a r m c g
 P P R A I Q L I S D L W R M L G R P I S G T I I K P K L G L R P E P F A E A A Y
 G T I I K P K L G L R P K P F A D A C H

I S D L W R I L G R P I A G T I I K P K L G L R P K P F A D A A Y
 R F G V E G L Q R L A G R P G S G L I A P V L K P P Q G L G A E E l a r i a y

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

P R L G I A G L R A L T G T Q D R A L T A S A L K P P Q G l s p a a l a r i a g

UniRef90_X1CMU7
 UniRef90_W7ZX99
 UniRef90_Q7X097
 UniRef90_G0ZDJ4
 UniRef90_X1GVD8
 UniRef90_U3MEU7
 UniRef90_G1EFN6
 UniRef90_I0JTY9
 UniRef90_L0N7Y4
 UniRef90_X2L0G4
 UniRef90_D7GX00
 UniRef90_V5W9K5
 UniRef90_A1R5Z1
 UniRef90_X1CX47
 UniRef90_I0IMN8
 UniRef90_N6UU95
 UniRef90_H9ABC7
 UniRef90_A4S040
 UniRef90_G9IJ55
 UniRef90_F2ZCD1
 UniRef90_R5BSI7
 UniRef90_U1N0A0
 UniRef90_K4ARX4
 UniRef90_T0DUR0
 UniRef90_J8TTD1
 UniRef90_T1X146
 UniRef90_X2L245
 UniRef90_T1X2S8
 UniRef90_T1XQ21
 UniRef90_T1X1P4
 UniRef90_X2L7L1
 UniRef90_M9ZPF6
 UniRef90_U3MC57
 UniRef90_F2ZCF5
 UniRef90_UP1000362E40B
 UniRef90_B8XLF2
 UniRef90_I4DDM4
 UniRef90_X1KXK2
 UniRef90_F2ZCE6
 UniRef90_G4V4B0
 UniRef90_F2ZCF4
 UniRef90_U3MBG2
 UniRef90_F2ZCG2
 UniRef90_F8I2R2
 UniRef90_I4DDP5
 UniRef90_C1FGV9
 UniRef90_U3MDP2
 UniRef90_R2XKG1
 UniRef90_W0E144
 UniRef90_Q8MDW1
 UniRef90_I0IS88
 UniRef90_Q6ST42
 UniRef90_Q32366
 UniRef90_T1X2M9
 UniRef90_A1WU93
 UniRef90_Q013D2
 UniRef90_X2L2E7
 UniRef90_T1WZU3
 UniRef90_G4E634
 UniRef90_F2ZCE9
 UniRef90_T1X283
 UniRef90_X2L297
 UniRef90_F2ZCB8
 UniRef90_F2ZCC4
 UniRef90_X1GPV0
 UniRef90_D7BHY9
 UniRef90_D5SVD7
 UniRef90_D3PQ41
 UniRef90_G3EJJ0
 UniRef90_Q5DVV2
 UniRef90_X1L1A5
 UniRef90_A0A059IN90
 UniRef90_Q0A9H0
 UniRef90_Q5DVV5
 UniRef90_F2ZCB3
 UniRef90_C1MR98
 UniRef90_Q0GEY0
 UniRef90_S6DLX0
 UniRef90_UP10004769195
 UniRef90_I6QN08
 UniRef90_S5K3Q9
 UniRef90_S9QP18
 UniRef90_W3Y5H0
 UniRef90_F2ZCB0
 UniRef90_S6DLW2
 UniRef90_F2ZCA9
 UniRef90_A0A017HM60
 UniRef90_X0TT38
 UniRef90_V5LLY6
 UniRef90_V4KR78
 UniRef90_W1UWY0
 UniRef90_Q07KC6

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

90 100 110 120

UniRef90_X1CMU7	E K K I Y M P N I T A P V S E M K K R A D F V I K M G G E Y V M V D I I	K T G R T P L Y V V N V T G K T F E L K E A I G L G A P A I L L N V F	
UniRef90_W7ZX99			
UniRef90_Q7X097			
UniRef90_G0ZDJ4	A T G E I K G G Y L N H T A Q T M E G M Y E R A E F A K E L G S V V V M I D L	K T H K E V I I Y F V S I T D E V N R V F D K A R R A I K L G A N G L L L A Y S	
UniRef90_X1GVD8	L S G E V K G H Y L N I T A A T M E D D M Y E R A N F A K E I I G S I I V M I D L	A T G E V K G H Y M N V T A A T M E D D M Y E R A E F A K Q L G T V I I M I D L V	
UniRef90_U3MEU7	A T G E V K G H Y L N M T A G T M E E M Y A R A E F A K D L G S S V V I M I D	A T G E V K G H Y L N M T A G T C E E M I K R A V F A X X L G V P I V M H D Y L	
UniRef90_G1EFN6			
UniRef90_I0JTY9			
UniRef90_L0N7Y4	A A G G V V K G S Y L N I T A A T M E E V Y K R A E Y A K A I G S V V V M I D L	A A G G V V K G S Y L N I T A A T M E E V Y K R A E Y A K A I G S V V V M I D L	
UniRef90_X2L0G4	K T S H K T L Y F P N V T D S A D K L E D R I R F A L R C G V A G V L V A P Y	K T S H K T L Y F P N V T D S A D K L E D R I R F A L R C G V A G V L V A P Y	
UniRef90_D7GXDO	A S G E V K G F Y L N I I A G T M E D D M Y E R A E F A K L I G S V I V M I D L	A S G E V K G F Y L N I I A G T M E D D M Y E R A E F A K L I G S V I V M I D L	
UniRef90_V5W9K5	V T G H S T M Y A F N I T G D L A G L K K R H D L V V E A G G R C V M L N I P	V T G H S T M Y A F N I T G D L A G L K K R H D L V V E A G G R C V M L N I P	
UniRef90_A1R5Z1	E K G E K T L Y T I N I S N R L P D M F E L A D K A I E L G A N A L L M V N Y L	E K G E K T L Y T I N I S N R L P D M F E L A D K A I E L G A N A L L M V N Y L	
UniRef90_X1CX47	V H R R R V L Y A V N L S G R A D Q L I E K A R I L V S E G A N A L L L N V F	V H R R R V L Y A V N L S G R A D Q L I E K A R I L V S E G A N A L L L N V F	
UniRef90_I0IMN8	K S G R K A S F V P N V T G P A N A A V V E R A Q Q A E G A G G I M I A P A	K S G R K A S F V P N V T G P A N A A V V E R A Q Q A E G A G G I M I A P A	
UniRef90_N6UUG5	T G E V V K G H Y M N V T A A T M E E I Y E R A E F A K Q L G S I I V M I D L	T G E V V K G H Y M N V T A A T M E E I Y E R A E F A K Q L G S I I V M I D L	
UniRef90_H9ABC7	E T G R N V L Y A P C N A P A H L I I S R A H A A R Q A G A G A V L M I P G	E T G R N V L Y A P C N A P A H L I I S R A H A A R Q A G A G A V L M I P G	
UniRef90_A4S040	E T G E A K L F S M N I T A D D H D E M I A R G E Y A L E T F G P D A D V D G Y	E T G E A K L F S M N I T A D D H D E M I A R G E Y A L E T F G P D A D V D G Y	
UniRef90_G9IJ55	E T G E A K L F S M N I T A D D H D E M I A R G E Y A L E T F G P D A D V D G Y	E T G E A K L F S M N I T A D D H D E M I A R G E Y A L E T F G P D A D V D G Y	
UniRef90_F2ZCD1	Q T G Q Q H T L Y A A N V S A S D G E A V L E R A H Y A K A M G A T A L M V A P A	Q T G Q Q H T L Y A A N V S A S D G E A V L E R A H Y A K A M G A T A L M V A P A	
UniRef90_R5BSI7	A T G K R V L Y A I T L S G P V F G L R D Q A L R L I E A G A T A L L F N V Y	A T G K R V L Y A I T L S G P V F G L R D Q A L R L I E A G A T A L L F N V Y	
UniRef90_U1N0A0	K T S E I K G H Y L N V I R I G R L I V M H D Y L	K T S E I K G H Y L N V I R I G R L I V M H D Y L	
UniRef90_T0DUR0	K T G R E T A Y A V N L T G P V H Q L Q Q R A Q K L A E L G A G A L V N N M V	K T G R E T A Y A V N L T G P V H Q L Q Q R A Q K L A E L G A G A L V N N M V	
UniRef90_J8TTD1	Q T G H L P Y A V N L T G R T F E L K E R A K Q A V D L G A P A L L F N V F E	Q T G H L P Y A V N L T G R T F E L K E R A K Q A V D L G A P A L L F N V F E	
UniRef90_T1X146	R T G S V V K G S Y L N V T A A T M E E M Y A R A A F A K E I I G S V I I M I D L I	R T G S V V K G S Y L N V T A A T M E E M Y A R A A F A K E I I G S V I I M I D L I	
UniRef90_X2L245	E T G K V V K G H Y L Y P T A G H V D D M I M L A L G A C E L L D M P I V M D E Y L I	E T G K V V K G H Y L Y P T A G H V D D M I M L A L G A C E L L D M P I V M D E Y L I	
UniRef90_T1X2S8	A T G E V V K G S Y L N M T A A T A D E M I T R G E Y A K E L G S V I V M I G L V	A T G E V V K G S Y L N M T A A T A D E M I T R G E Y A K E L G S V I V M I G L V	
UniRef90_T1X2Q1	S S G E V V K G H Y L N I T A G T M E N M Y E R A N F A A D L G S V I V M I D L	S S G E V V K G H Y L N I T A G T M E N M Y E R A N F A A D L G S V I V M I D L	
UniRef90_T1X1P4	M T G E V V K G H Y L N T T G A T M E D M Y E R A D F A C S L G S I I V M I D L	M T G E V V K G H Y L N T T G A T M E D M Y E R A D F A C S L G S I I V M I D L	
UniRef90_X2L7L1	A T R E V V K G S Y L N I T G V N I L E E V Y K R V E Y E Y A K A I I G S V I V V T I D L	A T R E V V K G S Y L N I T G V N I L E E V Y K R V E Y E Y A K A I I G S V I V V T I D L	
UniRef90_M9ZPF6	A T G E V V K G S Y L N V T A A T H D E M I V R A E Y A K E I I G S V I I M I D L	A T G E V V K G S Y L N V T A A T H D E M I V R A E Y A K E I I G S V I I M I D L	
UniRef90_U3MC57	I F F E V V K G H Y L N T T G A T M E D M Y E R A D F P C S L G S I I V M I D L	I F F E V V K G H Y L N T T G A T M E D M Y E R A D F P C S L G S I I V M I D L	
UniRef90_F2ZCF5	E T G E A K I F S M N I T A D D Y H E M C A R A D F A L E V F G E D A P V D G Y	E T G E A K I F S M N I T A D D Y H E M C A R A D F A L E V F G E D A P V D G Y	
UniRef90_UP1000362E40B	A T G R R C Q Y F P N V T A Q R T T L M A R A R A A R E A G C A G V L V N P W L	A T G R R C Q Y F P N V T A Q R T T L M A R A R A A R E A G C A G V L V N P W L	
UniRef90_B8XLF2	P A A T M E E M Y E R A Q Y A K E V V G S V I I M I D L V	P A A T M E E M Y E R A Q Y A K E V V G S V I I M I D L V	
UniRef90_I4DDM4	E T G E A K L F S A N I T A D D P F E M I A R G E Y I L E T F A E N A S H D G Y	E T G E A K L F S A N I T A D D P F E M I A R G E Y I L E T F A E N A S H D G Y	
UniRef90_X1KXK2	E T G R K T I Y A P H L V A R P D K M K D T A K R L V E W G A S A L M F N P L	E T G R K T I Y A P H L V A R P D K M K D T A K R L V E W G A S A L M F N P L	
UniRef90_F2ZCE6	D T G E A K L F S A N I T A D D Y R E I I A R G E F I L E T F A E N A D H D G Y	D T G E A K L F S A N I T A D D Y R E I I A R G E F I L E T F A E N A D H D G Y	
UniRef90_G4V4B0	T G E V V K G S Y L N T T A G N I E E M Y A R A E Y A K K I I G S I I I M I D L V	T G E V V K G S Y L N T T A G N I E E M Y A R A E Y A K K I I G S I I I M I D L V	
UniRef90_F2ZCF4	E T G E A K I F S S A N I T A D D H H E M I A R G E Y I L E A F G E N A N H D G Y	E T G E A K I F S S A N I T A D D H H E M I A R G E Y I L E A F G E N A N H D G Y	
UniRef90_U3MBG2	A T G E V V K G S Y L N I T A A T M E E V Y K R A E Y A K A I I G S V I V M I D L	A T G E V V K G S Y L N I T A A T M E E V Y K R A E Y A K A I I G S V I V M I D L	
UniRef90_F2ZCG2	E T G D A K L F S A N I T A D S H D E M I A R G E Y I L G Q F G E Y A D H D G Y	E T G D A K L F S A N I T A D S H D E M I A R G E Y I L G Q F G E Y A D H D G Y	
UniRef90_F8I2R2	R T G Q K G L Y I V N V N G S P A T I L K T C E K A A R A G A D G F L I S G Y	R T G Q K G L Y I V N V N G S P A T I L K T C E K A A R A G A D G F L I S G Y	
UniRef90_I4DDP5	E T G Q Q A K I F S S A N I T A D D H Y E M C A R A D F A L E T F G V A F L V D A F	E T G Q Q A K I F S S A N I T A D D H Y E M C A R A D F A L E T F G V A F L V D A F	
UniRef90_C1FGV9	E T G R K C V Y A P C L N A P A H L V V Q R A R F A K A A G A G A V L M I P G	E T G R K C V Y A P C L N A P A H L V V Q R A R F A K A A G A G A V L M I P G	
UniRef90_U3MDP2	V T G E V V K G H Y L N A T A A T M E D M Y E H A D F C K E L G S V I V M I D L V	V T G E V V K G H Y L N A T A A T M E D M Y E H A D F C K E L G S V I V M I D L V	
UniRef90_R2XKG1	E Q S T L Y A V N I T G R N I I E R A Q L A I E A G A N A L M V N Y N	E Q S T L Y A V N I T G R N I I E R A Q L A I E A G A N A L M V N Y N	
UniRef90_W0E144	E C G G H T R Y L P N V T A P A G E L R A R A L Q A R A G A D G F L I S G Y	E C G G H T R Y L P N V T A P A G E L R A R A L Q A R A G A D G F L I S G Y	
UniRef90_Q8MDW1	A T G E V V K G H Y M N V T A A T M E D M Y E R A E F A X Q L G T V I V M I D L V	A T G E V V K G H Y M N V T A A T M E D M Y E R A E F A X Q L G T V I V M I D L V	
UniRef90_I0IS88	E T G E P K N V M M H P V D T P M K M V D R F S R G A N M G C D L A M L S P A	E T G E P K N V M M H P V D T P M K M V D R F S R G A N M G C D L A M L S P A	
UniRef90_Q6ST42	E T G E A K L F S A N I T A D D P F E I I A R G E Y V L E T F G E N A S H D G Y	E T G E A K L F S A N I T A D D P F E I I A R G E Y V L E T F G E N A S H D G Y	
UniRef90_Q32366	X X	X X	
UniRef90_T1X2M9	A T G E T K G S Y L N I T A A T M E E V Y K R A D Y A K K I I G S V I V M I D L	A T G E T K G S Y L N I T A A T M E E V Y K R A D Y A K K I I G S V I V M I D L	
UniRef90_A1WU93	E T G G R S L Y L P N V T G P R W E L D K R L D A A Q E A G C K A V L I C P F	E T G G R S L Y L P N V T G P R W E L D K R L D A A Q E A G C K A V L I C P F	
UniRef90_Q013D2	E T G R K C I Y A P C I N A P A H L V V Q R A K F A K A A G A G A V L M I P G I	E T G R K C I Y A P C I N A P A H L V V Q R A K F A K A A G A G A V L M I P G I	
UniRef90_X2L2E7	E S S E C K G K P Y L N A A G C S P E E K Y K R D E Y D K E I I A S P I I I M Q E L L	E S S E C K G K P Y L N A A G C S P E E K Y K R D E Y D K E I I A S P I I I M Q E L L	
UniRef90_T1WZU3	K A G A V V K G S Y L N V T A A T M E E M Y E R A A F A K E L G S I I I M I D L	K A G A V V K G S Y L N V T A A T M E E M Y E R A A F A K E L G S I I I M I D L	
UniRef90_G4E634	R H G T R S L Y V P N L T G G P A H L L E Q M R I A K D V G K A V M V A P M	R H G T R S L Y V P N L T G G P A H L L E Q M R I A K D V G K A V M V A P M	
UniRef90_F2ZCE9	E T G E A K L F S A N I T A D D H Y E M V A R G E F I L D T F G E F A D H A F L	E T G E A K L F S A N I T A D D H Y E M V A R G E F I L D T F G E F A D H A F L	
UniRef90_T1X283	A T G E V V K G S Y L N V T A A T M E E V Y K R S E Y A K E V V G S V I I M I D L V	A T G E V V K G S Y L N V T A A T M E E V Y K R S E Y A K E V V G S V I I M I D L V	
UniRef90_X2L297	T I T E L K G H Y S S V T N V V S Q E M I K R A A K Y K E S G L R G L M H G H L	T I T E L K G H Y S S V T N V V S Q E M I K R A A K Y K E S G L R G L M H G H L	
UniRef90_F2ZCB8	E T G E A K L F S A N I T A D D H N E M V A R G E Y I L E T F A E N A D H D G F	E T G E A K L F S A N I T A D D H N E M V A R G E Y I L E T F A E N A D H D G F	
UniRef90_F2ZCC4	E T G E A K L F S A N I T A D D P A E M V A R G E Y I L E T F A E N A D H D G F	E T G E A K L F S A N I T A D D P A E M V A R G E Y I L E T F A E N A D H D G F	
UniRef90_X1GPV0	E T G R Q T I Y A P H V A S P N K I K D T A K R L V E W G A S A L M F N P L	E T G R Q T I Y A P H V A S P N K I K D T A K R L V E W G A S A L M F N P L	
UniRef90_D7BH9	E T G G H G T L Y A P M L A G S P R V L R E N L R V A R D E G I R V V L V A P M	E T G G H G T L Y A P M L A G S P R V L R E N L R V A R D E G I R V V L V A P M	
UniRef90_D5SVD7	P P G Q K C L Y F P N L S G T L R D L E R Q A A F C V E S G I R G V L V A P M	P P G Q K C L Y F P N L S G T L R D L E R Q A A F C V E S G I R G V L V A P M	
UniRef90_D3PQ41	E T G G G H T L Y A P M L T G G P K T L H R H L R I A R Q A G V K V I I T A P M	E T G G G H T L Y A P M L T G G P K T L H R H L R I A R Q A G V K V I I T A P M	
UniRef90_G3EJJ0	E T G E A K I F S A N I T S D D P F E M I A R G E F I L E E A F G E N A D H D G F	E T G E A K I F S A N I T S D D P F E M I A R G E F I L E E A F G E N A D H D G F	
UniRef90_Q5DVV2	E T G E A K L F S A N I T A D F H E E M I K R G F E F V L D A F A K Y F L V D G F	E T G E A K L F S A N I T A D F H E E M I K R G F E F V L D A F A K Y F L V D G F	
UniRef90_X1L1A5	R F G E K M L Y M A D V T S D F A T L G K A A E I A I S A G A G G G L M L D P F	R F G E K M L Y M A D V T S D F A T L G K A A E I A I S A G A G G G L M L D P F	
UniRef90_A0A059IN90	E T G G G K A L Y F A S L T A G A P D E A E A N I R F A K Q A G V D G L L V M P G	E T G G G K A L Y F A S L T A G A P D E A E A N I R F A K Q A G V D G L L V M P G	
UniRef90_Q0A9H0	R S G G R G S L Y P N V T A A P Q A L G E R L A A R D G A C E M V L I S P W	R S G G R G S L Y P N V T A A P Q A L G E R L A A R D G A C E M V L I S P W	
UniRef90_Q5DVV5	D T G M A K L F S F N I T A D D H Y E M L H R G E Y I L E T F A E A F L V D G C	D T G M A K L F S F N I T A D D H Y E M L H R G E Y I L E T F A E A F L V D G C	
UniRef90_F2ZCB3	E T G Q P K L F S A N I T A D D P F E M I A R G E Y I L E T F G E H A E V D G Y	E T G Q P K L F S A N I T A D D P F E M I A R G E Y I L E T F G E H A E V D G Y	
UniRef90_C1MR98	E T G R R P C I Y A P C V N A P A H L V V A R A F A K A A G A G A V L M I P G I	E T G R R P C I Y A P C V N A P A H L V V A R A F A K A A G A G A V L M I P G I	
UniRef90_Q0GEY0	X X	X X	
UniRef90_S6DLX0	E T G E A K L F S A N I T A D D P A E M I A R A E F I L D G F N A P R V A F L	E T G E A K L F S A N I T A D D P A E M I A R A E F I L D G F N A P R V A F L	
UniRef90_UP10004769195	Q R R S S Q A I Y L P N I G G H G D E V E D L A F Y A K E H G A Q G L L L I P G	Q R R S S Q A I Y L P N I G G H G D E V E D L A F Y A K E H G A Q G L L L I P G	
UniRef90_16QN08	D T G Q A K I F S A N I T A D D P A E M I A R G E Y V L A Q F G E Y A E V D G F	D T G Q A K I F S A N I T A D D P A E M I A R G E Y V L A Q F G E Y A E V D G F	
UniRef90_S5K3Q9	E T G K A K L F S A N I T A D D P F E M I A R G E Y I L E T F A E A F L V D G F	E T G K A K L F S A N I T A D D P F E M I A R G E Y I L E T F A E A F L V D G F	
UniRef90_S9QP18	E T G R R P L Y F A V L P G Q R T E E A I A F A K A A R V D G L L T M P G	E T G R R P L Y F A V L P G Q R T E E A I A F A K A A R V D G L L T M P G	
UniRef90_W3Y5H0	A H G T K T L Y A A N I S G D G P E V M E R A Q F A K A A G A G A V L M I P G	A H G T K T L Y A A N I S G D G P E V M E R A Q F A K A A G A G A V L M I P G	
UniRef90_F2ZCB0	E T G E A K L F S M N I T A D D H F E M C A R A D F A L E A F G E D A D V D G F	E T G E A K L F S M N I T A D D H F E M C A R A D F A L E A F G E D A D V D G F	
UniRef90_S6DLW2	K T G E A K L F S A N I T S D D P F E M I A R G E F I L E T F G E F A D H A F L	K T G E A K L F S A N I T S D D P F E M I A R G E F I L E T F G E F A D H A F L	
UniRef90_F2ZCA9	K T G E A K L F S A N I T A D D P F E M I A R G E Y I L E Q F G E F A S H H D G Y	K T G E A K L F S A N I T A D D P F E M I A R G E Y I L E Q F G E F A S H H D G Y	
UniRef90_A0A017HM60	E T G R R P L Y F A T L P G P F E R I E E A I A F A K A A R V D G L L T M P G	E T G R R P L Y F A T L P G P F E R I E E A I A F A K A A R V D G L L T M P G	
UniRef90_X0TT38	E T G R T V I Y S P N I T D R Y S K M L E R M D H L K D I G W D V A M L D V Y	E T G R T V I Y S P N I T D R Y S K M L E R M D H L K D I G W D V A M L D V Y	
UniRef90_V5LLY6	E T G E A K L F S A N I T A D D H H E M V A R G E Y I L R I F G S D A D V D G F	E T G E A K L F S A N I T A D D H H E M V A R G E Y I L R I F G S D A D V D G F	
UniRef90_V4KR78	K R A D A G D T T R G L Y N G H G N Q L H D D A L F A K Q A G A D G V L I M P G	K R A D A G D T T R G L Y N G H G N Q L H D D A L F A K Q A G A D G V L I M P G	
UniRef90_W1UWY0	A H D T H T L Y A A N I V S G D G T D V L E R A Y F A K E A G A T A L M V A S G	A H D T H T L Y A A N I V S G D G T D V L E R A Y F A K E A G A T A L M V A S G	
UniRef90_Q07KC6	A R D G H S L Y A P N L S G T L D D M R R Q L D L A R E Q G I A A V M V A P M	A R D G H S L Y A P N L S G T L D D M R R Q L D L A R E Q G I A A V M V A P M	

130 140 150 160

UniRef90_X1CMU7	T	L	G	F	S	A	L	Q	E	I	R	D	Y	L	D	D	K	N	V	V	I	H	A	H	R	A	M	H	A	A	L	T	T	R	N	Q	R	H	G	M	S	
UniRef90_W7ZX99	A	Y	G	I	D	V	L	Q	G	L	R	E	D	E	E	I	D	V	P	I	F	A	H	S	S	L	A	G	M	I	R	S	K	Q	H	G	I	S				
UniRef90_Q7X097																																										
UniRef90_G0ZDJ4	D	I	G	Y	T	A	I	Q	S	M	G	Q	K	A	R	N	T	G	V	L	H	L	H	R	A	G	D	G	A	Y	T	R	E	E	D	H	G	E	T			
UniRef90_X1GVD8	A	G	P	S	V	L	R	V	V	L	A	E	D	P	E	I	N	V	P	I	L	H	L	H	P	S	H	M	I	S	M	T	P	R								
UniRef90_U3MEU7	V	I	G	Y	T	A	I	Q	S	M	G	K	W	A	R	D	Y	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N			
UniRef90_G1EFN6	I	G	Y	T	A	I	Q	S	M	G	I	W	A	R	K	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	I	H	G	M	N				
UniRef90_I0JTY9	L	V	I	G	W	T	A	I	Q	S	M	A	V	C	R	Q	N	D	M	L	H	L	H	R	A	G	H	S	T	Y	S	R	Q	K	N	H	G	I	S			
UniRef90_L0N7Y4	T	G	G	F	T	A	N	T	X	L	A	H	Y	C	R	D	N	G	L	L	H	H	I	X	X	A	M	H	A	V	I	D	R	Q	K	N	H	G	M	H		
UniRef90_X2L0G4	V	M	G	Y	T	A	I	Q	S	I	A	Y	W	A	R	E	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	A	R	Q	K	N	H	G	M	N			
UniRef90_D7GXD0	L	V	G	L	D	T	V	R	Y	L	A	S	T	Y	A	R	E	N	D	M	L	H	L	H	P	A	M	T	G	A	Y	F	H	D	P	N	Y	G	I	P		
UniRef90_V5W9K5	V	I	G	Y	P	A	I	Q	S	M	G	I	W	A	R	K	N	D	M	L	H	L	H	P	A	R	G	N	S	T	Y	A	R	Q	K	N	P	G	I	N		
UniRef90_A1R5Z1	V	M	G	L	P	A	L	A	L	L	R	S	F	A	E	V	P	I	F	G	H	R	A	G	L	A	S	M	R	S	K	G	L	G	M	D	S					
UniRef90_X1CX47	A	T	G	F	E	P	F	R	K	L	A	E	D	P	S	I	K	V	P	I	L	A	H	M	D	F	A	G	V	Y	I	G	G	E	W	T	G	M	T	S		
UniRef90_10IMN8	A	Y	G	P	V	L	E	S	L	A	A	D	P	I	N	V	P	I	F	C	H	P	A	L	S	G	V	I	T	G	P	S	D	Y	G	F	S	A				
UniRef90_N6UU95	U	N	I	F	Y	W	L	A	R	N	T	T	L	A	H	D	C	H	G	H	L	L	H	H	R	A	M	D	A	V	I	D	R	D	K	N	N	G	I	H		
UniRef90_H9ABC7	T	Y	G	F	S	A	N	T	T	L	A	H	D	C	H	G	H	L	L	H	H	M	H	R	T	M	H	V	V	I	D	R	L	K	N	H	G	I	H			
UniRef90_A4S040	T	G	G	F	V	M	T	T	A	R	R	W	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	G	A	V	T	S	P	S	A	K	R	G	Y	T				
UniRef90_G9J55	V	G	G	P	G	M	V	T	T	A	R	R	W	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	G	M	V	T	S	P	S	A	K	R	G	Y	T			
UniRef90_F2ZCD1	L	V	G	Y	G	W	L	H	R	L	A	T	D	D	E	L	G	P	I	L	T	H	P	A	M	G	G	F	V	L	P	G	I	S	G	I	A	D				
UniRef90_R5BSI7	T	Y	G	L	D	A	L	R	E	L	A	N	D	S	D	I	R	V	P	I	L	A	H	P	A	F	A	G	A	L	T	G	S									
UniRef90_U1N0A0	U	N	I	F	Y	W	L	A	R	N	T	T	L	A	H	D	C	H	G	H	L	L	H	H	R	T	M	H	V	V	I	D	R	L	K	N	H	G	I	H		
UniRef90_K4ARX4	T	G	G	F	S	A	N	T	T	L	A	H	D	C	H	G	H	L	L	H	H	M	H	R	T	M	H	V	V	I	D	R	D	K	N	N	G	I	H			
UniRef90_T0DUR0	V	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N				
UniRef90_J8TTD1	V	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N				
UniRef90_T1X146	V	I	G	Y	T	A	I	Q	S	I	A	Y	W	A	R	N	D	M	L	H	L	H	R	A	G	H	S	T	Y	R	Q	K	T	H	G	I	N					
UniRef90_X2L245	N	A	G	V	T	A	N	T	T	L	A	H	D	C	H	G	H	L	L	H	H	M	H	R	T	M	H	V	V	I	D	R	D	K	N	N	G	I	H			
UniRef90_T1X2S8	I	G	Y	T	A	I	Q	S	I	A	Y	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N					
UniRef90_T1X2Q1	V	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N				
UniRef90_T1X1P4	V	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N				
UniRef90_X2L7L1	V	M	G	Y	R	A	I	Q	S	I	A	Y	W	C	R	E	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	A	R	Q	K	N	H	G	I	N			
UniRef90_M9ZPF6	V	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	V	N				
UniRef90_U3MC57	V	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	S	R	Q	K	N	H	G	M	N				
UniRef90_F2ZCF5	V	G	G	P	G	M	V	T	T	A	R	R	Q	Y	P	D	Q	Y	L	H	Y	H	R	A	G	H	A	V	T	S	P	S	S	K	R	G	Y	T				
UniRef90_UP1000362E40B	T	G	M	D	A	V		A	W	L	R	D	E	P	G	L	A	V	M	A	H	P	A	L	T	G	D	L	F	S	P	R	H	G	I	S	A					
UniRef90_B8XLF2	V	G	Y	T	A	I	Q	S	I	A	Y	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	A	R	Q	K	N	H	G	M	N					
UniRef90_I4DDM4	V	A	G	P	T	A	I	T	T	C	R	R	Q	F	P	S	Q	F	L	H	Y	H	R	A	G	H	A	V	T	S	P	Q	A	K	R	G	Y	T				
UniRef90_X1KXK2	V	A	G	L	G	M	N	S	L	A	S	D	S	D	I	N	V	P	L	Y	A	H	S	G	R	S	G	W	S	T	G	P	R	R	L	D						
UniRef90_F2ZCE6	V	A	G	P	A	A	I	T	T	A	R	R	Y	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	A	V	T	S	P	Q	T	Q	R	G	Y	T				
UniRef90_G4V4B0	I	G	Y	T	A	I	Q	S	M	A	I	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	A	R	Q	K	N	H	G	I	N					
UniRef90_F2ZCF4	V	G	G	C	G	M	V	T	T	A	R	R	Q	Y	P	D	Q	Y	L	H	Y	H	R	A	G	H	G	C	L	T	S	P	S	S	V	R	G	Y	T			
UniRef90_U3MBG2	V	M	G	Y	T	A	I	Q	S	I	A	Y	W	A	R	N	D	M	L	H	L	H	R	A	G	N	S	T	Y	A	R	Q	K	N	H	G	I	N				
UniRef90_F2ZCG2	V	G	G	P	G	M	V	T	T	A	R	R	W	F	P	D	Q	Y	L	H	Y	H	R	A	G	H	G	A	V	T	S	P	Q	S	Q	R	G	Y	S			
UniRef90_F8I2R2	T	V	G	L	D	I	L	S	D	I	R	E	N	P	I	F	G	L	P	I	D	R	Y	R	F	N	E	R	V	P	Q	T	Q	R	G	Y	T					
UniRef90_I4DDP5	V	G	G	P	G	M	V	T	T	A	R	R	W	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	G	A	V	T	S	P	S	K	R	G	Y	T				
UniRef90_C1FGV9	I	T	G	L	D	T	M	R	H	L	A	E	D	P	F	G	L	P	I	V	C	H	P	A	M	L	G	G	G	S	Q	H	E	R	F	S	H					
UniRef90_U3MDP2	V	A	G	A	A	I	T	T	A	R	R	W	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	G	A	V	T	S	P	Q	T	Q	R	G	Y	T				
UniRef90_R2XGK1	V	A	G	G	W	A	T	D	L	R	E	D	P	F	G	L	P	I	V	C	H	P	A	M	L	G	G	G	S	Q	H	E	R	F	S	H						
UniRef90_W0E144	V	G	F	W	A	T	D	L	R	E	D	P	F	G	L	P	I	V	C	H	P	A	M	L	G	G	G	S	Q	H	E	R	F	S	H							
UniRef90_Q8MDW1	V	A	G	F	W	A	T	D	L	R	E	D	P	F	G	L	P	I	V	C	H	P	A	M	L	G	G	G	S	Q	H	E	R	F	S	H						
UniRef90_I0IS88	V	A	G	A	A	I	T	T	A	R	R	W	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	G	A	V	T	S	P	Q	T	Q	R	G	Y	T				
UniRef90_Q6ST42	V	A	G	A	A	I	T	T	A	R	R	W	F	P	N	Q	Y	L	H	Y	H	R	A	G	H	G	A	V	T	S	P	Q	T	Q	R	G	Y	T				
UniRef90_Q32366	V	I	S	G	I	S	V	L	S	T	L	R	E	H	G	F	I	V	L	A	H	P	A	L	L	G	I	A	R	M	D	P										
UniRef90_T1X2M9	V	D	G	Y	A	A	V	T																																		

170 180 190 200

UniRef90_X1CMU7	M	L	A	I	A	K	I	S	R		I	G	M	D	Q	L	H	T	G	T	A		G	K	M	E	G	G	K	E	E	V	V	T	I	N	N	I	I	T		
UniRef90_W7ZX99	R	L	L	L	G	K	L	M	R	M	A	G	A	D	A	V		F	P	S	P	Y	G	R	M	G	I		H	E	E	A	Q	H	V	K	E	Q	L	T		
UniRef90_Q7X097	F	R	V	I	A	K	C	L	R	L	S	G	G	D	H		H	T	G	T	V	V	G	K	L	E	G	D	R	A	S	T		G	F	V	D	Q	L	R		
UniRef90_G0ZDJ4	F	R	V	I	S	K	W	M	R	L	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G															
UniRef90_X1GVD8	W	P	V	M	A	R		C	R	L	C	G	A	D		M	L	T	P	T	Y	W	S	T	I		P	M	V	S												
UniRef90_U3MEU7	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		K	G	F	Y	N	T	L	L		
UniRef90_G1EFN6	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		K	G	F	Y	D	T	L	L		
UniRef90_I0JTY9	F	R	V	I	C	K	W	M	R	M	G	G	V	D	H		H	T	G	T	A	V	G	K	L	E	G	D	P	M	M		H	G	Y	Y	N	A	R	L		
UniRef90_L0N7Y4	F	R	V	I	A	K	A	L	R	R	M	S	G	G	D	H		X	X	G	T	V	V	G	K	L	E	G	E	R	E	M	T		L	G	F	V	D	L	L	R
UniRef90_X2L0G4	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	D	T	L	L	
UniRef90_D7GXD0	S	V	L	L	G	S	V	F	R	L	M	G	A	D		S	I	F	P	N	A	G	G	R	F	N	F	T	P	E	S	L	A		L	S	H	S	L	R		
UniRef90_V5W9K5	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		P	A	G	T	V	V	G	K	L	E	G	D	P	L	M		M	V	K	G	F	Y	N	V	L	
UniRef90_A1ARZ1	Y	R	V	W	Q	Q	M	A	R	L	A	G	A	D	H		H	A	S	G	L	G	S	K	F	Y	E	L		D	E	E	V	A	A	N	I	R	S	L	L	
UniRef90_X1CX47	M	L	V	L	A	K		P	R	I	C	G	A	D		V	V	T	P	A	P	Y	G	K	A	E	I	L		D	E	R	F	E	N	N	L	R	A	L	R	
UniRef90_10IMN8	R	V	L	G	T	L	M	A	H	A	G	G	D	A	V		V	P	F	T	R	F	G	N	F	P	V	L	P		E	E	S	S	L	V	D	T	L			
UniRef90_N6UU95	R	A	F	F	G	T	L	H	R	L	M	G	A	D	A	V		I	Y	P	N	F	G	G	F	T	R	E	E		C	V	S	I	A	D	A	C				
UniRef90_H9ABC7	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		R	G	F	Y	N	T	L	L		
UniRef90_A4S040	E	V	L	L	G	L	P	R	L	A	G	A	D	T	V		F	P	S	F	G	G	R	F	G	F	S	V	D	E		C	K	A	I	A	C					
UniRef90_G9IJ55	A	F	V	L	A	K	M	S	R	L	Q	G	A	S	G		H	V	G	T	M	G	Y	G	K	M	E	G	S	A	D	D	K	V		A						
UniRef90_F2ZCD1	A	F	V	L	A	K	L	S	R	L	Q	G	A	S	G		H	V	G	T	M	G	F	K	M	E	S	G	N	D	D	K		I								
UniRef90_R5BSI7	Y	L	W	M	G	L	P	R	L	F	G	S	D	M	S		I	F	V	S	Y	G	R	F	T	F	A	T	Q	Q		C	Q	R		S	A	Y	C			
UniRef90_U1N0A0	S	L	L	G	K	L	P	R	L	A	G	A	D		T	L	F	P	S	P	Y	G	S		L	A	T	P	R	D	E	A	F	T	I	R	D	Q	S	A		
UniRef90_K4ARX4	F	W	V	L	A	K	A	L	R	M	Y	G	G	D	H		H	S	V	T		V	G	K	L	E	G	D	P	L	M		R	G	F	Y	N	T	L	L		
UniRef90_T0DUR0	D	I	V	L	G	Q	L	A	R	M	A	G	D	M	V		I	F	P	S	M	Y	G	S	V	L	G	E	A	T	A	R	L	I	G	H	L	R				
UniRef90_J8TTD0	S	L	L	G	K	L	R	M	A	G	D		V	L	F		F	P	S	P	Y	G	S	V	A	L	D	K	E	E	T	E	A		A	K	R	L	Q			
UniRef90_T1X146	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	N	T		V	K	G	F	Y	D	T	L	L	
UniRef90_X2L245	F	R	V	L	A	N	A	L	G	M	S	R	G	D	H		H	S	R	T	G	T	G	K	L	K	G	E	R	N	L		T	L	A	F	V	Y	L	M	R	
UniRef90_T1X2S8	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_T1XQ21	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	V	L	L	
UniRef90_T1X1P4	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_X2L7L1	F	R	V	I	C	K	W	N	S	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	R	L		T	I	K	G	L	Y	D	I	R	R	
UniRef90_M9ZPF6	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_U3MC57	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_F2ZCF5	A	Y	I	L	A	K	M	A	R	L	I	G	A	S	G		H	V	G	T	M	G	Y	G	K	M	E	G	S	T	D		D	T	I	I						
UniRef90_UP1000362E40B	P	L	L	G	E		F	R	I	A	G	G	D	A	V		I	Y	P	N	R	G	G	R	F	G	S		L	A	R	C	E	R	I	N	E	R	L	R		
UniRef90_B8XLF2	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_I4DDM4	A	L	V	L	H	K	M	S	R	L	Q	G	A	S	G		H	T	G	T	M	G	Y	G	K	M	E	G	S	A	D	S	K	A	I	A						
UniRef90_X1KXK2	V	V	L	A	K	L	V	R	L	A	G	A	D	Y	F		Q	I	G	V	M	G	Y	G	K	M	E	G	D	S	K	A	I	A	V	H	V					
UniRef90_F2ZCE6	S	F	V	L	A	K	M	A	R	L	C	Q	G	A	S	G		H	V	G	T	M	G	Y	G	K	M	E	G	E	M	D	D	R	A	I	A					
UniRef90_G4V4B0	F	R	V	I	C	K	W	M	R	M	A	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_F2ZCF4	A	F	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	R	L	H		G	D	R	H	I					
UniRef90_U3MBG2	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_F2ZCG2	A	Y	V	L	A	K	M	A	R	L	C	Q	G	A	S	G		H	V	G	T	M	G	Y	G	K	M	E	G	E	M	D	D	R	A	I	A					
UniRef90_F8I2R2	A	F	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_I4DDP5	A	F	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_C1FGV9	K	V	L	G	V	P	R	L	A	G	A	D	Y	F		I	F	P	N	F	G	G	R	F	G	F	S	E	Q	C	V	D	I	A	K	G	C					
UniRef90_U3MDP2	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_R2XKG1	A	F	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V	V	G	K	L	E	G	D	P	L	M		V	K	G	F	Y	N	T	L	L	
UniRef90_W0E144	A	V	L	Y	G	L	F	N	R	L	A	G	A	D	Y		I	F	P	S	W	G	R	F	A	Y	T	E	E	C		D	V	L	V	H	A	V	Y	M	T	
UniRef90_Q8MDW1	F	R	E	L	C	X	W	X	M	G	V	X	P		X	X	T	V	G	K	X	E	G	D	P	L	M		R	G	F	Y	N	X	L	L						
UniRef90_I0IS88	V	R	A	W	S	K	F	M	R	L	A	G	A	D	V		V	L	Y	P	N	G	R	F	S	Y	S	R	D	T	C	M	S	L	A	Q	A	A	R			
UniRef90_Q6ST42	A	F	V	H	C	K	M	A	R	L	Q	G	A	S	G		H	T	G	T	M	G	F	K	M	E	G	E	S	D	R	A	I	Y	M	L	T					
UniRef90_Q32366	F	R	V	I	C	K	W	M	R	M	S	G	V	D	H		H	A	G	T	V</td																					

UniRef90_X1CMU7
 UniRef90_W7ZX99
 UniRef90_Q7X097
 UniRef90_G0ZDJ4
 UniRef90_X1GVD8
 UniRef90_U3MEU7
 UniRef90_G1EFN6
 UniRef90_I0JTY9
 UniRef90_L0N7Y4
 UniRef90_X2L0G4
 UniRef90_D7GX00
 UniRef90_V5W9K5
 UniRef90_A1R5Z1
 UniRef90_X1CX47
 UniRef90_10IMN8
 UniRef90_N6UU95
 UniRef90_H9ABC7
 UniRef90_A4S040
 UniRef90_G9J55
 UniRef90_F2ZCD1
 UniRef90_R5BSI7
 UniRef90_U1N0A0
 UniRef90_K4ARX4
 UniRef90_T0DUR0
 UniRef90_J8TTD1
 UniRef90_T1X146
 UniRef90_X2L245
 UniRef90_T1X2S8
 UniRef90_T1X2Q1
 UniRef90_T1X1P4
 UniRef90_X2L7L1
 UniRef90_M9ZPF6
 UniRef90_U3MC57
 UniRef90_F2ZCF5
 UniRef90_UP1000362E40B
 UniRef90_B8XLF2
 UniRef90_I4DDM4
 UniRef90_X1KXK2
 UniRef90_F2ZCE6
 UniRef90_G4V4B0
 UniRef90_F2ZCF4
 UniRef90_U3MBG2
 UniRef90_F2ZCG2
 UniRef90_F8I2R2
 UniRef90_I4DDP5
 UniRef90_C1FGV9
 UniRef90_U3MDP2
 UniRef90_R2XGK1
 UniRef90_W0E144
 UniRef90_Q8MDW1
 UniRef90_I0IS88
 UniRef90_Q6ST42
 UniRef90_Q32366
 UniRef90_T1X2M9
 UniRef90_A1WU93
 UniRef90_Q013D2
 UniRef90_X2L2E7
 UniRef90_T1WZU3
 UniRef90_G4E634
 UniRef90_F2ZCE9
 UniRef90_T1X283
 UniRef90_X2L297
 UniRef90_F2ZCB8
 UniRef90_F2ZCC4
 UniRef90_X1GPV0
 UniRef90_D7BHY9
 UniRef90_D5SVD7
 UniRef90_D3PQ41
 UniRef90_G3EJJ0
 UniRef90_Q5DVV2
 UniRef90_X1L1A5
 UniRef90_A0A059IN90
 UniRef90_Q0A9H0
 UniRef90_Q5DVV5
 UniRef90_F2ZCB3
 UniRef90_C1MR98
 UniRef90_Q0GEY0
 UniRef90_S6DLX0
 UniRef90_UP10004769195
 UniRef90_I6QN08
 UniRef90_S5K3Q9
 UniRef90_S9QP18
 UniRef90_W3Y5H0
 UniRef90_F2ZCB0
 UniRef90_S6DLW2
 UniRef90_F2ZCA9
 UniRef90_A0A017HM60
 UniRef90_X0TT38
 UniRef90_V5LLY6
 UniRef90_V4KR78
 UniRef90_W1UWY0
 UniRef90_Q07KC6

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

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

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

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

UniRef90_X1CMU7
 UniRef90_W7ZX99
 UniRef90_Q7X097
 UniRef90_G0ZDJ4
 UniRef90_X1GVD8
 UniRef90_U3MEU7
 UniRef90_G1EFN6
 UniRef90_I0JTY9
 UniRef90_L0N7Y4
 UniRef90_X2L0G4
 UniRef90_D7GX00
 UniRef90_V5W9K5
 UniRef90_A1R5Z1
 UniRef90_X1CX47
 UniRef90_I0IMN8
 UniRef90_N6UUG5
 UniRef90_H9ABC7
 UniRef90_A4S040
 UniRef90_G9IJ55
 UniRef90_F2ZCD1
 UniRef90_R5BSI7
 UniRef90_U1N0A0
 UniRef90_K4ARX4
 UniRef90_T0DUR0
 UniRef90_J8TTD1
 UniRef90_T1X146
 UniRef90_X2L245
 UniRef90_T1X2S8
 UniRef90_T1X2Q1
 UniRef90_T1X1P4
 UniRef90_X2L7L1
 UniRef90_M9ZPF6
 UniRef90_U3MC57
 UniRef90_F2ZCF5
 UniRef90_UP1000362E40B
 UniRef90_B8XLF2
 UniRef90_I4DDM4
 UniRef90_X1KXK2
 UniRef90_F2ZCE6
 UniRef90_G4V4B0
 UniRef90_F2ZCF4
 UniRef90_U3MBG2
 UniRef90_F2ZCG2
 UniRef90_F8I2R2
 UniRef90_I4DDP5
 UniRef90_C1FGV9
 UniRef90_U3MDP2
 UniRef90_R2XGK1
 UniRef90_W0E144
 UniRef90_Q8MDW1
 UniRef90_I0IS88
 UniRef90_Q6ST42
 UniRef90_Q32366
 UniRef90_T1X2M9
 UniRef90_A1WU93
 UniRef90_Q013D2
 UniRef90_X2L2E7
 UniRef90_T1WZU3
 UniRef90_G4E634
 UniRef90_F2ZCE9
 UniRef90_T1X283
 UniRef90_X2L297
 UniRef90_F2ZCB8
 UniRef90_F2ZCC4
 UniRef90_X1GPV0
 UniRef90_D7BHY9
 UniRef90_D5SVD7
 UniRef90_D3PQ41
 UniRef90_G3EJJ0
 UniRef90_Q5DVV2
 UniRef90_X1L1A5
 UniRef90_A0A059IN90
 UniRef90_Q0A9H0
 UniRef90_Q5DVV5
 UniRef90_F2ZCB3
 UniRef90_C1MR98
 UniRef90_Q0GEY0
 UniRef90_S6DLX0
 UniRef90_UP10004769195
 UniRef90_I6QN08
 UniRef90_S5K3Q9
 UniRef90_S9QP18
 UniRef90_W3Y5H0
 UniRef90_F2ZCB0
 UniRef90_S6DLW2
 UniRef90_F2ZCA9
 UniRef90_A0A017HM60
 UniRef90_X0TT38
 UniRef90_V5LLY6
 UniRef90_V4KR78
 UniRef90_W1UWY0
 UniRef90_Q07KC6

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

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

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

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

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

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

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

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

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

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

 I A F Y G P D V M L L I G G A L L D A P D M D R A A T D F V Q R A A H

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

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

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

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

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

 Y D T Y G D D C V Y L V G G S L L R Y G A K I G D A I K Q M S A A L N

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

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

UniRef90_X1CMU7
UniRef90_W7ZX99
UniRef90_Q7X097
UniRef90_G0ZDJ4
UniRef90_X1GVD8
UniRef90_U3MEU7
UniRef90_G1EFN6
UniRef90_I0JTY9
UniRef90_L0N7Y4
UniRef90_X2L0G4
UniRef90_D7GXDO
UniRef90_V5W9K5
UniRef90_A1R5Z1
UniRef90_X1CX47
UniRef90_I0IMN8
UniRef90_N6UUG5
UniRef90_H9ABC7
UniRef90_A4S040
UniRef90_G9IJ55
UniRef90_F2ZCD1
UniRef90_R5BSI7
UniRef90_U1N0A0
UniRef90_K4ARX4
UniRef90_T0DUR0
UniRef90_J8TTD1
UniRef90_T1X146
UniRef90_X2L245
UniRef90_T1X2S8
UniRef90_T1X2Q1
UniRef90_T1X1P4
UniRef90_X2L7L1
UniRef90_M9ZPF6
UniRef90_U3MC57
UniRef90_F2ZCF5
UniRef90_UP1000362E40B
UniRef90_B8XLF2
UniRef90_I4DDM4
UniRef90_X1KXK2
UniRef90_F2ZCE6
UniRef90_G4V4B0
UniRef90_F2ZCF4
UniRef90_U3MBG2
UniRef90_F2ZCG2
UniRef90_F8I2R2
UniRef90_I4DDP5
UniRef90_C1FGV9
UniRef90_U3MDP2
UniRef90_R2XGK1
UniRef90_W0E144
UniRef90_Q8MDW1
UniRef90_I0IS88
UniRef90_Q6ST42
UniRef90_Q32366
UniRef90_T1X2M9
UniRef90_A1WU93
UniRef90_Q013D2
UniRef90_X2L2E7
UniRef90_T1WZU3
UniRef90_G4E634
UniRef90_F2ZCE9
UniRef90_T1X283
UniRef90_X2L297
UniRef90_F2ZCB8
UniRef90_F2ZCC4
UniRef90_X1GPV0
UniRef90_D7BHY9
UniRef90_D5SVD7
UniRef90_D3PQ41
UniRef90_G3EJJ0
UniRef90_Q5DVV2
UniRef90_X1L1A5
UniRef90_A0A059IN90
UniRef90_Q0A9H0
UniRef90_Q5DVV5
UniRef90_F2ZCB3
UniRef90_C1MR98
UniRef90_Q0GEY0
UniRef90_S6DLX0
UniRef90_UP10004769195
UniRef90_I6QN08
UniRef90_S5K3Q9
UniRef90_S9QP18
UniRef90_W3Y5H0
UniRef90_F2ZCB0
UniRef90_S6DLW2
UniRef90_F2ZCA9
UniRef90_A0A017HM60
UniRef90_X0TT38
UniRef90_V5LLY6
UniRef90_V4KR78
UniRef90_W1UWY0
UniRef90_Q07KC6

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

G □ K □ K D Y A K D H K E □ G □ V A □ G □ W G T G K

G P □ E C P H D G Y R G H T M

WS K S □ P E □ V T □ A D A A K E S D □ V L R Q A □ E K W G K E S D A □ L K K A □ D A W G Y □ K

N □ P □ R D Y A Q D H K E □ □ T E A A Q T Y E E □ Q Q A □ A F W

□ P □ S R Y R K D H P E □ D A A □ T A F

G P N Q A S Q N S N P D P R G Q Y □ S S C E □ P A A Y P

R S

K S

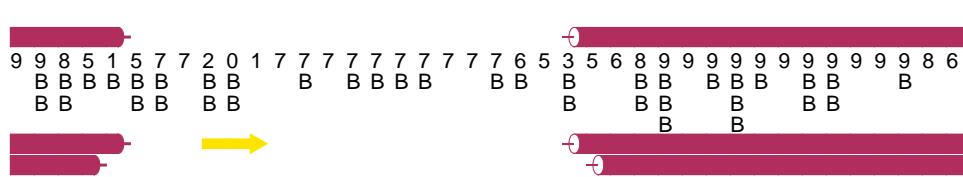
UniRef90_X1CMU7
UniRef90_W7ZX99
UniRef90_Q7X097
UniRef90_G0ZDJ4
UniRef90_X1GVD8
UniRef90_U3MEU7
UniRef90_G1EFN6
UniRef90_I0JTY9
UniRef90_L0N7Y4
UniRef90_X2L0G4
UniRef90_D7GX0D
UniRef90_V5W9K5
UniRef90_A1R5Z1
UniRef90_X1CX47
UniRef90_I0IMN8
UniRef90_N6UUG5
UniRef90_H9ABC7
UniRef90_A4S040
UniRef90_G9IJ55
UniRef90_F2ZCD1
UniRef90_R5BSI7
UniRef90_U1N0A0
UniRef90_K4ARX4
UniRef90_T0DUR0
UniRef90_J8TTD1
UniRef90_T1X146
UniRef90_X2L245
UniRef90_T1X2S8
UniRef90_T1X2Q1
UniRef90_T1X1P4
UniRef90_X2L7L1
UniRef90_M9ZPF6
UniRef90_U3MC57
UniRef90_F2ZCF5
UniRef90_UP1000362E40B
UniRef90_B8XLF2
UniRef90_I4DDM4
UniRef90_X1KXK2
UniRef90_F2ZCE6
UniRef90_G4V4B0
UniRef90_F2ZCF4
UniRef90_U3MBG2
UniRef90_F2ZCG2
UniRef90_F8I2R2
UniRef90_I4DDP5
UniRef90_C1FGV9
UniRef90_U3MDP2
UniRef90_R2XGK1
UniRef90_W0E144
UniRef90_Q8MDW1
UniRef90_I0IS88
UniRef90_Q6ST42
UniRef90_Q32366
UniRef90_T1X2M9
UniRef90_A1WU93
UniRef90_Q013D2
UniRef90_X2L2E7
UniRef90_T1WZU3
UniRef90_G4E634
UniRef90_F2ZCE9
UniRef90_T1X283
UniRef90_X2L297
UniRef90_F2ZCB8
UniRef90_F2ZCC4
UniRef90_X1GPV0
UniRef90_D7BHY9
UniRef90_D5SVD7
UniRef90_D3PQ41
UniRef90_G3EJJ0
UniRef90_Q5DVV2
UniRef90_X1L1A5
UniRef90_A0A059IN90
UniRef90_Q0A9H0
UniRef90_Q5DVV5
UniRef90_F2ZCB3
UniRef90_C1MR98
UniRef90_Q0GEY0
UniRef90_S6DLX0
UniRef90_UP10004769195
UniRef90_I6QN08
UniRef90_S5K3Q9
UniRef90_S9QP18
UniRef90_W3Y5H0
UniRef90_F2ZCB0
UniRef90_S6DLW2
UniRef90_F2ZCA9
UniRef90_A0A017HM60
UniRef90_X0TT38
UniRef90_V5LLY6
UniRef90_V4KR78
UniRef90_W1UWY0
UniRef90_Q07KC6

UniRef90_UPI000411B6AD	1	S	L	G	V	D	G	L	R	█	R	A	K	E	G	R	A	L	T	A	S	A	L	K	P	Q	G	L	S	A	A	E	L	A	K	L	A	H				
UniRef90_X6KV0		R	F	G	A	E	G	L	R	A	L	T	G	R	K	T	G	Y	L	C	P	V	V	K	P	Q	G	S	S	E	S	T	L	A	R	F	C	Y				
UniRef90_Q2V37		P	K	█	G	L	D	G	R	A	R	T	G	V	H	R	R	A	L	T	A	S	A	L	K	P	Q	G	L	A	P	A	A	L	A	A	I	R				
UniRef90_E6VQD3		P	K	F	G	I	G	G	R	A	R	L	G	V	P	R	R	A	L	T	A	S	A	L	K	P	Q	G	L	P	P	E	A	L	A	S	L	A	H			
UniRef90_C0QU33		P	K	Y	G	T	D	R	R	I	K	R	I	L	E	I	E	H	E	P	V	I	A	G	H	I	F	P	F	V	G	V	G	P	E	V	Y	V	D	L	F	E
UniRef90_H6SP89		P	N	V	G	L	E	G	R	D	K	A	P	G	R	A	M	T	C	G	A	L	K	P	Q	G	L	P	V	A	R	L	A	D	L	A	R					
UniRef90_B8FPK8		P	S	H	G	I	A	A	I	R	A	F	E	A	G	A	S	G	R	A	T	C	G	S	A	I	K	P	Q	G	V	P	A	E	F	I	A	F				

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

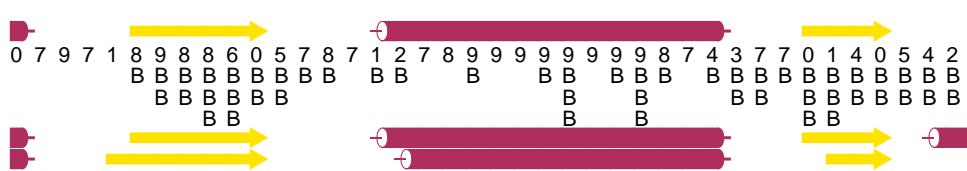
UniRef90_UPI000411B6AD 50 60 70 80
 UniRef90_X6KVB0 L T A R A G A D I V K E D H G L A N Q D A A P F R E R V A I A A E A V A R A N A
 UniRef90_Q2IV37 Q L A E G G V D L I K D D H G L A D Q A Y S P F A A R I A A V G R A V D A A N Q
 UniRef90_E6VQD3 R L A L G G I D L I K D D H G L A D Q A F S P F A A R V P A V A A A L R Q A S D
 UniRef90_C0QU33 K L A V N G V D I V I E D T S F I D D R L I P F D K R V E L C L K K A E Q I E K
 UniRef90_H6SP89 R F A D A G P D F I K D D H G H A D Q A F S P Y A E R V P A I A R A V R E S N A
 UniRef90_B8EPK8 A L S M G G L D F L K D D H G L A D Q T Y S R F E A R I A A C A A A V R K A R D

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



UniRef90_UPI000411B6AD 90 100 110 120
 UniRef90_X6KVB0 V T G K H T I Y A P S L S G S L A D M E R E I G I A R D E G L A A V L I A P V
 UniRef90_Q2IV37 E R A S T R A L Y F A S I G G H G D Q V R D L A C Y A R D A G A G G V L L M P G
 UniRef90_E6VQD3 A S G R R A L Y A P H V S G S L D E M R R Q L D L I R A E T I P A L M M M P M
 UniRef90_C0QU33 S C G A T T L Y A P H V S G S L D D M R R Q L D L I V R R E E L P A V M L M P M
 UniRef90_H6SP89 D T G R K I I Y I P V L T G S V G E V F E K A R F A E S I G I H G F H I D I D
 UniRef90_B8EPK8 R T G F K T R Y L P S L N G N L D Q M R A Q I R L G Q A E G L D T F M I A P M
 RTGGRTTRYAPSLSGSYP QMRQQQLAARGEGLDAAALIAAPM

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

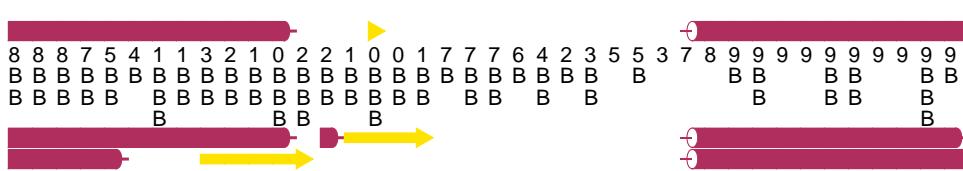


UniRef90_UPI000411B6AD V|A G F S N F Q A I|L|R E N P D F A F I|A H P T L|S G A A 130
 UniRef90_X6KVB0 L|F G F D A M N R|L|A Q D A E F D|L|P V M A H P S H|L|G P Y V L S|P D Q G Y G H 160
 UniRef90_Q2IV37 I|V I G L|S N F H|V|I A R E A E G L|V V L|A H P A L S G A T R I|A P P|L L
 UniRef90_E6VQD3 V|V G L|A N F H|L|V A K E A A G L|I V L|A H P S L|A G A Q R I|A P D|L L
 UniRef90_C0QU33 P|Y G M E F|L|R S L|S D G T E G I|L|A V S G S|V F S N R Y L E
 UniRef90_H6SP89 I|A G F S T F H T|L|V R E N P T T|A F F S H P T M T G A S R I A P
 UniRef90_B8EPK8 I|A G C S N F Q A I|B|V|E F P|D E A F|L|A H P T M T G R A I S

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm

UniRef90_UPI000411B6AD P A V | F A K | L | F R | L | G A D A S I | F P N Y | G G R F G Y S P A T C T A I | S R A | L | L |
 UniRef90_X6KVB0 G M L | F G Q M M R L | A G A D | S V | F P N H | G G R F G F S P E E C A E I | A S A | C R |
 UniRef90_Q2IV37 G K | L | F R | L | L | G A D A T V | F P H | A G G R F A Y T P E T C R A L | A D A A R |
 UniRef90_E6VQD3 G K L | F R | L | L | G A D A T I | F P H | H G G R F A Y A P G T C R A L | A G A A R |
 UniRef90_C0QU33 G Q | V | F | V | K | L | L | R | L | S G A D | L | N | P S P | F N E N R Y T | L | S R V | Y E | L | R |
 UniRef90_H6SP89 A F L | H | G K | L | F R | L | L | G A D A V | I | Y T N | H | G G R F G F T R E T | C R A I | A R |
 UniRef90_B8EPK8 P | V | L | F | A | R | L | F | R | L | F | G | A | D | V | A | I | F | P | N | Y | G | G | R | F | G | Y | S | P | A | V | C | E | A | I | A | A | A | L | L |

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



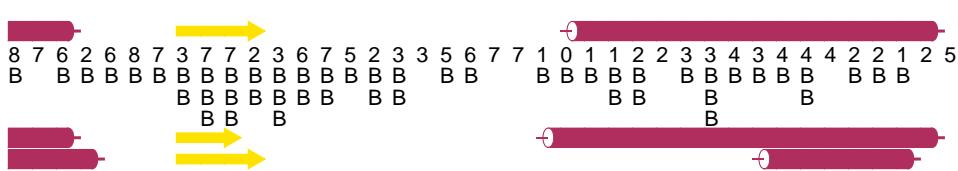
UniRef90_UPI000411B6AD D P [V]
UniRef90_X6KVBo
UniRef90_Q2IV37
UniRef90_E6VQD3
UniRef90_C0QU33 E
UniRef90_H6SP89
UniRef90_B8EPK8

210		240
-----	--	-----

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

UniRef90_UPI000411B6AD 250 260 270 280
 UniRef90_X6KVB0 L D F F G R E S M I L L I | G G A I | L A A A H G D | A
 UniRef90_Q2IV37 R T Q Y G A D C V Y L L | G G S L L | R Q G E E V G A A | K A C R A A | D
 UniRef90_E6VQD3 L S F Y G R D V M L L I | G G S L L | L A A R E N L | G A E A A R F V A E V A A H
 UniRef90_C0QU33 L A F Y G S D V M L L I | G G S L L | L A A G E H | L T E Q A A R F T A E V A S H
 UniRef90_H6SP89 Y R E F G N Q V I I N I | E E S Y Y N H P E G | L Q A G V R A F R E A L | D C V I K G
 UniRef90_B8EPK8 V E C Y G A D V | M L L I | G G A | L L S A P

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

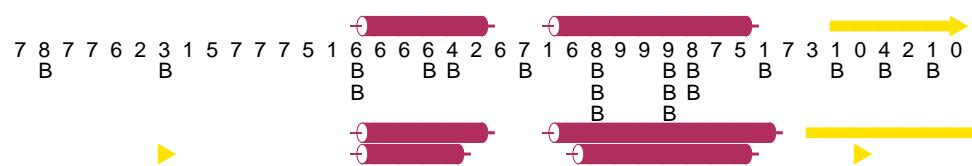


UniRef90_UPI000411B6AD
UniRef90_X6KVB0
UniRef90_Q2IV37
UniRef90_E6VQD3
UniRef90_C0QU33
UniRef90_H6SP89
UniRef90_B8EPK8

290 300 310 320

I S L D E C R K K S R D L D L A L S K W G

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



UniRef90_UPI000411B6AD
UniRef90_X6KVB0
UniRef90_Q2IV37
UniRef90_E6VQD3
UniRef90_C0QU33
UniRef90_H6SP89
UniRef90_B8EPK8

lupas_21
lupas_14
lupas_28
jnet
conf 2 8 8 8 9
sol25
sol5
solo
jhmm
jpssm

