

QUERY	1	10	20	30	40																																												
UniRef90_T2MJ43	K	V	S	S	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G					
UniRef90_B3S9Y0	K	F	S	S	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G					
UniRef90_UPI0003593FEC	K	V	N	S	G	E	L	F	T	L	T	T	Y	G	A	L	V	A	Q	Q	L	L	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_S2JY55	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	M	V	V	Q	Q	L	L	V	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G				
UniRef90_T1G6X9	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	L	V	A	Q	Q	L	L	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G					
UniRef90_F4NWB8	K	V	N	S	E	L	F	T	L	T	T	Y	G	S	L	V	A	Q	Q	L	L	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G					
UniRef90_T1JCC7	K	V	S	T	E	L	F	T	L	T	T	Y	G	S	L	V	A	Q	Q	L	L	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G					
UniRef90_Q4SIV0	K	M	N	A	E	L	F	T	L	T	T	Y	G	A	L	V	T	S	Q	Q	L	L	C	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G	
UniRef90_H2Y868	K	I	V	G	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	L	L	V	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_I1FWR8	K	V	S	G	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	L	L	V	R	D	Y	E	S	D	D	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_C4WXG1	K	V	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	L	L	M	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_UPI00044075E8	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	M	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_B7QH45	R	V	S	S	E	L	F	T	L	T	T	Y	G	S	L	V	A	Q	Q	L	L	M	K	D	Y	E	S	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_E9C9R4	R	I	S	S	E	L	F	T	L	T	T	Y	G	S	L	V	A	Q	Q	L	L	M	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G				
UniRef90_M2QXL2	K	V	N	S	E	L	F	T	L	T	T	Y	G	T	I	V	A	Q	Q	L	L	C	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_UPI000441432B	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	I	Q	D	Y	E	D	Y	A	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_A9STP5	R	V	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	R	Q	Q	L	L	I	T	D	Y	E	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G			
UniRef90_M7NS17	K	V	N	S	E	L	F	T	L	T	T	Y	G	S	I	V	A	Q	Q	L	L	C	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G				
UniRef90_E9H4K9	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	L	L	K	D	Y	E	N	A	E	D	V	N	N	R	Q	Q	L	L	E	K	K	M	G	F	N	I	G			
UniRef90_G1XR36	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	V	V	A	Q	Q	L	L	C	K	D	F	E	D	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G				
UniRef90_UPI000440ED7F	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	I	Q	Q	L	L	I	Q	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_M2RGY3	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	V	Q	D	Y	E	D	Y	A	A	V	N	T	Q	Q	L	L	E	K	K	M	G	F	N	I	G			
UniRef90_C1BR18	K	V	N	S	G	E	L	F	T	L	T	T	Y	G	S	L	V	A	Q	Q	L	L	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_UPI00026575E3	K	V	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	A	Q	Q	L	L	M	K	D	F	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_V2X627	K	V	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	I	Q	D	Y	E	D	Y	S	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_K5UYD2	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	I	Q	D	Y	E	D	Y	D	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_K3WYM83	K	V	N	S	E	L	F	T	L	T	T	Y	G	A	M	V	T	Q	Q	L	L	I	R	D	F	E	D	L	K	A	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_Q6CCJ8	K	V	N	S	E	L	F	T	L	T	T	Y	G	S	T	V	A	Q	Q	L	L	C	K	D	Y	E	N	G	D	Y	K	A	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G
UniRef90_X8JFP9	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	I	Q	D	Y	E	D	Y	G	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_UPI0003C375FB	K	V	N	S	E	F	L	T	L	T	T	Y	G	A	L	V	T	Q	Q	L	L	M	K	D	F	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_V5GBT0	K	V	N	S	E	L	V	T	L	T	T	Y	G	A	L	V	A	Q	Q	L	L	M	K	D	L	D	N	T	D	D	V	S	K	Q	Q	L	L	E	R	L	G	Y	N	M	G	G			
UniRef90_I6NDT6	K	V	N	S	E	L	F	T	L	T	T	Y	G	S	L	V	S	Q	Q	L	L	C	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	F	A	M	G	R	S	I	G		
UniRef90_UPI0004561315	K	V	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	M	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	F	A	M	G	R	S	I	G		
UniRef90_D8LQV4	K	V	N	S	E	L	F	T	L	T	T	Y	G	A	M	V	M	Q	Q	L	L	I	Q	D	F	E	D	V	G	A	V	N	N	K	Q	Q	L	L	E	S	M	G	Y	N	I	G			
UniRef90_A7TQ02	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	S	Q	Q	L	L	C	T	D	F	E	D	Y	N	K	V	N	N	K	Q	Q	L	L	E	F	A	M	G	R	S	I	G		
UniRef90_B0CSU6	K	I	N	S	E	L	F	T	L	T	T	Y	G	A	L	V	V	Q	Q	L	L	I	Q	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	F	A	M	G	R	S	I	G		
UniRef90_L1JCD7	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	M	V	Q	Q	L	L	I	K	D	Y	E	D	Y	P	N	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_G7E2V1	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	L	V	S	Q	Q	L	L	V	K	D	Y	E	D	Y	G	A	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_A0A024J9K7	K	V	N	S	E	L	V	T	L	T	T	Y	G	S	V	V	S	Q	Q	L	L	I	Q	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	H	K	M	G	Y	N	I	G		
UniRef90_E1ZNY8	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	M	V	R	Q	Q	L	L	I	A	D	H	E	D	V	E	E	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_G1KP89	K	I	N	S	R	E	L	F	T	L	T	T	Y	G	A	L	V	A	Q	Q	L	L	C	K	D	Y	E	H	D	E	D	V	N	N	K	Q	Q	L	L	E	T	R	M	G	Y	N	I	G	
UniRef90_Q6BQA5	K	I	N	S	S	E	L	F	T	L	T	T	Y	G	S	V	V	A	Q	Q	L	L	I	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	R	M	G	Y	N	I	G		
UniRef90_T1KC63	K	I	N	S	S	E	L	F	T	L	T	T	Y	G	S	L	V	F	Q	Q	L	L	I	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	R	M	G	Y	N	I	G		
UniRef90_G3BDP0	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	V	V	S	Q	Q	L	L	I	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_M9MFU9	K	I	N	S	E	L	F	T	L	T	T	Y	G	S	L	V	I	Q	Q	L	L	I	K	D	Y	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	K	K	M	G	F	N	I	G		
UniRef90_R4XC32	K	V	N	S	E	L	F	T	L	T	T	Y	G	S	I	V	A	Q	Q	L	L	C	N	D	C	D	E	Y	T	E	V	N	N	K	Q	Q	L	L	E	D	R	M	G	F	N	I	G		
UniRef90_M3XI53	M	N	T	E	L	F	T	L	T	T	Y	G	A	L	V	A	Q	Q	L	L	C	K	D	F	E	N	D	E	D	V	N	N	K	Q	Q	L	L	E	D	N	M	G	Y	N	I	G			
UniRef90_C5PAZ6	K	V	N	S	E	L	V	T	L	T	T	Y	G	T	I	V	A	Q	Q	L	L	C	R	D	L	T	D	Y	A	A	V	N	T</																

QUERY UniRef90_T2MJ43 UniRef90_B3S9Y0 UniRef90_UPI0003593FEC UniRef90_S2JY55 UniRef90_T1G6X9 UniRef90_F4NWB8 UniRef90_T1JCC7 UniRef90_Q4SIV0 UniRef90_H2Y868 UniRef90_I1FWR8 UniRef90_C4WXG1 UniRef90_UPI00044075E8 UniRef90_B7QH45 UniRef90_E9C9R4 UniRef90_M2QXL2 UniRef90_UPI000441432B UniRef90_A9STP5 UniRef90_M7NS17 UniRef90_E9H4K9 UniRef90_G1XR36 UniRef90_UPI000440ED7F UniRef90_M2RGY3 UniRef90_C1BR18 UniRef90_UPI00026575E3 UniRef90_V2X627 UniRef90_K5UYD2 UniRef90_K3WMD83 UniRef90_Q6CCJ8 UniRef90_X8JFP9 UniRef90_UPI0003C375FB UniRef90_V5GBT0 UniRef90_I6NDT6 UniRef90_UPI0004561315 UniRef90_D8LQV4 UniRef90_A7TQ02 UniRef90_B0CSU6 UniRef90_L1JCD7 UniRef90_G7E2V1 UniRef90_A0A024J9K7 UniRef90_E1ZNY8 UniRef90_G1KP89 UniRef90_Q6BQA5 UniRef90_T1KC63 UniRef90_G3BDP0 UniRef90_M9MFDU9 UniRef90_R4XC32 UniRef90_M3XI53 UniRef90_C5PAZ6 UniRef90_M2LVJ4 UniRef90_N1PWF2 UniRef90_E3KIT7 UniRef90_S8GST6 UniRef90_UPI000344407 UniRef90_W1QKQ7 UniRef90_UPI0003F49EAF UniRef90_Q9P6P5 UniRef90_G0VDG8 UniRef90_A0A024G2B4 UniRef90_W7TW04 UniRef90_H2AYQ1 UniRef90_G4TPC2 UniRef90_F0YEM0 UniRef90_Q86K94 UniRef90_A3LUN1 UniRef90_H0VMD7 UniRef90_C4QV63 UniRef90_L7LVK7 UniRef90_U6IIP5 UniRef90_F6URH0 UniRef90_R7Q6K9 UniRef90_C5JMK2 UniRef90_A8Q0V9 UniRef90_U5H198 UniRef90_F2UT79 UniRef90_I2GX78 UniRef90_M2WZ26 UniRef90_UPI0001DE7FBD UniRef90_T0R6E9 UniRef90_J7S6F2 UniRef90_Q2F629 UniRef90_W6MTK6 UniRef90_Q5CYM1 UniRef90_M1V793 UniRef90_Q5DAG3 UniRef90_D2W234 UniRef90_N1JHC2 UniRef90_U6M2T9 UniRef90_B6JXV2 UniRef90_A0A059LT19 UniRef90_Q4XQG1

50 60 70 80

V R L I E D F L A R S N N V I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_T2MJ43 V R L I E D F L A R S N N V I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_B3S9Y0 V R L M I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI0003593FEC V R L M I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_S2JY55 Q R M I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_T1G6X9 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_F4NWB8 M R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_T1JCC7 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_Q4SIV0 V R L L V E D D F L A R S N N V I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_H2Y868 V R L L V E D D F M A R S N N V I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_I1FWR8 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_C4WXG1 V R M V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI00044075E8 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_B7QH45 L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_E9C9R4 I L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_M2QXL2 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI000441432B T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_A9STP5 A R L V D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_M7NS17 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_E9H4K9 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_G1XR36 L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI000440ED7F T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_M2RGY3 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_C1BR18 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI00026575E3 Q R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_V2X627 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_K5UYD2 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_K3WMD83 I L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_Q6CCJ8 L R L I E D D F F A K T N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_X8JFP9 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI0003C375FB M R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_V5GBT0 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_I6NDT6 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI0004561315 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_D8LQV4 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_A7TQ02 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_B0CSU6 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_L1JCD7 Q R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_G7E2V1 T R L V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_A0A024J9K7 L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_E1ZNY8 Q R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_G1KP89 I L R L V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_Q6BQA5 L R L I E D D F V A K T N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_T1KC63 L R L I E D D F L A K T N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_G3BDP0 I L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_M9MFDU9 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_R4XC32 V R L I E D D F L A R T G Q G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_M3XI53 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_C5PAZ6 M R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_M2LVJ4 L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_N1PWF2 L R L V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_E3KIT7 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_S8GST6 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI000344407 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_W1QKQ7 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_UPI0003F49EAF T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_Q9P6P5 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_G0VDG8 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_A0A024G2B4 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_W7TW04 Q K L V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_H2AYQ1 V R I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_G4TPC2 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_F0YEM0 M R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_Q86K94 I L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_A3LUN1 L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_H0VMD7 T R L V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_C4QV63 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_L7LVK7 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T S Q N
UniRef90_U6IIP5 E K L A E D D F V A K G N S G R C C A D F K E T A T Q L V Q M A F K M Y L G I I S P S
UniRef90_F6URH0 V R L V D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I S P S
UniRef90_R7Q6K9 V R L V D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I S P S
UniRef90_C5JMK2 M R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I S P S
UniRef90_A8Q0V9 T R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I S P S
UniRef90_U5H198 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I S P S
UniRef90_F2UT79 V R M V D D F I A N T N T E R C C R G S F K E T C T L A K E G F R M F L D I V P K
UniRef90_I2GX78 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I R A T
UniRef90_M2WZ26 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I R A T
UniRef90_UPI0001DE7FBD I R L I E D D F L A N T G I S N C C R N F Y E N E T V A K V A F K M Y L G I I T P T
UniRef90_T0R6E9 I R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T
UniRef90_J7S6F2 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P T
UniRef90_Q2F629 V R L I E D D F L A R T T S T R C C L E M R E T A D K I Q Q A F K L Y S M Q P T
UniRef90_W6MTK6 L R L V E E F F A Q T N L S G R C C Q T F R E T A E V V A K V G F R M F L N V V P Q
UniRef90_Q5CYM1 I R L V D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T A R
UniRef90_M1V793 L R L V D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T A R
UniRef90_Q5DAG3 L K L V E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T P
UniRef90_D2W234 M R L I E D D F M S K S N G L G S C C R E D F K E T A E S A K V A F K M Y L G I I T V A N
UniRef90_N1JHC2 L R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T
UniRef90_U6M2T9 L R L V E D D F L A K A N I G A C C E S F R E T A E T I A K L G L R M F L G V S G E
UniRef90_B6JXV2 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T A S
UniRef90_A0A059LT19 Q R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T A S
UniRef90_Q4XQG1 V R L I E D D F L A R S N N T I G R C C H H D F D K E T A D D V I A K K V A F K M Y L G I I T A S

QUERY	90	100	110	120
UniRef90_T2MJ43	V	L	V	L
UniRef90_B3S9Y0	V	L	V	L
UniRef90_UPI0003593FEC	V	L	V	L
UniRef90_S2JY55	V	L	V	L
UniRef90_T1G6X9	V	L	V	L
UniRef90_F4NWB8	V	L	V	L
UniRef90_T1JCC7	V	L	V	L
UniRef90_Q4SIV0	V	L	V	L
UniRef90_H2Y868	V	L	V	L
UniRef90_I1FWR8	V	L	V	L
UniRef90_C4WXG1	V	L	V	L
UniRef90_UPI00044075E8	V	L	V	L
UniRef90_B7QH45	V	L	V	L
UniRef90_E9C9R4	V	L	V	L
UniRef90_M2QXL2	V	L	V	L
UniRef90_UPI000441432B	V	L	V	L
UniRef90_A9STP5	V	L	V	L
UniRef90_M7NS17	V	L	V	L
UniRef90_E9H4K9	V	L	V	L
UniRef90_G1XR36	V	L	V	L
UniRef90_UPI000440ED7F	V	L	V	L
UniRef90_M2RGY3	V	L	V	L
UniRef90_C1BR18	V	L	V	L
UniRef90_UPI00026575E3	V	L	V	L
UniRef90_V2X627	V	L	V	L
UniRef90_K5UYD2	V	L	V	L
UniRef90_K3WM83	V	L	V	L
UniRef90_Q6CCJ8	V	L	V	L
UniRef90_X8JFP9	V	L	V	L
UniRef90_UPI0003C375FB	V	L	V	L
UniRef90_V5GBT0	V	L	V	L
UniRef90_I6NDT6	V	L	V	L
UniRef90_UPI0004561315	V	L	V	L
UniRef90_D8LQV4	V	L	V	L
UniRef90_A7TQ02	V	L	V	L
UniRef90_B0CSU6	V	L	V	L
UniRef90_L1JCD7	V	L	V	L
UniRef90_G7E2V1	V	L	V	L
UniRef90_A0A024J9K7	V	L	V	L
UniRef90_E1ZNY8	V	L	V	L
UniRef90_G1KP89	V	L	V	L
UniRef90_Q6BQA5	V	L	V	L
UniRef90_T1KC63	V	L	V	L
UniRef90_G3BDP0	V	L	V	L
UniRef90_M9MFU9	V	L	V	L
UniRef90_R4XC32	V	L	V	L
UniRef90_M3XI53	V	L	V	L
UniRef90_C5PAZ6	V	L	V	L
UniRef90_M2LVJ4	V	L	V	L
UniRef90_N1PWF2	V	L	V	L
UniRef90_E3KIT7	V	L	V	L
UniRef90_S8GST6	V	L	V	L
UniRef90_UPI0003444407	V	L	V	L
UniRef90_W1QKQ7	V	L	V	L
UniRef90_UPI0003F49EAF	V	L	V	L
UniRef90_Q9P6P5	V	L	V	L
UniRef90_G0VDG8	V	L	V	L
UniRef90_A0A024G2B4	V	L	V	L
UniRef90_W7TW04	V	L	V	L
UniRef90_H2AYQ1	V	L	V	L
UniRef90_G4TPC2	V	L	V	L
UniRef90_F0YEM0	V	L	V	L
UniRef90_Q86K94	V	L	V	L
UniRef90_A3LUN1	V	L	V	L
UniRef90_H0VMD7	V	L	V	L
UniRef90_C4QV63	V	L	V	L
UniRef90_L7LVK7	V	L	V	L
UniRef90_L7LVK7	V	L	V	L
UniRef90_U6IIP5	V	L	V	L
UniRef90_F6URH0	V	L	V	L
UniRef90_R7Q6K9	V	L	V	L
UniRef90_C5JMK2	V	L	V	L
UniRef90_A8Q0V9	V	L	V	L
UniRef90_U5H198	V	L	V	L
UniRef90_F2UT79	V	L	V	L
UniRef90_I2GX78	V	L	V	L
UniRef90_M2WZ26	V	L	V	L
UniRef90_UPI0001DE7FBD	V	L	V	L
UniRef90_T0R6E9	V	L	V	L
UniRef90_J7S6F2	V	L	V	L
UniRef90_Q2F629	V	L	V	L
UniRef90_W6MTK6	V	L	V	L
UniRef90_Q5CYM1	V	L	V	L
UniRef90_M1V793	V	L	V	L
UniRef90_Q5DAG3	V	L	V	L
UniRef90_D2W234	V	L	V	L
UniRef90_N1JHC2	V	L	V	L
UniRef90_U6M2T9	V	L	V	L
UniRef90_B6JXV2	V	L	V	L
UniRef90_A0A059LT19	V	L	V	L
UniRef90_Q4XQG1	V	L	V	L

QUERY

UniRef90_T2MJ43
UniRef90_B3S9Y0
UniRef90_UPI0003593FEC
UniRef90_S2JY55
UniRef90_T1G6X9
UniRef90_F4NWB8
UniRef90_T1JCC7
UniRef90_Q4SIV0
UniRef90_H2Y868
UniRef90_I1FWR8
UniRef90_C4WXG1
UniRef90_UPI00044075E8
UniRef90_B7QH45
UniRef90_E9C9R4
UniRef90_M2QXL2
UniRef90_UPI000441432B
UniRef90_A9STP5
UniRef90_M7NS17
UniRef90_E9H4K9
UniRef90_G1XR36
UniRef90_UPI000440ED7F
UniRef90_M2RGY3
UniRef90_C1BR18
UniRef90_UPI00026575E3
UniRef90_V2X627
UniRef90_K5UYD2
UniRef90_K3WM83
UniRef90_Q6CCJ8
UniRef90_X8JFP9
UniRef90_UPI0003C375FB
UniRef90_V5GBT0
UniRef90_I6NDT6
UniRef90_UPI0004561315
UniRef90_D8LQV4
UniRef90_A7TQ02
UniRef90_B0CSU6
UniRef90_L1JCD7
UniRef90_G7E2V1
UniRef90_A0A024J9K7
UniRef90_E1ZNY8
UniRef90_G1KP89
UniRef90_Q6BQA5
UniRef90_T1KC63
UniRef90_G3BDP0
UniRef90_M9MFU9
UniRef90_R4XC32
UniRef90_M3XI53
UniRef90_C5PAZ6
UniRef90_M2LVJ4
UniRef90_N1PWF2
UniRef90_E3KIT7
UniRef90_S8GST6
UniRef90_UPI0003444407
UniRef90_W1QKQ7
UniRef90_UPI0003F49EAF
UniRef90_Q9P6P5
UniRef90_G0VDG8
UniRef90_A0A024G2B4
UniRef90_W7TW04
UniRef90_H2AYQ1
UniRef90_G4TPC2
UniRef90_F0YEM0
UniRef90_Q86K94
UniRef90_A3LUN1
UniRef90_H0VMD7
UniRef90_C4QV63
UniRef90_L7LVK7
UniRef90_L7LVK7
UniRef90_U6IIP5
UniRef90_F6URH0
UniRef90_R7Q6K9
UniRef90_C5JMK2
UniRef90_A8Q0V9
UniRef90_U5H198
UniRef90_F2UT79
UniRef90_I2GX78
UniRef90_M2WZZ6
UniRef90_UPI0001DE7FBD
UniRef90_T0R6E9
UniRef90_J7S6F2
UniRef90_Q2F629
UniRef90_W6MTK6
UniRef90_Q5CYM1
UniRef90_M1V793
UniRef90_Q5DAG3
UniRef90_D2W234
UniRef90_N1JHC2
UniRef90_U6M2T9
UniRef90_B6JXV2
UniRef90_A0A059LT19
UniRef90_Q4XQG1

UniRef90_UPI0003833CC6
UniRef90_E4WZM5
UniRef90_UPI00038E9BE4
UniRef90_C1FGH0
UniRef90_R1BH70
UniRef90_J9IDQ3
UniRef90_U1NF03
UniRef90_B8BZL3
UniRef90_R4FPN5
UniRef90_A0A022R045
UniRef90_F4K1U5
UniRef90_W4WAN7
UniRef90_W6L530
UniRef90_J4C2K2
UniRef90_D8M290
UniRef90_L0AXG6
UniRef90_A8J304
UniRef90_C1MS22
UniRef90_D8PVM2
UniRef90_I4YJW3
UniRef90_A0A059BME2
UniRef90_T1H6K6
UniRef90_A9VBF9
UniRef90_U6PX13
UniRef90_S9VYY0
UniRef90_G0U194
UniRef90_X2C459
UniRef90_A7AQG4
UniRef90_H3FD99
UniRef90_UPI000333F9EA
UniRef90_R9AMQ2
UniRef90_K0KPH7
UniRef90_A0A024VBZ2
UniRef90_C0S0Q2
UniRef90_UPI000333AE07
UniRef90_A0DEI2
UniRef90_Q4D0P0
UniRef90_U3LNU8
UniRef90_C1H805
UniRef90_P34605
UniRef90_D8U7N8
UniRef90_Q5A0J4
UniRef90_A4S1Q7
UniRef90_UPI0004405A3C
UniRef90_C4YBG3
UniRef90_E5SI08
UniRef90_M5G950
UniRef90_E6R9W6
UniRef90_A0A016VYZ0
UniRef90_G7YEY9
UniRef90_B7G9P1
UniRef90_A5DQI8
UniRef90_I718M3
UniRef90_S9UAT1
UniRef90_UPI0003EBD804
UniRef90_X6NME0
UniRef90_B0EB79
UniRef90_F7W5L9
UniRef90_Q229D2
UniRef90_D2DSN8
UniRef90_L1JUW7
UniRef90_A0A059BWW0
UniRef90_A8N279
UniRef90_C5LHW2
UniRef90_G5APA6
UniRef90_T0QJM8
UniRef90_F4NUA2
UniRef90_X8IVR3
UniRef90_K3XAK0
UniRef90_Q54YG5
UniRef90_K5Y697
UniRef90_A0A024TWG2
UniRef90_B6K0U0
UniRef90_A0A024GJ22
UniRef90_J0WPF2
UniRef90_M5FZ56
UniRef90_S2JN70
UniRef90_A9TS83
UniRef90_D7FQV7
UniRef90_E1ZPW5
UniRef90_G8YS93
UniRef90_L8FYS8
UniRef90_G3AXG1
UniRef90_UPI0000203F26
UniRef90_UPI000455E0A9
UniRef90_U9U2P9
UniRef90_D8QZX8
UniRef90_I0YR72
UniRef90_W7TEN4
UniRef90_M1CUB4
UniRef90_A5DI63
UniRef90_G4NEY8

UniRef90_UPI0003833CC6 V R L I E D F L A R S N V G K C H D F M Q E E T A D V I A K L G F K M Y L G I V T P S
UniRef90_E4WZM5 V R I I D D F L A K N R H G R C C K N S Y F K E E T A D E A I Q S A F K K Q Y I L N V V T Q T P S Q
UniRef90_UPI00038E9BE4 T R L V E D D F L A K R S C V T R R C C G H S F K E E T A H I A K E M A F K K M Y I L N V V T Q T P S Q
UniRef90_C1FGH0 C R L V E D D F L A K R S S T V T R C C C G H S F K E E T A H I A K E M A F K K M Y I L N V V T Q T P S Q
UniRef90_R1BH70 V R M V D E D F L A K A S L T A Q L C C C A S F S N E T A E V V V A K V G F K M F L G V I N V E E
UniRef90_J9IDQ3 C R L I D D E F F A K S P S G L C C C Q T D L N D T A K V L A E K Q A F K R T M F M G V V T A E Q
UniRef90_U1NF03 L R I A D D E F L A K N A S I G R C C C Q T D L N H Q V A L A L K V V L A K M G F K M F L G V I N V E E
UniRef90_B8BZL3 V R L V D E D F L A S K A D V A Q Q C C Q Y D F R D T A E E V V A K M G F K M F L G V I N V E E
UniRef90_R4FPN5 V R R L I D E D F L A K T G S G R C C C Y D F R D T A E E V I A K T G F R L Y L G V I N V E E
UniRef90_A0A022R045 V R L V D E D F L A K T G S G R C C C Y D F R D T A E E V I A K T G F R L Y L G V I N V E E
UniRef90_F4K1U5 I R L I D E D F L A K S G S G R C C C V D F R D T A E E M I A K V G F K M F L G V I N V E E
UniRef90_W4WAN7 I R L I D E D F L A R T G S G R C C C V D F R D T A E E K I A K V S G F K L F L G V I N V E E
UniRef90_W6L530 A R L V E E Y S M R S G A P P C C C R T F A H D A E E S V A R I I G F R M F L G V I N V E E
UniRef90_J4C2K2 S K L V D E E V L A K L G C V P C C T D F R S S T V E A I A K I G F K M F L G V I N V E E
UniRef90_D8M290 V R L I E D E Y L A K R T R T R S L T K S D F K S T V C E N I A S V A F P M F L G V I N V E E
UniRef90_LOAXG6 S K L V D E E V L A K L G C A P C C T D F R S T V E I A K V G F K M F L G V I N V E E
UniRef90_A8J304 I R L V D E D F L A K A K I S R C C C S S F R D T A E V V A K Q A L P M F L G V I N V E E
UniRef90_C1MS22 G R L I E D E F N A K N E Q Q R C C C V D F R D T A E E T I A G V A L R A M F L G V I N V E E
UniRef90_D8PVM2 T R L I E D E F L A K S G L T R C C C A D F R D V G E V V A K V G F K M F L G V I N V E E
UniRef90_I4YJW3 T R L I E D E F L A S K N P E V K C C C A N F N D T G E M I A K V G F K M F L G V I N V E E
UniRef90_A0A059BME2 T R L I D E D F L A K A N I S R C C C V D F R D T A E E M I A K V Q A F R L Y L G V I N V E E
UniRef90_T1H6K6 M R L I E D D F L S H T N Q D R C C C A S F Q E A C N V I A K D G F R R Y L G V I N V E E
UniRef90_A9VBF9 V R I V D D D F L A K N A G V P K C C C T D F R Q D J A E V L T K I G L K M F L G V I N V E E
UniRef90_U6PX13 T R L A D D E Y S A R S G G P P C C C K T F T D C A E S V A L I G L R M F L G V I N V E E
UniRef90_S9WVY0 A R L V E E Y S A R S G A P P C C C R T F A Q A A E A V A L I G L R M F L G V I N V E E
UniRef90_G0U194 S R L V E E Y S A R S G A P P C C C R S F R T Q A A E A G V A L V G L R M F L G V I N V E E
UniRef90_X2C459 A R L I E D E Y S V R S G A P P C C C R S F R T T V A E A I A K V G L R M F L G V I N V E E
UniRef90_A7AQG4 V R L V D E E V L A K L G C A P C C T D F R T T V A E A I A K V G L R M F L G V I N V E E
UniRef90_H3FD99 T R L A D D D F L A S R T N V S R C C C T D C K Q M A E T L A R D V I P M Y L G V I N V E E
UniRef90_UPI000333F9EA T R L V E D D F L A Q S S V L R C C C H S Y S E V T H I I A E V A F K M Y L G V I N V E E
UniRef90_R9AMQ2 V R L I E D E F L A K H G L A K R C C C V S F A E T A D V V A S V G F K V F L N I S V G
UniRef90_K0KPH7 I R L I E D E F L A K T G T G F C C C V S F K E T A E V I S K I G F K M F L G V I N V E E
UniRef90_A0A024VBZ2 T R L I E D E F L A K S N T G R C C C E D F E E T V N V I A K V A F K M F L G V I N V E E
UniRef90_C0S0Q2 M R L I E D D Y L A K S N T G R C C C A N F R E T A D M I S A E V A F K M Y L G V I N V E E
UniRef90_UPI000333AE07 T R L V E D D F L A R S S V R R C C C H S Y S E V T H I I A E V A F K M Y L G V I N V E E
UniRef90_A0DEI2 Q R I I D E E Y S K A E I K P C C C R D K F D V A E N I A G K V S M Q M F L G V I N V E E
UniRef90_Q4D0P0 S R L I E E Y S V R S G V P P C C C R T F A Q A A D A V P A L V G L R M F L G V I N V E E
UniRef90_U3LNQ8 A R L I E E Y C V R S G A P P C C C K L Y S Q A A E S V A L V G L R M F L G V I N V E E
UniRef90_C1H805 L S S F R N H L A R G N T P R C C C V D F R D T R Q I A D V L L C R N A I P C Y L G V I N V E E
UniRef90_P34605 T R L A D D D F L A K N A V P K C C C V D T R Q I A D V L L C R N A I P C Y L G V I N V E E
UniRef90_D8U7N8 I R L V D E D F L A K A K I T R C C C S S F R D T A E V V A K Q A L P M F L G V I N V E E
UniRef90_Q5A0J4 L R L I E D E F L A K T G I R C C C A T F K E E A M E M T T R V G L R M F L G V I N V E E
UniRef90_A4S1Q7 A R M V E E F L S R T N A G A C C C A T F K E E A M E M T T R V G L R M F L G V I N V E E
UniRef90_UPI0004405A3C L K S K Q V S V P R L S Y G R C C C L D L P E E W S L V A C K M Y L G V I N V E E
UniRef90_C4YBG3 V R L I E D E F L A K T G A G R C C C A N F R E T A D M I S A R K V A F K M F L G V I N V E E
UniRef90_E5SI08 L R I I D D F F L A K N V G K C C C G D R E K E V S E M V A R K V G F K S F L N I T P L
UniRef90_M5G950 T R L I E D D F M A R S N L G R C C C T D F R E V G E V A K V G F K S F L N I T P L
UniRef90_E6R9W6 T R L I E D D F L A R T G L R C C C Q S D F S E T A E V M S K V A F R S F L A I T P T
UniRef90_A0A016VYZ0 T R L A D D D F L A K N A V P K C C C V D T R Q I A D V L L C R N A I P C Y L G V I N V E E
UniRef90_G7YEY9 L R L I E D D Y L A R G N P G R C C C T D F K E T A A A L V K G F K L F L G V I N V E E
UniRef90_B7G9P1 I R S V E E F L A K A S L E R C C C Q F K E T A S D V L K M A L K M F L G V I N V E E
UniRef90_A5DQI8 L R L I E E F L A K T G A R C C C Q T F K E T S E V I A K I G F K L F L G V I N V E E
UniRef90_I718M3 S R L I D E E Y L S K A G S F S C C C K S F K E S V E A I A K V G F K M F L G V I N V E E
UniRef90_S9UAT1 V R L I E E Y S V K I N S A G C C C R T F A Q A A E R V A L T G L R M F L G V I N V E E
UniRef90_UPI0003EBD804 T R L V D E D F L A R S C V G R C C C H S Y S E I T D I A Q V A F K M Y L G V I N V E E
UniRef90_X6NME0 C R L I D E D F L S K S Q T R N C C C K N F H T T C E M I A K V G L K M F L G V I N V E E
UniRef90_B0EB79 T R I V E E Y L A K V E G K C C L S F K E H I E S L T Y V A F K M F L G V I N V E E
UniRef90_F7W5L9 V E V G F K L F L G V I N V T P T
UniRef90_Q229D2 S R L I D E D F V A K S E G K L C Q D Y K E M A N T I A K E G F E M F L G V K G E
UniRef90_D2DSN8 M R L I E D D F L A R A N P G R C C Y D L R D T A D K I Q Q A F K V Y L G V S P A D
UniRef90_L1JUW7 V R M L E L S S L R E G F K R E I K L I V G I L T A S Y I K D T I W K V M F G K V A D
UniRef90_A0A059BWW0 I R L I D E D F L A K S N V G R C C C V D F K E T A E M I A K V G F K M F L G V I N V E E
UniRef90_A8N279 M R V L E L M I W R S E S K R E I L R L P V L M M L H S Q V W K A V E G K A A D
UniRef90_C5LHW2 A R L L D E D F L I K S R A P P C C Q D F R D A C E V M S K V A L K M Y L G V I N V E E
UniRef90_G5APA6 S L T E D F L A W S N V G R C C C H D F R E T A D V T A K V E V G F K L F L G V I N V T P T
UniRef90_T0QJM8 V R V L E L L I A R D K L R R E T R L L N M L Q F F V S V C W K T L F G K A A D
UniRef90_F4NUA2 V R M L E F L I W R D R A K R E T R L L G A L Y F I N T A V W K A L F G K A A D
UniRef90_X8IVR3 T R V L E L M V W R A E P K R E T R L F L P A L M A I H S Q V W K A C F G K P A D
UniRef90_K3XAK0 V R V G E L L C H R E K S G R E T R L L S I L Q F I V S T C W K A L F G K A A D
UniRef90_Q54YG5 P R L L E L L C V R E N S K R E T R L L G L S F I H T T V W K S L F G K P A D
UniRef90_K5Y697 S R V L E L M A W R A E S K R E T R L V P A L M V I H T Q V W K A V Y G K A A D
UniRef90_A0A024TWG2 V R V L E L L S Y R D K L R R E T R L L N M L Q F F V S V C W K T L F G K P A D
UniRef90_B6K0U0 Q R L V E L V V W R S K R E T R V L G L Q F I H S S L W K Q L F G K H A D
UniRef90_A0A024GJ22 V R F V E L I I Y R E R A G R E T R F L G M L Q F L V S T C W K A L F G K A A D
UniRef90_J0WPF2 A R N T Q V G F K S F L N I T P S
UniRef90_M5FZ56 T R A L E L M V W R S N P K R E T R L L P V L Y V V H T Q V W K A I F G K T A D
UniRef90_S2JN70 S R V L E L L A W R S K V K R E T R V L G L S F V H S T V W K A L F G K Q A D
UniRef90_A9TS83 I R M L E L L C H R D K A R R E T R V L G L S F V H S T V W K S L F G K V A D
UniRef90_D7FQV7 L R V L E L Q T F R R R R R R V R L L P M L Q W V S S N V W K A L F G K T A D
UniRef90_E1ZPW5 L R L L E V L C Y R E R A R R E T R L L D M L K F V H S T L W K Y L F G R Q A R
UniRef90_G8YS93 Q R F L E L V L K T R R I K R E T R L L I L Q F I H G A F W K S I F G R T A N
UniRef90_L8FYS8 Q K L L D V L I W R E P P R R L N I I A L L N F I N V M W K H L F A R P A D
UniRef90_G3AXG1 K K F L E L S K T R E G L K R E I K I V E L L Q F I H S T L W K G L F G K I A N
UniRef90_UPI0000203F26 A F K M Y L G I T P S
UniRef90_UPI000455E0A9 L R V L E L L A W R S E S K R E T R F L P A L M F V H T Q V W R A V A K Q A D
UniRef90_U9U2P9 T R L L E L I V W R D N S K R E T R V L G L S F V H H T T V W K T L F G K Q A D
UniRef90_D8QZX8 L R F L E L L C H R E N G N K R E I R L L G I L S F V H H T T V W K S L F G K V A D
UniRef90_I0YR72 L R L L E L L C H R E N S K R E I R L L D V L K S F V H H T S L W K Y L F G R Q A K
UniRef90_W7TEN4 H R V L E L L A F R E K Y R E I K L I G V L Q F V S S T V W K A L F N K V A D
UniRef90_M1CUB4 Q M F L G V I T A T
UniRef90_A5DI63 Q R Y L E L V K V R E G F K R E I K I I E M L Q F L H S P M W I A M F G K S A N
UniRef90_G4NEY8 V K L L D L L L H R E P A K R P L N I I A L L H F I K I N V W T H L F G R Q A D

UniRef90_UPI0003833CC6 I T N W S P A G D E F S L L T L E D T N P P L L V D F V V E L L P P D A N H S S R L L Y S N L L C C C C
UniRef90_E4WZM5 V G K W N S D A S Q N E F S L L T L E D T N P P L L S E F V V E L L P P P A E G R R S S R L L Y S N L L C C C C
UniRef90_UPI00038E9BE4 V T G C N N S S G T E F S L L T L E D T N P P L L S E F V V E L L P P P A E G R R S S R L L Y S N L L C C C C
UniRef90_C1FGH0 V V T G E W N S P E S G T E F S L L T L E D T N P P L L S E F V V E L L P P P A E G R R S S R L L Y S N L L C C C C
UniRef90_R1BH70 V V A A T S S S G T E F S L L T L E D T N P P L L S E F V V E L L P P P A E G R R S S R L L Y S N L L C C C C
UniRef90_J9IDQ3 I V T A N G W D A G A N D A F S S L L L F R E S E N P P L L A A D F V V E L L P P P E E Q H Q Q K L S E Y S S G L L L C C C C
UniRef90_U1NF03 V T T N W S S A G D E F S L L Q F E E S D N P P L L T E F V V E L L P P D D D L R R R L L K Y S S N L L Y C C C C
UniRef90_B8BZL3 V G G F S A Q D Q R D E F S L L Y L Q Q D N P P L L A T E F V V E L L P P D D D L R R R L L K Y S S N L L Y C C C C
UniRef90_R4FPN5 I T T N W S S A G D E F S L L Q F E E S D N P P L L T E F V V E L L P P D D D H C C C C G L L K Y S S N L L T S S
UniRef90_A0A022R045 V T T N W S S A G D E F S L L C C C S L L E E D N P P L L V D F V V E L L P P D D T C C C C Q Q G L L Y Y C C C C
UniRef90_F4K1U5 I T N W S P A S A D S F S L L C F T F E D N P P L L T E F V V E L L P P D D N G Y D S N Q L L K Y S S N L L P C C C C
UniRef90_W4WAN7 V V D V D P E N N V Y N I S F Q E S N P P L L D Q F V V E L L P P E E T L L K S D L N Y S S N I F C C C C
UniRef90_D8M290 V D N W N E R E N Q S C L N K F V S N P P L L S Q N F V V E L L P P E E S L F S K L N Q Y S S N A G I Y Y C C C C
UniRef90_L0AXG6 V V T V N E R E N H N K F Q E S N P P L L S D Q F V V E L L P P E E S L C C K L N Y S S N I F C C C C
UniRef90_A8J304 V T N W S P D Q T E C S L V L T D N P P L L A D F V V E L L P P D E Y R R E L R Y C C N V L A C C C C
UniRef90_C1MS22 C A D W N A D H T S C L V V M E T N P P L L A E F V V E L L P P D E R Y R D L S Y G Q V M L C C C C
UniRef90_D8PVM2 I A H Q P A T S G A S F T L T L D D N P P L L A E F V V E L L P P D E R Y R D L S Y G Q V M L C C C C
UniRef90_I4YJW3 V V H N G S N E F T L V I E E D N P P L L N Q F V V E L L P P D D T A E G G L L Y S S N V L A C C C C
UniRef90_A0A059BME2 V T N W S S E G T C C C N M V L E E N P P L L V D F V V E L L P P P E L C C C C N N L L K Y S S A I I L A C C C C
UniRef90_T1H6K6 I L N W S S S S D T E F S L L I F E E N N P P L L I D F V V E L L P P P E L C C C C N N L L K Y S S A I I L A C C C C
UniRef90_A9VBF9 L A K W S P E R T E F Y F I L E E N N P P L L V T F T E V V P E N H R N G L L F S S N I L A C C C C
UniRef90_U6PX13 V S N W G G S D R D E F S L L I F E E N N P P L L T E L V E L L P P P A T L L S A L N Y S S Q V I L A C C C C
UniRef90_S9WVY0 V S A V K S S A D T F S L I R F H H D N P P L L N I F V E L L P P P A T L L S A L N Y S S Q V I L A C C C C
UniRef90_G0U194 V Q Q Q G G A G D N F I V T F S D N P P L L S L F V E L L P P P E G R E R L W Y S S N V L A C C C C
UniRef90_X2C459 L T Q V I D E A T H Y A I S F H H E N P P L L A L F V E L L P P D E N G K E H L W A Y S S N I L A C C C C
UniRef90_A7AQG4 V V I D E A T H Y A I S F H H E N P P L L A L F V E L L P P D E N G K E H L W A Y S S N I L A C C C C
UniRef90_H3FD99 V S N W S S G D K E F S L L I L D N N P P L L M E L V E L L P P Q S L S S A L N A Y S S Q L L L A C C C C
UniRef90_UPI000333F9EA V T C N N S S R N E F S L L L L D K N P P L L S E F V V E L L P P A G S R S S L L C Y C C N L L A C C C C
UniRef90_R9AMQ2 V S H I T H D E Y S L L T L D N P P L L S N Q F V V A L L P P A G S A R S G L L Y S S N I L A C C C C
UniRef90_K0KPH7 I T N W T S D G K T F S L L I L E E N P P L L A E F V V E L L P P D D D N K E L W Y S S N V L A C C C C
UniRef90_A0A024VBZ2 V T C V N K E S N I F S L L I F D N P L S D F V V K P D D D Q S D E L W F S N I L L C C C C
UniRef90_C0S0Q2 V T C N N S S R N E F S L L L L D K N P L S E F V V E L L P P A G R S S L L C Y C C N L L A C C C C
UniRef90_UPI000333AE07 V E E V L P E T D D A F S L L H F T E N P P L L N D F V V E L L P P E G H L Q Q R L N Y S S N M I L A C C C C
UniRef90_A0DEI2 V E P R E V I G T D D A F S L L K F A E N P P L L A L F V V E L L P P E G H L Q Q R L N Y S S N M I L A C C C C
UniRef90_Q4D0P0 V A V R D T E S N T Y S L I T F A S N P P L L S L F V V E L L P P E G A R E K L W Y S S N I L A C C C C
UniRef90_U3LNQ8 I A N W T S D G R F S L I T F D E A N P P L L A D F V V E L L P P D D D Q D E L W F S S N I L A C C C C
UniRef90_C1H805 A S S W T S D N D R E F T I L T F E A N P P L L T E L V Q V P A H L A K E G L S Y S S Q L I A C C C C
UniRef90_P34605 V A S N W S P D Q T E C S L L I L T D N P P L L A D F V V E L L P P E E Y R R D L K Y C C N V L A C C C C
UniRef90_D8U7N8 V E N W S N D E R G R C C C S L I L P E S N P P L L A E F V V E L L P P K I A K E L S Y S S Q L I A C C C C
UniRef90_Q5A0J4 T R D W S E N D E R G R C C C S L I L P E S N P P L L A E F V V E L L P P K I A K E L S Y S S Q L I A C C C C
UniRef90_A4S1Q7 V T C N N S S R N E F S L L I L D K N P P L L V E F V V E L L P P A G Q S S L L C Y C C N L L A C C C C
UniRef90_UPI0004405A3C V E S F S A D G M D F S L L V L F E A N P P L L A E F V V E L L P P K I Q K E L W Y S S Q L I A C C C C
UniRef90_C4YBG3 V S N W S P A G M D E F S L L V L F E A N P P L L A E F V V E L L P P E D H K K L W Y S S Q L I A C C C C
UniRef90_E5SI08 I T H R P S P G S S F V L T L E E N P P L L A E M V D L P P E E A G G L W W S S N V L A C C C C
UniRef90_M5G950 V T N N L G G Q S D F S L I T F E E N P P L L A E F A E V P P A S L S T L N Y S S Q I A C C C C
UniRef90_A0A016VYZ0 V S N W G G D R E F S L I T F E E N P P L L A E F A E V P P A S L S T L N Y S S Q I A C C C C
UniRef90_G7YEY9 V G K F S A T G D E F S L I T L D T N P P L L T E F V V D L P P P E H P K L L Y S S N V L A C C C C
UniRef90_B7G9P1 A G V Q E D S H F S L Q F A E N P P L L S L F V E L L P P N D R S D L E Y S S Q L I A C C C C
UniRef90_A5DQI8 V G N W S Q E D S H F S L Q F A E N P P L L S L F V E L L P P N D R S D L E Y S S Q L I A C C C C
UniRef90_I7I8M3 S E V V D E E K N L Y H I T F E D N P P L L E M F I E M S D S L G D L E Y S S N V L A C C C C
UniRef90_S9UAT1 V T P V K D S A D T F S L I K F Q D N P L N L F V E L P E G R E K L W Y S S N V L A C C C C
UniRef90_UPI0003EBD804 L V T C N N S S R N E F S L L I L D D D P L S E F V V E L L P P S Q F K N L L Y S S N I L C C C C
UniRef90_X6NME0 I R K S T P T N N C Y I L E I P N N P L L N D F V V E L L P P S Q F K N L L Y S S N I L C C C C
UniRef90_B0EB79 C Y E V N E K Q W K I S I S D N E P P L L S E F V V E L L P P E D K K N E L W F S S N I Y C C C C
UniRef90_F7W5L9 I T N W T S D N K Q F S L I F E D N P P L L A D F V V E L L P P E D K K N E L W F S S N I Y C C C C
UniRef90_Q229D2 L Q E L K A D D I S F N I L F E N E N P P L L A D F V V E L L P P E H L A G L S Y N N L I C C C C
UniRef90_D2DSN8 I G S W N P G G D E F S V L E T N P P L L A E F V V E L L P P D D H Y G L G L R Y C C C C
UniRef90_L1JUW7 S L J E R V T D K E D E Y M I H E K D P P L V N Y I S V L P K E Y G H L N C A A F V A
UniRef90_A0A059BWW0 V T N W D A D G T C C C S I V L E D N P P L V D F V V E L L P D T C C G L L Y Y C C N L L S
UniRef90_A8N279 A I E K S V E N A D E Y M I I P V N P P L I N D F V V E L L P M E L L R R L S Y S S S F T A
UniRef90_C5LHW2 C V D W S T E G R K C R L V L E D N P P L V D F V V E L L P D N H S S L L Y S S N L L C C C C
UniRef90_G5APA6 A L E R S T E N D E Y M I H E L D P P L T N F I S V P V D M S S L L N C C A A Y L A
UniRef90_T0QJM8 S L E K G T D N D D E Y M I S D N E P P L T K Y I S V P P R E M G S S L N C C G A F T A
UniRef90_F4NUA2 G I E K S V E K E D E Y M I S D D P P I T R Y I S V V P K D M D S L L S C C A A L T A
UniRef90_X8IVR3 A L E R S T E N E D E Y M I H E L E P P I T N F I S V L P P D L G S S L D C C A A Y L A
UniRef90_K3XAK0 S L E K S T E A D D E Y M I S D N N M V P K H L V N F I S V L P K H L G S S L N C C A A F V A
UniRef90_Q54YG5 A I E K S V E N A D E Y M I S D D P P I E R N I S V L P R D M G G L L S C C A S F T A
UniRef90_K5Y697 A I E K S V E N A D E Y M I S D D P P I E R N I S V L P R D M G G L L S C C A S F T A
UniRef90_A0A024TWG2 A L E R S T E K E N E Y M I H E N A P V I T N F I S V P P R D M G G L L N C C A A Y L A
UniRef90_B6K0U0 S L E K S T E K N D E Y M I V D N S P V I N K F I S V P P K N M N Q L L N C C A A Y L A
UniRef90_A0A024GJ22 A L E R S T T N E N E Y M I H E L D P I T N F I S I P S D L G Q L D C A A Y L A
UniRef90_J0WPF2 V T H S T P S S R W F T L T F D E N P P L A E F V E L P D D A G S Q L W Y S S N V L A C C C C
UniRef90_M5FZ56 A I E K S V E N D D E Y M I I D D P P I T R Y I S I P K E M G S Q L S C C A L T A
UniRef90_S2JN70 A I E K S T E N E D E Y M I S D N E P L L T R Y I S V P K E L S Q L L N C C N A F V A
UniRef90_A9TS83 S L E K G T E H E D E Y M I S E K E L L V N F V S V P A G G M G G L L N C C G T F V A
UniRef90_D7FQV7 S L E R S T E N E D E Y M I H E R E P M T N F V S V P A D L G G L L N C C A A L V A
UniRef90_E1ZPW5 D L E Q S N T A E D E Y M I S D D L F V T K Y V S V P R E M G H F N P A A F V A
UniRef90_G8YS93 E L E K S Q D E N E Y M I I D D P P L V K F I S V P K D Y G S L L N C C A S F T A
UniRef90_L8FYS8 A L E K S N E S P D Q Y M I I D N E P P L V N Y V S V P K E M S Q L L N C C A A F V A
UniRef90_G3AXG1 E L E K S Q D V N N E Y M I I D N C P L V K F V N V P K D Y G S D L L N C C A A F I A
UniRef90_UPI0000203F26 I T N W S P A G D E F S L L L E E N P P L V D F V E L P D D H S S L L Y S S N L L C C C C
UniRef90_UPI000455E0A9 A I E K S V E N P D E Y M I V D N P P L E R H I P R D M S T L S C C S S F A
UniRef90_U9U2P9 T L E K S T E N E N E Y M I S E D N D P L L S K Y I S V P K E L S E L L N C C S S F L A
UniRef90_D8QZX8 S L E K G T E H D D E Y M I S E K E L L V N F I S V P K D M G A L N C C G A Y V A
UniRef90_I0YR72 D L E Q S N T A E D E Y M I S D Y D L L F V N F I S V P K D M G A L N C C A A F V A
UniRef90_W7TEN4 S L E R S T E N E D E Y M I H E R E P I T N F V S A P A D I S Q L L N C C A A Y I A
UniRef90_M1CUB4 V G N W N A E G T T C S M I L E D N P P L V D F V E L P D T C C G L L Y Y C C S N L L S
UniRef90_A5DI63 E L E K S Q D S T N E Y M I T D N V P L V Q F F V V P K D Y G N L N C C A A F I A
UniRef90_G4NEY8 R L E K S S D S T D E Y M I I D N E P L V N Y V S V P R E M S Q L N C C A A F A A

UniRef90_UPI0003833CC6 G V L R G A L E M V Q L E T K V M F V A Q D N L K G G S N S V T E I R I K S F V K K L
 UniRef90_E4WZM5 G I I R G A L E M V V H L A V D T V M F L Q D R L K K G D S N S V T E I R I K S F V K K L
 UniRef90_UPI00038E9BE4 G I I R G A L E M V V H L A V D T V M F L Q D R L K K G D S N S V T E I R I K S F V K K L
 UniRef90_C1FGH0 G V L R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_R1BH70 G V I R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_J9IDQ3 G V I R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_U1NF03 G A I R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_B8BZL3 G V I R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_R4FPN5 G V L R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_A0A022R045 G V V R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_F4K1U5 G V I R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_W4WAN7 G V I R G A L E M V V S M R V T E C S L L R D T L W G G D E V T E I R R V L L K E R L V
 UniRef90_W6L530 G A I A G A L T T L V G G F R C E A C W F I S D Q L K K G D D P K N E I T I C F K G R
 UniRef90_J4C2K2 G V I V G A L A Q L Q M K V Q C Y F V V K D M L K G G D D T Y E M T I K L E E V V
 UniRef90_D8M290 G I I R G A L E M V V H L A V D T V M F L Q D R L K K G D D V N A I R I R F L E Y L
 UniRef90_L0AXG6 G V I V G A L E M V V Q M K V Q C C N D V I Q D D T L K K G D D V N A I R I R F L E Y L
 UniRef90_A8J304 G V V R G A L E M V V N M E V E C C R W V S D M L R G G D D C Y E L R V K L K E H
 UniRef90_C1MS22 G V I V G A L E M V V Q M T R A T C C E W E K D A L R G G D D G N F A M R V T L V I G Y L
 UniRef90_D8PVM2 G V L R G A L E M V V Q M T R A T C C E W E K D A L R G G D D G N F A M R V T L V I G Y L
 UniRef90_I4YJW3 G C I R G C L E M V V N I S T T E V D F L S D E L L G Q D E S T A I K V K L I K Y L
 UniRef90_A0A059BME2 G V I R G A L E M V V S M K T E V T W V R D V L R G D D S Y E I R V K L L K Q R L
 UniRef90_T1H6K6 G C I R G C L E M V V S M K T E V T W V R D V L R G D D S Y E I R V K L L K Q R L
 UniRef90_A9VBF9 G V I R G A L E T I S F R S E V K F T Q D A L R G D P T T E I R V R L I E
 UniRef90_U6PX13 G A I R G G L E A L H F Y Q V D A T A V E N P T R G D P N T E I K I K F D Q L L
 UniRef90_S9WVY0 G V L K G A L A M V G G F V A E A S F V R D T L R G D P S N E I L L S F K G K
 UniRef90_G0U194 G V I A G A L S L G G F V A E A S F V R D T L R G D P S N E I L L S F K G K
 UniRef90_X2C459 G V I T G A L S L G G F V A E A S F V R D T L R G D P S N E I L L S F K G R
 UniRef90_A7AQG4 G V I T G A L S L G G F V A E A S F V R D T L R G D P S N E I L L S F K G R
 UniRef90_H3FD99 G A I R G G L E A V H I K D N F H G A S G T E
 UniRef90_UPI000333F9EA G I I R G A L E M V V H L A A D V T F L Q D D K L K G G H V T E I I G I T F L K Q
 UniRef90_R9AMQ2 G C I R G C L E M V V N M H T A D V T F L Q D D K L K G G H V T E I I G I T F L K Q
 UniRef90_K0KPH7 G V L K G A L E M V V Q L D V D V F F V S D V L R G D A T T E L R L K L N K I L
 UniRef90_A0A024VBZ2 G V I K G A L E M V V Q L D V D V F F V S D V L R G D A T T E L R L K L N K I L
 UniRef90_C0S0Q2 G V L K G A L E M V V Q M Q V E A H F V S D V L R G N E T T E M R V S L V R Y L
 UniRef90_UPI000333AE07 G I I R G A L E M V V Q M Q V E A H F V S D V L R G N E T T E M R V S L V R Y L
 UniRef90_A0DEI2 G A I R G A L S T I H W I A T C R F L K D Q L K N D D A K T L L Q V E M L R
 UniRef90_Q4D0P0 G V V V G A L G M V G F L A E A T F A R D M L R G D A T N E I L L C F K G R
 UniRef90_U3LNU8 G V V Q G A L W Q V G G L H S E A R F F V R D V L R G D A T N E I L L R F N G R
 UniRef90_C1H805 G V L R G A L E M V V Q M Q V E A H F V S D V L R G D A T N E I L L R F D V R Y L
 UniRef90_P34605 G A I R G A L E A V H F K V Y A S A T D T G A N T E I R I R F D V L
 UniRef90_D8U7N8 G V V R G A L E M V V N M D V E C R W L S D M L K G D D C Y E I R V K L K E H
 UniRef90_Q5A0J4 G V L R G A L E M V V Q M Q V E A H F V S D V L R G D D D R T F A I R L K L N R I L
 UniRef90_A4S1Q7 G A I R G A L E T V R V R T T C A F E S D P L R G E E R F A I R V K L L E
 UniRef90_UPI0004405A3C G T I R G T L E M V H L A A D V T F L Q D R L K K G D S V T E I G I T F L K K L
 UniRef90_C4YBG3 G V L R G A L E M V H L A A D V T F L Q D R L K K G D S V T E I G I T F L K K L
 UniRef90_E5SI08 G A I R G A L E M V H L A A D V T F L Q D R L K K G D S V T E I G I T F L K K L
 UniRef90_M5G950 G V L R G S L E M V Q L Q V E A I F L S D V L R G D E T T E I R V T L K R Y L
 UniRef90_E6R9W6 G V I R G A L E M I Q M Q V E T S F L S D Q L R G D D T T E I Y V K L V R I L
 UniRef90_A0A016VYZ0 G A I R G G L E A H F K V Y S S V I E N P T R G D P N T E I K V K F D Q L
 UniRef90_G7YEY9 G A I R G A L H N V Q L E V D A R F V Q D Q L R G D Q V N E I R V K F I R R I
 UniRef90_B7G9P1 G Y V R G M L E M L Q F D V D V T V T M A Q S V L R G D D Q V N E M R V D L N Q V L
 UniRef90_A5DQI8 G V L R G A L H M Q L D V D V W F T K D V L R G D D Q T E
 UniRef90_I718M3 G T I A G A L E Q I R M R V D C K F V R Y P I K K D Q K Y T I S I Q L Q E V I
 UniRef90_S9UAT1 G V I S G A L T L V S F Q T K V D Y V R D V L R G D S V T E I T L R F V K R
 UniRef90_UPI0003EBD804 G V I R G A L E M V H L A A D V T F L Q D R L K K G D S V T E I G I T F L K K L
 UniRef90_X6NME0 G V I R G S L E M V K Y Q V E C K I G D V L R G N S T T E M V T L I D L L
 UniRef90_B0EB79 G V L R G A L E M V Q M Q V E T H F I L S D V L R G N S T T E M V T L I D L L
 UniRef90_F7W5L9 G A I R G A L N S L L L I G K V Y M K S D Q L L G D E K T I R V E C K R
 UniRef90_Q229D2 G A I R G A L N S L L L I G K V Y M K S D Q L L G D E K T I R V E C K R
 UniRef90_D2DSN8 G I V Q G I L D S A D F P A R V T A H T V P V G A D T R T T L V K F
 UniRef90_L1JUW7 G V I R G A L E M V Q L Q V E A I F L S D Q L R G D D Q T E
 UniRef90_A0A059BWW0 G I V E A G A L D G L R G F N A R V V T A H N T P N Q F P S R T T I L I K L E K
 UniRef90_A8N279 G V I A G A M E M Q L I N V A R V Q F E S D V L L G D E T S V I S L E L L E V
 UniRef90_C5LHW2 G V I R G A L E M V L Q M A V E A K F V Q G T L K G D G V T E I Q M K F I R R I
 UniRef90_G5APA6 G V I R G A L D S A G F Q V E A H T V E V G N G Q P D K T V F L V K F
 UniRef90_T0QJM8 G V V E A I L D G C Q F P A R V T A H S H S T G N D T T I L I K F D K
 UniRef90_F4NUA2 G I V E A V L D G G L G F P A R V T A H S V P M P N L P H T I L I K L
 UniRef90_X8IVR3 G I I R G V L T S S G F P A R V T A H T V T P G R D K T V F L I K F D E R V
 UniRef90_K3XAK0 G I I E G I L C S A E F P A R V T A H N V A V E G K P K T V I L I K F N
 UniRef90_Q54YG5 G V V E A V L D G L G F P A R V T A H G T P T T Q H P C T T I L I K L E K
 UniRef90_K5Y697 G V L R G A L D S G G F Y C K V A H S V D L G G G E K T V F L V K F
 UniRef90_A0A024TWG2 G V I V E G F L T S A Q F P C K A T A H T V P L P S Y P S T V I L V K L
 UniRef90_B6K0U0 G I V R G I L T S S G F A S N V T A H T D N T Y G R R T V F L V K F
 UniRef90_A0A024GJ22 G V L R G A L E M V Q M Q V E A T F V S D V L R G D E I
 UniRef90_J0WPF2 G I V E A A L L D G L G F P A R V T A H S V P K E R G F P R T T I L I K L D R
 UniRef90_M5FZ56 G I V E A V L D G C Q F P A R V T A H T V P Q D G G P Q R T T I L I K L D K
 UniRef90_S2JN70 G V I K G V L D G A G F P A R V T F V A V E G Q A R P R T T I L I K F
 UniRef90_A9TS83 G V I A G V L D G A G F P A R V S A H N E M E K G R E K T V F L I K F
 UniRef90_D7FQV7 G V V R G V L E G A G F P A R V T A V K D Q A R P K T V I L M K F
 UniRef90_E1ZPW5 G I I E G A L D S A G F P A T V T A H S V P K E G L P R T V F L I K F D E S L
 UniRef90_G8YS93 G I I E G A C D G A G F P A R V T A H T V A A A G K Q K T V F L V K F
 UniRef90_L8FYS8 G I I E G A L D S A G F F A D V T A H T M P K E G S P R T V F L I K F
 UniRef90_G3AXG1 G V L R G A L E M V Q M Q V E A K F V Q D T L K G D G V T E I R M R F I R R I
 UniRef90_UPI0000203F26 G I V E A I L D G A Q F P S R V T A H T L P T A Q Y P H V T I L I K L
 UniRef90_UPI000455E0A9 G I V E A I L D G A Q F P S R V T A H T L P T A Q Y P H V T I L I K L
 UniRef90_U9U2P9 G I V K G V L E G A G F P A R V T A H Y V P M E G R P R T T I L I K F
 UniRef90_D8QZX8 G I V K G V L E G A G F P A R V T A H Y V P M E G R P R T T I L I K F
 UniRef90_I0YR72 G I V K G V L D G A G F R A R V T A H F V P V K G R P K T T I L M K F
 UniRef90_W7TEN4 G I I S G V L N G A S Y P A G V T A H H V A I R G D E K T V F L I K F
 UniRef90_M1CUB4 G V I R G A L E M V S M K T E V T W L R D M L R G D D A F E L Q L K L K Q V
 UniRef90_A5DI63 G I I E G A L D S A F F S A T V T A H S D P Q D G F P R T V F I K F
 UniRef90_G4NEY8 G V I E G V C D G A A F P A R V T A H T M G K P D E K T V F L V K F

UniRef90_UPI0003833CC6
UniRef90_E4WZM5
UniRef90_UPI00038E9BE4
UniRef90_C1FGH0
UniRef90_R1BH70
UniRef90_J9IDQ3
UniRef90_U1NF03
UniRef90_B8BZL3
UniRef90_R4FPN5
UniRef90_A0A022R045
UniRef90_F4K1U5
UniRef90_W4WAN7
UniRef90_W6L530
UniRef90_J4C2K2
UniRef90_D8M290
UniRef90_L0AXG6
UniRef90_A8J304
UniRef90_C1MS22
UniRef90_D8PVM2
UniRef90_I4YJW3
UniRef90_A0A059BME2
UniRef90_T1H6K6
UniRef90_A9VBF9
UniRef90_U6PX13
UniRef90_S9VY0
UniRef90_G0U194
UniRef90_X2C459
UniRef90_A7AQG4
UniRef90_H3FD99
UniRef90_UPI000333F9EA
UniRef90_R9AMQ2
UniRef90_K0KPH7
UniRef90_A0A024VBZ2
UniRef90_C0S0Q2
UniRef90_UPI000333AE07
UniRef90_A0DEI2
UniRef90_Q4D0P0
UniRef90_U3LNQ8
UniRef90_C1H805
UniRef90_P34605
UniRef90_D8U7N8
UniRef90_Q5A0J4
UniRef90_A4S1Q7
UniRef90_UPI0004405A3C
UniRef90_C4YBG3
UniRef90_E5SI08
UniRef90_M5G950
UniRef90_E6R9W6
UniRef90_A0A016VYZ0
UniRef90_G7Y9Y9
UniRef90_B7G9P1
UniRef90_A5DQI8
UniRef90_I7I8M3
UniRef90_S9UAT1
UniRef90_UPI0003EBD804
UniRef90_X6NME0
UniRef90_B0EB79
UniRef90_F7W5L9
UniRef90_Q229D2
UniRef90_D2DSN8
UniRef90_L1JUW7
UniRef90_A0A059BWV0
UniRef90_A8N279
UniRef90_C5LHW2
UniRef90_G5APA6
UniRef90_T0QJM8
UniRef90_F4NUA2
UniRef90_X8IVR3
UniRef90_K3XAK0
UniRef90_Q54YG5
UniRef90_K5Y697
UniRef90_A0A024TWG2
UniRef90_B6K0U0
UniRef90_A0A024GJ22
UniRef90_J0WPF2
UniRef90_M5FZ56
UniRef90_S2JN70
UniRef90_A9TS83
UniRef90_D7FQV7
UniRef90_E1ZPW5
UniRef90_G8YS93
UniRef90_L8FYS8
UniRef90_G3AXG1
UniRef90_UPI0000203F26
UniRef90_UPI000455E0A9
UniRef90_U9U2P9
UniRef90_D8QZX8
UniRef90_I0YR72
UniRef90_W7TEN4
UniRef90_M1CUB4
UniRef90_A5DI63
UniRef90_G4NEY8

UniRef90_C4Y011
UniRef90_G1WYZ0
UniRef90_M7PDJ0
UniRef90_K0KLU0
UniRef90_B5Y485
UniRef90_G4TBB1
UniRef90_A5E6K8
UniRef90_B9WN38
UniRef90_UPI000273922F
UniRef90_A2FQV8
UniRef90_J3NH19
UniRef90_I1CSC5
UniRef90_C1E3Y1
UniRef90_D5GMV6
UniRef90_F0YNA2
UniRef90_C3Z0P3
UniRef90_R7UIT4
UniRef90_Q6DFT9
UniRef90_V7D1T6
UniRef90_R4FKT2
UniRef90_D7ELH8
UniRef90_A0A059LR64
UniRef90_Q7K2Q8
UniRef90_E9HC76
UniRef90_G3AI8
UniRef90_C4WVR1
UniRef90_E0VWU3
UniRef90_C1C0R7
UniRef90_B8BSU9
UniRef90_F2QLW9
UniRef90_E9CC81
UniRef90_T1G2G3
UniRef90_G3MQN0
UniRef90_K8E9F7
UniRef90_UPI0003ADBABF
UniRef90_M7SMZ2
UniRef90_R4X8Z8
UniRef90_S3CGH7
UniRef90_A8J2W3
UniRef90_UPI00035A048D
UniRef90_A0A058Z615
UniRef90_F6ZPU3
UniRef90_S8BSY9
UniRef90_F0YI96
UniRef90_H9K7K1
UniRef90_UPI00022F5001
UniRef90_T1KX51
UniRef90_I2JTG5
UniRef90_H9JP27
UniRef90_U6NLV2
UniRef90_A5K0M4
UniRef90_B6ACU4
UniRef90_A0A023B351
UniRef90_A0A024J813
UniRef90_X6NU62
UniRef90_D8U7N6
UniRef90_UPI0002652CBF
UniRef90_E6R128
UniRef90_T2M9K9
UniRef90_N1RN93
UniRef90_A0A024VXG4
UniRef90_S8A8Q8
UniRef90_J9J7M7
UniRef90_I1FJ37
UniRef90_M3CN90
UniRef90_B3S2G2
UniRef90_Q6CFM1
UniRef90_Q9NA81
UniRef90_T1E110
UniRef90_W6MGL3
UniRef90_R9P268
UniRef90_W3VWP8
UniRef90_UPI0002658421
UniRef90_A8B8Z9
UniRef90_B9PH75
UniRef90_N1Q0J8
UniRef90_E1FZ82
UniRef90_R7Q1P4
UniRef90_UPI000389080C
UniRef90_K8EA30
UniRef90_U5GZ24
UniRef90_UPI00034F2EDD
UniRef90_J3Q1L0
UniRef90_F2U9W2
UniRef90_V5EZN4
UniRef90_Q013E9
UniRef90_G2X4J4
UniRef90_I4Y7D2
UniRef90_W1QG52
UniRef90_M7ZW59
UniRef90_M2VXT4
UniRef90_A2R437

1 10 20 30 40

```

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

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

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

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

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

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

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

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

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

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

```

UniRef90_C4Y011 Q R Y L E L V K L R E G M K R E T K I L V E I L Q F I H G P F W K A M F G K T A N D
UniRef90_G1WYZ0 Q R F L E L L L W R E G A K R E T R I L G I L Q F I S H Q L Y R A L F Q K Q Q A D
UniRef90_M7PDJ0 Q K L L E L L S W R E K Y K R E T R I L G I L Q F I F S N V W K A L F N K Q Q A D
UniRef90_KOKLU0 N K F L E L I T F R E G A K R E T R I V E V L Q F I S S Q V W K T L F G R P A D
UniRef90_B5Y485 L R V L E L L T F R T D Y T R E T S L M N M L Q F V S T T A W K S L F G K A A D
UniRef90_G4TBB1 L K M L E L H A W R T E P K R E T R F L T V L S T I G N V M W K A F F G R A M D
UniRef90_A5E6K8 Q R Y L E L L K L R E G S K R E T K V I L G I L Q F I H G P F W K T V F G K V A N
UniRef90_B9WN38 Q R Y L E L L C K I R E N S K R E T R I L E L L Q F I H G P F W K L I F G K T A N
UniRef90_UPI000273922F V R F K I L G I G Q I L I G T M T L E N S D V I A N V A S K M C L G I N A V
UniRef90_A2FQV8 N R I T D E F V V H A D K C R F K S L K E A C D M L A D Y S F K T Y L G I N A V
UniRef90_J3NH19 V K L L D L L L Y R E P A K R P L N I T A L L H L I Q R N V W T H L F G R Q A D
UniRef90_I1CSC5 M F L N I T P S
UniRef90_C1E3Y1 V R M L E I L S Y R E G N R R E L R L Q G I L Q F I N T N I W R C L F G K V A D
UniRef90_D5GMV6 Q R L L E L L L W R E G A K R E T R I L G I L Q F I T T T V Y R S I F N K P A D
UniRef90_F0YNA2 F R I L L E L L S H R E R Y K H E I Q I L V G A L Q F V S S T H C W K A L F G K V A D
UniRef90_C3Z0P3 F R I L D L L F L R E K N Y K R E I K I L V N M L L F V K T T V W K T L F G K E A D
UniRef90_R7UIT4 T R I V D L L M L R E G F R R E T V K L L N M L L F I K G N L W K N L F G K E A D
UniRef90_Q6DFT9 C R L L D P L V M R E N G K R E T K V I S A L L S F I K V V A W K A L F G K E A D
UniRef90_V7D1T6 A R V L E L L C H R M R D K V R R E T R L L G I L S F V H S T V W K V L F G K V A D
UniRef90_R4FKT2 I K L I D L L Y M R E N G K R E I K I L L N M L L F I R S T L W K G L F G K E A D
UniRef90_D7ELH8 V K L I D L L Y F L R E N G K R E I K I L L N L L F V K S T L W K A L F G R E A D
UniRef90_A0A059LR64 L R L L E L L V Y R E R S G R D L R L L D A L R F V H S T L W K Y L F G R A A Q
UniRef90_Q7K2Q8 T R I I D L L Y F V R E R S K R E T K L T Q M L L F V K T T V W K N L F G K E A E
UniRef90_E9HC76 I R M L D L L L V R E N G K R E I K I L Q L L F F I K S T V W K S L F G K E A D
UniRef90_G3AI8 Q R Y L E L L K L R D G I K R D L I D L L H F I H G S F W K T L F G K H A N
UniRef90_C4WVR1 T K L I D L L H F L R E N S K R E I K I L L N M L L F I K S T F W K S F F G R E A D
UniRef90_E0VWU3 T K F I D L L M V R E N Y K R E I K I L L N V L L F I K S T L W K N L F G Y E A D
UniRef90_C1C0R7 A R C L D L I L I R D S T K R E I K I L L N V L L T V K S T L W K A L F G R E A D
UniRef90_B8BSU9 L K V L E M V A Y R A E T K R E T R L M S L L H F V S S S V W K S L F G K A A D
UniRef90_F2QLW9 L K Y L E L L G L R E N A L N R D I K I T Q M L E F I H T T F W K A L F G K T A D
UniRef90_E9CC81 I R M F E L L N G R E N G A K R E T R I L N I L H F I N S V V W K T L F G K P A D
UniRef90_T1G2G3 Q R Y L D L I V L R E G H K R E T K L V N M L V F I K S N V W K N L F G K E A D
UniRef90_G3MQN0 Q R V L D L L F V R E N Y K R E T K L L N L L F V I K S T V W K T L F G K E A D
UniRef90_K8E9F7 R R V L E L L A Y R E K T R R E T R L N G I L T F I Q N N V W K N L F G R S A D
UniRef90_UPI0003ADBABF L K T F R Y F A L R S E R C I L D P L E L L T S V R D V A F K M Y L G I T P S
UniRef90_M7SMZ2 V K L L D L L L Y R E P A R R P L T I I A L L H L I K L N A W T H L F G R A A D
UniRef90_R4X8Z8 Q R C L E L L Y T R D N K K R E T R L L G I L Q W I Y T V L W K N L F G K T A D
UniRef90_S3CGH7 M K L D L L L Y R E P P R R P L T I I A L L H F V K I N I W T H L F G R Q A N
UniRef90_A8J2W3 V R V L E L L L S Y R E S L R R K T D V L D L R F I H G P A W Q Y L F G K T A D
UniRef90_UPI00035A048D S H L L D L L F L R E K G Y K R E I K L S M L I F I K S T F W K L V F G K E A D
UniRef90_A0A058Z615 L R L A D D F A S R T H L R R C A D F R E T A E I I S K V A F K M Y L G E S P A
UniRef90_F6ZPU3 S R L V D L L I V R E G N K R E I K V L N I L L F I K V Q L W K A L F G K E A D
UniRef90_S8BSY9 I V G F K M F L G V T A S
UniRef90_F0Y196 T R V I E L L S Y R D R I R R E L S I I G I L Q F I S T T C W K A L F G K P A D
UniRef90_H9K7K1 H R I T D L L V V R E G G K R E I K L L N I L L F I K S T V W K S L F G R E A D
UniRef90_UPI00022F5001 A F K M Y L G I T P S
UniRef90_T1KX51 Q R L V D L T F I R E N Y K R E T K I I N I L I F I K T N L W K T L F A K D A D
UniRef90_I2JTG5 M H E T A E V V S K I G F K I F L N I T P T
UniRef90_H9JLP2 T R L L D L Y F V R E N S K R E I K L L N M L L F I K S T L W K V L F G K E A D
UniRef90_U6NLV2 I R L L D V I T L R E G Y R R E T K L L G M L M F I K S C V W K N L F G K E A D
UniRef90_A5K0M4 Y K L N E Y L P Y K N K T K R C V N I I S I L T F L S K H L W K Y L F Q H S S D
UniRef90_B6ACU4 Y K V I E L V A I R E N Q K R E T K I L Q I L S F I S Q K C W K Y L F G H T S D
UniRef90_A0A023B351 I R L V E D F V S R S S L S V C Q S F K D T C E I I A K V A F K V Y L G V A E
UniRef90_A0A024J813 Q R L L E L L T T R D G A K R E T K V L G V L Q L I H S I T W R Q I F G K Q A D
UniRef90_X6NU62 I K Q L E L I T H R L R M K R E T N H V I S M L E F I T K D C W K H I F G R L A D
UniRef90_D8U7N6 I R L V D E F L A K A K I T R C S S F R D T A E V V A K Q A L P M F L N V S A S
UniRef90_UPI0002652CBF V R I L D L L F I R E G L K R E T K L L N I L L F I K S N V W K V L F G K E A D
UniRef90_E6R128 Q R I L P L L L L R N E P K R E H R L I P L Q F I H T Q V Y R Y C F G K A A D
UniRef90_T2M9K9 V R L I D T L S I R E G F R R E T R L L N V L M F I R S S L W K T L F G R E A D
UniRef90_N1RN93 L K L L D L L L F R E P A R R P L S I I A L L H F I K Q N I W Q H L L F G R Q A D
UniRef90_A0A024VXG4 K E C N F A R I N K N C L I N N E T V N V I A K V A F K M F L G I S G T
UniRef90_S8A8Q8 Q R F L E L I L W R D G A K R E T R I L G I L Q F I S H Q L Y R A L F Q K Q A D
UniRef90_J9J7M7 E K L L E L L F Y R E N G K R E T K L V N M L H F I N N V M W K Q L F G K P A D
UniRef90_I1FJ37 F R M I D L L C V R D R A K R E T R L V N I L W F I Q K T V W K T L F G K E A D
UniRef90_M3CN90 I K M L D L V L Y R L P A S R P T R M L D L L Q F I H G A L W R A L F N R S A D
UniRef90_B3S2G2 T R I L D L L Y L R E R G S K R E L R I L Q A L L F V K T T V W K S C F G R E A D
UniRef90_Q6CFM1 Q R A L E L V T I R E A T R R E N K I L L G I L E F V H T H V W K M V F G R A A D
UniRef90_Q9NA81 L R M F D I T L R E G Y K R E T K L L G M L M F I K S T V W K N L F G K E A D
UniRef90_T1E110 A R V L E L L C H R E N G N R R E T R I L G I L S F I H S T V W K V L F G K V A D
UniRef90_W6MGL3 I K Y L E L L S L R E N T K R E V R I L E I L Q F I N S S V W K G L F G K M A D
UniRef90_R9P268 Q R V L S L T L H R Q N P R R E T R L L P V L L W I H T G F W K A A F G K P A D
UniRef90_W3VWP8 Q R V L G M A M H R Q N P K R E T K L L P T L L W I H T A F W K A A F G K A A D
UniRef90_UPI0002658421 Q R V M D V I Q A V R E N Y K R E T K L Q M L I F I K G S V W K N L F G K E A D
UniRef90_A8B8Z9 Q R C V D E Y L A N S S S I C T K F H H T A T G V L G G L K M F L G C S G T
UniRef90_B9PH75 Y K I L D L L V Y R E R K R E I K I V L S L T F V I S T C V W R Y L F G H S G E
UniRef90_N1Q0J8 I K L L D L L Y R Q N A Q R P T R I L D L Q F I H G T L W R A L F N R P A D
UniRef90_E1FZ82 S R L L D V I V L R E G Y R R E V K L L N M L M F V K G T I W K N L F N K E A D
UniRef90_R7Q1P4 R R A L E L I L A R E K V R E T R L L N M L N F I A S T L W N F Y L G K Q A D
UniRef90_UPI000389080C M Y L G V T P S
UniRef90_K8EA30 N R L I E E Y L A K N A A D S C K T F R E V M E N V A F V G F R M F L N A R C R
UniRef90_U5GZ24 V R L L E L L P L R D H L S R T L R L L P I L T Y V H S I V Y R Y L E N R P A D
UniRef90_UPI00034F2EDD A F K M Y L G I T P T
UniRef90_J3Q1L0 T R L I E D L L A R S S L P R C S D F R E V G E V V S K V A F K M F L G Y S P H
UniRef90_F2U9W2 V R L V E V M A M R D D R S R R R I K I H D V L A F L Q T N L W R T L F G K P A D
UniRef90_V5EZN4 Q R L L G L T L H R Q N P K R E T R L L P T L L W V H T S F W K A F G K S A D
UniRef90_Q013E9 R R A F E A Q A F R E R G K R D H R L L P L L Q F T Q S V V W K N V F G R A A D
UniRef90_G2X4J4 L K L L D L L L H R E P P R P L N I I T L L H F I K Q N L W Q H L L F G R Q A D
UniRef90_I4Y7D2 Q R E L E L L Y K F R Q N P R Q H T S L I E V L Q F I H T H I W R S L F G K T A D
UniRef90_W1QG52 T K V L E L A S L R E N S K R E I K V L E I L H F I T S V I W P S L F E K P A D
UniRef90_M7ZW59 A R V L E L L C H R E K V A D
UniRef90_M2VXT4 Q R A L E L L C F R E K L R R E I R L V S I L G F I R V Q L W K F L F K K S A D
UniRef90_A2R437 I R I L D L L F Y R T P P N R P L R I L P L L H L I H G P L W R L L F N R P A D

	90	100	110	120
UniRef90_C4Y011	E	L	E	K
UniRef90_G1WYZ0	L	L	E	K
UniRef90_M7PDJ0	L	L	E	K
UniRef90_K0KLU0	A	G	L	E
UniRef90_B5Y485	S	L	E	R
UniRef90_G4TBB1	A	L	E	K
UniRef90_A5E6K8	E	L	E	K
UniRef90_B9WN38	E	L	E	K
UniRef90_UPI000273922F	T	N	C	S
UniRef90_A2FQV8	V	K	E	P
UniRef90_J3NH19	R	L	E	R
UniRef90_I1CSC5	V	T	N	W
UniRef90_C1E3Y1	S	L	E	V
UniRef90_D5GMV6	S	L	E	K
UniRef90_F0YNA2	S	L	E	R
UniRef90_C3Z0P3	K	L	E	H
UniRef90_R7UIT4	K	L	E	H
UniRef90_Q6DFT9	K	L	E	Q
UniRef90_V7D1T6	S	L	E	K
UniRef90_R4FKT2	K	L	E	H
UniRef90_D7ELH8	K	L	E	H
UniRef90_A0A059LR64	D	L	E	Q
UniRef90_Q7K2Q8	K	L	E	H
UniRef90_E9HC76	K	L	E	H
UniRef90_G3AI8	E	L	E	K
UniRef90_C4WVR1	K	L	E	H
UniRef90_E0VWU3	K	L	E	L
UniRef90_C1C0R7	K	L	E	L
UniRef90_B8BSU9	S	L	E	R
UniRef90_F2QLW9	N	L	E	R
UniRef90_E9CC81	L	L	E	K
UniRef90_T1G2G3	K	L	E	H
UniRef90_G3MQN0	S	L	E	Q
UniRef90_K8E9F7	S	L	E	Y
UniRef90_UPI0003ADBABF	V	T	C	N
UniRef90_M7SMZ2	G	L	E	R
UniRef90_R4X8Z8	T	L	E	K
UniRef90_S3CGH7	G	L	E	K
UniRef90_A8J2W3	D	L	Q	Q
UniRef90_UPI00035A048D	K	L	E	Q
UniRef90_A0A058Z615	I	T	D	F
UniRef90_F6ZPU3	K	L	E	Q
UniRef90_S8BSY9	V	T	N	W
UniRef90_F0YI96	S	L	E	R
UniRef90_H9K7K1	K	L	E	H
UniRef90_UPI00022F5001	V	V	C	H
UniRef90_T1KX51	K	L	E	H
UniRef90_I2JTG5	V	S	H	W
UniRef90_H9JP27	K	L	E	H
UniRef90_U6N1V2	K	L	E	R
UniRef90_A5K0M4	L	L	K	S
UniRef90_B6ACU4	L	L	K	G
UniRef90_A0A023B351	V	R	Q	A
UniRef90_A0A024J813	G	L	E	K
UniRef90_X6NU62	G	L	E	Q
UniRef90_D8U7N6	V	A	N	W
UniRef90_UPI0002652CBF	K	L	E	H
UniRef90_E6R128	G	L	E	R
UniRef90_T2M9K9	K	L	E	H
UniRef90_N1RN93	R	L	E	K
UniRef90_A0A024VXG4	V	T	C	V
UniRef90_S8A8Q8	T	L	E	K
UniRef90_J9J7M7	G	L	E	Q
UniRef90_I1FJ37	R	L	E	Q
UniRef90_M3CN90	A	L	E	Q
UniRef90_B3S2G2	K	L	E	L
UniRef90_Q6CFM1	G	L	E	R
UniRef90_Q9NA81	K	L	E	R
UniRef90_T1E110	S	L	E	K
UniRef90_W6MGL3	K	L	E	K
UniRef90_R9P268	S	L	E	R
UniRef90_W3VWP8	S	L	E	R
UniRef90_UPI0002658421	K	L	E	Q
UniRef90_A8B8Z9	I	T	G	C
UniRef90_B9PH75	L	L	K	A
UniRef90_N1Q0J8	A	L	E	Q
UniRef90_E1FZ82	K	L	E	R
UniRef90_R7Q1P4	C	L	K	K
UniRef90_UPI000389080C	V	S	C	S
UniRef90_K8EA30	L	V	D	W
UniRef90_U5GZ24	S	L	E	R
UniRef90_UPI00034F2EDD	M	I	G	G
UniRef90_J3Q1L0	V	S	H	N
UniRef90_F2U9W2	L	L	E	Q
UniRef90_V5EZN4	S	L	E	R
UniRef90_Q013E9	S	L	E	V
UniRef90_G2X4J4	R	L	E	K
UniRef90_I4Y7D2	S	L	E	K
UniRef90_W1QG52	N	L	E	K
UniRef90_M7ZW59	S	L	E	K
UniRef90_M2VXT4	Y	L	L	K
UniRef90_A2R437	A	L	E	H

UniRef90_C4Y011 G I I E G A L D S S G F N A S V S A H A P V A T L V S R T V F L I K F D E R L

UniRef90_G1WYZ0 G I I E A V L D D G S G F P A K V T A H A S V P T Q G F P R T V I L I K I N E

UniRef90_M7PDJ0 G I V E A I M D D S Q F P S K V T A H S V P T Q G F P R T V I L I K I N E

UniRef90_K0KLU0 G I I E E G L D S S A Y F Q A N V T S A H T M A A D G Y P R T V F L I K F

UniRef90_B5Y485 G M I G G M L D D G A G F P A R V T A H S V A L

UniRef90_G4TBB1 G V V E A L D D G L G F P A R V T A H N S V P T E A N P C T T I L I K L D R

UniRef90_A5E6K8 G I I E G A L D S S G F S A N V T A H N S G T E A N P R T V F L I K F H E Q V

UniRef90_B9WN38 G I I E G A L D N S S G F G A D V T A H T N P L R T V F L V K F

UniRef90_UPI000273922F S A I R G T L K M V Q M A V G V K F F Q N M L K G D G V T E I R M R E I R

UniRef90_A2FQV8 S A I K T S L G L L H Y N V E V N L I S D M L H G K Q S N D I E L K L I E I M

UniRef90_J3NH19 G V I E G T C D G A G F P A R V T A H

UniRef90_I1CSC5 G V L R G A L E M V Q M V E A Q F L S D A L R G D E A T E M R V K L V R Y L

UniRef90_C1E3Y1 G I I K G V L D I A G F P A E V T S A Y Y A P V E G H P R T N F M K F

UniRef90_D5GMV6 G I I E A V L D G C L F P G R V T A H S V P T Q L P A K T V F L I K F

UniRef90_F0YNA2 G V A S G I L D G A G F S A R V T A L S S A E D S G D K T V F L I K F

UniRef90_C3Z0P3 G I V E A V L N G C G F P A K V T A H W H R G T T Y M I K F

UniRef90_R7UIT4 G I I E A V L N G C N F P A K V T A H W H K G T T F M I K F

UniRef90_Q6DFT9 G I V E S L L T C S G F P A K V T A H W H K G T T L M I K F

UniRef90_V7D1T6 G I V R G V L D G A G F P A V V T A H F V P M E G R P R T T I L I K F

UniRef90_R4FKT2 G I I E A V L N A A G F T A K V T A H

UniRef90_D7ELH8 G I I E A V L T G T G F T A K V T A H W H K G T T Y M V K F

UniRef90_A0A059LR64 G I V G G V L D G A G F P V T A H Y V P V P G Q A R Q K T T L L I K

UniRef90_Q7K2Q8 G I V E A V L T N C G F P C K V T A H W H K G T T Y M V K F

UniRef90_E9HC76 G I I E G L N T S N F P A K V T A H W H K G T T Y M I K F

UniRef90_G3A1I8 G I I E G A L D S A G F Y N V N T A H S V P M D G F P R T V F L M K F

UniRef90_C4WVR1 G I I E G T L N S S G F N A K V T A H W H K G T T Y M V K F

UniRef90_E0VWU3 G I I E A V L C G S G F P A K V T A G H W H K G T T Y M I K F D E Q V

UniRef90_C1C0R7 G I I E A V L D G S G N F P A K V S A H W H K G T T F M V K F

UniRef90_B8BSU9 G I I A G V L D G A G F T A R V T A H S

UniRef90_F2QLW9 G I I E G M L D S A Y F Q A D V S A H T V E T K E N P R T V F L I Q F

UniRef90_E9CC81 G V V E A I L E G A M F P A R V T S A H T T E N G T T L I E F

UniRef90_T1G2G3 G I I E A I L T T S N F P A K V T A H W H E G T A F R I N F

UniRef90_G3MQN0 G I I E A I L T G C N F P A K V T A H W Y K G T T F M M K F

UniRef90_K8E9F7 G V V K G C L E S A G F D A Q V S A Y D A P T A D D

UniRef90_UPI0003ADBABF G I I R G A L E M V H L A A D V T F L Q D T L K G D R V T E I G I T F L K K L

UniRef90_M7SMZ2 G I V E G L C D G A A F P A R V T A H T V I G E G D G R T V F L V K F

UniRef90_R4X8Z8 G I I E G

UniRef90_S3CGH7 G L V E G V C D D G S G F P A R V T A H

UniRef90_A8J2W3 G M M R G M L D S A G F P V T A H F V S H K D R P R P L T T F M I K L

UniRef90_UPI00035A048D G I V E A V L N G A N F P A K V T V H W H K G T T F M I K F

UniRef90_A0A058Z615 G V I R G A L F A L G L E V I T S T P R C L W G D S I S E I R V V L V R K I

UniRef90_F6ZPU3 G I V E A V L N F S N F P C K V T A H W H K G T T L M I K F

UniRef90_S8BSY9 G V I K G A L E M V S M K T E V T W L R D M L R G D D V F E L Q V K L L K Q V

UniRef90_F0Y196 G I T A G T L D A N F

UniRef90_H9K7K1 G I V E A I L C D C G F Q A K V T A H W H K G T T Y M V K F

UniRef90_UPI00022F5001 G V I R G A L E M V H L A A D V T F L Q D R L K G D S V T I G I T F L K K L

UniRef90_T1KX51 G I I E A A L N E T H G F N A K V T V H W H K G T T F M I K F

UniRef90_I2JTG5 G V L K G C L E M V Q L D C D V S F L Q D S L K G D E N T E I X V K L N K I L

UniRef90_H9JP27 G I I E A V L T R S G F P A K V T A H W H K G T T Y M V K F

UniRef90_U6NLV2 G I I Q S M L E V S N F P C Q V S A H

UniRef90_A5K0M4 G I V E G M L C S A E F Q A E V T A H T V Y E D E K T T I E I K F

UniRef90_B6ACU4 G V V Q G I L E S A E F P A N V S A H E D S P N N Y S T T I L I K F

UniRef90_A0A023B351 G V I Q S A L E Q L C L R T

UniRef90_A0A024J813 G I I E A L D G Y Q F T A N V T A H T V P L R T V F L V K F

UniRef90_X6NU62 G I I H G M L E S A G F K A N V

UniRef90_D8U7N6 R E G A W G Y G V V N M D V E C R W L S D M L K G D D C Y E L R E K L K E H

UniRef90_UPI0002652CBF G I I E A I L N G C N F

UniRef90_E6R128 G I V E G V L D G L Q V P A R V T A H T V P T D A P Q R T V I L I K L D Q K V

UniRef90_T2M9K9 G I I E G I F N G C G F P A T V T V H W H K G T T F L I K F

UniRef90_N1RN93 G I V E G V C D Q A D F P A R V T A H T V A E G D G K T V F L V K F

UniRef90_A0A024VXG4 G I V I K G A L E Q G I R F K V N C Y F V K D M L K G D D Y Y E L Y I Q L N E V M

UniRef90_S8A8Q8 G I I E A V L D G H C F P A K V T A H T D M W P G R T V F L I K F

UniRef90_J9J7M7 G L I E G V L S S C R M Y P C K V T A H S D N A E G N S T T L Y V I K F N K

UniRef90_I1FJ37 G T V E A F L C G V Q F P C R V F L V K E Q T T T A F E I T F

UniRef90_M3CN90 G I I E G V C D A A G F R T E G V T A H W A G E G D E K T I F L L R F K E

UniRef90_B3S2G2 G I I E A V L N G L N F P C N V T V H W H K G T T Y M I K F

UniRef90_Q6CFM1 G I I E A V L N G A K F P A K V H T V E D P L R T V F L I K F

UniRef90_Q9NA81 G I V E A I L E S A S F K C K V T A H

UniRef90_T1E110 G I V R G V

UniRef90_W6MGL3 G I V E G I L D S A Y F Q A N V S A H S

UniRef90_R9P268 G M V E A A L D G L G F A A R V T A H S V G T K E W P R T T I L I K L D R

UniRef90_W3VWP8 G M V E A A L D G L G F P A R V T A H T V T P Q Y P Q R T T I L I K L

UniRef90_UPI0002658421 G I V E A I M V G A N F P C K V T A C S H N G T T F I I K L N

UniRef90_A8B8Z9 G A I R G A L S L I G Y N V T V E L I

UniRef90_B9PH75 G I I E G I L C S A E F P A A V H T V E D T P N S K S T T F L I K F L

UniRef90_N1Q0J8 G I I E G I C D A A A F S T E

UniRef90_E1FZ82 G I I E A V L E A S N F S C K V S A H W H D G T T Y I I Q F D R H V

UniRef90_R7Q1P4 G I I N G V L D S A G F P A E V T

UniRef90_UPI000389080C G V I R G A L E M V H L A A E V T F V Q D R L K G D D V T E I G I T F L K K L

UniRef90_K8EA30 G V V E G A L E S V N V R V K V H F V K D G L R S D

UniRef90_U5GZ24 G I I E A V L D G A G F P S R V T A H S V P T L A H P K T V I L I K L

UniRef90_UPI00034F2EDD G I I R G A L E M I H L P A D V T F L Q D R L R G D D V T E I G I T F L R K

UniRef90_J3Q1L0 G V I R G A L E M V

UniRef90_F2U9W2 G L V E A A V D G M G F P A E V T A A H T V E G K G T T L L I K F

UniRef90_V5EZN4 G M V E A A L D G L G F P A R V T A H T V T A Q F P N R T T I L I K L D K

UniRef90_Q013E9 G V V R G I L C S A G F P A K V T A Y S E A G G D E T T N I L M K F E K

UniRef90_G2X4J4 G I V E G A C D G A G F P A R V T A H S

UniRef90_I4Y7D2 G I V E S A V L D G L N F K S K V T A H S V P T E Q Y P Q T T I L I K L I

UniRef90_W1QG52 G I V E G I L D S T F F K C E V S A H T V P V D G

UniRef90_M7ZW59 G I I G V L D N A G F P A V V T A H F V P I E G R P R T T I L I K F A E E L

UniRef90_M2VXT4 G I I R G A L D S A G F T A S V S A H

UniRef90_A2R437 G I I E G V C D G C G F E A K V T A H

UniRef90_C4Y011
UniRef90_G1WYZ0
UniRef90_M7PDJ0
UniRef90_K0KLU0
UniRef90_B5Y485
UniRef90_G4TBB1
UniRef90_A5E6K8
UniRef90_B9WN38
UniRef90_UPI000273922F
UniRef90_A2FQV8
UniRef90_J3NH19
UniRef90_I1CSC5
UniRef90_C1E3Y1
UniRef90_D5GMV6
UniRef90_F0YNA2
UniRef90_C3Z0P3
UniRef90_R7UIT4
UniRef90_Q6DFT9
UniRef90_V7D1T6
UniRef90_R4FKT2
UniRef90_D7ELH8
UniRef90_A0A059LR64
UniRef90_Q7K2Q8
UniRef90_E9HC76
UniRef90_G3AII8
UniRef90_C4WVR1
UniRef90_E0VWU3
UniRef90_C1C0R7
UniRef90_B8BSU9
UniRef90_F2QLW9
UniRef90_E9CC81
UniRef90_T1G2G3
UniRef90_G3MQN0
UniRef90_K8E9F7
UniRef90_UPI0003ADBABF
UniRef90_M7SMZ2
UniRef90_R4X8Z8
UniRef90_S3CGH7
UniRef90_A8J2W3
UniRef90_UPI00035A048D
UniRef90_A0A058Z615
UniRef90_F6ZPU3
UniRef90_S8BSY9
UniRef90_F0YI96
UniRef90_H9K7K1
UniRef90_UPI00022F5001
UniRef90_T1KX51
UniRef90_I2JTG5
UniRef90_H9JP27
UniRef90_U6NLV2
UniRef90_A5K0M4
UniRef90_B6ACU4
UniRef90_A0A023B351
UniRef90_A0A024J8I3
UniRef90_X6NU62
UniRef90_D8U7N6
UniRef90_UPI0002652CBF
UniRef90_E6R128
UniRef90_T2M9K9
UniRef90_N1RN93
UniRef90_A0A024VXG4
UniRef90_S8A8Q8
UniRef90_J9J7M7
UniRef90_I1FJ37
UniRef90_M3CN90
UniRef90_B3S2G2
UniRef90_Q6CFM1
UniRef90_Q9NA81
UniRef90_T1E1I0
UniRef90_W6MGL3
UniRef90_R9P268
UniRef90_W3VWP8
UniRef90_UPI0002658421
UniRef90_A8B8Z9
UniRef90_B9PH75
UniRef90_N1Q0J8
UniRef90_E1FZ82
UniRef90_R7Q1P4
UniRef90_UPI000389080C
UniRef90_K8EA30
UniRef90_U5GZ24
UniRef90_UPI00034F2EDD
UniRef90_J3Q1L0
UniRef90_F2U9W2
UniRef90_V5EZN4
UniRef90_Q013E9
UniRef90_G2X4J4
UniRef90_I4Y7D2
UniRef90_W1QG52
UniRef90_M7ZW59
UniRef90_M2VXT4
UniRef90_A2R437

1 10 20 30 40

UniRef90_Q0UDG6 N A E L F A Y L F L E M I A Y A Q K G A K D V G D L E Q R L N Q Q G Y P I G G
UniRef90_B6HM03 N A E L F A F L F G E M V T Y A Q R R V T G I Q D L E K R L N E Q G Y P L G G
UniRef90_UPI00045603B3 E I N K L A S L H F L V A E A V A Y T Q A R R V N G I Q D L E K R L N E Q G Y P L G G
UniRef90_UPI000328F2B1 K I N K D L F V L T Y G A L V A Q L C K D Y E K D E D V N K Y L D K M G Y G I V G
UniRef90_L8HI86 V S L S A Y A Y L F S E L V Q Y A Q T K V T N I S K A E E R L L W E V G Y Q V V G
UniRef90_E4XK01 E Y S L S L Y T L L F A E M V R Y C Q D R A N S I L D D A E L A D M L A E M G K Q D V G
UniRef90_M1VMR7 S V F A L L F A E T I S Y F Q N R R V D S I A E L E E R L L D L G L G Q Q I V G
UniRef90_B7Q0S6 V G S V V H R L S E L G F H V G
UniRef90_L8X7T3 F L F S A I I S Y S Q N R V T G I A E F E R K L S A L G Y R V I V G
UniRef90_G7E7R5 N A E S F A Y L F A E M V T Y A Q R R V T G V Q D L E R L L N E Q G Y P L G G
UniRef90_C5PDC0 Q V S L S A F T F L F Q E M V A Q Q R D S S K T V V E I E G K L L N A L G Y T I V G
UniRef90_G8JU67 V S L S A Y S F L F Q S M V S Y E R E S S K N V H D I E R K L N S S G Y T I G G
UniRef90_D2DSN9 R V S L A A L A F L F S E I V K M A N E A G G S I E K I E Q R L L F E V G Y S V V G
UniRef90_A0A058Z986 E V S N S A W A F L F A E L I S Y S Q S R V D S V T D I E R R L L A S L G Y E A G G
UniRef90_UPI0003F4929C Q V S L S A Y S F L F Q S M V S Y E R E S S K N V H D I E R K L N S L G Y K I G G
UniRef90_W0T6I5 Q V S L S A Y A F L F Q S I V S Y H R D S S K N V Q E L E R K L L N S S G Y T I G G
UniRef90_Q6CPP3 N A E L F A Y L F M E M V S Y A H R R V Q G S V A E F E K R L L N S S G Y P L G G
UniRef90_W9Y4T6 Q V S L S T F A H L F N T I T Y H H T R S G V A E I E T R L L N R A G Y P L G G
UniRef90_W9Y4T6 E L S R A A F A Y L F V E M I S Y A Q K R V T G I A D L E K R L N T Q G Y P L L
UniRef90_R7Z7K9 N A E L F A Y L F S E M V V Y A Q R R V T G I Q D L E R R L N E Q G Y P S S
UniRef90_C1GHY0 I F A E Y F H S I S R Y I C K H G N D Y D E M N S K M E Q L G V S V V G
UniRef90_U6GBP9 K V S L S A F A L L F S E L V Q Y H C Q S C V F L V A E L Q V H L A A L G R Q V V G
UniRef90_A0CBH6 K V S L S A Y C F L F S E M V Q Y C M Y T A T R D S S F T Q R L L H G L G V D I G
UniRef90_H0XQ40 E V S E P A F S F L F A E I V Q Y C Q S R V N D V N E L H E K L L L G L G M P I G G
UniRef90_A7AUJ6 V N L V A F E L L F A E I V R Y T Q R R V D G I G E F E K K L N I L G M Q V V G
UniRef90_D2VF11 Q V S L S A F A F L F S E L V Q Y N Q G K H V L I E L S S R L L E E A G F G V V G
UniRef90_E3L3N3 A F E F L F S E I I R Y T Q S R V D G I Q E F E K K L L T L G Y H I G
UniRef90_L2FX05 M N G S I P S I I L G A V L Q Q T V A N L Q D V Q E I N Q Q L T I M G E G L G G
UniRef90_A9TMK6 K V S L S A Y S F L F S E I V Q Y S L T N S S K D L P F T Q I L S G M G V E I G
UniRef90_F4RQH4 E N A E L S K Y I F S E M V V Y A Q R R V T G I Q D L E R R L N E Q G Y P T T
UniRef90_UPI0003C14DEE V S L S A M T F L Y Q E M I S N I H N D C K D I N E F E T R L L S K M G Y P I G
UniRef90_V6LGK2 Y A L L F S E I V Q Y C H Q K S E S S E Q Q L A D M G Y N I G
UniRef90_Q4N4M8 E V S H S A L Q F L F A E M V I Y A Q G R V S G I S E F E Q L L G S M G R Q V G
UniRef90_G5E2V9 N A E L F A F L F M E M V I Y A Q N R V K G I Q E L E K R L N E Q G H P L G
UniRef90_F2Q084 Q F T S L F Y G A I V S Q L E D V Q D P V I E T T K I L H K L G Q Q M G
UniRef90_Q6FMM4 V N L V A F E L L F A E I V R Y T Q Q R V D G I G E F E K R P N A I S L S T G
UniRef90_A2DKK6 E V S L S T F G F L F S S I I Q Y H S S K K R N V E D E L L K S M G E G I G
UniRef90_A8Q0L7 N L S A M A F L Y Q E I I S D I H N D C K D I N E F E T R L L A Q L G H N I G
UniRef90_E3K959 N A E S F A F L F G E M V T Y A Q R R V T G I Q D L E R R L N E Q G Y P L G G
UniRef90_U1HTW2 Q V N I A P F A Y L F V E M V R Y S M R N V P N M D C V Q R R L A E F G R H V G
UniRef90_V6LGG3 E I S S S S V H Y M F G S I L Q Y C M A S S N P M E K Q Y E I G H R I G
UniRef90_B8PC92 E L S R S T F A F L I G E S I A Y H H R R I K S I A D F E A R L N S Q G Y L L G
UniRef90_J3QDE2 E N A E L F A Y L F M E M V S Y A Q R R V K G I Q D F E K R L N E Q G Y P L G G
UniRef90_A5BKF7 E V S L S A F A L L F S E L V Q Y H C Q N R V S Q S A F A F L F S E M I Q Y S Q T R V N T A D E L I A K L E D A G V G V G
UniRef90_I7LU45 E N I N I S T F A L L F S E M V Q Y C Q N R V S V P E L Q S K L S D L G Q H V G
UniRef90_A7WPH9 S V E F S A L V Y G S F V A S L L E M T E D V E E V N K K L D E I G Y R I G
UniRef90_Q5AY05 V S L S A F S F L F S E M C S R A F T R V R N L E E V E S R L T S L G V H V G
UniRef90_G7YIU1 E V S E S A F S F L F C E F V Q Y F Q G R V L N I S D L E R K L E A A G Y G V G
UniRef90_UPI000252AD61 F M Y L F S E I V K Y A M Q T S K N L D D A Q S K L A S F G A P I G
UniRef90_A0A023BA01 E V S Q A S V A H L F S E M V C Y A V R R Q G P D N E I E S K L H K M G A S M G
UniRef90_J3Q022 K V S L S A F S F L F S E M C T R A H N K A S N V E E I E Q R L T S L G V L V G
UniRef90_W2S9Z8 E V N I A S F A Y L F V I E L V K Y S M R N V S S M D L V Q K R L S D F G K F I G
UniRef90_H6BMZ9 E V S V S A L A L L F S E M V Q Y C Q S R V Y S V S E L Q Q R L A D M G Y S V G
UniRef90_UPI0003C8D77A Q I N L S T F A L L F S E M V Q Y S Q N R V Y S V P E L Q T K L S D L G Q H V G
UniRef90_R1FRH7 E V S L S A M A F L F Q E M I S Q L H R T C K S T S D F E T K L S D Y G H N I G
UniRef90_U6KYV3 M T Q Y C Q N R V F T V P E L Q T K L S D L G Q H V G
UniRef90_W4YK81 E I N L A T F A L L F S E V V R Y S Q S R V T T I S E L Q T K L A S Y G K I V G
UniRef90_A2DFH3 V S L S A F S F L F S E T D L C T R V Q N V E E V E A R L T Q L G V H V G
UniRef90_W6KML9 Q V A L S A F S F L F S E L C A Y T F T K V K N V E E V E A R L T S L G A H V G
UniRef90_W4G323 E L S Q A S F A Y L F G E M V T Y A Q R R V K G I Q E L E Q R L N L Q G Y P I G
UniRef90_Q0CWEO E V S Q S T F A V L Y S E I R Y A M K H S S K N V D D A Q A K L A A F G A P I G
UniRef90_U6HGG7 Q V N Q S T F A V L Y S E I R Y A M K H S S K N V D D A Q A K L A A F G A P I G
UniRef90_C5LZX1 K V S L S A F S F L F S E I R Y A M K H S S K N V D D A Q A K L A A F G A P I G
UniRef90_Q4D2W2 E V N I A S F A Y L F V I E L V K Y S M R N V S S M D L V Q K R L S D F G K F I G
UniRef90_G4M1E3 E V S V S A L A L L F S E M V Q Y C Q S R V Y S V S E L Q Q R L A D M G Y S V G
UniRef90_T1K5T1 Q I N L S T F A L L F S E M V Q Y S Q N R V Y S V P E L Q T K L S D L G Q H V G
UniRef90_B5XBX6 E V S L S A M A F L F Q E M I S Q L H R T C K S T S D F E T K L S D Y G H N I G
UniRef90_R7V4D7 M T Q Y C Q N R V F T V P E L Q T K L S D L G Q H V G
UniRef90_GOR1L6 E I N L A T F A L L F S E V V R Y S Q S R V T T I S E L Q T K L A S Y G K I V G
UniRef90_J8LJF6 V S L S A F S F L F S E T D L C T R V Q N V E E V E A R L T Q L G V H V G
UniRef90_A7TA84 Q V A L S A F S F L F S E L C A Y T F T K V K N V E E V E A R L T S L G A H V G
UniRef90_A0A016SCV3 E L S Q A S F A Y L F G E M V T Y A Q R R V K G I Q E L E Q R L N L Q G Y P I G
UniRef90_E5SKP2 E V S Q A S F A Y L F G E M V K Y A M H S S K N V D D A Q A K L A A F G A P I G
UniRef90_S9VJW7 Q V N Q S T F A V L Y S E I R Y A M K H S S K N V D A E L H D R L A A Y G K F V G
UniRef90_E9BSK8 K V S L S A F S F L F S E I R Y A M K H S S K N V D A E L H D R L A A Y G K F V G
UniRef90_Q7RE91 E V A L S S L S F L F S E I V S Y T Q N R V T G V T D L E K R L S L I G Y T M G
UniRef90_T5ALA2 E N I E V I E R R L T Q L G V I V G
UniRef90_U6IKF0 E V S L S G F S F L F A E Y V R Q F R K D N K T I T E F H E K L F D L G F N I G
UniRef90_H3FNI7 E V S L S S L I F V F N E L V Q Y C L T T C T S G V Q V E Q R L H D I L G L S L G
UniRef90_C9ZZ12
UniRef90_UPI00039928B8
UniRef90_I2FTV8
UniRef90_C5DT91
UniRef90_C5DM27
UniRef90_M0QZQ8
UniRef90_L8WYL9
UniRef90_W5B2S4
UniRef90_Q03337
UniRef90_G0UUN3
UniRef90_B0EPY8
UniRef90_I7IQV6
UniRef90_G8BSU5

UniRef90_Q0UDG6 L R L L D L L L S 50 R S S N P R P T R I L L P L L Q F I A Q Q V Y R H L F G R P A D
UniRef90_B6HM03 L R L L D L L F Y R S P P N R P L R I I T L L H L I H G P L W R L L F G R A A D
UniRef90_UPI00045603B3 Q R L L P L T L H R Q N P P K R E T R L L P T L L W L H G A F W K A L F G R Q A D
UniRef90_UPI000328F2B1 T R L V E D F L A R S H V P R R C H S
UniRef90_L8HI86 L R M L E L L Q S F R E K V K R E L E I V G I L G F I S V N V W K A L F G E R A D
UniRef90_E4XK01 W R S I D L L Y H R E K K K R D N K I L D L L F L K K T L W T K L F G K E A D
UniRef90_M1VMR7 R R V L E L V W L R E K T R R E I D V L G A L R F T T T T V W R F L F G K E A D
UniRef90_B7Q0S6 Q R I L L D L L H V R E N Y K R E T K L L N L L L F I K T S V W K T L F G K E A D
UniRef90_L8X7T3
UniRef90_G7E7R5 A R L A E L L P L R E S L P R Q T R I L L P L L L Y I H T Q V Y K Y L F G A P A T
UniRef90_C5PDC0 L R L L D L L L Y R T L T T R P L R I I S L L Q L I H G P L W R L L F S R P A D
UniRef90_G8JU67 L R L L E L L N F R E S V K R P L K I L L D I L Q Y I H S N L W K Y L F D K P A D
UniRef90_D2DSN9 T R M V E L L F V R E N Y K R E T K L L S I L Q Q F V K G T L W K S L F G K E A D
UniRef90_A0A058Z986 I R A V E L Y I R G S G L G R S T T I V E I L Q I I Q T V L F P M L Y G T R L G
UniRef90_UPI0003F4929C Q R I L S L L L L R N D S P K R E H R L I P L L Q F V H T Q V Y K Y L F G K P A D
UniRef90_W0T6I5 M R L T E L L N F R D S V P N R H L K I L E T L Q Y I H L T V W Q Y L F S R P S N
UniRef90_Q6CPP3 L K M L D L L Y R S G S N R P L R I L L P L L T L L T T K L Y P L L F S R P A D
UniRef90_W9Y4T6 L K L L D L L H L H R S Q L T R P T R I L L D V L Q F I H T T L W R A L F A R A D
UniRef90_F9X1V4 S R Q S S S S S S S T A S L R P T R I L L A L L Q F I T T T L W R H L F G R P A D
UniRef90_R7Z7K9 G L T S S S S S S S G T N P N R P L R I L L P L L Q L I H G P L W R L L F S R P A D
UniRef90_C1GHY0 V R L V D E F L S K T N I G A C E S F R E T A E V I Q G I F W K H L F G R Q A E
UniRef90_U6GBP9 I R L Y E V V S L R E R N K R E T K L V E Q L R F I Q G I F W K H L F G R Q A E
UniRef90_A0CBH6 A H V L D A L V A S E G A Q R E T K V L G A L L L V K G A M W K A F G K E A N
UniRef90_H0XQ40 P R L L E M L S T R E R T K R Y T N I V S I L S F I S S T T V W K H L F N H A I
UniRef90_A7AUJ6 Q R L L E L L C V L R D N S K R E I K V P N M L G F I G N T M W K C L F G R I V T
UniRef90_D2VF11 S R L L L S L S T G K S I S L R L I R L V P V L S W I H S T L W K T V V G K A A D
UniRef90_E3L3N3 L K L L D L L F R E A P R R P L T I I N L L H F I K Q S A W Q H L F G R Q A D
UniRef90_L2FX05 I Q I L L E L L C H R E I R F L S L L N I R E S L P R L N R L V P L L S W I H T T L W K N V V G K T A D
UniRef90_A9TMK6 A R V L E A L V A R E G A R R E T K V L G A L L F V K G A G W K A L F I G K E A D
UniRef90_F4RQH4 I R L V E I F L S Q V P T S C R S F E N A G N G I A L A M R Y F L T Q F S S S
UniRef90_UPI0003C14DEE N R I L D Y L T V R E K I T R F T N I V S L L T F I S T T V W K Y L F N H C L
UniRef90_V6LGK2 C R I L D P L V M R E N G K R E T K V I S A L L F I K V V A W K A L F G K E A D
UniRef90_Q4N4M8 S T L T S Q S S S S N Q P V R P L R I L L P L L Q L I H G P L W K L L F S R P A D
UniRef90_G5E2V9 L R L L E L L N F R A S A R R D L K L L D V L Q F I H G S L W S Y L F G H V S N
UniRef90_F2Q084 C T L L E V L S S T G Y K R Q S K A V P M L L Q L K D K I W Q Y L F G Y S A A
UniRef90_Q6FMM4 L R A L L A M Q T Q R A Q S Q R E T R L L K T L L W V H S T L W K A V F G V Q A D
UniRef90_A2DKK6
UniRef90_A8Q0L7
UniRef90_E3K959
UniRef90_U1HTW2 L K L L D L L L Y R S Q A T R P L R V L P L L T L L T T K L Y P L L F S R P A D
UniRef90_V6LGG3 E K M A D Y Y L N N Q D L P Q C K Q F I Q T S D G V V Q Y L S F I L G V S C I
UniRef90_B8PC92 K S I S L G G S I S S A S R E I R L V P V L S W I H S T L W K T V V G K A A D
UniRef90_J3QDE2 V R L L E L I Y F R N A L K K E T K H L D M I Q F I A N T V W K T L F G K V A D
UniRef90_A5BKF7 I R L L E L L N F R A S A R R D L K I L L P L L H L I H G P L W R L L F N R P A D
UniRef90_I7LU45 E R M V D V V Y V R E K P K R D T R L Y N S L M F I K S T F W K S I F G K E A D
UniRef90_A7WPH9 H R V T D L L V R E G G K R E I K L N I L L F I K S T V W K S I F G R E A D
UniRef90_Q5AY05 S R V L L L T F R D K L K R E I K V N I L S F I S Q Q C W R I L L F G R Q G D
UniRef90_G7YIU1 T R R I D L L A R S L L S R Y C S N F R E V G E V V S K V A F K M F L G Y S P H
UniRef90_UPI000252AD61 S K C L D L L L Y R A L A V R P L R I L L P L L T L L T T K L Y P L L F S R P A D
UniRef90_A0A023BA01 L K L L D L L M L Y R S S P A R P L R I L L P L L T L L T T K L Y P L L F S R P A D
UniRef90_J3Q022 T K V R G A L L F V K G A V W K A L F G K E A D
UniRef90_W2S9Z8 R R A L E L A C W R E S S K R E T R A L W K S L F G A H A D
UniRef90_H6BMZ9 Y K V L E L V A F R E R A K R E I R I V S F L S F V A S A V W R C L F G R S M E
UniRef90_UPI0003C8D77A V R I L L D L L F I R E G L K R E T K L L N L L L F I K S N V W K V L F G K E A D
UniRef90_R1FRH7 L R L A H D F G R D S L E R I D T P D V V G N V I E K K W P S L S H S
UniRef90_U6KYV3 T R L V M L S F L R D S S R R P L T A L A A L K L I Q E R L W P R W F G R P A D
UniRef90_W4YK81 V R V L E L L S Y R D K L R R E T R I L N M L Q F V V S V C W K T L F G K P A D
UniRef90_A2DFH3 P L R I L P L L H L I H G P L W R L L F N R P A D
UniRef90_W6KML9 R Q M L D L V F L R E R L K R E I R L L N F L V F L K S T F W R C I F G K E A D
UniRef90_W4G323 P G L L E L T Y M R D N M S R K R D Y K P L L Y H I A T Y L W K A L F G H E A E
UniRef90_Q0CVWE0 A R L I M L S Y L K D P L R P I T I E G A L K L F Q D K L W S R W F G K P A D
UniRef90_U6HGG7 E R I I D I V Y L R D K P K R D I R L Y N A L I F L K I N L W K N L F N K E A D
UniRef90_C5LZX1 Q R L V D L T F I R E N Y K R E T K L K L I F I K T N L W K T L F V K E A D
UniRef90_Q4D2W2 A S M L D V L V L R E N G K R E T K V L N L L F V K V S W K A M F G K E A D
UniRef90_G4M1E3 T R I V D L L M L R E G F R R E V K L L N M L L F I K G N L W K N L F G K E A D
UniRef90_T1K5T1 F E K Q N I Y L I K D A L Q L I F T G I R A D
UniRef90_B5XBX6 I R L L E L L N F R S S L P R A S T F L S I L D I L Q F I H W S Y L F N H V S D
UniRef90_R7V4D7 A R I L D V L V L R E G L K R E V R V L N I L L F I K S V L W K S L F G K E A D
UniRef90_GOR1L6 I R L L D V T F L R E G Y R R E T K I V G I R L L D K S S V W K N L F G K E A D
UniRef90_J8LJF6 S K L V D L I F F R D G Y K R E S S K L V D L F G K E A D
UniRef90_A7TA84 M R L M M L Y S V R E N R R R P L T V E Q A L K L L Q E K L W L R W F G H A A N
UniRef90_A0A016SCV3 T R L I M L S S V R D P V R R P L T I D A V L K L L Q E K L W A R W F G R P A S D
UniRef90_E5SKP2 K R S I N I L P F I S K H L W K Y L F D Y S S D
UniRef90_S9VJW7 V K L L D L L L Y R E P P R R P L T I V S L L H F I K Q N V W Q H L F G R Q
UniRef90_E9BSK8 K Q M L D L I F L R D K L K R E I R L L G F L L F I K S T F W R S I F G K E A D
UniRef90_Q7RE91 E R M L D V I Y L R E G Y K R E T K L P T L L F I K S V V W K N L F N K E A D
UniRef90_T5ALA2 A K L M M L S S L K D P L R R P T T L D E A L K L L Q E K F W T R W F G K T A N
UniRef90_U6IKF0 Q Q P V R A A L F G K E A D
UniRef90_H3FN17 Q R V L G L A M H R Q N P K R E T R L L P A L L W I H T G F W K A A F G K A A D
UniRef90_C9ZZ12 P R D L K I L D I L Q F V H G T M W T Y L F G H A S D
UniRef90_UPI00039928B8 R R D L R L L E V L Q F V H G P V W R Y L F D R A S D
UniRef90_I2FTV8 K R E I R F L P A L M A I H S Q V W K A C F G K P A D
UniRef90_C5DT91
UniRef90_C5DM27
UniRef90_MOZQ08
UniRef90_L8WYL9
UniRef90_W5B2S4
UniRef90_Q03337
UniRef90_G0UUN3 T K L I M L S S L K D S A R R D L K I L D I L Q F I H G T L W S Y L F N H V S D
UniRef90_B0EPY8 M R M L E V I N I R E E N E R D I N M D N L V G F I A K D M W R V M F G Y G V D
UniRef90_I7IQV6 P K V L E L V S I K E R I K H E T K V S M L T F I A K T W K Y L F N H H A E
UniRef90_G8BSU5 R R D I K I I D I L Q F I H G S V S Y L F G A P S N

UniRef90_Q0UDG6 A L E R S G S D P G Q Y M I F D N E P L V N Y I S L P K E L S S L N C A A F V V A
UniRef90_B6HM03 A L E H S P D T P N E Y M I T D N D P L V N Y I S A P R D M S M L N C A A Y V V A
UniRef90_UPI00045603B3 S L E R S T E R S D E Y M I S T N V P F S R A L S L P K E M S Q L S V E A I T I A
UniRef90_UPI000328F2B1 Y S E I I D
UniRef90_L8HI86 S L E R S T E H E D E Y M I I S G D V L V N Y V S L R D G G L N T A A F V V A
UniRef90_E4XK01 K L E Q A A D D P R N Y Y V I E K E P L I K Y I S S N P K E D K S E L N N C A A F A G
UniRef90_M1VMT7 S L E R V K D K E N E Y L I V D N T M L A R F I S S V P K E L E L I A
UniRef90_B7Q0S6 K L E Q A N E D D R T Y Y L I E K E P L V K F I S S V P K D E R G S L N C A A F V V A
UniRef90_L8X7T3 Q T F N M I L D E N P L A D F V I E L P D E A G S Q L W F S N F L C
UniRef90_G7E7R5 A L E K S T E N Q D E Y M I T D N D P L T N Y I S V P R E M G L N C C A A F V V A
UniRef90_C5PDC0 A L E H S P D T P N E Y M I T D N D P L T N Y I S V P R E M G L N C C A A F V V A
UniRef90_G8JU67 D L V K S S E R D N E Y M I V D N E P L W T Q F I S S V P R E Y G S S I N Q C C A A F T G
UniRef90_D2DSN9 K L D R A T D D D E R I F Y L I E K E P L V N F V S V P R D K S S I N C C A A F V V A
UniRef90_A0A058Z986 P I E R D T S R N H Y Y L I D D D P V V S Q F I S S V P A D M K D L N C C G A Y N A
UniRef90_UPI0003F4929C G L E R S V E I G D E Y M L T C N S P P L T Q H I S S L P R D M G Q L V Q C C E S F T A
UniRef90_W0T6I5 D L V K S S E R D N E Y M I I D N E P I S Q F I N Q P A Q H T S V V Q C C E S F T C
UniRef90_Q6CPP3 S L E Q S S T T N K G E Y M I I D N T P L T N Y I S V P K E M S Q L N C V A A Y I V A
UniRef90_W9Y4T6 A L E Q S N D N K K E N E Y M I V D N E P V V N Y I S S T P K E M S Q L N C C A A F V V A
UniRef90_F9X1V4 A L E Q S N D N K K E N E Y M I V D N E P V V N Y I S S T P K E M S Q L N C C A A F V V A
UniRef90_R7Z7K9 A L E R S A T E K E L Y M V T D N E P L V N Y I S S V P K E M S Q L N C C A A Y V V A
UniRef90_C1GHY0 A L E H S A A T P S N E Y M I V D N D P L V N Y I S S V P R E M N Q L N C C A A Y V V A
UniRef90_U6GBP9 V L S S P N D E R S C T F V F S S N P L A D F V E L P P S L A S L S Y S N I C C
UniRef90_A0CBH6 S I E R L K D R P N D Y L I R D E N P L L K Y I S E E G H I S P A Q F M C
UniRef90_H0XQ40 K L E Q A N D D D A C F E Y L I G R Q P L I N T Y I S V P K E D S R F S C A G F T A
UniRef90_A7AUI6 L L K G K D D P S E Y M I N D D L Q I N T K Y I S S T P K D L Q H T S C C A S F V A
UniRef90_D2VF11 T I E K A A A P G E Y M I Y E K E L T K F I S P P R D M N V Q C C A Y F S A
UniRef90_E3L3N3 V L E H S N E N D E Y M I S D N D L T R A I T I P K D M S Q L N C C G A Y M A
UniRef90_L2FX05 R L E K S A D K P D E Y M I I D N E P L V N Y V S V P R E L S Q L N C C A A F M A
UniRef90_A9TMK6 S L E K G T E H E D E Y M I S E K E L L V N F V S V P A S M G G F N C C G T F V A
UniRef90_F4RQH4 L L E H S N E N D D E Y M I S D N C L I T K S I T I P K D M S Q L N C C G A L M A
UniRef90_UPI0003C14DEE K L E Q N D D A R T F Y I E R E P L I N T Y I S V P K E M S T L N C C A S F T A
UniRef90_V6LGK2 I K D V I S S G E D G I S L L I K S N P I T A E M V L P R H L N S I K P D S I M C
UniRef90_Q4N4M8 L L K E R D D D N K E Y M L N D R E F Q I N T K Y I S S M P K E L Q Y M S C G S F I G
UniRef90_G5E2V9 K L E Q A N D D D K E Y Y I I K D P L I N S Y I S S V P K E N S T L N C C A S F T A
UniRef90_F2Q084 A L E H S P N T P N E Y M I T D N D P L T N Y I S S V P K E M N M L N C C A A F V V A
UniRef90_Q6FMM4 D L V K S S E R D N E Y M I V D N K P L T Q F I S S V P K E G K N V S C C D Y F V C
UniRef90_A2DKK6 D L E Q Q I D D A N C Y M L Y D N T P I T T Y I S Y P Q E R K G F T C C C F V A
UniRef90_A8Q0L7 N L E R S T E S D D E Y M I T T N V P L S R G I S V P K E M T Q L S V E A Y A A
UniRef90_E3K959 T K L T S G L R E F L S F D E N V L A E F V I E L P P E D A G Q L W Y S Q L L C
UniRef90_U1HTW2 S L E Q S T T N P G E Y M I I D N T P L T N F I S S V P K E M S Q L S C A A F V A
UniRef90_V6LGG3 V S S Q E E L S Y Q I K L E E N P F E S F V K V P N Q L T G L C Y S T V I P
UniRef90_B8PC92 A I E K S V E I N A D E Y M I I D D P P I T R H I S V P R D M S Q L S C C S F T A
UniRef90_J3QDE2 V L E H S N E N E D E Y M I S D N D L T R A I T I P K D M S Q L S C C G A Y M A
UniRef90_A5BKF7 S L E K G T E H E D E Y M I S E K E L L V N F I S L P K D M G T F N C G A F V A
UniRef90_I7LU45 G I F P E D G S E R K E Y G Y L I R D D N P T V L S R Y I S E I G Q Q N G A A F V A
UniRef90_A7WPH9 D L V K S S E R K E N E Y M I V D N K P L T Q F I S S V S G S V S C C D Y F V C
UniRef90_Q5AY05 A L E H S P D T P N E Y M I T D N D P L V N Y I S V P K E M N Q L N C C A A F V V A
UniRef90_G7YIU1 E L E Q D G G D K N T Y Y L I E H E P V V N F V F D E K E A V P L N T A A F N C
UniRef90_UPI000252AD61 K L E H A N D D E R T Y Y I L E K E A I V N F I S V P K D K G S L N C A S F I A
UniRef90_A0A023BA01 L F K C G D N Q N D Y M L T D H K F M L T K Y C H E P R G D S F I D Y G A F A A
UniRef90_J3Q022 A S Q V T S G L L G F T L S F N K N V L A E F V I E V P P E D A G G M W D S Q L C C
UniRef90_W2S9Z8 S L E Q S T T N K N E Y M I I D N T P L T N Y I S V P K E M S Q L S V A A Y I A
UniRef90_H6BMZ9 S L E Q S T T N P G E Y M I I D N T P L T N Y I S V P K E M S Q L S V A A Y I A
UniRef90_UPI0003C8D77A K L E Q N D D A R T F Y I E R E P L I N T Y I S V P K E N S T L N C C A S F T A
UniRef90_R1FRH7 S L Q K V Q D S D F E F M I V E K E P L V N F I S S A P V N C C A A F V A
UniRef90_U6KYY3 L L R A Q D T E L E Y M L N D K E L L T N F I S P P R D L G H L N C G A F A A
UniRef90_W4YK81 K L E H A N D D E
UniRef90_A2DFH3 N K Q V Q T Q V D G K N I L I L T F P P F T Q N V Q I P E L Y S G V H F T G M L P
UniRef90_W6KML9 E I Q R E A N S D R F F V F D A N P L V L R Y V N P E G H W N V N Y A S F M G
UniRef90_W4G323 A L E R S T G E N E
UniRef90_Q0CVWE0 A L E H S P D T P N E Y M I T D N D P L V N Y I S V P K E M S M L N C A A F V V A
UniRef90_U6HGG7 D L E R D G D E H T Y Y M I E R E P V V N K F T R F T Y D H S E L N L A A F N C
UniRef90_C5LZX1 V L T T D T G E C E F Y L A D A K Q W L N K F I S L P P D D N F V N C A A F A A
UniRef90_Q4D2W2 D L Q R E T Q S D R F F I F D T E P I V L R Y V Y P P E G R W S I N Y A S F M G
UniRef90_G4M1E3 E L E R D V D E N I F Y M I E H E P V M N R F I E K R K T S A P L N V A A F N A
UniRef90_T1K5T1 K L E H S N D D P T T Y Y I I E S D P I V N Y I S Y N R D K G S L N C A S F I G
UniRef90_B5XBX6 K L E Q A N D G
UniRef90_R7V4D7 K L E H N D D E R T C I L L I
UniRef90_G0R1L6 I E D F R T E R G K D F N M V M N T K P L A E F V I E L P E Q L N G L Q Y N N I I C
UniRef90_J8LJF6 D L V K S S E R D N E Y M I V D N F P L T Q F I P G E K N V S C E Y F V C
UniRef90_A7TA84 K L E Q A N D D D K T Y Y I I E K E P L V N F I S S V P K D K G
UniRef90_A0A016SCV3 K L E R S N D D Q C T Y L I E K E P V V N F I S S V P K D K G M L N C A A F V A
UniRef90_E5SKP2 K L E R N N Y I I E R E P V V N F I S S V P K D K G N L N C A A F T G
UniRef90_S9VJW7 E V Q R E S G S D R Y F L G D S D P L V D Y V D S E G R W T V N Y A S Y M G
UniRef90_E9BSK8 E I Q R E S N S D R F F L F D S D P I V D Y V D S E G R W N V N Y A G F M G
UniRef90_Q7RE91 L L K S Q D S I Y E Y M I C D Q N I L N K F I A V P K D Y G N I N C A S F A A
UniRef90_T5ALA2
UniRef90_U6IKF0 D L E K D G D E R T Y Y M I E R E P L V S K Y T E S E R K A V P L N L A A F N C
UniRef90_H3FNI7 K L E R S N D D N
UniRef90_C9ZZ12 D L Q Q E G E S T R Y F L V D S N P M V L Q H V E Y M D S E G Q I N Y A S F M G
UniRef90_UPI00039928B8 K L E Q A N D D D K T Y Y I I E K E P L V N F I S V P K E N S T L N C A A F T A
UniRef90_I2FTV8 S L E R S T G D E C
UniRef90_C5DT91 D L V K S S E R D N E Y M I V D N L P L T Q F I P A G R S N C D Y F T C
UniRef90_C5DM27 D L V K S S E R D N E Y M I I D N T P I T R F I S S T N V Q C C D F F V C
UniRef90_M0QZQ8 K L E Q N D D A R T F Y I E R E P L I N T Y I S V P K E N S T L N C C A S F T A
UniRef90_L8WYL9 G I E K S V I E K E D E M I I D N D P P I T R Y I S S V P K D M D Q L S C C A L T A
UniRef90_W5B2S4 S L E K G T E H E D E Y M I S E K E L L V N F I S V P K D M G A F N C G A F V A
UniRef90_Q03337 D L V K S S E R D N E Y M I V D N F P L T Q F I P G E N V S C C E Y F V C
UniRef90_G0UUN3 D L Q Q E N E S D R Y F L F D S N P I V L R H V F P E G Q W N I N Y A S F M G
UniRef90_B0EPY8 V G R V K Q D T N E F L I T D K N L I T E F M S Y G N E K N I Y C V A Y V A
UniRef90_I7IQV6 L L K S G K H Q D E Y M I S D R M I
UniRef90_G8BSU5 D L V K S S E R E N E Y M I V D N E P L T Q F I S G N F S C N Y F M C

UniRef90_Q0UDG6
UniRef90_B6HM03
UniRef90_UPI00045603B3
UniRef90_UPI000328F2B1
UniRef90_L8HI86
UniRef90_E4XK01
UniRef90_M1VMR7
UniRef90_B7Q0S6
UniRef90_L8X7T3
UniRef90_G7E7R5
UniRef90_C5PDC0
UniRef90_G8JU67
UniRef90_D2DSN9
UniRef90_A0A058Z986
UniRef90_UPI0003F4929C
UniRef90_W0T6I5
UniRef90_Q6CPP3
UniRef90_W9Y4T6
UniRef90_F9X1V4
UniRef90_R7Z7K9
UniRef90_C1GHY0
UniRef90_U6GBP9
UniRef90_A0CBH6
UniRef90_H0XQ40
UniRef90_A7AUJ6
UniRef90_D2VFI1
UniRef90_E3L3N3
UniRef90_L2FX05
UniRef90_A9TMK6
UniRef90_F4RQH4
UniRef90_UPI0003C14DEE
UniRef90_V6LGK2
UniRef90_Q4N4M8
UniRef90_G5E2V9
UniRef90_F2Q084
UniRef90_Q6FMM4
UniRef90_A2DKK6
UniRef90_A8Q0L7
UniRef90_E3K959
UniRef90_U1HTW2
UniRef90_V6LGG3
UniRef90_B8PC92
UniRef90_J3QDE2
UniRef90_A5BKF7
UniRef90_I7LU45
UniRef90_A7WPH9
UniRef90_Q5AY05
UniRef90_G7YIU1
UniRef90_UPI000252AD61
UniRef90_A0A023BA01
UniRef90_J3Q022
UniRef90_W2S9Z8
UniRef90_H6BMZ9
UniRef90_UPI0003C8D77A
UniRef90_R1FRH7
UniRef90_U6KYYV3
UniRef90_W4YK81
UniRef90_A2DFH3
UniRef90_W6KML9
UniRef90_W4G323
UniRef90_Q0CWEO
UniRef90_U6HGG7
UniRef90_C5LZX1
UniRef90_Q4D2W2
UniRef90_G4M1E3
UniRef90_T1K5T1
UniRef90_B5XBX6
UniRef90_R7V4D7
UniRef90_G0R1L6
UniRef90_J8LJF6
UniRef90_A7TA84
UniRef90_A0A016SCV3
UniRef90_E5SKP2
UniRef90_S9VJW7
UniRef90_E9BSK8
UniRef90_Q7RE91
UniRef90_T5ALA2
UniRef90_U6IKF0
UniRef90_H3FNI7
UniRef90_C9ZZ12
UniRef90_UPI00039928B8
UniRef90_I2FTV8
UniRef90_C5DT91
UniRef90_C5DM27
UniRef90_M0QZQ8
UniRef90_L8WYL9
UniRef90_W5B2S4
UniRef90_Q03337
UniRef90_G0UUN3
UniRef90_B0EYP8
UniRef90_I7IQV6
UniRef90_G8BSU5

130 140 150

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

UniRef90_Q0UDG6
UniRef90_B6HM03
UniRef90_UPI00045603B3
UniRef90_UPI000328F2B1
UniRef90_L8HI86
UniRef90_E4XK01
UniRef90_M1VMR7
UniRef90_B7Q0S6
UniRef90_L8X7T3
UniRef90_G7E7R5
UniRef90_C5PDC0
UniRef90_G8JU67
UniRef90_D2DSN9
UniRef90_A0A058Z986
UniRef90_UPI0003F4929C
UniRef90_W0T6I5
UniRef90_Q6CPP3
UniRef90_W9Y4T6
UniRef90_F9X1V4
UniRef90_R7Z7K9
UniRef90_C1GHY0
UniRef90_U6GBP9
UniRef90_A0CBH6
UniRef90_H0XQ40
UniRef90_A7AUI6
UniRef90_D2VF11
UniRef90_E3L3N3
UniRef90_L2FX05
UniRef90_A9TMK6
UniRef90_F4RQH4
UniRef90_UPI0003C14DEE
UniRef90_V6LGK2
UniRef90_Q4N4M8
UniRef90_G5E2V9
UniRef90_F2Q084
UniRef90_Q6FMN4
UniRef90_A2DKK6
UniRef90_A8Q0L7
UniRef90_E3K959
UniRef90_U1HTW2
UniRef90_V6LGG3
UniRef90_B8PC92
UniRef90_J3QDE2
UniRef90_A5BKF7
UniRef90_I7LU45
UniRef90_A7WPH9
UniRef90_Q5AY05
UniRef90_G7YIU1
UniRef90_UPI000252AD61
UniRef90_A0A023BA01
UniRef90_J3Q022
UniRef90_W2S9Z8
UniRef90_H6BMZ9
UniRef90_UPI0003C8D77A
UniRef90_R1FRH7
UniRef90_U6KYV3
UniRef90_W4YK81
UniRef90_A2DFH3
UniRef90_W6KML9
UniRef90_W4G323
UniRef90_Q0CWE0
UniRef90_U6HGG7
UniRef90_C5LZX1
UniRef90_Q4D2W2
UniRef90_G4M1E3
UniRef90_T1K5T1
UniRef90_B5XBX6
UniRef90_R7V4D7
UniRef90_G0R1L6
UniRef90_J8LJF6
UniRef90_A7TA84
UniRef90_A0A016SCV3
UniRef90_E5SKP2
UniRef90_S9VJW7
UniRef90_E9BSK8
UniRef90_Q7RE91
UniRef90_T5ALA2
UniRef90_U6IKF0
UniRef90_H3FNI7
UniRef90_C9ZZ12
UniRef90_UPI00039928B8
UniRef90_I2FTV8
UniRef90_C5DT91
UniRef90_C5DM27
UniRef90_M0QZQ8
UniRef90_L8WYL9
UniRef90_W5B2S4
UniRef90_Q03337
UniRef90_G0UUN3
UniRef90_B0EPY8
UniRef90_I7IQV6
UniRef90_G8BSU5

UniRef90_G8ZMF5
 UniRef90_J7RXA7
 UniRef90_T1JUJ2
 UniRef90_G0R4L8
 UniRef90_UPI0002C3F51F
 UniRef90_K2SHS1
 UniRef90_H2B1V9
 UniRef90_Q5C1W7
 UniRef90_G0V7A4
 UniRef90_C4WU32
 UniRef90_C6LSK5
 UniRef90_A8BA91
 UniRef90_J4C884
 UniRef90_A7TDQ9
 UniRef90_G3AVF7
 UniRef90_V6M3T7
 UniRef90_Q54TK7
 UniRef90_C5MG52
 UniRef90_B9WKA1
 UniRef90_E0S9Z8
 UniRef90_F4PUP7
 UniRef90_A5E7B6
 UniRef90_A3LWB7
 UniRef90_Q6BK57
 UniRef90_I1ENL0
 UniRef90_A9URR0
 UniRef90_U6MGQ9
 UniRef90_Q75BK6
 UniRef90_H2XLK9
 UniRef90_D2VAM4
 UniRef90_Q8SU25
 UniRef90_C4V8Y5
 UniRef90_A5DAF5
 UniRef90_R1CMU3
 UniRef90_V3ZPA8
 UniRef90_T5A407
 UniRef90_G9NKV9
 UniRef90_C4Y593
 UniRef90_D3TRF6
 UniRef90_I6NDN7
 UniRef90_W5KJL1
 UniRef90_E9FYX1
 UniRef90_G8BPN1
 UniRef90_G8B930
 UniRef90_UPI0001CBABA1
 UniRef90_R0MAS0
 UniRef90_C7Z9W5
 UniRef90_M2LT53
 UniRef90_M4G2Y3
 UniRef90_H0H153
 UniRef90_I3KJV1
 UniRef90_UPI00032B15CC
 UniRef90_I1CIA8
 UniRef90_T1JVG1
 UniRef90_C7BVP9
 UniRef90_K1WXU7
 UniRef90_G1XT68
 UniRef90_Q5AYY2
 UniRef90_C1L411
 UniRef90_T0R9T3
 UniRef90_W5JQ82
 UniRef90_F2QUF8
 UniRef90_W4ZHN1
 UniRef90_Q99394
 UniRef90_B9MZL8
 UniRef90_H8XAY8
 UniRef90_I2H1V3
 UniRef90_G0RJ43
 UniRef90_H3CGW9
 UniRef90_R7SJ69
 UniRef90_Q8SWC2
 UniRef90_L7JL10
 UniRef90_T0MHQ3
 UniRef90_L8FNC8
 UniRef90_U4L5M6
 UniRef90_UPI00021A4E7F
 UniRef90_F7AB08
 UniRef90_A1CM11
 UniRef90_W6U9W1
 UniRef90_F0XPM8
 UniRef90_UPI0000D5686B
 UniRef90_V5FW02
 UniRef90_M2YLM3
 UniRef90_C5DI52
 UniRef90_B8ND03
 UniRef90_E0V955
 UniRef90_C0SCJ0
 UniRef90_B4JU44
 UniRef90_T2MB67
 UniRef90_UPI0003F16647
 UniRef90_UPI0004413BF6
 UniRef90_S4BF93

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

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

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

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

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

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

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

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

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

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

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

UniRef90_G8ZMF5
UniRef90_J7RXA7
UniRef90_T1JUJ2
UniRef90_G0R4L8
UniRef90_UPI0002C3F51F
UniRef90_K2SHS1
UniRef90_H2B1V9
UniRef90_Q5C1W7
UniRef90_G0V7A4
UniRef90_C4WU32
UniRef90_C6LSK5
UniRef90_A8BA91
UniRef90_J4C884
UniRef90_A7TDQ9
UniRef90_G3AVF7
UniRef90_V6M3T7
UniRef90_Q54TK7
UniRef90_C5MG52
UniRef90_B9WKA1
UniRef90_E0S9Z8
UniRef90_F4PUP7
UniRef90_A5E7B6
UniRef90_A3LWB7
UniRef90_Q6BKS7
UniRef90_I1ENL0
UniRef90_A9URR0
UniRef90_U6MGQ9
UniRef90_Q75BK6
UniRef90_H2XLK9
UniRef90_D2VAM4
UniRef90_Q8SU25
UniRef90_C4V8Y5
UniRef90_A5DAF5
UniRef90_R1CMU3
UniRef90_V3ZPA8
UniRef90_T5A407
UniRef90_G9NKV9
UniRef90_C4Y593
UniRef90_D3TRF6
UniRef90_I6NDN7
UniRef90_W5KJL1
UniRef90_E9FYX1
UniRef90_G8BPN1
UniRef90_G8B930
UniRef90_UPI0001CBABA1
UniRef90_ROMAS0
UniRef90_C7Z9W5
UniRef90_M2LT53
UniRef90_M4G2Y3
UniRef90_H0H153
UniRef90_I3KJV1
UniRef90_UPI00032B15CC
UniRef90_I1CIA8
UniRef90_T1JVG1
UniRef90_C7BVP9
UniRef90_K1WXU7
UniRef90_G1XT68
UniRef90_Q5AYY2
UniRef90_C1L411
UniRef90_T0R9T3
UniRef90_W5JQ82
UniRef90_F2QUF8
UniRef90_W4ZHN1
UniRef90_Q99394
UniRef90_B9MZL8
UniRef90_H8XAY8
UniRef90_I2H1V3
UniRef90_G0RJ43
UniRef90_H3CGW9
UniRef90_R7SJ69
UniRef90_Q8SWC2
UniRef90_L7JL10
UniRef90_T0MHQ3
UniRef90_L8FNC8
UniRef90_U4L5M6
UniRef90_UPI00021A4E7F
UniRef90_F7AB08
UniRef90_A1CM11
UniRef90_W6U9W1
UniRef90_F0XPM8
UniRef90_UPI0000D5686B
UniRef90_V5FW02
UniRef90_M2YLM3
UniRef90_C5DI52
UniRef90_B8ND03
UniRef90_E0V955
UniRef90_C0SCJ0
UniRef90_B4JU44
UniRef90_T2MB67
UniRef90_UPI0003F16647
UniRef90_UPI0004413BF6
UniRef90_S4BF93

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

UniRef90_G8ZMF5 DLVKSSEERDNE YMI V DNR P 100 LT QF I P 110 GV S C D Y F V C 120
UniRef90_J7RXA7 DLVKSSEERDNE FMI I DNR P LT QF I N S P F N H N G S C D Y F V C
UniRef90_T1JUJ2 KLEHTSNDGDEQYTYGFIKESDPLVNYIISSEYNERDEREGGN C A S F I G
UniRef90_G0R4L8 GLITTAETAEPQYTYGFIKESDPLVNYIISSEYNERDEREGGN C A A L I V
UniRef90_UPI0002C3F51F YGKVRDKANSTDFYMIITDKNLITTEYIISSEYASDD C N V Y C V A F V A
UniRef90_K2SHS1 ALEKRAAAASTDYMIITDKNLITTEYIISSEYASDD C N V Y C V A F V A
UniRef90_H2B1V9 DLVKSSEERDNE YMI I DNR P LT QF I N S P F N H N G S C D Y F V C
UniRef90_Q5C1W7 ELERDSDVDENIF YMI E H E P L V N N N N K N S C N Y F M C
UniRef90_G0V7A4 DLVKSSEERDNE YMI V DNR P LT QF I P Q S S S K F L N S C H F V C
UniRef90_C4WU32 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_C6LSK5 DIKKPATETLE Y Y F V D E W P V L E Y T S Y P P N Y G G A L P S M F V A
UniRef90_A8BA91 I K K P A T E D L E Y Y L V D E W P V L E Y T S Y P P N Y G G A L P S M F V A
UniRef90_J4C884 LMRGKDSYKEYMLNDKEFQITKYIISMPRE L Q Y S T C S S F I A
UniRef90_A7TDQ9 DLVKSSEERENE YMI V D E H M L T Q F I S N N N S C D Y F V C
UniRef90_G3AVF7 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_V6M3T7 VQQRKNDNNGFV L J E R E P A T D Q Y I S F P R D Y S G I L P S M A V L S
UniRef90_Q54TK7 GLKTNHKG G V F V L T D S K F Q W L Q H L S F D S S A S N K D C S A Q F T A
UniRef90_C5MG52 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_B9WKA1 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_E0S9Z8 I D K S E D S D K T Y F L T D A D G V L S R F M S V P T E W D G F S A D S V V C
UniRef90_F4PUP7 GLKKNRKG V F V M T D Q K F W L L H L S Y D P T S T N K D C S Q F F A V
UniRef90_A5E7B6 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_A3LWB7 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_Q6BKS7 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_I1ENL0 H L K T N N Q D T F V L Y D N N F L T D S S Q Y S D E L S R Y V A F T S
UniRef90_A9URR0 V A H G A E N G D I F V I T L D
UniRef90_U6MGQ9 L L R A Q D T E L E C
UniRef90_Q75BK6 NLRKTNHQGT F Y L F D D Y Q P I R D F L E G E V S E R E L R Y L H L P C
UniRef90_H2XLK9 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_D2VAM4 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_Q8SU25 VEKARDVDRTY L L T D S D G L F S R F I S V P D E T N N G L S A D S V I V C
UniRef90_C4V8Y5 KLE V S T K N S K E Y Y I F E H E P L S Q H V S L P E S W K D F C P E S I M S
UniRef90_A5DAF5 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_R1CMU3 K L Q T N N R G V Y M L Q D N R P A A E R Q S T A K Q M G A T Y G K F P C C C
UniRef90_V3ZPA8 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_T5A407 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_G9NKV9 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_C4Y593 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_D3TRF6 NLRKTNHQGT MY V V V Q D K R F L T R I S S G P K Q L Q H A K F V A F T
UniRef90_I6NDN7 NLRKTNHQGT F Y L F D D Y Q P I R D F L E G E V S E R E L R Y L H L P C
UniRef90_W5KJL1 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_E9FYX1 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_G8BPN1 NLRKTNHQGT F Y L F D D Y Q P I R D F L E G E V S E R E L R Y L H L P C
UniRef90_G8B930 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_UPI0001CBABA1 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_ROMAS0 K L E A S R D Q P N V Y H I E Y S P L T G H V S I A A G K K N Y M E Y A A F P C C C
UniRef90_C7Z9W5 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_M2LT53 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_M4G2Y3 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_H0H153 NLRKTNHQGT F Y L L D Y D Y R P I Q S F S L D E D A K E L K F L E I P M
UniRef90_I3KJV1 NLRKTNHQGT I Y V L Q D N K F G L L S H L S V G K Q Y M E P K Y L A F T
UniRef90_UPI00032B15CC NLRKTNHQGT I Y V L Q D N K F R L L T Q M S A G K Q Y L K Y L A F T
UniRef90_I1CIA8 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_T1JVG1 NLRKTNHQGT I Y V L L D H R F R F L S N I S S S K Q F K Y L A F S C C C
UniRef90_C7BVP9 NLRKTNHQGT K F C T L R S L A E G Q Q L V R E S G A L V I A F P
UniRef90_K1WXU7 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_G1XT68 NLRKTNHQGT H R G V Y V L T D Q R S P L L R M S S V P A A T K A A P F L Q F P C C
UniRef90_Q5AYY2 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_C1L411 T L K T N Y Q D V Y V L T V N E Q P L L K F E S V P E S M S E I K Y L A F P S
UniRef90_T0R9T3 K L Q T N H R G V F V L Q D F N F L S A E T D A E S K Q K A L V F L V F P C C
UniRef90_W5JQ82 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_F2QUF8 NLRKTNHQGT S F T M I S R D S P L G V Q D T L N Q T R K H Y L W Y P C C
UniRef90_W4ZHN1 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_Q99394 NLRKTNHQGT F Y L L D Y D Y R P I Q S F S L E E D A K E L K F L E I P V
UniRef90_B9MZL8 NLRKTNHQGT K F R M S G D D L S V E N G M E D P E S K G A Q A Y C Y F P C C
UniRef90_H8XAY8 NLRKTNHQGT I F V L D N N Y K L I N F I A L E G D Q D T L K Y L A F P C
UniRef90_I2H1V3 NLRKTNHQGT F Y L L D Y D Y R P I Q S F S L E E D A K E L K F L E I P V
UniRef90_G0RJ43 NLRKTNHQGT P H T N I I S A N N S L Q G V Y V L T D N A S R M S F L W F P C C
UniRef90_H3CGW9 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_R7SJ69 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_Q8SWC2 C E S V E T D S D Q Q G V Y V L T D N S F R P F A K M S E A G G Q A F L W F P C C
UniRef90_L7JL10 K L E S S I E N K N E F F I F E Y E P M S R Y V S L P E D W K D F C P E S I C
UniRef90_T0MHQ3 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_L8FNC8 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_U4L5M6 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_UPI00021A4E7F H L K T N N Q N G C I I G L G K F L V L Q Y T K K E E E C L E M I C C
UniRef90_F7AB08 NLRKTNHQGT I Y V L Q D N S K F Q L L T Q M S S G K Q Y L K Y L A F T C C
UniRef90_A1CM11 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_W6U9W1 T L K T N N A D V Y V L I D S D F Y L T R I E P S O L T R I N V S V E M I L C
UniRef90_F0XPM8 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_UPI0000D5686B NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_V5FW02 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_M2YLM3 NLRKTNHQGT V F V L T D S R Q P L S R M S D A L R R A Q T F L Y F P C C
UniRef90_C5DI52 NLRKTNHQGT F Y L L D Y D Y R P I Q S F S L E E D A K E L K F L E I P V
UniRef90_B8ND03 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_E0V955 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_C0SCJ0 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_B4JU44 NLRKTNHQGT N N G M Y L Q D R A F R F L T R I S P G A K E A I S Y V A F T P C C
UniRef90_T2MB67 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C
UniRef90_UPI0003F16647 GLRRTN HQGT Y I I L D N N P L L Y R M A G Q Q D A L K F L A F T A
UniRef90_UPI0004413BF6 NLRKTNHQGT H R G V Y V L Q D N N P L S R I S S H N G P Q Q A L K Y V A W S A
UniRef90_S4BF93 NLRKTNHQGT VYVLDH DNEFRFFSKL P NGTQYLKYATFT C

					130					140					150																								
UniRef90_G8ZMF5	G	I	I	Q	G	F	L	N	T	A	E	F	P	C	K	V	S	A	H																				
UniRef90_J7RXA7	G	I	I	S	G	F	L	N	N	A	G	F	P	C	D	V	T	A	H	P																			
UniRef90_T1JUJ2	G	I	I	A	A	A	L	N	E	T	G	F	N	A	K	V	T	V	H																				
UniRef90_G0R4L8	G	I	L	K	G	L	L	N	H	T	G	F	D	A	Q	V	Y																						
UniRef90_UPI0002C3F51F	G	L	A	Q	S	C	M	D	A	A	D	F	K	G	T	V	T																						
UniRef90_K2SHS1												F	V	A																									
UniRef90_H2B1V9	G	I	I	N	G	F	L	N	N	A	A	F	L	C	K	V	T																						
UniRef90_Q5C1W7																																							
UniRef90_G0V7A4	G	M	I	Q	G	F	L	N	G	G	F	P	C	S	V	S	P	H	L	M	P	V	D	G	D	E	R	V	I	Y	L	I	K	F	D	E	Q	V	
UniRef90_C4WU32	G	L	I	R	G	A	L	E	N	F	G	I	S	S	I	V	T																						
UniRef90_C6LSK5	G	L	I	E	G	F	L	A	C	C	G	F	K	T	K																								
UniRef90_A8BA91	G	L	V	E	G	F	L	T	C	C	G	F	R	T	K																								
UniRef90_J4C884	G	I	V	D	G	L	L	S	S	A	K	F																											
UniRef90_A7TDQ9	G	I	I	Q	G	F	L	T	K	A	D	F	P	C	T	V	T	P	H	S	N	N	E	N	G	I	D	G	G	V	L	L	I	K	F	D	K	Q	V
UniRef90_G3AVF7	G	V	I	R	G	L	L	S	N	F	G	I	E	A	N	V	T																						
UniRef90_V6M3T7	G	V	I	R	A	V	L	G	C	C	G	F	E	S	A	V	K	F	L	S	E	G	L																
UniRef90_Q54TK7	G	L	I	K	G	A	M	S	N	F	G	F	K	C	I	V	T	F																					
UniRef90_C5MG52	G	V	I	R	G	L	L	M	S	F	G	I	E	S	N	V	T																						
UniRef90_B9WKA1	G	V	I	R	G	L	L	M	S	F	G	I	E	A	N	V	S																						
UniRef90_E0S9Z8	G	M	I	E	A	V	L	M	A	S	G	Y	R	S	E	V	T																						
UniRef90_F4PUP7	G	L	I	K	G	A	M	S	N	F	G	Y	K	C	M	V	T	F																					
UniRef90_A5E7B6	G	V	I	R	G	L	L	M	S	F	G	V	E	A	N	V	S																						
UniRef90_A3LWB7	G	I	I	R	G	L	L	S	S	F	G	I	E	S	N	V	T																						
UniRef90_Q6BKS7	G	V	I	R	G	L	L	M	S	F	G	I	E	A	E	V	H																						
UniRef90_I1ENL0	G	L	L	T	G	A	L	S	N	L	G	I	R																										
UniRef90_A9URR0																																							
UniRef90_U6MGQ9																																							
UniRef90_Q75BK6	G	V	I	R	G	L	L	A	S	L	G	F	S	V	T	V	S	F	V	E																			
UniRef90_H2XLK9	G	L	I	R	G	V	L	S	N	L	G	V	K	S	V	T																							
UniRef90_D2VAM4	G	V	V	R	G	A	L	T	V	L	G	L	D	A	F	V	T																						
UniRef90_Q8SU25	G	M	I	Q	A	A	L	M	A	S	G	Y	D	S	E	V	T																						
UniRef90_C4V8Y5	G	V	I	E	Y	A	L	L	A	S	G	F	E	C	E	V	S																						
UniRef90_A5DAF5	G	V	I	R	G	L	L	Y	S	F	G	V	E	S	G	V	S																						
UniRef90_R1CMU3	G	L	I	R	G	A	L	C	G	L	G	V	S	S	S	V																							
UniRef90_V3ZPA8	G	L	L	R	G	A	L	S	N	L	G	V	N	C	I	V	T																						
UniRef90_T5A407	G	I	V	R	G	A	L	A	A	L	G	M	N	A	T	V																							
UniRef90_G9NKV9	G	I	I	R	G	A	L	A	A	L	G	I	N	A	T	V	Q	A	E	V	N	E	L	P	G														
UniRef90_C4Y593	G	I	I	R	G	L	L	S	S	F	G	I	S	A	Y	I	T	A	E	C	S	Q	L																
UniRef90_D3TRF6	G	L	V	R	G	A	L	S	N	L	G	L	N	S	T	V	T																						
UniRef90_I6NDN7	G	I	I	K	G	L	L	A	S	L	G	F																											
UniRef90_W5KJL1	G	L	I	R	G	A	L	S	N	L	G	L	E	S	V	T																							
UniRef90_E9FYX1	G	L	L	R	G	A	L	A	S	L	G	L	T	C	I	V	T																						
UniRef90_G8BPN1	G	I	I	T	G	V	L	S	S	L	G	F	K	S	E	V																							
UniRef90_G8B930	G	V	I	R	G	L	L	M	S	F	G	V	E	S	N	V	S																						
UniRef90_UPI0001CBABA1	G	L	I	R	G	A	L	S	N	L	G	M	N	C	I	V	T																						
UniRef90_ROMAS0	G	V	I	K	Y	G	L	K	A	S	G	F	D	C	E	V	T																						
UniRef90_C7Z9W5	G	I	V	R	G	A	L	A	A	L	G	I	N	T	V																								
UniRef90_M2LT53	G	V	I	R	G	A	L	S	G	F	G	M	E	V	T	V	E																						
UniRef90_M4G2Y3	G	I	V	R	G	A	L	A	A	M	G	I	T	A	T	V	H	A	E	T	T	E	L	P	G														
UniRef90_H0H153	G	I	I	R	G	V	L	S	S	L	G	Y	S	S	E	A	S	F	I	D	R	P	T	D	R	P	K	T	T	F									
UniRef90_I3KJV1	G	L	V	R	G	A	L	S	N	L	G	V	K	S	I	V	T																						
UniRef90_UPI00032B15CC	S	L	I	R	G	G	L	S	N	F	G	I	K	S	I	V	T																						
UniRef90_I1CIA8	G	I	I	R	G	A	L	A	S	L	G	V	P	S	V	T																							
UniRef90_T1JVG1	G	L	I	R	G	A	L	G	N	L	G	F	N	A	L	V	T																						
UniRef90_C7BVP9	G	A	L	R	G	A	L	A	N	L	N	V	Q	A	E	V	T																						
UniRef90_K1WXU7	G	V	I	R	G	A	L	A	S	M	G	I	N	A	T	V	Q	A	E	S	S	E	L	P	G														
UniRef90_G1XT68	G	V	I	R	G	A	L	S	A	M	G	V	N	A	Q	V	S																						
UniRef90_Q5AYY2	G	V	I	R	G	A	L	S	N	L	G	I	H	T	V	Q	A	E	T	T	E	L	P	G	A														
UniRef90_C1L411	G	L	L	K	G	A	L	G	S	L	G	L	N	C	I	V	T	A	E	C	E	Q	L																
UniRef90_T0R9T3	G	V	L	R	G	A	L	A	N	L	G	L	L	A	I	V																							
UniRef90_W5JQ82	G	L	V	R	G	S	L	A	N	L	G	I	T	S	T	V																							
UniRef90_F2QUF8	G	I	I	R	G	L	L	E	S	L	D	I	D	S	T	V																							
UniRef90_W4ZHN1	G	L	I	R	G	G	L	A	N	L	G	V	N	C	V	T																							
UniRef90_Q99394	G	I	I	R	G	V	L	S	S	L	G	Y	S	S	E																								
UniRef90_B9MZL8	G	I	I	R	G	A	L	S	N	L	G	I	P	C	A	V	S																						
UniRef90_H8XAY8	G	V	I	R	G	L	L	M	S	F	G	V	E	S	N	V	S																						
UniRef90_I2H1V3	G	I	I	K	G	V	L	V	S	F	G	Y	Q	C	S	A	S	F	I	D	R	P	T	G															

UniRef90_G8ZMF5
UniRef90_J7RXA7
UniRef90_T1JUZ1
UniRef90_G0R4L8
UniRef90_UPI0002C3F51F
UniRef90_K2SHS1
UniRef90_H2B1V9
UniRef90_Q5C1W7
UniRef90_G0V7A4
UniRef90_C4WU32
UniRef90_C6LSK5
UniRef90_A8BA91
UniRef90_J4C884
UniRef90_A7TDQ9
UniRef90_G3AVF7
UniRef90_V6M3T7
UniRef90_Q54TK7
UniRef90_C5MG52
UniRef90_B9WKA1
UniRef90_E0S9Z8
UniRef90_F4PUP7
UniRef90_A5E7B6
UniRef90_A3LWB7
UniRef90_Q6BKS7
UniRef90_I1ENL0
UniRef90_A9URR0
UniRef90_U6MGQ9
UniRef90_Q75BK6
UniRef90_H2XLK9
UniRef90_D2VAM4
UniRef90_Q8SU25
UniRef90_C4V8Y5
UniRef90_A5DAF5
UniRef90_R1CMU3
UniRef90_V3ZPA8
UniRef90_T5A407
UniRef90_G9NKV9
UniRef90_C4Y593
UniRef90_D3TRF6
UniRef90_I6NDN7
UniRef90_W5KJL1
UniRef90_E9FYX1
UniRef90_G8BPN1
UniRef90_G8B930
UniRef90_UPI0001CBABA1
UniRef90_R0MAS0
UniRef90_C7Z9W5
UniRef90_M2LT53
UniRef90_M4G2Y3
UniRef90_H0H153
UniRef90_I3KJV1
UniRef90_UPI00032B15CC
UniRef90_I1CIA8
UniRef90_T1JVG1
UniRef90_C7BVP9
UniRef90_K1WXU7
UniRef90_G1XT68
UniRef90_Q5AYY2
UniRef90_C1L411
UniRef90_T0R9T3
UniRef90_W5JQ82
UniRef90_F2QUF8
UniRef90_W4ZHN1
UniRef90_Q99394
UniRef90_B9MZL8
UniRef90_H8XAY8
UniRef90_I2H1V3
UniRef90_G0RJ43
UniRef90_H3CGW9
UniRef90_R7SJ69
UniRef90_Q8SWC2
UniRef90_L7JL10
UniRef90_T0MHQ3
UniRef90_L8FNC8
UniRef90_U4L5M6
UniRef90_UPI00021A4E7F
UniRef90_F7AB08
UniRef90_A1CM11
UniRef90_W6U9W1
UniRef90_F0XPM8
UniRef90_UPI0000D5686B
UniRef90_V5FW02
UniRef90_M2YLM3
UniRef90_C5DI52
UniRef90_B8ND03
UniRef90_E0V955
UniRef90_C0SCJ0
UniRef90_B4JU44
UniRef90_T2MB67
UniRef90_UPI0003F16647
UniRef90_UPI0004413BF6
UniRef90_S4BF93

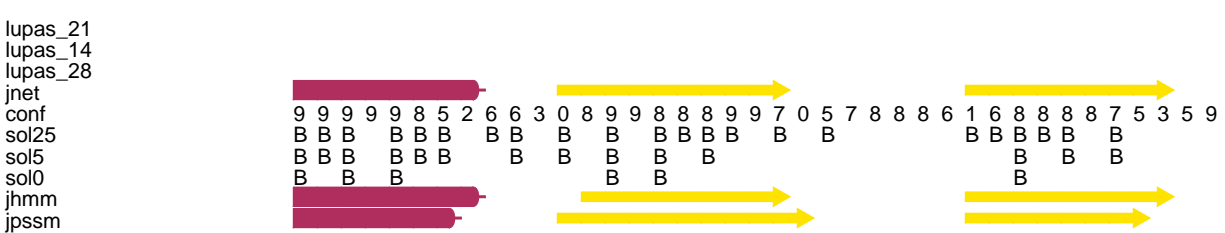
	50	60	70	80
UniRef90_D3BR33	H K L V E K L T I E	Q Q L L S E V L D V V K F I	C K V F W L A I F	K K S I D
UniRef90_K7J974	Y R I I E R L T R	E W P R F K D E L D A I K F I	C C T D F W T S L Y	H K K Q I D
UniRef90_F9X111	Q G L V E R F S	I N K P R P T T P L D A I K F I	C C K D L W L L I F	R K K Q I D
UniRef90_K1R003	Q S L V E R F T	K E S P R F K D E L D T M K F I	C K D F W N Y V	Y K K Q I D
UniRef90_G2X760	Q G L V E R F S	R D R P R F N D T L D V I K F L	C C K D L W S L V F	R R K Q V D
UniRef90_UPI00045445FA	Q S L A E R L P R E A G L F R E E	L D A L K F L	C C K E L W G A V F	R R K Q I D
UniRef90_G3VEG8	Q G L I E R F T	K D T A R F K D E L D T M K F I	C K D F W T T I	F K K Q I D
UniRef90_UPI000298C769	Q G L I E R M T R	D S P S F K D E L D I M K F I	C C K D F W T K V F	R R R Q V D
UniRef90_W6MK77	T K L A D C L I Y M K S D G N L Q I S L D I M K F I		C C R D V W K L L Y	S K Q M D
UniRef90_J4DP37	S R I V I S R Y E S D S N V G R I W D P N K C M I F I		C C R E L W L Y L	F G K Q A K
UniRef90_E5SJ80	L A L A E F L S M	D M L P L R A E I D V V K F L	C C K E F W C A I	F G K Q V N
UniRef90_H3CHX5	Q G L I E R I T R	D S P S F K D E L D I M K F I	C C K F W T K V F	R R R Q V D
UniRef90_B0YCS7	Q G L A E R F S	R D R P R F T D N L D V I K F L	C C K D L W T I L	F K K Q V D
UniRef90_F7DY97	Q G L I E R L T	K D S P S F K D D L E V V K F V	C C K D F W T I L	F K K Q I D
UniRef90_N1S7V8	Q G L V E R F S	R D R P R F N D T L D V I K F L	C C K D L W T L V F	G K N I D
UniRef90_B6AG61	I R F V E L S L E R S	R I T D Q K E L I K F M	C C K D L W N Y I	F L K Q A D
UniRef90_Q6CIU8	S K M T E L L I F S N N	P N N S M D T L E G M V R F I	C C K E V W K L L Y	G K Q I D
UniRef90_J9EFP6	F V L V E K I A K	D L P R L I T E L E R M K F L	C C K E F W T A V F	G R Q V D
UniRef90_I6ZH89	E R L A D D F F F T A S	P G K P M S L A E I S K D V S	E T F F P H Y	F S F R P T
UniRef90_B9REX0	H Q L A E R Y T M	E R P R F S D H L E A I K F I	C C K D F W S E V I	F K K Q I D
UniRef90_U9SP50	Q S L V E R F T	R D R P R F V D T L D V V K F L	C C K D L W S L I F	K K Q I D

lupas_21	[red bar]																																					
lupas_14	[red bar]																																					
lupas_28	[red bar]																																					
jnet	[red bar]																																					
conf	1	6	8	8	9	9	8	8	1	3	7	8	7	6	2	0	1	9	9	9	9	9	9	9	9	9	8	7	7	6	3	1	5	7	7	7	4	
sol25	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
sol5			B	B		B	B													B	B		B				B	B		B	B							
sol0			B																			B					B											
jhmm	[red bar]																																					
jpssm	[red bar]																																					


```

UniRef90_D3BR33      G L I K G A M A N F G Y K S T I T F
UniRef90_K7J974     G L L R G S L A N L G L A C T V
UniRef90_F9X111     G L I R G A L Q G L G M D V T I S A
UniRef90_K1R003     G M I R G A L S N L G V N C V V T
UniRef90_G2X760     G T L R G A L A A L G V D A T V Q A E T N E L
UniRef90_UPI00045445FA G L V R G A L S T L G V I E S V V T
UniRef90_G3VEG8     G L I R G G L S N L G I K S I V T
UniRef90_UPI000298C769 G V V R G A L C N L G L E S V V T
UniRef90_W6MK77     G I I R G L L F S L G L E A S V H
UniRef90_J4DP37     G V L R G A L K S L G F A C S V T
UniRef90_E5SJ80     G L I R G V L G D F G L N A A V
UniRef90_H3CHX5     G V V R G A L C N L G L E S V V T
UniRef90_B0YCS7     G I I R G A L S N M G I A T T V Q A E T S E L P G
UniRef90_F7DY97     G L I K G A L S N L G I S C T V S
UniRef90_N1S7V8     G V V R G A L A A L G I N T S V
UniRef90_B6AG61     G I I R G A L Q H L G L T C S V
UniRef90_Q6CIU8     G V I S G L L T S L G V P
UniRef90_J9EFP6     G I I R G A L Y N L G L T S L V T
UniRef90_I6ZH89     G I L K G V Y N H V
UniRef90_B9REX0     G I I R G A L S N L G L P C A V S
UniRef90_U9SP50     G L I R G A L A N L G

```



UniRef90_D3BR33
UniRef90_K7J974
UniRef90_F9X111
UniRef90_K1R003
UniRef90_G2X760
UniRef90_UPI00045445FA
UniRef90_G3VEG8
UniRef90_UPI000298C769
UniRef90_W6MK77
UniRef90_J4DP37
UniRef90_E5SJ80
UniRef90_H3CHX5
UniRef90_B0YCS7
UniRef90_F7DY97
UniRef90_N1S7V8
UniRef90_B6AG61
UniRef90_Q6CIU8
UniRef90_J9EFP6
UniRef90_I6ZH89
UniRef90_B9REX0
UniRef90_U9SP50

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm