

QUERY	1	10	20	30	40																																											
UniRef90_UPI000364AFC7	L	V	M	H	A	Q	V	Q	V	L	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI00046F9FED	I	M	R	A	Q	V	Q	V	L	I	R	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N
UniRef90_S9PD83	I	M	R	A	Q	V	Q	V	L	I	R	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N
UniRef90_M1PWU1	V	M	I	S	Q	I	Q	V	L	T	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_H1XYN7	I	L	I	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_W9AMB9	V	M	I	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_T0ZHU0	V	M	I	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI00036343F4	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_A1RYP8	L	M	I	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_Q8ETN4	L	M	I	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI00047B42E8	I	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_A0A024QFJ9	V	M	I	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_J3D5R1	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_Q5LL64	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_M5FFC2	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_A3I6B9	V	M	R	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_L0HLJ4	I	M	I	S	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_E1ICT3	L	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_G9YQN3	V	L	M	I	S	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N
UniRef90_F4BZ14	V	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI00047B42E8	I	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_I01982	V	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_H1S5X9	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI00041B8A04	I	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_V6M1Z7	I	M	R	G	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_E6N5L6	L	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_D6PBZ1	V	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_R6EIS6	V	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI0004773C4A	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_Q9C4N8	I	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_T0MQQ2	L	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_A0A011RRM2	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N		
UniRef90_F7Z1J5	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N		
UniRef90_T1BW25	I	L	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_B1L4D7	I	M	I	S	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI0003B4A07C	M	L	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_D1JD30	I	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI000225B6CC	I	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_A9B538	L	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_A3U2Z8	L	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_X0TVZ6	M	I	A	Q	I	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N		
UniRef90_T0ZQ29	V	L	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_U7UIK4	I	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_H6P909	I	M	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_UPI00037F42BB	M	I	L	I	G	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N
UniRef90_D5RPM6	L	M	I	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A	F	L	L	N	
UniRef90_W6WED0	V	M	R	A	Q	V	Q	V	L	V	G	L	G	L	T	S	D	P	L	N	A	R	L	L	S	L	R	R	K	E	E	I	I	E	L	L	A	N	R	K	D	D	A					

QUERY	50	60	70	80
UniRef90_UPI000364AFC7	K L G G G C K R D I	E E V H V F P F D T	P R R G G A M V V L	H L L V D V R D A M G A N T A V
UniRef90_UPI00046F9FED	K F F G G C C K R D	E E V H V F P P G D	T T S R R G G P M L	V V L H L L V D V R D A M G A N T A V
UniRef90_S9PD83	K R R G G G C K D I	E E V R V V L P G P	R S R G E P L V V V	H L L V I D T Q D A M G A N T I
UniRef90_M1PWU1	E H G G G G V R D D	R R V C R V L R D S	N Y G P Y L I V V	H L L V D C R D A M G A N A V
UniRef90_H1XYN7	A R G G G G A Q D L	E E V R R I L S D S	S S Y G D M L V V	H L L V D T R D A M G A N L V
UniRef90_W9AMB9	A R G G G G A E D L	E E V R I L L S S A	S Y G K M L V V	H L Y V N T C R D A M G A N L I
UniRef90_T0ZHU0	K F G G G G A K D L	E E V R R L V F S S	S S R G P M V V V	H L L V D A R D A G G M N A V
UniRef90_UPI00036343F4	G L G G G G C A R D	E E V H V F Q P R G	P G A M V V A H L	L V D V R D A M G A N T A V
UniRef90_A1RYP8	K F G G G G A R D L	E E A R V V V E S T	P R G M L I V H L	L V D V R D A M G A N T A V
UniRef90_Q8ETN4	K R G G G G T R D D	L D V R I L A N S T	Y S Q M L V M H I	Y V D T C R D A M G A N M I
UniRef90_UPI00047B42E8	S L G G G G C Q A R	D L V E V R I L F E	N S P A Y Q M V V	L H L L V D V R D A M G A N T V
UniRef90_A0A024QFJ9	A R G G G G A E D I	R I L F E N S S S	S Y Q Q M L V L	H L Y I N T C R D A M G A N L I
UniRef90_J3D5R1	S L G G G G C K D I	E E V H V F P D T T	P R G G A M V I V	H L L V D V R D A M G A N T V
UniRef90_Q5LL64	G L G G G G C C R E	I E E V Q V F F R E	D T P V G G P M V	V L H L L V D V R D A M G A N T V
UniRef90_M5FFC2	G L G G G G C C R E	I E E V Q V F F R E	D T P V G G P M V	V L H L L V D V R D A M G A N T V
UniRef90_A3I6B9	K L G G G G V K D I	V E E V H L I T D T	A K E T M V V V	H L L V D T K D A M G A N A V
UniRef90_L0HLJ4	K V L G G G C R A R	D I E E V R I L F	D S P K M G P M L	I V H I H V D V R D A M G A N A V
UniRef90_E1ICT3	T L G G G G A K D I	V E E V H I F P T S	P M G P M L V V	H L L V D C R D A M G A N A I
UniRef90_G9YQN3	K L G G G G V K D I	V E E V R V L D S	L V G P M V V V	H L L V D T G D A M G A N A V
UniRef90_F4BZ14	K Y G G G G V K D I	V E E V Y V L D S	R L G P M V V T	H L L V D C R D A M G A N A V
UniRef90_I01982	A R G G G G P L D I	E E V R Y L P D T	L T E P M L V V	H L L F D T L R D A M G A N A V
UniRef90_H1S5X9	G L G G G G C K D I	E E V H V F P D T T	P R G G A M V I V	H L L V D V R D A M G A N T V
UniRef90_UPI00041B8A04	A R G G G G A R G L	D V R I L P N S D	Y G K M L V L H M	Y V D T C R D A M G A N L I
UniRef90_V6M1Z7	S L G G G G A I D V	E E V H V M E R S	K E P M V L V L	H L L V D T R D A M G A N A V
UniRef90_E6N5L6	N L G G G G A K D I	V E E A R V L E T	E L G P M V V V	H L L V D V R D A M G A N A V
UniRef90_D6PBZ1	K F F G G G C K A R	D I E E V R V L D S	Q T G P M V I T	H L L V D C R D A M G A N A V
UniRef90_R6EIS6	K F G G G G A K D I	V E E V R V I D T	L A G P M V I T	H L L V D T L R D A M G A N A V
UniRef90_UPI0004773C4A	E R G G G G C R E I	V E E V H V L A D	G A R A P M L V	V H L L V D V R D A M G A N T L
UniRef90_Q9C4N8	K L G G G G C K D I	E E A R V I D T	L K G P M L V V	H L L V D V R D A M G A N A V
UniRef90_T0MQQ2	K V G G G G A K D I	E E A R V I D E	L K E P M V V V	H L L V D V R D A M G A N A V
UniRef90_A0A011RRM2	K R G G G G A R D L	E E V R Q L H D E	N L P S F L S V	H V H V D T Q E A M G A N I I
UniRef90_F7Z1J5	K R G G G G A R K L	E E V R L I S P A	D E K A G F F V	H L H I D T R E A M G A N L I
UniRef90_T1BW25	A R G G G G A K D L	E E V R W I V S P	T E F G K D M V	V V L H L L V D T C R D A M G A N L V
UniRef90_B1L4D7	R L G G G G A R D L	E E V R V V G T	E A G P M L I V	H L L V D T L R D A M G A N T V
UniRef90_UPI0003B4A07C	A R G G G G A R D L	E E H L H P R T	P D R G D M M V	L H L L V D T C R D A M G A N L V
UniRef90_D1JD30	S L G G G G A K D I	V E E V I L N D	S P A G P M V I	V H L L V N V K D A M G A N A V
UniRef90_UPI000225B6CC	K R G G G G A T D L	D V E R I L N D S	P N G K M L V L	H L Y I N T C R D A M G A N I I
UniRef90_A9B538	A L G G G G C K D I	V E H S F P P A S	A M G P M L V V	H L L V D C L R D A M G A N A I
UniRef90_A3U2Z8	G L G G G G C K G I	E E V E V F P P S	A I G P M V V L	H L L V D V R D A M G A N T V
UniRef90_X0TVZ6	H L G G G G A R D L	E I R T L H A D T	P V G S M L V V	H L L Y D T R D A M G A N V V
UniRef90_T0ZQ29	A R G G G G A Q D M	E H L H A R A E	G G D M L V V H	L L V D T R D A M G A N L V
UniRef90_U7UIK4	K I T G G G A K D I	N V R V V D S I	I G P M V V V H	L L V D T G D A M G A N A V
UniRef90_H6P909	K R G G G G A R E L	S I D E K D D D	F L I V Y L T V	D T Q E A M G A N M V
UniRef90_UPI00037F42BB	K R G G G G A R T L	R V E V I J A N T	S T Q G G P L V	V Y L E I V D P Q E A M G A N M V
UniRef90_D5RPM6	R L G G G G F R D L	E V V I J A N T	S T Q G G P M V	V T H L L V D T R D A M G A N T V
UniRef90_W6WED0	S L G G G G C R D I	V E H V F D D T	P I G G P M L A	A H L L V D V R D A M G A N T V
UniRef90_W9GVK6	K F G G G G F R D L	E V R V L D A	L S G P M L T H	L L V D T R D A M G A N A V
UniRef90_A9HWZ9	K L G G G G L Q D V	E V R I V D A	A G G P M V T H	L L V D T R D A M G A N A V
UniRef90_B3TAJ3	K F G G G G C R D V	Q A R I I I E T	E S G P M V I V	H L L V D C R D A M G A N A V
UniRef90_E3YX47	K R G G G G A V D L	Q V R T A K T A	S E E T L F I V	H L L V D T Q E A M G A N M V
UniRef90_K0J479	K R G G G G A Q K I	D L R W I D K D	D E P P F L V I	H L H V D T Q E A M G A N M I
UniRef90_UPI0004765A90	E L G G G G A R D L	T R V L D T	V A G T H V V A	H L T V D V R D A M G A N A V
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UniRef90_UPI00039E42AB	S K G G G G Y R D V	E V R V L T G	R S G P M V I I	H L I I D T R D A M G A N A V
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UniRef90_A0B7Q0	R L G G G G A V G L	E V R I V H I	D S R A G P M L	V H L L V D C R D A M G A N A V
UniRef90_UPI00026263F0	N R G G G G A E D L	E V R I L N E	S R A G S Q M L	I V H L Y V N T C R D A M G A N I
UniRef90_I4MH15	K L G G G G F R E L	E V R V L N E	T R G G P M V I	T H I V D T R D A M G A N A V
UniRef90_U2S9T3	K R G G G G A R E L	V E R K V L N E	D D V T F V V Y	L I V D T L E A M G A N M L
UniRef90_L7UCB2	D E G G G G A R D V	E V R L L P A	P E M E P L L	V V H L L V D T K E A M G A H L
UniRef90_U2ER68	A R G G G G A R E I	V E H T H G S T	A H G E M L V V	H L L V D T R D A M G A N L V
UniRef90_UPI000361B9E0	K R G G G G A R E V	K A E I K D N	F I I V Y L T V	D T Q E A M G A N M V
UniRef90_X0XI55	E L G G G G A F D F	E I R E L S T R	R R G D M I L	H L L V N V L R D A M G A N V V
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UniRef90_N9DKZ8	S L G G G G C K D I	E V H L F E S T	T K V G P M A V	M H L L V N V C R D A M G A N T V
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UniRef90_M7U464	D L G G G G A K E L	E V R I L D S	P L G K M I I A	H L I V D V R D A M G A N A V
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UniRef90_UPI000474A9D6	K H G G G G F R D L	E V R I V M V I	V H L L V D V R	D A M G A N A V
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UniRef90_A3CKT9 MI G Q I A L Y D V D N A F E R A K D I L M K K K E L L E Q A N Q S Y S R T L S V
UniRef90_T0NFF4 MI G Q V A Q L M G C G D D F E K V R E A I E E H K K G E I L L D L A N D A H P P S I V V
UniRef90_C7N9C7 MI G Q V A L Y D I L D F E N A I S M I L E N K N E I L K I A N D A H P P S I V V
UniRef90_D4JAG0 MI G Q I Q M L N I L E N P E T A R L K L L L E N K K R D I L E A A N A K V D P S I V V
UniRef90_U5SDX1 MI G Q V A L K N I P D P S T A R K I N L L T N H K K D I L L K K A N A H P P S I V V
UniRef90_E0SR07 MI G Q I H I L N P K S P Y T A I N E I L L H K E E I L E A A N A T N N T L R K V V
UniRef90_W7BLC9 MI G Q I A L Y S G V I Q N G K E A S G A I L G A K E S L L T L A N E A H P P S I K M V
UniRef90_G5K3J5 MI L G Q V A L Y D I K A M E K A K Q A I L S H Q K E S L L S Q A N E A Y P P S I M V
UniRef90_W7B2J8 MT G Q I E L C G I K D V K K S R A A I L A Q K T F L L F L A N S A Y P P S I Q V
UniRef90_S0NZD7 MI L R G Q I V F M D V T D P A Q A I R Q K I E D N Q T F L F E T A Q N A S Y P P S I V V
UniRef90_K9EVF5 MI M G Q V V I A G S T K D P A Q A I R Q K I L S H Q Q Q D L L D L A N A V Y P P S I G
UniRef90_D0LV67 MI G Q V Q I V S V P D P D A A C A E I T A A E R E D L L Q R A K S L V P P R L V V
UniRef90_UPI00035D64B0 MI G Q V A L Y N V A E P Q V A Q K N I E Q Q E A T L L S L A N Q A H P P S I V V
UniRef90_UPI00037DD29E MI L M G Q V A L Y D V P D L S E A L Y Q I A Q H E Q D I L L S L A N D A H P P S I V V
UniRef90_X1BK12 MI S Q I Q L T H I Q D D I N R A K Q E L L T N K E K I L E L A N E Q D P P L L N V
UniRef90_I7LZN5 MI G Q I Q L L Q V P D P L Q V Q Y K L D Q N K E K I L S Y A N E S I C Q P T M V V
UniRef90_UPI000366181B MI G Q I A L L D V P D M D Y A V K I L N A N K E E L L N E Q A N E S I R P S I V V
UniRef90_T0ZI63 MI G Q I Q I L D L D S P E S A A I R I L Q N K E T I L K A N E K S K T L R V V
UniRef90_W7CG13 MI G Q L I F T D V S D Y E A A L L V Q E K E A A L L E I A N T A Q P P S I V V
UniRef90_E5V4M8 MI G H I A L Y D I N D V E A T C N L I L D N K E L L L K T A N E A Y P P S I V V
UniRef90_H7F7E5 MI M V G Q L A V Y G V L N F E T A K Q T I T E H Q T F L L D V A N A A Y P P S L L V
UniRef90_S9R1C5 MI L T I A Q V Q L C G L S P P Q R A R L E I L G R A E E L R A M C D E A V D P Q L T V
UniRef90_UPI0003B3E79E MI M G Q I Q L V G V P E L P R A V L K A I S A S R A E D L L D Q V R A L N P P V L V V
UniRef90_W7D5R7 MI G Q L I F T D I N D F E A A L A L I H E R E T A L F E V A N N A H P S I I V
UniRef90_G4L2M2 R G Q I V L M N V T D K S T V L E Q I E K H E A E S I T S T A E N Q S Y P S I V V
UniRef90_F5ZHS1 MI G Q V A L Y D V P N L E S A Q A A I M H E T E S L I E K A N L A J S Y P S I V V
UniRef90_S4XIK1 MI M T A Q V Q L D D V P D P E A A A G R L E A A R A S L L A A G D A A P P R M V V
UniRef90_Q9HL34 MI M I G Q I Q V L D V P A P Y S A K I A L L E S K Q K I L D M A N T R S K T L S V
UniRef90_UPI00036E8B0F MI L V G G E L A F F D V K D S A A A S Q V L L M Q H T E E I I Q L E A N A S H P P S I V V
UniRef90_Q1WV78 MI M L G Q V I V E K I E D V D K F E D D I L K N E D E L L E I A N Q A H P S I V V
UniRef90_D0GIz6 MT G Q V V L Y D V N D L N T A T E N I E K A N K D L L K I L A N E A H P S I V V
UniRef90_R2QYY7 MI L R G Q I V F M N V S D Q T P I L E K I E Q A T Q D I F E Q A E K S Y P S I V V
UniRef90_UPI00036A0CD1 MI G Q V A L Y D V P D F N K A Q A S I Q A A A S Y L M E M A N Q A Y P S I V V
UniRef90_K8Z9Q1 T G E V V L T N I P D L A T A I Q T L E S H R E E I I E E T N Q A Y H P S I V V
UniRef90_G5KFG9 MI M G Q V A L Y H C D D L V K S K M A I K E A E K L L L D I A N Q A Y P S I V V
UniRef90_Q979G8 MI M I G E I Q V L G I D S L Y L A K M N I L R D K S R I L L E L A N T R S K T L S V
UniRef90_T0YEU3 V M L G Q V S L V G V S D P H A A R L R I L A A R E E L L K I A N E K D P L L N V
UniRef90_UPI00036FE26B V M G Q I V L S H V A D R T G V K A W L J A H Q E E L L K V A N E V H P S I I V
UniRef90_UPI000469369D L M M G Q V V L E N V D D A K I L V N Q L Q T Q I S T L I E V A N A H P P S I V V
UniRef90_Q835L3 L M R G Q I V F Y D V A D P E S L I D K L Q V R E A E V F E Q Q A E L R A S Y P S I V V
UniRef90_J1F5Q6 MI M G Q I L L E N V E D S K K L L E I K E L T K N L S V L A N E A Y P S I V K
UniRef90_UPI00037FEF4E MT G Q I A F A N P V N Q M A M V Q Y I D E H R D V L F Q I A R E A Y P S I I V
UniRef90_U2PHG2 MI M G Q I V F S H V T D Q A H I R D W I M A H E S R L L E V A N A H P P S I V V
UniRef90_D7UU65 LR G Q I V L M N V K E P A T I E H T I T A E K A A L F R A A Q A S H P S I V V
UniRef90_A6G140 MI A Q I Q L V Q G K S Q A E V I A A I E G A K A E L L F R A M G D E A H P P R L V V
UniRef90_S0K220 L M R G Q I V L T G K S E Y Q A L I E A I D T R K D E L F L C A N A S Y P S I V V
UniRef90_W1Q4B2 LI G Q I V L T D I E D L T A A L E Q V I V Q K D R W L D L A N A A C P S M V V
UniRef90_X0XDQ2 MI G Q I V L T D I E D L T A A L E Q V I V Q K D R W L D L A N A E T D P V V V V
UniRef90_V5XNG5 L M R G Q I V L T G R C D Y R K I A K E V I E A R F D K P E L V T C A N E A S Y P S I V V
UniRef90_H0DEB7 L M I G Q I V F D G V E D T E K I A L A E Q I E A R F D K P E Q Q I L K Q L A D E A Y P P S I L V
UniRef90_A0A017T1A9 MI M A Q Q I E V H D V T D P E G A L A G R L R E A Q Q G E L L A A N S A V P G L V V
UniRef90_T0N0S9 M M I G Q I Q I T E V P D I M G S A I K V I E E G K S Q I L L T L A N S V S K T L R P
UniRef90_UPI000381A3B0 I G Q I Q I V N V D V O G S A L P K I I I G A S T E L L L A N S V S K T L L P
UniRef90_T0LV44 I M Y G Q I Q L T N L D D I G K A K T E I L M E R E N L L R I L A N E A S R T L S V
UniRef90_E6LF62 L L R G Q I I F T Q V A S L Q S F V Q A L E A R K S A H F Y Q I L A N E A Y P S I V V
UniRef90_K8E6Y0 MI G Q L I F Q N L V D V L A E V K L V Q A R S A I I E I L A N E A Y P S I V V
UniRef90_R3TNL2 MR G Q I V F R N V K K E E L Q T A L L E K Q T A I F S L A N E S Y P S I V V
UniRef90_K0B7R6 MI G Q I Q V L G A N D Y D A T S K I K E N T K D I L D L A N S K S N T L S V
UniRef90_UPI0002490627 L M I G Q V I N Q V E A N D Y S A V K S W F T S N Q A H I L E I A N A H P S M K
UniRef90_A0A023D0H1 L M I G Q I L L E N C E N Y A E V C Q R I E E K K A A I L E V A N K A H Y S I V V

	50	60	70	80
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UniRef90_F3L7B6	K R G G G G A C D L	H V I K L P S S Q	K E S L L I V Y L M V	D T Q E A M G A N M V
UniRef90_F8DKA2	K R G G G G A R D L	W V R L V V T E N K	G D F L I V Y L M V	D T Q E A M G A N M L
UniRef90_UPI00045E8902	S L G G G G A R D L	E V R L L D T E P N	S G T M V V T H L I	V D T R K D A M G A N A V
UniRef90_U2SMB2	A R G G G G A R N I	E V K I L L K E G D T	S F L V V Y L T A V	D V K E A M G A N I L
UniRef90_UPI00034B16E2	K R G G G G A R A V	T T A L K E D	E F L I V Y L S V	D T Q E A M G A N M L
UniRef90_UPI00037D78AF	K R G G G G A R D I	R V R T V Q T H D G	A E F L I V Y L Y V	D T Q E A M G A N M M
UniRef90_H3NG72	K R G G G G A R R I	R V R T V Q T H D G	A E F L I V Y L Y V	D T Q E A M G A N M M
UniRef90_C5BPY7	A R G G G G L R D I	S F H H H D G E H S	K G R M L V V H L H I	D T Q E A M G A N M V
UniRef90_B9DU68	K R G G G G A R R E L	S A Q I L	K D Q F L I Y M T V	D T Q E A M G A N M V
UniRef90_UPI0003657D22	K R G G G G A R N L	W L E Q	K E N F L I T Y V S V	D T Q E A M G A N M V
UniRef90_J3JP91	K R G G G G A R D L	T A E I L K E D	F L I V Y L T V	D T Q E A M G A N M V
UniRef90_UPI00035F9B0C	S F G G G G V R D L	K V R T V E G H T	G R Y V V A H L V V	D V R D A M G A N A V
UniRef90_U5P557	K R G G G G A R D L	W I E E	K G D F L I V Y L S V	D V K E A M G A N M L
UniRef90_UPI00036077B1	K R G G G G A R K I	Q V R E E K D E	F L I V Y L S V	D V K E A M G A N I L
UniRef90_D3UL93	R R G G G G A V D L	V A R T V T T M Q E	D E L L I V Y L L V	D T K E A M G A N M I
UniRef90_A0A023VKN9	K R G G G G A R R I	K V D I L K E D	F L L V Y M T V	D T Q E A M G A N M V
UniRef90_T0UZE2	K R G G G G P R K L	W T D I	K G D F L I V Y L A V	D T Q E A M G A N M V
UniRef90_D5U0F8	K Y G G G G P R D L	E V R V I D S R R M	G P V I V V H L I V	D V R D A M G A N T V
UniRef90_E8UP48	K R G G G G A R E L	D S R M G P V I V V	H L I V Q V D V	Q E A M G A N I L
UniRef90_H5XNK4	E L G G G G V R D L	T V R L V P S R A G	T Y V V A H L H I	D V R D A M G A N A V
UniRef90_D2RDY4	K L G G G G C K D L	T V R V F D	N M I V V H L I	D V K D A M G A N F I
UniRef90_F3A8T4	Q R G G G G A K D I	D I R V L T E D	G T T F V V V Y L I	V D T L E A M G A N M L
UniRef90_A3DKY1	K L G G G G P R D L	E V R V L N T R I G	P V I V V H L I V	D V L D A M G A N A V
UniRef90_F4BNC7	K R G G G G A T D L	F I R V I E A D N E	A E F L M V H L H I	V S T L E A M G A N I
UniRef90_F2IY57	K V G G G G F R D L	D V R V V D S A N E	G P M T I V H L I V	D T R D A M G A N A V
UniRef90_X0SUF8	E L G G G G A L D I	E I R D L D T K R N E	N L I V H L K V	N T L D A M G A N V V
UniRef90_U2JK62	N L G G G G A V D V	D V R V M K T P K	K N E N L I V H L I	K V N T L D A M G A N A V
UniRef90_A2RF22	K R G G G G A R T I	H L E E	E R K G E F L I F Y L	T V D T Q E A M G A N M V
UniRef90_B4U365	K R G G G G A K S L	T V	E R K E D F F L V Y L	S V D T Q E A M G A N I V
UniRef90_V7HY74	K R G G G G A R F L	E V R I L S E S E	R G L L S L D L	A V D V Q E A M G A N M L
UniRef90_M0CKL5	S H G G G G C E D V	T V R V V D T P	A G E T V V V H L I	V D V R D A M G A N A V
UniRef90_A3CKT9	A R G G G G A R D L	W L	E P K E D F L I F Y L	S V D T Q E A M G A N M L
UniRef90_T0NFF4	S M K A G A R D L	E V R K I N D E	P E G S I V L H L K V	D V R D A M G A N V V
UniRef90_C7N9C7	A R G G G G A I N I	E V K N I N D E	F L I V Y L I A	D V K E A M G A N I L
UniRef90_D4JAG0	S F G G G G C T D V	E V R T I E Q T	M T G Q M V I I H L I	N V C A D A M G A N Q A I
UniRef90_U5SDX1	N R G G G G A K D I	S I R V I E Q T	E M T A E F L I V H L I	H I A T M E A M G A N I
UniRef90_E0SR07	K L G G G G A K D I	E V R I V I E T	R R G I S I I V H L I	V D V L D A M G A N T V
UniRef90_W7BLC9	K R G G G G A A D I	T V R E V K T P Q E	N L L V V H L A V	N T L D A M G A N M I
UniRef90_G5K3J5	K R G G G G A R T L	H V R E E K D D	F L I V Y L A I	D T Q E A M G A N M V
UniRef90_W7B2J8	K R G G G G A V D L	T V R E V K T V R	E T L L V V H L I	S V E T L E A M G A N M I
UniRef90_S0NZD7	K R G G G G L R E I	Q V R A F P E N D	P K F L S V D L L V	D T Q E A M G A N I L
UniRef90_K9EVF5	K R G G G G A R G I	Q V K Q F D S E	N D D M G S Y L A V	Y L T V D C Q R D A M G A N I
UniRef90_D0LV67	E R G G G G P V D V	Q A R V L P D E	P D G G M I V H L H V	D C Q R D A M G A N T V
UniRef90_UPI00035D64B0	K R G G G G A R T L	R T E I V K E D	K D Q F L I V Y L S V	D V K E A M G A N I L
UniRef90_UPI00037DD29E	K R G G G G A R Y L	R T E I V K E D	F L I V Y L H A	D V Q E A M G A N I L
UniRef90_X1BK12	K L G G G G A I D L	E V R E I E T R	K G K M I I L H L I	L V D V L D A M G A N V V
UniRef90_I7LZN5	N R G G G G V K D L	K V K I L N A T	D K D E M V V D L H I	N V C A D A M G A N I V
UniRef90_UPI000366181B	K R G G G G A K D L	F V R V I E T A K T	P P F L V I H L Q I	E T L E A M G A N I I
UniRef90_T0ZI63	E N G A G A K D I	E I R I I G N E Q R	P M L I V H L I	V D V M D A M G A N I V
UniRef90_W7CG13	K R G G G G L R R I	E T R I I T D D D H	Q P Y F T V H L I	V D V Q E A M G A N M M
UniRef90_E5V4M8	K R G G G G A C D L	E V K V L T E D N T	S F V V A Y L I	V D T L E A M G A N M L
UniRef90_H7F7E5	K R G G G G A R E L	T V R E V E T T E E	T F V V H L H V	E T L E A M G A N M I
UniRef90_S9R1C5	E L G G G G L R D L	E V R L L N T R	A G D M V V V H L V	V D T R D A M G A N A V
UniRef90_UPI0003B3E79E	S A G G G G P V E I	K T R I F D S P I G	P F L V V Y L E M	N V A D A M G A N A I
UniRef90_W7D5R7	K R G G G G L K R I	E T R I I T D E D N	K T Y L T L H L V I	D V Q E A M G A N M I
UniRef90_G4L2M2	K R G G G G V K R V	V V R E F A E T P	N F L S V D L I	V D T Q E A M G A N M L
UniRef90_F5ZHS1	K R G G G G A R R I	S L T I K D Q	F L I V Y L T V	D T Q E A M G A N M V
UniRef90_S4XIK1	A R G G G G C R D L	E V R V L S A E L G	V L V V H L Y V	E V G D A M G A N L V
UniRef90_Q9HL34	S M N A G A R D L	E V E I F E Y P Y R	M M I V H L I V	D V R D A M G A N V I
UniRef90_UPI00036E8B0F	S R G G G G A R E V	K V R I L P A D K T	P E L L V M H L H V	D T L E A M G A N I V
UniRef90_Q1WV78	R R G G G G A R W I	R V R K L D K S I T	A D S I D L A V	D V Q E A M G A N M L
UniRef90_D0GIZ6	V R G G G G A E D I	K V Q A F S E D I T	A D F L T V Y L T A	D V K E A M G A N I I
UniRef90_R2QYY7	K R G G G G L K R I	Q V R D F L E D	A D S F L S V D L L V	D T K D A M G A N I L
UniRef90_UPI00036A0CD1	K R G G G G A K Y I	E A Q V L T K N S S	H E F L T V L F I	D T K E A M G A N I V
UniRef90_K8Z9Q1	E R G G G G V K N I	Q V L T K N S S	H E F L T V L F I	D T K E A M G A N I V
UniRef90_G5KFG9	K R G G G G A K S L	W T E E K D E	F L I V Y L L S V	D T Q E A M G A N M L
UniRef90_Q979G8	S L G A G A K D I	E V N V Y E R P H R	P M L I V H L I	V D V R D A M G A N V V
UniRef90_T0YEU3	R V G G G G A R E L	E V H L R S T A R G	P L L V H L L V	D V R D A M G A N A V
UniRef90_UPI00036FE26B	G H G G G G A R S L	E I R C I P S T A R G	P Y W M S L D L	F I D V G E A M G A N L V
UniRef90_UPI000469369D	K R G G G G A R E I	E F R I L L A P	D M V S V D L F V	D V Q E A M G A N I L
UniRef90_Q835L3	K R G G G G L R D L	Q Y R T F D E S	F V S V D F L V	D V K D A M G A N I V
UniRef90_J1F5Q6	R R G G G G A R W L	K T R I L L A K	D L V A I D I A I	D V Q E A M G A N M I
UniRef90_UPI00037FEF4E	Q R G G G G L R H I	H T A Y I H K P	D K T P F L V V Y C	T I D T R E A M G A N M I
UniRef90_U2PHG2	T H G G G G A R S I	R V R C L P D P	P D W V S L D L	F I D V G E A M G A N I V
UniRef90_D7UU65	K R G G G G L K E I	V V R T F D D D P	T F L S I D L I	V D T K D A M G A N I I
UniRef90_A6G140	A R G G G G S R D V	E V R R L D E D T	L V V H V L V D	C Q R D A M G A N I I
UniRef90_S0K220	K R G G G G V R D I	S T R E F M G S D H	A Y V S I D F L I	D V K D A M G A N I V
UniRef90_W1Q4B2	A R G G G G P C D L	W A D S Y G D D Q	G D F L C Y L S L	D P C D A M G A N V M
UniRef90_X0XDQ2	S L G G G G A R D L	E V R V F A E T P	A G P M L T V H L L Y	D T R D A M G A N T V
UniRef90_V5XNG5	K R G G G G V R E L	S T R E F M G S	E H A Y L S L D F L V	D V K D A M G A N I I
UniRef90_H0DEB7	K R G G G G Y R R F	E I D T F M P S	E Q Q L L S L K I F V	D T K D A M G A N M L
UniRef90_A0A017T1A9	E R G G G G A Q E V	E C R S L G D G	F V V V H V L V	C C D A M G A N L L
UniRef90_T0N0S9	E M K K G A V D L	E I R I L P	V L K K T I I V	H L M V D V G A M G A N V I
UniRef90_UPI000381A3B0	K M G K G A K E V S	C K D I Q T D S	G H M L I V E H L I	D V G D A M G A N V T
UniRef90_T0LV44	K L G K G A R E I	T F H N V K Y D	E H V L I I H L E I	D T G D A M G A N I I
UniRef90_E6LF62	V R G G G G V R K I	E V R T F A N T R	D E V S L D V F M	D T Q E A M G A N M L
UniRef90_K8E6Y0	K R G G G V K R V	E T R V I L N E N S	E P F L T V H L I	D V Q E A M G A N M I
UniRef90_R3TNL2	K R G G G G L H K I	D T R V F R K E E	Q T F V S L D V L V	D V K D A M G A N I V
UniRef90_K0B7R6	K M G K G A K E I	T C K K L D T D	F E P M L I V E L L I	D V G D A M G A N V T
UniRef90_UPI0002490627	K R G G G G A R N L	R L R S L K D	N Y L S V D L S I	D T V D S M G A N V V
UniRef90_A0A023D0H1	K R G G G G A R W L	R C R Q L A D	D L M S I D M A V	D V Q E A M G A N M L

UniRef90_R2PCE0 1 M I G Q I V L R N V T E F E K L K G 20 I N E N K P A L F E A A E R S Y P S S L Y 40
UniRef90_D8IGL2 L V G Q V V L R N V D F G A T K D W L N D H Q A P E L L A V A A N D S A H P S S M Q
UniRef90_UPI0003B3C4F4 I M L G G H I T F V N Q L V S D D P E T F R S E Q V L S Q R H K S A D E L L A Q L A A N E S A H P S S L V
UniRef90_G7WPN9 V M R A L L I Q V N G L S D D P W G T F R S E A I L I Q Y K E T E Q L F A D T A K E A Y P S S L V
UniRef90_F3YCT6 M I G Q I V L K N V T D D Y A K T R Q E K I L I Q Y K E T E Q L F A D T A K E A Y P S S L V
UniRef90_H3RMX6 M L G Q V V L K N V A D D P A A F L Q N K Q W L L E H H R D E L F A V A N A A Y P S S M Q
UniRef90_R2QN15 M V G Q V V L L Q E V S A D T A F L Q Q W V K A H H R D E L F A V A Q L J A Y P S S L Y
UniRef90_F4PDD0 I I F A Q I Q L L D V D I D R V I T Q Q I Q F E K D T I L A I A N E Y C S S S M Y
UniRef90_R2S212 L M R G Q I V L T G Q T I D D Q A F L Q T I E A K K A E S L I N R G N Q S Y C A N M V
UniRef90_A0CL55 V M M G Q I Q L L N V T E N Y S K A E C L I D S N K V S L I N R G N Q S Y C A N M V
UniRef90_S1N8T2 L M R G Q I V F Y D V K D I E T L E R N W L E D N Q S L L I K V A N D S Y P S S L V
UniRef90_UPI0003B6A569 L V R G Q I V V I N I D D L K K L E R F V S E H K E Q L L I K V A N D S Y P S S M R
UniRef90_R3W783 L M R G Q I V F Y D V P D A A Q L M Q V I Q E N Q A G I F R A A E E A Y P S S I T
UniRef90_K2PGA1 L M R G Q I V F M D V S E Q P N E K A E Q L L E E K E A Q S L H F I A N D T A Y P S S L V
UniRef90_B9DLB2 L M I G Q I V F M D V S E Q P N E K A E Q L L E E K E A Q S L H F I A N D T A Y P S S L V
UniRef90_C8NEY9 M I G E I A I V N S P T L E E V K A K L E E K E S L I F T I A N D A H P S S L V
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UniRef90_K2BPQ3 I I G Q I Q F A K I C N F E K F E A I N T N K T Y L I N R A N E S V A S S N M L
UniRef90_D1AVI3 L I I G Q I A I Y D V K E D F E K A K N Q I Y S K K D R L L K I A N D S Q K S L V
UniRef90_H4GIR6 I I G Q V V L E K V K D P A A V A A M V T K H A S T L L T E L A N E S A H P S S L Q
UniRef90_S4E2H0 L M R G Q I V L T G D A V Y S E V I Q A V E E R K E E L F E A A A K S Y P S S I T
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UniRef90_W0BHG7 G Q I Q L A N I R N F E K R L S A V F V E N K Q S F I E K A N E S V A A N M V
UniRef90_G2PKU9 V G Q V H F I Y K G D K K K L S D F F T L L K P K L L K S V S I T Q S M E
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UniRef90_A8DWT4 I I G Q V H F L F N G E P E K L E L F F N R I K P K F F T E T A S F T K N M Q
UniRef90_I3C2V0 I I G Q V H F M Y H G D A S K L K S F F T E V E P K L Y K A T E T I T E N M R
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UniRef90_UPI000425B96A I I G Q V H F I Y K G E K S K A L A F F N Q T K S K F F D E T N G I T S N M Q
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UniRef90_I0C7N4 I M I G Q I V F D G V D D T E K L S A D I K A L E K Q I H K I A D E A Y P S I K
UniRef90_H3GW75 I M T S Q I Q L V G T E D I P A A I A A I E H N R R E R L L S I A N T L C C P N M K
UniRef90_K3WX58 I M T S Q I Q L V D T P D I E T A V K A I A D N R E R L L A F A N S L C P N M K
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UniRef90_S0KQV4 R G Q I V V A D L T A A E E I T Q W L I A H E Q E L I Q V A N D A Y P S I V

	50	60	70	80
UniRef90_R2PCE0	Q R G G G L Q S I	K V R I F	E E G Y L S I	D L V V N T K D A M G A N I L
UniRef90_D8IGL2	K R G A G A K G I	R V R I F	E P P F V S L	D L L I D V S E A M G A N S V
UniRef90_UPI0003B3C4F4	S R G G G P I G L	F L V K P F P	E N F T S V V	Y L L T V D T K D A M G A N M I
UniRef90_G7WPN9	S H G G G V V G L	V E A E V V E T R	K G P M V V V	H L L V D C R K D A M G A N A V
UniRef90_F3YCT6	Q R G G G L K D I	L K I R T F K D	Q N Y L S I V	D L S V D V K D A M G A N I L
UniRef90_H3RMY6	R R G G G A K R I	R I R	P A A P F V S I	D L L I V G V R D A M G A N T V
UniRef90_R2QNI5	Q R G G G L K D I	Q R A F P	E A Q G Y V S I	D L L I V G R D A M G A N I L
UniRef90_F4PDD0	K R G G G A V D I	T V R K I T R S	K M K Y W L V V	H V H I D V C D A M G A N C A
UniRef90_R2S2I2	K R G G G V R E I	T T R E F K K	Q N H V Y L S I	D F F I D V K D A M G A N I V
UniRef90_A0CL55	K R G G G I E D V	K L R Q L G E G	Q	D L F I N V C D S M G A N I V
UniRef90_S1N8T2	K R G G G L K E I	S W R Q I	E N Y L S I	D F K V D V K D A M G A N I V
UniRef90_UPI0003B6A569	K R G G G A V D L	L F E P L D E S R	E	N L L I N P K D A M G A N V V
UniRef90_R3W783	K R G G G L Q S M	S R A F F E A E G	F L S L D L S	D L F I D V K D A M G A N I V
UniRef90_K2PGA1	K R G G G L K D I	S S R A F F E A E G	F V S V L	D F K V D V Q D A M G A N I V
UniRef90_B9DLB2	K R G G G Y R K I	D V D T F S E E Q	L V S L	K V Y I D T K D A M G A N M M
UniRef90_C8NEY9	K R G G G I R I	W V E E K S T E E	K E Q F Y I F	Y I S L D T K D A M G A N M L
UniRef90_G9EJ71	K R G G G V I D L	Q L R Q L K R E	D G H D M A V I	H L T M N S C D A M G A N I I
UniRef90_Q4L955	E R G G G Y R R I	E I D T F P E N	Q L	K V F V D T K D A M G A N M L
UniRef90_UPI0003827AFF	K R G G G L A L	K V R I L	E	Q Q G L S V D L I D T K D A M G A N M I
UniRef90_K7VWW2	K R G G G L R E V	S S R I F S S	Q K F L S V	D V K V D V K D A M G A N I I
UniRef90_I8R8J4	E R G G G A R R I	R P R D L G Q G	E	L F V D V Q E A M G A N M L
UniRef90_V6ARP4	K M G K G A K E I	S C K L I S R E	P S G K M L I V	E L L I D V G D A M G A N V T
UniRef90_K2BPQ3	K R G G G V K D I	L V R K I S R E	P E G G T M A V L	H V M V N T C D A M G A N I I
UniRef90_D1AVI3	N L G G G A R I	L K L E K K E	D	F L I Y L V D A V S Q A M G A N T V
UniRef90_H4GIR6	K R G A G A I E L	R V R R I	E P F I S I	D L V I D V S Q A M G A N S V
UniRef90_S4E2H0	K R G G G V R E I	L T R E F M G S S S A	Y L S I	D F L V D V K D A M G A N I I
UniRef90_A6H222	K R G G G L D I	E L R D K T S D L	E N Y Y Q L	H A T F E T K D S M G A N F I
UniRef90_UPI0002F089B9	E R G G G Y R R I	E I D T F P E N	E A E L L S L	K V F V D T K D A M G A N M L
UniRef90_D9N353	K R G G G Y Q K I	E T D E F P E E G	E	M L S L K V Y I D T R D A M G A N I I
UniRef90_UPI0003F5547A	K R G G G L R D I	Q L V K K T D K L E	N Y Y Q L	H V T F E T K D S M G A N F I
UniRef90_M9T8C8	K R G G G L R R V	I G R N F E S D L	A T A Y V S I	D L M V D V K D A M G A N I I
UniRef90_UPI00035CC5B0	K R G G G I D I	E L R D K S S I	N N Y Y Q L	H A S F E T L D A M G A N F I
UniRef90_UPI000464E27A	T H G G G A R S V	R V R R L I P	P D W A S I	D L F I D V G E A M G A N L V
UniRef90_K0B767	K M G K G A K E I	S C K E I L D T	P S G K M L I V	E L L I D V G D A M G A N V T
UniRef90_C0WQJ9	K H G G G A K S L	S V R R L D	P Q F Y S V	D L Q V D S G E A M G A N L V
UniRef90_W6TA58	K R G G G A R S L	R T R N L G N G	E	Y L S I D L F V D V Q A M G A N M L
UniRef90_G0LAE6	K R G G G I N K I	E L R D K T E A L	D H Y Y Q L	H C T F E T L D A M G A N F I
UniRef90_Q6KZX4	S L G A G A K D I	E L K I F D D	M M T I	Y L K I D V Q E A M G A N I I
UniRef90_UPI0002E9DA57	K L G G G C L D I	E P R L V D D T A A G	V H V V V	H L V V D V R D A M G A N A V
UniRef90_R2Q161	R R G G G L R E I	H T R K V G E	D F V S C	D F L V D V Q E A M G A N I V
UniRef90_H1X9I8	K R G G G A K A L	T V E V L D E	Q T A T V	N V L V D P K A A M G A N V V
UniRef90_A0A024F0C9	R R G G G V R D I	L Q V R R V P R	G D G S D M A V I	H I L M D P C D A M G A N I I
UniRef90_UPI00047A357D	K R G G G I L D I	E L R N K T N E I	L P N Y Y Q L	H A T F N T K D S M G A N F I
UniRef90_UPI00035D04C1	K R G G G I L N I	E L R D K T A L	P N Y Y Q L	H A T F E T V D S M G A N F I
UniRef90_R2R4V2	Q R G G G V Q S L	K V R	T F E E G D M A V I	D L E V D T K D A M G A N I L
UniRef90_W0BHG7	K R G G G V V D M	H L R R L P R	P G G G D M A V I	H L T M N S C N A M G A N I I
UniRef90_G2PKU9	K R G G G L N N I	E L R D L S N E	I E G	Y H Q L H C T F E T L D A M G A N F I
UniRef90_C5RA01	A R G G G A K Q L	L S I D V L D E	N T A A V	N V L I D T K E A M G A N T V
UniRef90_X0PFA1	K H G G G A R S L	L T R Q L D E	Q F F S I	D L T V D P G E A M G A N L M
UniRef90_F8DKX3	A R G G G A K S M	K V R T	P G N F I S I	D L E I D V C Q A M G A N S V
UniRef90_A8DWT4	K R G G G I L D I	E L K N K T K E	L N N Y Y Q L	H A T F N T K D S M G A N F I
UniRef90_I3C2V0	K R G G G I S T I	E L R N K T S Q L	D N Y Y Q L	H C T F E T L D A M G A N F I
UniRef90_UPI0002491D76	K R G G G P L Q L	V V R V L D H	D L L S V	D M I I D T K E A M G A N M I
UniRef90_UPI000425B96A	K R G G G L D I	V L H D K T A D L	A D Y Y Q L	H A T F E T K D S M G A N F I
UniRef90_K0IJ04	A L D L K V R Q V R	D T K M G S M L L V	E L I V D T K D A M G A N A I	
UniRef90_I0C7N4	A R G G G Y Q R I	A I D T F P E	E Q Q L L S L	K V F V D T K D A M G A N M L
UniRef90_H3GWT5	K R G G G A I D I	Y C R V V S	Q E P Q Q F L V V	H I D V D V C E A M G A N I V
UniRef90_K3WX58	Q R G G G A L D I	Y C R V V S	E E S R A Q Y L V V	H I D V D V C E A M G A N I V
UniRef90_W2UIS8	K R G G G I L D I	I L K D K T A D L	D N Y Y Q I	H A T F D T L D A M G A N F I
UniRef90_UPI000424CD35	K R G G G L A R I	E L R D K T S D L E	H Y Y Q L	H A T F E T K D S M G A N F I
UniRef90_A0RZ62	K M R G A R A V	T T R E V G T	T D T G P M L L I	E L L V D V G D A M G A N V V
UniRef90_H1H2Z2	K R G G G I L A I	E L R D K T A D V	D N Y Y Q L	H V T F E T K D S M G A N F I
UniRef90_UPI00042868F5	Q R G G G I L D I	Q L K D K R N L E N Y	F Q L	H A T F E T K D S M G A N F I
UniRef90_UPI000479EF98	K R G G G I L D I	K L R D K T K E M P	G Y F Q L	H A S F E T L D A M G A N F I
UniRef90_A9DK55	K R G G G I T D I	E L R D K T D E L A G	Y F Q L	H C T F E T V D S M G A N F I
UniRef90_F0RCE9	K R G G G L T R I	E L R N K T E D L E	H Y Y Q L	H C T F E T L D A M G A N F I
UniRef90_D3QH80	A R G G G Y R N I	D I D T F P Q D G	F L S L	K I F V D T K D A M G A N M L
UniRef90_M4VCF5	A R G G G V S E I	Q V R Q L S R G D	G F D M A I V	H I Y M N P C D A M G A N V I
UniRef90_M5J4E1	R R G G G A R W L	R L R P L A	A D L L A V	D L A F D V Q E A M G A N M L
UniRef90_M7MH35	A R G G G I L D I	E L R D K T Q S	L D N Y Y Q L	H A T F E T L D A M G A N F I
UniRef90_G0R443	N R G G G V E D I	K I Q I L N E S D	K K Q M F I	N L H I N V C D S M G A N I V
UniRef90_S0L8W3	T R G G G V Q A I	E I R A L S	A E Y V S C	D L L V D P K E A M G A N M V
UniRef90_UPI000424F140	R R G G G L N I	E L R N K S E D L D	H Y Y Q L	H A T F E T L D A M G A N F I
UniRef90_E0D4U0	K R G G G Y Q K I	E I D E F P K E H	M L S L	K V H V D T C D A M G A N I I
UniRef90_UPI00020D99E5	A R G G G L K N I	E L R M V T D	N M A S I	D C F I D T C D A M G A N I V
UniRef90_UPI00047AEIBA	K R G G G I L D I	E L R N D K T N L L E	N Y F Q L	H A T F E T K D S M G A N F I
UniRef90_I0W190	K R G G G I L D I	E L R D K T E A L T	N Y Y Q L	H A T F N T L D A M G A N F I
UniRef90_J3JC12	K R G G G A R W L	R V R Q L S T	Q E	L S I D L A V D V Q Q A M G A N M L
UniRef90_I3TG85	G L G G G P R D L	E V R V V	D S R M G P L L I V	H V I V D V V D A M G A N T I
UniRef90_UPI00041EE17B	K R G G G L D I	K L V N K T D K L E	N Y Y Q L	H A T F D T K D S M G A N F I
UniRef90_U4UQT0	A L G G G C Q D L	E I H E F S D T H V	G S M M I L	H L L V D V R D A M G A N T V
UniRef90_M7AY69	E F G G G V R D L	T V R I L P	T R A G T H V V V	H L L V D V R D A M G A N A V
UniRef90_A0A023BN01	K R G G G V I D I	E L R D K T S E I	D D Y Y Q L	H C T F E T V D A M G A N F I
UniRef90_S7VXG7	R R G G G I L D I	Q L R N K S E D L	P N Y Y Q L	H A T F E T L D A M G A N F I
UniRef90_F6GDB0	K R G G G I L D I	E L R T K T N D L	D N Y Y Q I	H A T F E T L D A M G A N F I
UniRef90_UPI0004207E0D	K R G G G V L D I	E L L D K T E L L E	G Y Y Q L	H C T F E T K D S M G A N F I
UniRef90_G2EDX6	K R G G G I S A I	E L R N K T E D L A G	Y Y Q L	H A T F D T L D A M G A N F I
UniRef90_UPI00047D4D88	K R G G G I S A I	E L R D K T D D L T	N Y Y Q L	H C T F E T K D A M G A N F I
UniRef90_T2KRN7	K R G G G I L D I	E L R D K T A A I	A N Y Y Q L	H V S F E T A D A M G A N F I
UniRef90_UPI000407DE6D	K R G G G V D I	I L V D K T A A I	L E N Y Y Q L	H A T F Q T K D S M G A N F I
UniRef90_C8P4D6	K R G G G A K E L	R L R T	P G D F I S V	D L L I D V C Q A M G A N S V
UniRef90_S0KQV4	K R G G G I R A I	E T R L L D	E G H L M S I	D V L M D T K D A M G A N M L

		90	100	110
UniRef90_R2PCE0	NT	LLEAV	QELR	QPLD
UniRef90_D8IGL2	NT	MAEAV	GWLKE	QGYQ
UniRef90_UPI0003B3C4F4	NT	MLEAL	KEFL	AEEL
UniRef90_G7WPN9	NT	MAEAL	APFPI	EEIT
UniRef90_F3YCT6	NT	LLEKI	TQKLE	ELLP
UniRef90_H3RMX6	NT	MAEAV	HYLKE	QGED
UniRef90_R2QNI5	NT	MLEG	VAVAK	QIRE
UniRef90_F4PDD0	ST	VAVE	GVAV	PLFTR
UniRef90_R2S2I2	NS	ILEG	VAVAL	RLIRE
UniRef90_A0CL55	NT	VLEHL	AVPL	RIREE
UniRef90_S1N8T2	NG	LLEG	VAVAT	KLRN
UniRef90_UPI0003B6A569	NT	MAEAV	HYLQ	QNK
UniRef90_R3V783	NT	LLEAV	ADRRL	QQWPK
UniRef90_K2PGA1	NA	LLEG	VAVAS	FLFRT
UniRef90_B9DLB2	NT	LLEGI	LSGFL	KEWP
UniRef90_C8NEY9	NT	LLEAL	VLSPI	IEALET
UniRef90_G9EJ71	NQ	VLEEL	YKSP	PIEA
UniRef90_Q4L955	NT	LLEAI	TATH	MKEFP
UniRef90_UPI0003827AFF	NS	MLEAV	ADKLR	RTTG
UniRef90_K7VWW2	NS	LLEAV	AELFR	RRWF
UniRef90_I8R8J4	NS	MLEAV	SKAJ	AVMT
UniRef90_V6ARP4	NT	MCEG	VAVAP	LI
UniRef90_K2BPQ3	TQ	LCEFL	KRPL	EEEL
UniRef90_D1AVI3	NT	MLESI	AVI	VJEL
UniRef90_H4GIR6	NT	MAEAV	SQWF	QEQGY
UniRef90_S4E2H0	NT	LLEG	VAVEE	IRSW
UniRef90_A6H222	NS	LLEQ	FAKTL	KEEAN
UniRef90_UPI0002F089B9	NT	LLEGI	IASAY	LKELED
UniRef90_D9N353	NT	LLEGI	AHYL	EELED
UniRef90_UPI0003F5547A	NS	LLETI	AKEF	QKDG
UniRef90_M9T8C8	NS	LLEG	VAVEE	LFRR
UniRef90_UPI00035CC5B0	NS	LLEQ	FAKTF	KQEA
UniRef90_UPI000464E27A	NT	MTEAV	ADYLR	RAHQ
UniRef90_K0B767	NT	MCEA	IVSPL	YIEK
UniRef90_C0WQJ9	NT	MLEAV	AVAN	ELRS
UniRef90_W6TA58	NS	MLEAV	AKSIV	GLVLT
UniRef90_G0LAE6	NS	LLEQ	FAKTL	EEEL
UniRef90_Q6KZX4	NT	MCEY	VSPFI	EEIT
UniRef90_UPI0002E9DA57	NS	MAERT	SDSL	IAEIA
UniRef90_R2Q161	NT	LLEAV	ASSEI	RSLS
UniRef90_H1X9I8	NT	MSEAV	AVASE	KLTI
UniRef90_A0A024F0C9	NQ	VCEY	FLKE	PIEQ
UniRef90_UPI00047A357D	NT	LLEQ	FAKTL	EDEKN
UniRef90_UPI00035D04C1	NS	LLEQ	FAKTL	REEA
UniRef90_R2R4V2	NT	MLEAV	AQEV	RQLPE
UniRef90_W0BHG7	NQ	VLEEL	YLKAI	RENLT
UniRef90_G2PKU9	NS	LLEQ	FAKTL	EEEK
UniRef90_C5RA01	NT	MAEAV	AVAT	QLRQ
UniRef90_X0PAF1	NT	MLEAV	ADYLR	RSLJA
UniRef90_F8DKX3	NT	MAEAV	GKWL	TDQG
UniRef90_A8DWT4	NT	LLEQ	FAKTL	EANE
UniRef90_I3C2V0	NS	LLEAV	AVAK	TLRS
UniRef90_UPI0002491D76	NT	MLEAV	AVAK	TLRS
UniRef90_UPI000425B96A	NS	LLEQ	FAKTL	EEEK
UniRef90_K0IJ04	NT	MCEA	IVAP	TVAE
UniRef90_I0C7N4	NT	LLEAI	TAFLE	KEFP
UniRef90_H3GWT5	NT	VAEGL	LSAEI	SELT
UniRef90_K3WX58	NT	VAEGL	LSDE	VSKL
UniRef90_W2UIS8	NS	LLEQ	FAKTL	EEER
UniRef90_UPI000424CD35	NS	LLEQ	FAKTL	EEEK
UniRef90_A0RZ62	NS	MCEA	IVAP	TVAE
UniRef90_H1H2Z2	NS	LLEQ	FAKTL	EEEK
UniRef90_UPI00042868F5	NS	LLEQ	FAKTL	KEET
UniRef90_UPI000479EF98	NS	LLEQ	FAKTL	KEEA
UniRef90_A9DK55	NS	LLEQ	FAKTL	EEEK
UniRef90_F0RCE9	NS	LLEQ	FAKTL	KEEA
UniRef90_D3QH80	NT	LLEGI	TNYL	KREF
UniRef90_M4VCF5	NQ	VCEFL	KEPLE	EQFT
UniRef90_M5J4E1	NT	MLEAV	AVAT	ALRTE
UniRef90_M7MH35	NS	LLEQ	FAKTL	FRREA
UniRef90_G0R443	NT	LLEHT	APYI	QNTI
UniRef90_S0L8W3	NT	MAEAV	QKRY	LMTQT
UniRef90_A0A024F140	NS	LLEQ	FAKTL	STFK
UniRef90_E0D4U0	NT	LLEGI	IASY	LEEL
UniRef90_UPI00020D99E5	NT	LLAG	ITPL	IFED
UniRef90_UPI00047AEBA	NS	LLEQ	FAKTL	KEEA
UniRef90_I0WI90	NS	LLEQ	FAKTL	KEEK
UniRef90_J3JC12	NS	MLEAV	ADYLR	QTKL
UniRef90_I3TG85	NT	VVE	SLIAP	LVRE
UniRef90_UPI00041EE17B	NS	LLEQ	FAKTL	EEER
UniRef90_U4UQT0	NT	MAEH	ISVPL	IEKLT
UniRef90_M7AY69	NT	MAES	VAPRL	IAEIA
UniRef90_A0A023BN01	NS	LLEQ	FAKTL	MTTE
UniRef90_S7VXG7	NT	LLEQ	FAKTL	FTFK
UniRef90_F6GDB0	NS	LLEQ	FAKTL	FKDE
UniRef90_UPI0004207E0D	NS	LLEQ	FADTL	KEEA
UniRef90_G2EDX6	NS	LLEQ	FASST	FKREA
UniRef90_UPI00047D4D88	NS	LLEQ	FATTL	KEEA
UniRef90_T2KRN7	NS	LLEQ	FAKTL	FKEA
UniRef90_UPI000407DE6D	NS	LLEQ	FAKTL	FKRA
UniRef90_C8P4D6	NT	MAEAV	SVSH	LRQ
UniRef90_S0KQV4	NT	VLEAL	ALA	HLKA

	1	10	20	30	40																																				
UniRef90_E6X4E6	V	G	Q	V	H	F	M	Y	T	G	E	F	E	K	L	E	S	F	F	N	S	T	T	K	L	I	A	D	A	K	D	I	T	K	N	M	E				
UniRef90_UPI0002490174	M	I	G	Q	I	V	L	E	N	V	S	D	E	N	K	I	L	D	W	I	H	S	N	E	A	L	I	L	K	T	A	N	E	A	H	P	S	V	L		
UniRef90_D0BKN2	M	I	G	E	L	A	I	Y	D	S	P	S	L	E	E	L	E	K	K	L	S	K	E	I	Q	D	H	L	E	T	I	V	A	H	E	A	H	P	S	I	V
UniRef90_F2I6P6	M	T	G	Q	M	V	F	L	G	L	D	L	D	Q	A	E	Q	A	E	W	I	K	D	H	Q	D	L	I	Q	V	A	N	E	A	H	P	S	I	V		
UniRef90_E9BVW4	I	V	V	G	Q	V	Q	L	L	D	L	P	D	M	A	A	A	E	Q	A	I	A	L	E	K	E	Q	L	I	E	L	G	N	M	F	C	K	N	M	V	
UniRef90_T0U2H4	L	L	R	G	Q	V	F	F	S	A	K	N	P	N	E	Q	R	I	A	E	N	Q	A	L	I	F	E	R	A	Q	S	Y	T	K	N	M	V				
UniRef90_UPI00025591D2	V	K	V	G	Q	V	H	F	M	Y	T	G	K	S	K	A	D	L	E	R	Y	F	S	A	E	K	K	L	I	F	R	A	T	K	D	I	T	K	N	M	E
UniRef90_C2ERF7	L	V	G	Q	V	V	I	K	V	T	D	D	S	E	T	K	I	N	W	L	K	N	Q	E	S	T	L	L	A	V	A	N	A	A	H	P	S	M	Q		
UniRef90_UPI00029AC069	L	L	W	G	Q	V	I	L	E	Q	I	T	N	Q	Q	L	K	Q	Q	L	L	T	Q	K	P	Q	L	L	A	V	A	D	Q	A	H	P	S	L	K		
UniRef90_UPI000479CF41	I	G	Q	V	H	F	L	Y	K	G	D	T	S	K	L	E	L	F	F	A	Q	T	K	S	K	F	F	S	E	T	E	S	L	T	K	N	M	Q			
UniRef90_E4KP78	L	I	T	G	Q	I	F	A	N	L	D	I	Q	V	E	G	R	K	I	Q	D	H	Q	E	E	L	L	A	L	A	K	E	A	S	P	S	M	V			
UniRef90_R2NJB9	L	M	R	G	Q	I	V	L	S	G	E	L	D	N	R	G	I	T	D	A	V	J	A	R	Q	D	E	L	L	A	C	A	N	A	S	Y	P	S	I	V	
UniRef90_D4YIF3	L	M	T	G	Q	I	A	F	T	G	V	E	N	D	T	Q	A	E	N	W	V	N	E	V	A	D	D	L	L	A	V	A	N	T	A	Y	P	S	I	V	
UniRef90_G8PEF2	L	K	M	G	Q	V	L	I	S	G	V	S	Q	K	K	D	L	T	E	N	L	R	A	F	E	N	E	L	L	A	V	A	N	Q	A	Y	P	S	I	V	
UniRef90_UPI00036CD2A4	I	G	Q	V	H	F	L	Y	K	G	D	E	N	E	L	T	Q	V	F	R	N	S	K	K	E	L	L	K	L	A	T	A	S	I	T	K	N	M	E		
UniRef90_R2XK31	M	T	G	Q	V	V	L	R	N	V	S	E	A	E	A	F	V	Q	Y	F	R	D	N	S	K	Q	R	L	F	A	A	A	K	T	S	P	S	I	Y		
UniRef90_F8I1A2	L	M	M	G	Q	I	L	L	T	E	I	D	D	F	G	S	L	Q	K	F	I	E	T	N	Q	I	K	I	L	E	I	A	N	D	A	H	P	S	M	L	
UniRef90_UPI00040AABC7	V	G	Q	V	H	F	M	Y	Q	G	D	L	S	K	L	R	S	F	F	N	E	V	K	P	K	L	L	A	N	V	S	I	V	K	N	M	E				
UniRef90_UPI000248FB2C	I	G	Q	V	H	F	S	F	L	G	D	T	S	K	L	E	L	V	T	F	F	N	S	V	K	P	K	L	L	N	S	I	Q	P	L	E	A	N	M	K	
UniRef90_A0A024GUA4	I	M	T	A	Q	I	Q	L	I	D	T	R	D	I	P	R	A	I	E	K	I	G	E	N	R	Q	R	L	L	H	L	A	N	E	S	C	P	S	M	Y	
UniRef90_UPI00026C77DB	I	G	Q	V	H	F	A	C	L	R	D	P	V	R	F	E	K	L	I	N	E	Q	K	E	F	F	L	H	Q	V	N	Q	T	V	S	S	L	I			
UniRef90_A3XQU2	I	G	Q	V	H	F	L	Y	T	G	D	T	K	A	L	L	S	F	F	N	R	V	K	D	E	L	L	E	D	L	E	P	H	T	Q	S	M	K			
UniRef90_A4AU71	I	G	Q	V	H	F	I	F	K	G	N	P	K	K	L	E	L	F	F	N	H	I	L	P	L	L	L	E	E	A	K	P	L	T	K	N	M	E			
UniRef90_D5BFL7	V	K	V	G	Q	V	H	F	L	Y	E	G	S	E	E	K	L	E	L	F	F	N	H	L	E	P	K	L	R	A	A	A	I	P	L	T	K	N	M	E	
UniRef90_T0NEL8	M	R	G	E	I	E	L	Y	D	V	P	D	D	Y	A	A	I	K	I	L	Q	N	K	E	K	I	L	K	M	A	N	T	R	S	K	T	L	S			
UniRef90_T0DP06	I	G	Q	V	H	F	V	Y	E	G	D	K	A	Q	L	K	E	F	F	N	N	G	R	I	D	I	L	N	S	L	T	P	L	T	I	N	M	D			
UniRef90_C0BKZ6	I	T	G	E	I	F	F	F	Q	G	E	P	K	L	K	A	F	I	T	H	T	K	P	L	L	L	A	D	C	A	P	L	T	A	N	M	E				
UniRef90_U4KQL3	L	M	T	G	E	I	F	H	Q	V	K	N	A	K	Q	L	M	S	F	L	I	K	S	V	E	N	T	L	F	K	V	A	Q	K	A	H	P	K	L	K	
UniRef90_H2BZi5	V	G	Q	V	H	F	T	Y	K	G	N	L	E	K	L	E	R	F	F	E	I	C	K	P	T	L	L	K	E	V	R	G	I	T	K	N	M	E			
UniRef90_K4IHx5	V	T	G	H	V	L	D	F	K	G	D	T	E	E	L	K	H	F	F	T	Q	L	K	P	L	F	F	S	A	T	A	S	I	L	K	N	M	V			
UniRef90_W4HD83	V	M	T	S	Q	I	Q	L	L	D	T	K	D	I	P	A	A	I	Q	A	I	V	A	H	R	E	A	L	I	E	Y	A	N	H	L	C	I	G	N	M	A
UniRef90_K1MP16	I	G	Q	V	I	M	K	C	H	P	N	L	E	Q	M	T	Q	Q	I	E	K	N	K	D	H	L	L	E	V	A	N	Q	Y	C	E	S	I	R			
UniRef90_UPI00046A318D	M	L	G	E	V	L	T	D	L	P	D	L	K	V	A	Q	N	V	L	E	A	N	Q	D	L	L	M	Q	E	A	A	H	P	S	I	V					
UniRef90_A4CJ92	I	G	Q	V	H	F	R	Y	N	G	D	P	N	T	L	K	A	F	L	E	S	A	M	P	A	L	M	Q	E	S	E	G	L	T	R	N	M	E			
UniRef90_H8XP26	I	G	Q	V	H	F	L	Y	Q	G	D	T	T	K	L	Q	Q	Y	F	D	F	I	K	P	T	L	L	A	D	T	D	S	I	T	K	N	M	Q			
UniRef90_A0A024URA9	V	M	T	S	Q	I	Q	L	V	D	I	K	D	I	P	A	A	M	Q	A	I	H	D	H	R	K	S	L	L	E	Y	A	N	H	L	C	G	N	M	A	
UniRef90_N1ZUK1	L	M	I	G	Q	V	I	V	E	Q	V	K	D	A	T	K	L	A	Q	E	L	E	Q	K	L	L	Q	L	A	N	E	A	H	P	S	I	V				
UniRef90_F4FS30	L	V	S	G	Q	I	V	K	D	A	D	P	H	Q	V	T	K	F	V	H	D	Y	Q	Q	L	I	Q	I	A	D	Q	A	H	P	S	V	L				
UniRef90_UPI00047DF28E	M	I	G	Q	V	I	F	R	D	I	N	P	I	E	F	K	Q	Q	V	E	S	L	S	E	N	L	F	K	V	A	D	A	H	P	S	I	H				
UniRef90_UPI00014AQ38	I	G	Q	V	H	F	L	W	K	G	D	V	N	K	M	Y	C	I	F	D	E	A	K	E	Q	M	L	K	D	T	A	D	I	T	K	N	M	R			
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UniRef90_F4AYT6	V	G	Q	V	H	F	T	Y	D	G	D	A	S	L	L	T	S	F	F	E	S	I	K	P	Q	L	I	A	D	T	A	A	I	T	K	N	M	E			
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UniRef90_H1ZD12	I	G	Q	V	H	F	I	Y	K	G	E	K	K	L	E	Q	F	I	E	S	I	T	Q	G	V	F	L	D	T	F	S	I	T	Q	N	M	Q				
UniRef90_A2TSW6	V	G	Q	V	H	F	T	Y	D	G	K	E	D	L	Q	Q	Y	F	D	K	I	T	P	K	L	F	E	D	V	E	E	I	T	H	N	M	K				
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