

QUERY	1	10	20	30	40
UniRef90_G3Q410	N K A S	V V A N Q L I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_F7BVV6	K S S V	A N V K I	P K G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B5X2G1	K S S V	A N V K I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_M3ZWR8	K S S V	A N V K I	P Q G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_C3YJ26	K S S V	A N V K I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_E3TCP5	K S S V	A N V K I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_F6SJ79	K S S V	A N V K I	P E G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_H2US31	K S S V	A N V K I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_V9L106	K S S V	A N V K I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_H3AN25	K S S V	A N V K I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q1AMQ8	N Q E S	V A T Q L I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003D08ACC	N Q E S	V A T Q L I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q53UI7	N Q E S	V A T Q L I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_P12416	N Q E S	V A T Q L I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q53UJ0	N Q A S	V A T Q L I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0001CBA273	K S S V	A A V K I	P A D T A M T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_G1N5B5	K S S V	A A V K I	P E G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_G1TXK2	S V L A K V K I	P E G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M	
UniRef90_W5L7M2	K S V I	A K K A L	Q K G T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0001CB998B	K T V V	A N T D I	P A G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_P12100	K S V V	A S Q L I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q5U3W7	K S V V	A R K P L	K M G E T L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_A3EY16	E S V V	A T Q L I	P M N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI00039405D6	K S V I	A K V A I	S K G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003BD569D					
UniRef90_J71259	Q S L V	A T Q D I	P I N T A L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_A0A023CJF9	R R S L	V A T Q D I	P K G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_E0V9M9	K T T V	A A K P L	K K G D V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_E9HZY6	K S S V	C T Q K L	E A G V Q L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q29B26	K S S V	A A R T L	H K G L K L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003F17C4D	K S S V	A K V K I	P E G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_T1IIV7	K T V V	A V R D I	S K G Q V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_R5EDN3	R R S I	V A T R Y I	S K G T V L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0002653719	R R S I	V A A K D I	P A G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_F2I717	R R S I	V L T Q D V	K A G T L L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B4JTP3	R R S I	V A A R D I	K A G T L L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003648ECF	Q S S I	V A N R D L	P V G A V L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_J4TZ45	R R S S	V I A R V E I	P A G T T I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI00047B6E57	R R S S	V I A V E I I	P K G T E I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_R5NZJ7	R R S I	V T T C D I	K K G A T L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_F2NJR2	L V A N	Q D I L	E V Q G T K L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B4LYA1	K S I V	A A R N L	E V Q R Q Q I	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003C3574A	R K T L	V A A K D L	P K G H T I S	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_L1MYS7	R R S I	V A A K H L	P A G H V L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q9VG74	R K S I	V A A R N L	N K G Y R L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0001757EB9	R K S L	V A A T T L	R K G D I L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_D4S760	R R S L	V A A V D I	P A G T M I L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_C2XJH1	R R R S	L V A T G D I	E E G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_J4XAM9	R R S S	L I A S R N L	S A G H V L M	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_E4TRA6	R R S L	L I A T S D I	P K G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_C3L1V2	R R S L	L V A K Q E I	K K G E V V V	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_R6PQX1	R R S L	L V T T C E I	A K G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_D3DZQ0	R R S L	L V A K E E I	G E G T I I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI00037A8821	R R S L	L V A T R R I	P V D T I I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_HOUSJ0	R R S I	L H A A V D I	P A G S V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_T1KX10	K S I V	L T S K A I	A K G E T L S	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_A0A0161XX3	R R S I	L V L T R D L	K A G T V L S	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B4K878	K S S V	L V A R K D L	K K G Q T I L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI000368B206	R R S L	L V A A C A I	A S D T Q V T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B3M2Q8	R R S L	L V A A R S L	S K G H T L E	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0001E89E05	R R S L	L V A N E D I	E K G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_S7TH48	R K S I	L V A A R R I	P A G R L I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI00047DBC09	R R S I	L V A A R D I	K A G E T L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_E0NYY8	R R S V	L V V K D I	P E G H T L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003676D14	R R S S	L V A S S Q D I	P I G T E L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_L0HGZ8	R K S I	L V A K K I I	R K G S V F S	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI00031B5663	R R S S	L V A A Y E L	K E G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_R5GWJ1	R R S I	L V A A S D L	P K G K V L E	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_F8AC60	R R S L	L V A S K D I	P K G K V I E	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_U2F7N3	R R S L	L V A S K D I	K K G D L I K	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_R9SK50	R R S I	L V A A S D I	K K G Q T I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_U2E8U2	R R S I	L V A A F D L	K K G T L L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_H1KWH3	R R S L	L V A N M D I	P K G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_X0WEZ9	R R S L	L V A N K T I	P K G S I I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_X117U2	R R S I	L V A K K N I	P K G K L I E	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_T1HB06	K S V V	L A A K F L	P A G H T L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_M0CVF0	K S L V	L A A E R D I	Q A G T E I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_X119W3	R R S L	L V A A H K I	P R G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_Q0A628	R R S V	L V A A T D L	P A G T T L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B4NJF3	K S L V	L A A R S L	P K G H R L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_I3VYR9	R K S I	L V A A K D I	P S G S V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003B4F3C0	R R S L	L V A S A C I	R K G T K I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_B8FAR3	R K S I	L V A S A C I	S A G Q C I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI000477DEF1	R R S L	L V A R V D I	K P G T T L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_G2H8B6	R R S I	L V A A R D L	P A G H V L L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_UPI0003B50BF8	R R S L	L V A A K K I	A A G R K I L	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_I0GTJ3	R R S L	L F A V Q D I	P A G T T L T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_W6K6Q3	R K S V	L V A A R L I	P K G K V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_L9P1R5	R R S L	L V A L K D I	K I G H K V T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M
UniRef90_D8PHF8	R E S I	L V S E V A I	P R G T V I T	T Q D M L A V K E	V V T P M G G I L D P A E E I I F K M

QUERY	V	G	M	Q	V	N	R	A	V	50	P	L	G	T	T	L	M	P	D	M	V	60	K	N	Y	E	
UniRef90_G3Q410	V	G	K	K	V	K	K	D	V	E	E	E	D	E	S	I	L	P	E	E	V	E	V	E	G	Y	E
UniRef90_F7BVV6	E	G	K	T	V	K	R	E	D	V	E	E	E	D	E	S	I	T	E	E	A	I	E	N	S	Y	
UniRef90_B5X2G1	V	G	K	S	V	T	E	D	V	E	E	E	D	E	S	I	T	P	D	V	V		D	S	Y		
UniRef90_M3ZWR8	V	G	K	T	V	T	E	Q	V	E	E	E	D	D	S	V	L	P	E	V	V		D	S	Y		
UniRef90_C3YJ26	V	G	K	K	L	K	R	A	L	E	C	D	E	T	S	V	A	G	D	D	V		E	N	Y		
UniRef90_E3TCP5	L	G	K	K	T	M	K	D	I	G	M	D	E	S	V	T	E	N	A	V	E		N	Y			
UniRef90_F6SJ79	I	G	Q	K	V	K	V	N	I	E	E	E	D	D	T	I	T	E	E	A	I		E				
UniRef90_H2US31	V	G	N	T	M	M	E	N	K	E	E	D	E	S	I	A	P	E	L	V		D	S	Y			
UniRef90_V9L106	V	G	K	K	V	K	A	K	I	E	E	D	E	T	I	T	E	E	L	F							
UniRef90_H3AN25	V	G	K	K	A	T	A	D	I	G	G	D	E	S	V	T	E	D	A	V		E	N	H			
UniRef90_Q1AMQ8	V	G	K	Q	V	N	R	A	V	P	L	G	D	T	T	I	M	P	E	M	V		K	G	Y	S	
UniRef90_UPI0003D08ACC	V	G	K	M	V	L	V	T	I	E	E	D	D	T	V	L	E	S	V	Q	S		Q	S			
UniRef90_Q53UI7	I	S	M	Q	V	N	Q	A	V	P	M	G	T	T	V	L	M	P	D	M	V		K	F	Y	S	
UniRef90_P12416	V	G	M	Q	V	N	R	P	V	A	K	D	E	T	L	M	P	N	M	V		K	T	Y	R		
UniRef90_Q53UJ0	V	S	M	Q	V	N	Q	A	V	A	C	G	T	T	L	M	P	G	M	V		K	T	Y			
UniRef90_UPI0001CBA273	I	G	K	K	L	K	K	G	V	E	N	D	D	S	V	T	E	D	N	L	Q						
UniRef90_G1N5B5	V	G	K	K	A	K	T	T	I	E	E	D	E	T	I	T	E	Q	A	V		K					
UniRef90_G1TXK2	V	G	K	M	V	L	I	T	I	K	E	D	D	I	L	E	E	S	V	E		N	H				
UniRef90_W5L7M2	V	G	K	I	T	V	D	L	Q	Q	E	D	T	L	T	N	D	M	I								
UniRef90_UPI0001CB998B	I	G	M	Q	V	N	R	A	V	D	S	D	E	S	I	L	K	D	N	I		A	T	Y	S		
UniRef90_P12100	V	G	M	Q	V	N	R	A	V	N	L	D	E	T	L	M	P	D	M	V		K	T	Y	Q		
UniRef90_Q5U3W7	V	G	K	K	I	S	V	N	L	E	K	D	A	T	I	T	D	A	M	I		K	G				
UniRef90_A3EY16	V	G	K	Q	V	N	T	P	V	A	K	G	Q	T	L	M	P	D	M	V		K	T	Y			
UniRef90_UPI00039405D6	V	G	K	K	I	K	V	D	M	D	K	D	D	S	I	L	A	D	M	I		E	E				
UniRef90_UPI0003BD569D	V	G	K	K	I	K	V	D	V	E	E	D	D	S	I	L	A	D	M	I		E	E				
UniRef90_J71259	V	G	K	Q	V	N	Q	P	V	V	K	G	Q	T	L	M	R	N	M	V		K					
UniRef90_A0A023CJF9	I	G	R	E	A	K	V	D	I	K	E	D	D	L	T	W	E	M	V								
UniRef90_E0V9M9	I	G	K	T	I	N	K	T	V	D	E	D	E	S	I	L	E	N									
UniRef90_E9HZY6	V	G	K	T	L	S	R	N	V	D	Q	D	E	T	I	T	S	D	C	I							
UniRef90_Q29B26	V	G	K	E	L	T	D	T	V	Y	E	D	E	P	I	A	G	N	M	V		K					
UniRef90_UPI0003F17C4D	I	G	K	K	V	L			I	V	M	E	G	S	V	E	N										
UniRef90_T1IIV7	I	G	R	T	L	L	R	D	I	A	C	D	D	S	I	K	S	Q	D	I		E					
UniRef90_R5EDN3	I	G	R	K	L	K	R	N	I	D	E	D	E	I	F	E	I	D	L	E							
UniRef90_UPI0002653719	F	G	K	R	T	A	K	A	L																		
UniRef90_F2I717	I	G	R	K	V	N	Q	D	L	A	E	D	T	T	L	M	E	D	M	L		E					
UniRef90_B4JTP3	I	G	M	Q	L	T	R	S	V	N	Q	D	E	P	I	T	E	N	V	L							
UniRef90_UPI0003648ECF	V	G	R	K	I	R	K	M	I	E	E	D	E	Q	I	K	L	E	D	L							
UniRef90_J4TZ45	L	G	R	V	S	A	V	D	I	A	E	D	S	T	L	Q	E	E	M	F		E	G				
UniRef90_UPI00047B6E57	V	G	R	T	A	R	V	D	I	P	F	D	E	I	V	T	W	E	M	V							
UniRef90_R5NZJ7	I	G	R	T	M	A	V	D	V	K	E	D	T	L	Q	E	G	M	L								
UniRef90_F2NJR2	V	G	R	V	T	K	R	P	L	K	Y	N	E	A	I	S	W	D	D	I							
UniRef90_B4LYA1	I	G	M	R	L	K	D	S	A	V	E	D	E	P	I	T	E	N	M	L							
UniRef90_UPI0003C3574A	V	G	L	Q	L	T	Q	S	V	S	V	D	E	P	L	F	W	D									
UniRef90_L1MYS7	V	G	K	K	V	K	R	D	M	E	A	D	E	M	L	P	D	D	L	E							
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