

QUERY	1	10	20	30	40																																							
UniRef90_J7FQE3	C	Q	A	S	Q	L	A	V	C	A	S	A	I	L	S	G	A	K	P	S	A	D	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K					
UniRef90_V4LXH6	S	C	V	P	T	E	L	L	P	C	L	P	A	A	L	T	S	G	A	P	S	A	K	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_V4SY21	T	C	S	P	T	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_S4TID2	T	C	S	P	T	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_UPI00042B3981	T	C	S	P	S	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_V4UHA8	T	C	S	P	L	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_M5WX74	T	C	S	P	V	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_V4L9Z6	T	C	S	V	A	T	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_A0A059BT60	T	C	S	A	T	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_V7B0X3	T	C	S	P	T	Q	L	T	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_K3ZEQ5	T	C	D	A	T	Q	L	T	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_ROGCE1	T	C	D	A	R	Q	L	Q	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_I1K1M7	T	C	T	P	V	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_UPI0003D2488A	U	N	V	M	E	L	V	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K					
UniRef90_UPI0003D2488A	T	C	S	V	P	T	D	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_UPI000198291E	T	C	S	P	M	E	L	S	T	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_UPI000198291E	T	C	S	N	A	G	Q	L	S	V	C	A	V	A	I	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_I1HAM6	T	C	S	N	A	L	Q	L	T	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_T1NJ12	T	C	S	N	A	L	Q	L	T	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_C6SZ93	T	C	S	P	T	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_K4C880	T	C	S	P	V	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_M1BFN6	T	C	S	N	V	R	E	L	T	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_UPI0002BC87BF	T	C	S	N	V	S	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_D7TSZ9	T	C	S	P	L	E	L	S	S	F	A	A	I	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K						
UniRef90_UPI0002BC86C8	T	C	S	N	V	M	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_C0KHK5	T	C	S	S	V	L	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_E3W9R1	T	C	S	V	V	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_M4EPH9	A	C	L	P	T	E	L	M	T	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_UPI000234F877	U	D	A	G	Q	L	V	V	A	P	A	I	L	L	G	G	A	M	P	T	A	S	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_UPI00046D9D61	T	C	S	P	L	E	L	S	S	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_Q9FF39	T	C	D	A	V	E	L	S	S	C	A	T	P	M	L	T	G	V	P	P	S	T	E	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_G7KV73	T	C	S	P	I	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_UPI00042B2B0D	T	C	S	N	A	L	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_A0A059D6P0	T	C	S	N	A	L	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_M0U1H9	T	C	S	N	P	V	E	L	S	S	C	A	G	A	I	L	T	A	A	P	T	A	G	L	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_UPI0002C3315A	T	C	S	P	V	L	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_I3SYA6	T	C	S	P	V	A	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_W9S0V3	T	C	S	A	V	A	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_M0U2A4	T	C	S	N	A	S	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_K4BBD9	T	C	S	N	A	S	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_A5JUZ7	T	C	S	N	P	V	E	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_M4EH97	S	C	V	V	T	E	L	A	P	C	L	L	A	A	F	T	S	A	G	D	P	T	S	E	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_M1D0E2	S	C	N	P	L	Q	L	M	P	C	L	L	A	A	F	T	S	T	T	A	G	D	P	T	S	E	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K	
UniRef90_D7MK37	S	C	S	V	P	T	D	L	M	P	C	L	L	A	A	F	T	S	T	T	G	G	Q	P	A	K	D	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K
UniRef90_V4M4N6	S	C	S	V	S	M	E	L	L	P	C	L	L	A	A	F	T	S	M	G	G	E	P	T	K	D	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K	
UniRef90_V4STA7	T	C	S	N	P	S	Q	L	T	P	C	L	L	A	A	F	T	S	W	T	A	P	P	T	V	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K		
UniRef90_A0A022RK26	S	C	N	P	L	Q	L	S	P	C	L	L	A	A	F	T	S	S	K	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_C5VMM7	S	C	N	A	G	Q	L	T	V	C	A	S	A	M	L	S	G	A	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_V4K9Q6	T	C	D	P	T	Q	L	S	S	V	D	A	I	Q	R	G	S	T	P	T	R	L	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K					
UniRef90_UPI0002B40EC4	T	C	S	P	V	Q	L	S	S	V	S	A	I	T	S	S	V	P	P	S	K	L	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K					
UniRef90_Q9FF40	T	C	D	A	T	Q	L	S	S	V	T	A	V	I	S	T	G	A	K	P	S	T	D	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_Q43681	T	C	S	P	T	E	L	S	S	V	P	A	I	T	S	S	G	S	K	P	S	S	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_C0KHK6	T	C	S	P	A	Q	L	S	P	C	L	L	A	A	F	T	S	S	A	P	S	A	T	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K				
UniRef90_ROHKR1	S	C	V	P	T	D	L	M	P	C	L	L	A	A	F	T	S	G	N	Q	P	A	K	E	C	C	G	N	L	R	A	Q	Q	Q	G	F	C	Q	Y	A	K			
UniRef90_I1HGT0																																												

QUERY	D	P	T	Y	G	Q	Y	I	R	S	P	H	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C				
UniRef90_J7FQE3	D	P	N	L	G	K	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C				
UniRef90_V4LXH6	N	P	N	M	L	R	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C			
UniRef90_V4SY21	N	P	N	L	R	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C				
UniRef90_S4TID2	N	P	N	S	L	K	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C			
UniRef90_UPI00042B3981	N	P	N	L	R	K	Q	F	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C			
UniRef90_V4UHA8	D	P	N	L	R	K	Q	F	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C			
UniRef90_M5WX74	N	P	S	L	R	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C				
UniRef90_V4L9Z6	N	P	A	Y	S	M	Y	I	T	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C				
UniRef90_A0A059BT60	N	P	N	L	R	Q	Y	V	I	T	S	P	N	A	R	K	V	L	T	S	C	G	L	A	V	P	H	C			
UniRef90_V7B0X3	N	P	N	L	K	Q	Y	V	N	S	P	R	A	K	A	V	L	K	T	S	C	G	L	A	V	P	H	C			
UniRef90_K3ZEEQ5	D	P	N	L	Q	R	Y	V	I	S	S	P	N	G	K	K	A	M	A	A	C	C	K	V	A	Y	P	T	C		
UniRef90_R0GCE1	N	P	A	F	A	Q	Y	I	L	S	S	P	N	S	R	K	V	L	S	A	C	C	G	V	A	Y	P	T	C		
UniRef90_I1K1M7	N	P	S	L	R	P	Y	A	N	S	P	G	S	R	R	V	A	S	S	C	C	G	V	A	F	P	T	C			
UniRef90_UPI0003D2488A	D	P	T	L	K	S	Y	V	I	G	S	P	N	A	R	K	V	L	T	S	C	C	G	L	A	V	P	H	C		
UniRef90_R0H8U5	N	P	N	M	Y	S	Y	V	I	N	S	P	N	A	R	K	V	L	T	S	C	C	G	L	A	V	P	H	C		
UniRef90_UPI000198291E	N	P	N	L	Q	K	F	I	N	S	P	N	A	R	K	V	L	T	S	C	C	G	L	A	V	P	H	C			
UniRef90_I1HAM6	D	P	N	Y	G	R	Y	I	N	S	P	Y	A	R	Q	T	V	A	S	C	C	G	L	A	V	P	H	C			
UniRef90_T1NJ12	D	P	N	L	K	Q	Y	V	I	D	S	P	N	A	R	K	V	L	T	S	C	C	G	L	A	V	P	H	C		
UniRef90_C6SZ93	N	A	S	L	K	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	C	G	L	A	V	P	H	C			
UniRef90_K4C880	N	P	T	L	K	K	Y	V	N	S	P	G	A	K	K	V	L	A	R	S	C	C	G	V	A	Y	P	T	C		
UniRef90_M1BFN6	N	P	N	Y	K	S	Y	V	N	S	P	N	A	K	M	I	L	K	T	S	C	C	G	V	A	Y	P	T	C		
UniRef90_UPI0002BC87BF	N	P	N	L	R	P	Y	A	D	S	P	N	A	R	K	V	L	T	S	C	C	G	V	A	F	P	T	C			
UniRef90_D7TSZ9	D	P	N	L	S	Q	Y	V	I	N	S	P	A	N	A	R	R	V	A	S	T	C	C	G	V	A	F	P	T	C	
UniRef90_UPI0002BC86C8	D	P	N	L	K	P	Y	I	N	S	P	N	A	R	K	V	L	T	S	C	C	G	L	A	V	P	H	C			
UniRef90_C0KHK5	D	P	N	L	R	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	C	G	V	A	F	P	T	C			
UniRef90_E3W9R1	N	P	N	L	R	P	Y	V	I	N	S	P	N	A	R	K	V	L	T	S	C	C	G	V	A	F	P	T	C		
UniRef90_M4EPH9	N	P	N	L	F	S	Q	Y	V	T	S	E	N	A	H	K	L	L	A	T	S	C	C	G	L	A	V	P	H	C	
UniRef90_UPI000234F877	N	P	A	Y	A	G	Y	I	N	S	P	Q	T	A	R	G	A	L	A	A	C	C	N	V	T	L	P	Q	C		
UniRef90_UPI00046D9D61	D	P	A	L	K	Q	Y	V	I	N	S	P	T	A	R	K	V	L	T	S	C	C	G	V	A	F	P	T	C		
UniRef90_Q9FF39	D	P	R	Y	S	Q	Y	V	I	G	S	P	A	N	A	R	K	V	L	T	S	C	C	G	V	A	F	P	T	C	
UniRef90_G7KV73	N	P	N	L	R	Q	Y	V	N	S	P	G	S	K	R	V	A	S	A	C	C	C	N	V	V	I	P	N	C		
UniRef90_UPI00042B2B0D	D	P	N	L	Q	K	F	I	N	S	P	N	A	R	K	V	L	T	S	C	C	C	G	S	P	F	P	S	C		
UniRef90_A0A059D6P0	N	P	N	L	K	Q	Y	V	I	N	S	P	N	S	R	N	V	A	I	K	C	C	C	G	S	P	F	P	S	C	
UniRef90_M0U1H9	N	P	N	L	K	G	Y	I	N	S	P	D	N	S	K	K	V	A	K	S	C	C	G	V	A	F	P	T	C		
UniRef90_UPI0002C3315A	N	P	N	L	K	K	F	I	N	T	P	N	A	R	K	V	L	T	S	C	C	C	G	T	P	F	P	R	R	C	
UniRef90_I3SYA6	N	P	S	L	A	P	Y	V	N	S	P	G	A	R	A	V	A	S	T	C	C	C	G	T	P	Y	P	R	R	C	
UniRef90_W9S0V3	D	P	N	L	R	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	C	C	G	V	A	F	P	T	C		
UniRef90_M0U2A4	N	P	S	L	K	D	Y	V	N	S	P	D	N	G	K	K	A	L	K	A	C	C	C	G	V	A	F	P	T	C	
UniRef90_K4BBD9	D	P	N	L	R	Q	Y	V	N	S	P	N	A	R	K	V	L	T	S	C	C	C	G	V	A	F	P	T	C		
UniRef90_A5JUZ7	N	P	V	F	K	P	Y	V	D	S	P	N	A	R	K	V	L	T	S	C	C	C	G	V	A	F	P	T	C		
UniRef90_M4EH97	N	P	A	Y	S	M	Y	I	T	S	P	N	G	R	K	V	L	D	F	C	C	C	K	V	A	F	P	T	C		
UniRef90_M1D0E2	D	P	R	L	Q	K	M	I	S	S	P	N	A	R	K	V	L	T	S	C	C	C	G	S	P	F	P	S	C		
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