

QUERY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
UniRef90_BOND27	P	S	L	V	P	L	L	S	N	E	E	P	F	I	R	D	R	S	S	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D	
UniRef90_R7NBZ0	P	S	A	L	V	P	L	T	A	R	E	E	E	W	A	S	S	S	E	L	Q	Q	G	L	L	S	L	R	K	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_A3ddb4	P	S	L	V	P	L	T	A	R	E	E	E	E	W	A	S	S	S	E	L	Q	Q	G	L	L	S	L	R	K	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_R6ZNW7	P	S	A	L	V	P	F	T	T	E	E	E	T	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_R6XUP7	P	S	L	V	P	L	T	S	H	D	E	E	F	V	C	K	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_J8QD24	P	T	E	V	P	L	T	S	N	E	E	E	F	V	C	K	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_F3B9V5	P	A	L	V	P	L	E	T	K	E	D	F	F	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_C5D6D4	P	T	E	V	P	L	T	S	N	E	E	E	F	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_R6RZ21	P	A	L	V	P	F	T	C	A	E	E	E	D	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_G8LUT0	P	S	L	V	P	L	V	V	S	E	E	K	W	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_R9N6I3	P	A	L	V	P	F	T	T	K	E	D	W	V	C	M	K	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_F5LQS7	P	T	E	V	P	L	T	S	A	E	E	E	F	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_R5TGF8	P	A	L	V	P	F	V	V	K	E	E	P	V	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_UPI0003710353	P	T	E	V	P	L	T	S	A	E	E	E	F	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_S2YRH1	P	S	L	V	P	L	A	I	E	E	E	E	F	V	K	E	E	E	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_UPI00036CA989	P	T	E	V	P	L	T	V	Q	E	E	P	F	I	R	R	S	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D	
UniRef90_R5UJ64	P	A	L	V	P	M	E	M	K	S	E	P	F	I	R	R	E	R	T	W	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_F5SAA1	P	T	E	V	P	L	T	S	D	E	E	P	F	I	R	R	E	R	T	W	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D
UniRef90_UPI0003FA1DCF	P	S	L	V	P	F	E	T	S	Q	E	E	W	C	K	D	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D		
UniRef90_UPI0003813441	P	T	E	V	P	L	T	S	P	R	E	E	F	I	Q	S	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D		
UniRef90_C4Z5R9	P	A	L	V	P	L	N	V	R	E	E	F	W	E	L	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_UPI00037FF262	P	T	E	V	P	I	I	S	R	E	E	P	F	I	Q	R	K	S	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D		
UniRef90_UPI0002EBE7C5	P	T	E	V	P	L	T	S	S	S	E	E	F	I	K	R	K	S	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D		
UniRef90_R6CWR2	P	S	L	V	P	L	T	V	K	E	E	P	Y	C	R	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_R6NBK0	P	S	L	V	P	L	V	C	R	E	E	N	W	C	Q	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_V6IXK9	P	T	E	V	P	L	T	S	E	E	P	F	I	K	E	K	T	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_F9DW73	P	T	E	V	P	L	T	S	E	E	P	F	I	V	R	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_R5I0Z3	P	S	L	V	P	F	N	A	K	E	D	Y	V	R	E	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_S7J5K0	P	S	L	V	P	F	T	T	E	E	T	W	P	H	T	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_UPI000470E23A	P	T	E	V	P	L	T	S	D	E	S	W	Q	N	K	V	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_R6PQQ0	P	S	L	V	P	L	K	V	K	E	K	W	V	K	S	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_UPI000479AB76	P	S	L	V	P	L	E	A	H	E	E	W	L	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_R6I723	P	S	L	V	P	L	E	A	H	E	E	G	F	C	L	S	R	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_I7ILZ5	P	T	E	V	P	I	T	S	S	E	P	F	I	K	N	K	R	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_UPI000366339A	P	S	L	V	P	I	T	S	S	E	P	F	I	K	N	K	R	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_I8SIL7	P	S	L	V	P	L	E	V	G	E	D	W	I	R	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_H6CEG2	P	T	E	V	P	L	T	S	G	E	T	F	I	Q	T	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_UPI0003FA91FD	P	S	L	V	P	F	E	T	A	K	E	D	W	C	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_R6R9Q2	P	A	L	V	P	F	T	A	A	E	E	W	V	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_F7NQG4	P	S	L	V	P	L	E	V	E	E	H	W	I	T	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_UPI00047C0DD7	P	T	E	V	P	V	T	S	A	E	P	F	I	K	N	K	V	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_UPI00047B3F6E	P	T	E	V	P	I	V	S	T	E	P	F	I	A	S	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_D3EE17	P	T	E	V	P	L	V	T	S	E	A	W	V	K	D	V	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_J4J341	P	A	L	V	P	L	V	T	S	E	A	W	V	K	D	V	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_UPI000289C57A	P	S	L	V	P	I	E	L	K	E	S	W	L	K	D	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_UPI0004251CA4	P	T	E	V	P	I	T	S	N	E	K	F	F	K	D	G	T	L	K	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D				
UniRef90_HODKE8	U	N	I	R	E	F	I	K	S	P	E	F	I	K	L	K	R	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_UPI0003662EB9	P	S	L	V	P	L	K	V	K	E	E	W	V	K	E	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D					
UniRef90_G7ZPE8	P	T	E	V	P	I	T	S	T	E	S	F	I	K	S	N	R	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_W7BF12	P	T	E	V	P	I	T	S	R	E	S	F	I	K	S	K	I	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D			
UniRef90_UPI00047BFCBE	P	T	E	V	P	I	T	S	N	E	S	P	F	I	K	S	K	I	L	Q	Q	G	L	L	S	L	R	N	N	V	T	A	S	L	R	K	E	V	S	H	K	M	D		
UniRef90_R5N718																																													

QUERY	E	E	N	S	E	Q	L	F	Q	R	M	L	K	Q	M	K	E	D	P	K	G	V	K	N	V	L	K	G	Y	V	P	E	R	Y	F	L	F	L	120			
UniRef90_BOND27	A	L	D	S	E	E	Q	L	D	H	R	V	L	R	R	D	F	E	A	N	N	K	Q	F	K	N	S	L	G	R	L	F	P	S	K	L	I	P	V	M	I	
UniRef90_R7NBZ0	A	L	S	E	E	E	K	L	D	D	E	R	V	L	R	D	F	E	S	E	N	S	R	K	Q	F	K	N	S	L	D	D	L	L	P	K	K	L	P	V	V	V
UniRef90_A3DDB4	A	L	S	T	A	E	E	K	L	D	A	R	I	L	R	D	F	E	E	A	K	N	K	Q	F	K	N	S	L	N	K	L	L	P	A	K	K	M	I	P	V	V
UniRef90_R6ZNW7	A	L	S	M	H	Q	E	E	Q	L	D	F	Q	N	I	L	K	Q	D	F	K	N	E	P	K	K	S	V	R	N	V	L	K	G	F	L	P	Q	E	R	F	L
UniRef90_J8QD24	A	L	S	E	E	E	Q	L	N	Q	R	V	L	R	D	F	E	E	N	K	N	K	Q	F	R	N	A	I	T	K	L	F	P	A	K	L	I	P	V	M	V	
UniRef90_F3B9V5	D	Q	N	K	E	E	Q	L	D	F	Q	R	L	A	N	A	C	K	E	A	P	K	K	A	V	K	N	V	M	K	G	R	L	F	P	A	K	Y	I	P	V	M
UniRef90_C5D6D4	A	L	T	P	E	E	Q	L	D	A	R	I	L	Q	R	D	F	E	K	F	S	R	K	Q	F	K	N	S	L	D	E	L	L	P	A	K	L	I	P	V	V	
UniRef90_R6RZ21	A	L	T	K	E	E	Q	L	D	D	K	R	L	L	K	D	F	E	D	E	N	K	R	R	Q	F	K	N	S	L	D	D	L	P	A	K	L	I	P	V	M	
UniRef90_G8LUT0	A	L	S	E	E	Q	L	D	A	R	L	L	R	E	F	E	G	M	I	N	K	Q	F	K	N	S	L	V	N	L	F	P	S	R	L	L	V	P	V	M		
UniRef90_R9N6I3	D	R	T	A	N	E	Q	L	Y	D	Q	R	V	L	R	D	F	E	A	K	K	S	L	K	N	V	L	K	P	M	L	F	P	A	K	L	I	P	V	L		
UniRef90_F5LQS7	A	L	T	A	E	E	Q	L	D	Q	R	V	L	R	D	F	E	Q	N	I	N	K	Q	F	K	N	S	L	T	R	L	F	P	A	K	L	I	P	V	M		
UniRef90_R5TGF8	N	M	S	V	D	E	L	Y	Q	A	S	L	D	L	A	R	K	D	P	K	K	A	I	K	N	V	L	K	P	L	L	P	E	R	K	L	I	P	V	L		
UniRef90_UPI0003710353	A	L	D	V	E	Q	L	D	R	H	R	I	L	R	E	F	D	E	M	K	N	K	Q	F	K	N	S	L	G	H	L	L	P	A	K	M	I	P	V	M		
UniRef90_S2YRH1	G	E	R	G	E	E	Q	L	D	K	R	V	L	R	D	F	E	E	G	L	N	K	S	F	K	N	I	L	G	G	L	F	P	S	K	L	I	P	V	M		
UniRef90_UPI00036CA989	D	K	T	A	D	D	I	Y	R	E	T	L	Q	D	F	E	Q	E	S	K	K	A	I	K	N	V	L	K	G	Y	I	P	A	K	L	I	P	V	L			
UniRef90_R5UJ64	A	L	T	D	E	E	Q	L	D	R	I	L	R	D	F	E	S	K	E	Q	N	K	R	A	I	K	N	S	L	D	E	L	L	P	A	K	L	I	P	V		
UniRef90_F5SAA1	D	Q	S	P	D	E	L	E	Q	H	L	R	R	L	A	A	D	D	P	K	K	A	L	K	N	V	L	K	G	T	L	P	E	R	L	L	P	V	L			
UniRef90_UPI00037FF262	D	D	S	E	E	E	Q	L	F	Q	R	L	L	R	D	F	E	K	S	E	N	K	K	A	V	K	N	S	L	K	G	F	L	P	A	K	L	I	P	V		
UniRef90_UPI0002EBE7C5	A	L	N	S	F	E	E	Q	L	D	L	R	L	Q	R	D	F	Q	E	F	Q	N	R	D	F	S	N	S	L	Q	E	L	L	P	A	K	M	Q	P	V		
UniRef90_R6CWR2	G	L	N	S	F	E	E	Q	L	D	L	R	L	Q	R	D	F	Q	E	F	Q	N	R	D	F	S	N	S	L	Q	E	L	L	P	A	K	L	I	P	V		
UniRef90_R6NBK0	D	V	Q	H	E	E	Q	L	M	Q	S	I	L	H	H	L	A	K	D	E	S	K	K	Q	V	K	T	S	L	K	G	L	V	P	E	R	Y	L	F			
UniRef90_V6IXK9	D	Q	H	E	E	Q	L	M	Q	S	I	L	H	H	L	A	K	D	E	S	K	K	Q	V	K	T	S	L	K	G	L	V	P	E	R	Y	L	F				
UniRef90_F9DW73	A	L	T	E	E	Q	L	D	K	R	V	L	K	D	F	E	E	A	K	N	K	Q	F	K	N	S	L	I	G	K	L	F	P	A	K	M	I	P	V			
UniRef90_R5I0Z3	A	L	S	K	E	E	Q	L	D	A	R	I	L	R	D	F	E	K	E	A	N	K	E	A	N	G	L	K	D	L	L	P	A	K	L	I	P	V	L			
UniRef90_S7J5K0	S	M	N	E	E	E	V	K	Q	K	I	L	K	V	L	K	A	E	P	K	K	A	I	K	N	S	L	C	L	K	G	F	L	P	E	R	Y	L	F			
UniRef90_UPI000470E23A	A	M	S	E	K	E	L	D	N	R	I	L	R	D	F	N	K	Y	A	N	K	D	F	K	N	S	L	D	D	L	L	P	Q	K	L	I	P	V				
UniRef90_R6PQQ0	A	L	S	E	E	Q	L	D	A	R	I	L	Q	R	D	F	S	E	N	N	R	N	F	I	N	S	L	N	E	F	L	L	P	A	K	L	I	P	V			
UniRef90_UPI000479AB76	A	L	S	E	Q	Q	L	D	A	R	V	L	R	D	F	S	E	N	N	R	N	F	I	N	S	L	N	F	L	L	P	A	K	L	I	P	V					
UniRef90_R6I7Z3	N	L	S	V	A	Q	L	E	A	Q	I	R	N	L	K	D	T	P	D	K	Y	I	K	N	S	L	H	G	L	I	E	E	R	Y	L	F	L	I				
UniRef90_UPI000366339A	D	G	N	E	H	E	V	G	V	I	R	K	C	L	A	E	F	P	K	K	S	I	K	N	S	L	K	G	E	L	L	P	A	K	L	I	H	F				
UniRef90_I8SIL7	A	L	S	A	E	L	D	K	R	I	L	Q	R	D	F	E	K	F	T	R	K	K	S	L	K	N	S	L	K	G	E	L	L	P	A	K	L	I	N			
UniRef90_H6CEG2	H	K	H	A	D	E	V	Y	R	E	T	L	E	L	A	A	D	A	K	K	A	L	K	N	V	L	K	P	Y	V	P	E	R	L	I	P	V					
UniRef90_UPI0003FA91FD	A	L	T	E	E	Q	L	D	K	R	V	L	Q	R	D	F	E	A	N	S	R	N	R	Q	F	K	N	S	L	N	G	L	F	P	A	K	L	I	P			
UniRef90_R6R9Q2	A	L	D	E	K	Q	L	D	A	R	I	L	R	D	F	E	A	N	S	R	N	R	K	F	M	N	S	L	D	K	L	F	P	A	K	L	I	P				
UniRef90_F7NQG4	A	L	T	P	E	V	L	D	K	R	I	L	Q	R	D	F	E	K	F	S	R	K	Q	I	K	N	S	L	G	E	L	L	P	A	K	L	I	P				
UniRef90_UPI00047C0DD7	D	K	K	E	E	E	V	F	Q	E	R	L	S	L	V	K	S	D	E	P	K	S	I	K	N	T	L	K	G	L	V	P	E	R	Y	L	F					
UniRef90_UPI00047B3F6E	E	L	H	E	E	Q	L	F	Q	E	R	M	Q	K	E	L	K	D	A	T	K	K	T	L	K	N	S	L	K	S	W	M	Q	P	E	R	Y	L	F			
UniRef90_D3EE17	E	R	S	Q	T	E	L	A	A	E	L	K	G	R	L	E	E	E	P	R	K	S	I	K	N	V	L	K	G	M	L	P	E	R	M	I	P					
UniRef90_J4J341	A	L	T	H	E	K	L	R	E	R	V	I	Q	R	D	F	A	T	Y	S	E	R	K	Q	L	R	N	A	M	D	L	L	P	A	K	L	I	E				
UniRef90_UPI000289C57A	A	L	K	S	E	E	L	D	K	R	I	V	Q	R	D	F	I	K	F	S	N	K	D	F	K	N	S	L	N	D	L	L	P	Q	K	L	I	E				
UniRef90_UPI0004251CA4	D	I	S	E	G	K	L	T	E	D	I	N	K	L	I	K	D	N	I	D	K	S	L	K	N	S	L	K	N	M	H	Q	E	R	L	I	T	F				
UniRef90_H0DKE8	E	M	K	Q	D	Q	L	Q	A	N	R	I	R	E	M	V	Q	D	A	P	D	K	A	V	K	N	S	L	H	G	L	V	E	E	R	Y	L	F				
UniRef90_UPI0003662EB9	A	L	S	Y	E	Q	L	D	A	R	N	L	Q	R	D	F	E	K	S	R	K	Q	F	K	N	S	L	I	D	L	L	P	A	K	L	I	P					
UniRef90_G7ZPE8	E	S	N	H	E	Q	L	K	Q	H	I	S	N	L	A	D	A	P	D	K	I	K	N	S	L	H	G	L	I	E	E	R	Y	L	F	L	I					
UniRef90_W7BF12	D	K	S	K	G	E	L	E	Q	E	V	M	G	L	V	K	D	N	P	K	K	A	V	K	N	S	L	K	S	V	M	Q	P	E	R	M	L	F				
UniRef90_UPI00047BFCBE	D	T	N	E	E	Q	L	F	Q	S	I	V	K	L	V	K	S	D	A	K	K	A	L	K	N	S	L	K	G	L	V	P	E	R	Y	L	F					
UniRef90_R5N718	A	L	T	E	E	K	L</																																			

QUERY	E	K	N	E	D	G	S	E	Q	A	G	Q	V	S	H	E	K	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_BOND27	Q	L	S	G	I	D	P	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_R7NBZ0	R	L	S	G	I	D	N	K	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_A3DDB4	K	L	S	G	I	E	P	E	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_R6ZNW7	E	R	S	G	I	A	P	E	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_R6XUP7	E	K	T	N	I	A	N	E	S	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_J8QD24	E	Y	L	N	I	D	A	S	L	T	A	A	S	L	S	H	E	D	I	R	K	L	A	A	A	T	K	Q	F	S	I	Q	V	N	G	T	Q	S	G	E	N			
UniRef90_F3B9V5	M	L	S	G	I	D	A	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_C5D6D4	E	Q	C	H	I	D	P	Q	T	P	A	G	M	L	V	S	H	E	K	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N	
UniRef90_R6RZ21	A	R	S	G	I	D	P	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_G8LUT0	R	L	S	G	I	P	P	D	K	F	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_R9N6I3	K	L	S	G	I	L	P	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_F5LQS7	K	Q	K	A	E	L	D	E	A	L	T	H	A	N	L	P	K	Q	N	W	M	E	L	S	K	A	F	P	L	R	V	I	N	G	T	Q	S	G	E	N				
UniRef90_R5TGF8	E	R	S	G	I	L	P	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_UPI0003710353	G	K	A	G	I	L	K	G	E	V	K	T	Y	D	Q	L	P	R	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N	
UniRef90_S2YRH1	E	R	S	K	I	D	P	E	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_UPI00036CA989	K	L	A	G	I	Q	E	D	T	T	F	D	N	I	S	P	K	Q	P	W	L	T	L	A	N	L	M	K	E	F	P	M	Q	A	N	G	T	Q	S	G	E	N		
UniRef90_R5UJ64	A	L	S	G	I	D	P	E	D	L	T	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N	
UniRef90_F5SAA1	H	R	S	G	I	D	P	E	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_UPI0003FA1DC	K	L	S	G	I	D	P	E	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_UPI0003813441	Q	R	V	G	L	P	E	D	L	T	Y	H	N	I	S	P	R	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_C4Z5R9	M	Q	S	G	I	K	P	E	P	E	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_UPI00037FF262	A	R	A	G	I	L	A	P	E	T	T	F	E	Q	L	P	K	G	P	W	Q	A	F	I	A	E	L	K	A	F	L	S	I	K	V	N	G	T	Q	S	G	E	N	
UniRef90_UPI0002EBE7C5	Q	K	N	Q	I	D	E	K	T	T	I	S	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_R6CWR2	A	L	S	G	I	N	P	D	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_R6NBK0	N	L	S	G	I	P	G	E	K	K	C	H	Q	L	S	R	Q	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_V6IXK9	D	Q	I	G	L	S	P	E	D	R	N	F	H	E	L	S	K	E	A	I	R	K	M	A	K	M	L	K	G	F	P	V	V	I	S	G	T	Q	S	G	E	N		
UniRef90_F9DW73	D	Q	K	A	E	I	A	E	T	E	N	G	A	D	I	P	K	E	A	I	R	K	L	A	H	L	K	A	F	P	V	H	V	I	S	G	T	Q	S	G	E	N		
UniRef90_R5I0Z3	E	L	S	G	I	D	P	D	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_S7J5K0	D	Q	A	G	I	A	A	A	C	P	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_UPI000470E23A	E	K	S	D	I	D	G	N	A	Q	S	A	T	I	S	S	Q	E	R	I	R	L	A	E	N	I	K	H	F	Q	F	K	V	N	G	T	Q	S	G	E	N			
UniRef90_R6PQQ0	R	L	S	G	I	D	E	T	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_UPI000479AB76	K	L	S	N	I	D	E	E	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_R6I723	S	L	S	G	I	P	M	D	T	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_I7ILZ5	S	E	Q	A	Q	I	S	D	D	L	T	A	H	H	S	N	A	Q	I	N	K	L	V	E	L	F	K	G	F	T	F	T	V	N	G	T	Q	S	G	E	N			
UniRef90_UPI000366339A	E	R	A	N	I	D	L	E	T	P	G	N	Q	V	I	S	A	D	S	A	I	R	E	L	A	S	M	K	S	F	R	I	A	V	N	G	T	Q	S	G	E	N		
UniRef90_I8SIL7	D	L	A	H	L	D	P	E	D	K	F	V	H	Q	L	T	K	S	E	R	V	R	L	Q	E	I	K	A	F	P	I	R	V	I	N	G	T	Q	S	G	E	N		
UniRef90_H6CEG2	Q	Q	A	G	L	R	E	D	L	T	Y	D	H	I	P	K	Q	E	R	Q	E	L	A	H	R	I	K	A	F	P	I	R	V	I	N	G	T	Q	S	G	E	N		
UniRef90_UPI0003FA91FD	K	L	S	G	I	D	P	E	K	P	L	N	V	I	S	T	K	K	E	R	A	D	F	V	A	L	K	D	L	R	L	T	L	T	G	L	R	N	F	N				
UniRef90_R6R9Q2	E	R	S	G	I	D	A	Q	C	R	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N			
UniRef90_F7NQG4	D	L	A	Y	L	D	P	D	K	P	V	H	Q	L	A	K	A	E	R	I	R	L	R	E	T	L	A	R	L	T	F	T	L	K	N	G	T	Q	S	G	E	N		
UniRef90_UPI00047C0DD7	E	H	N	G	I	D	P	P	S	E	Q	G	S	S	F	L	S	N	E	K	I	R	S	F	T	K	S	C	K	E	F	P	I	K	V	N	G	T	Q	S	G	E	N	
UniRef90_UPI00047B3F6E	E	R	N	Q	I	D	P	P	S	E	T	F	S	S	F	L	S	K	D	R	F	R	A	F	V	K	D	C	K	E	L	T	V	S	V	N	G	T	Q	S	G	E	N	
UniRef90_D3EE17	S	K	S	S	I	D	S	D	M	L	C	S	G	I	S	S	K	A	A	Q	E	N	L	A	S	V	L	K	K	E	F	T	F	R	A	S	G	T	Q	S	G	E	N	
UniRef90_J4J341	N	A	A	G	L	S	D	E	N	F	A	Q	S	I	S	S	K	E	R	R	L	V	D	T	L	Q	A	L	P	L	N	V	T	V	N	G	T	Q	S	G	E	N		
UniRef90_UPI000289C57A	N	L	S	G	I	S	P	E	N	K	K	V	N	V	I	S	K	E	E	R	R	A	L	V	K	D	F	K	E	F	T	V	N	V	N	G	T	Q	S	G	E	N		
UniRef90_UPI0004251CA4	E	Y	L	D	I	E	M	D	N	S	G	H	H	V	S	N	Q	E	R	Q	K	I	V	E	F	F	K	R	F	R	F	T	V	N	G	T	Q	S	G	E	N			
UniRef90_H0DKE8	E	Q	A	D	I	P	H	D	L	T	F	H	H	L	S	N	M	Q	L	Q	A	L	V	S	Q	L	K	H	F	E	F	S	V	N	G	T	Q	S	G	E	N			
UniRef90_UPI0003662EB9	N	L	S	I	P	E	D	K	T	F	H	Q	L	S	T	T	E	E	R	E	E	I	S	L	T	N	L	E	M	T	I	N	G	T	Q	S	G	E	N					
UniRef90_G7ZPE8	E	K	S	G	I	N	E	N	T	T	A	H	H	L	S	N	Q	Q	L	N	D	L	V	N	M	F	K	G	F	E	F	K	V	S	N	G	T	Q	S	G	E	N		
UniRef90_W7BF12	E	R	A	D	I	D	S	D	T	D	C	L	S	V	A	S	N	E	K	K	W	Q	A	F	I	E	T	L	K	K	F	Q	V	E	N	G	T	Q	S	G	E	N		
UniRef90_UPI00047BFCBE	E	K	N	E	I	D	P	L	I	T	Y	D	N	I	S	S	N	E	K	L	R	F	V	K	D	C	K	K	F	T	F	E	V	H	V	I	N	G	T	Q	S	G	E	N
UniRef90_R5N718	S	L	S	G	I	S	E	D	K	K	V	N</																																

QUERY	K A F V T
UniRef90_BOND27	E A I I T
UniRef90_R7NBZ0	E A I I T
UniRef90_A3DDB4	E A I V T
UniRef90_R6ZNW7	E A I I T
UniRef90_R6XUP7	E A I V T
UniRef90_J8QD24	K A F V T
UniRef90_F3B9V5	E A I I T
UniRef90_C5D6D4	K A F V T
UniRef90_R6RZ21	E A I I T
UniRef90_G8LUT0	E A I V T
UniRef90_R9N6I3	E A I I T
UniRef90_F5LQS7	E A F V T
UniRef90_R5TGF8	E A I I T
UniRef90_UPI0003710353	E A F V T
UniRef90_S2YRH1	E A I I T
UniRef90_UPI00036CA989	E A F V T
UniRef90_R5UJ64	E A I I T
UniRef90_F5SAA1	K A F V T
UniRef90_UPI0003FA1DCF	E A I I T
UniRef90_UPI0003813441	E A F V T
UniRef90_C4Z5R9	E A I I T
UniRef90_UPI00037FF262	E A F V T
UniRef90_UPI0002EBE7C5	K A F V T
UniRef90_R6CWR2	E A I I T
UniRef90_R6NBK0	E A I V T
UniRef90_V6IXK9	K A F I T
UniRef90_F9DW73	K A F V T
UniRef90_R5I0Z3	E A I I T
UniRef90_S7J5K0	E A I V T
UniRef90_UPI000470E23A	K A F V T
UniRef90_R6PQQ0	E A V V T
UniRef90_UPI000479AB76	E A I V T
UniRef90_R6I723	E A V V T
UniRef90_I7ILZ5	K A F V T
UniRef90_UPI000366339A	K A F V T
UniRef90_I8SIL7	E A I V T
UniRef90_H6CEG2	E A F V T
UniRef90_UPI0003FA91FD	E A I I T
UniRef90_R6R9Q2	E A I I T
UniRef90_F7NQG4	E A I V T
UniRef90_UPI00047C0DD7	K A F V T
UniRef90_UPI00047B3F6E	K A F V T
UniRef90_D3EE17	E A F V T
UniRef90_J4J341	E A I V T
UniRef90_UPI000289C57A	E A I V T
UniRef90_UPI0004251CA4	K A F V T
UniRef90_H0DKE8	K A F V T
UniRef90_UPI0003662EB9	Q A I V T
UniRef90_G7ZPE8	K A F V T
UniRef90_W7BF12	K A F V T
UniRef90_UPI00047BFCBE	K A F V T
UniRef90_R5N718	E A I V T
UniRef90_R6V9H1	E A I V T
UniRef90_R4KAT7	E A I I T
UniRef90_F7K9Q8	E A I I T
UniRef90_M8DFF5	E A F I T
UniRef90_UPI0003701047	D A F V T
UniRef90_A0A037ZAG0	E A I I T
UniRef90_W4Q6E0	K A F V T
UniRef90_W6N2B4	E A I V T
UniRef90_R7KVV8	E A I V T
UniRef90_S2XPV2	K A F V T
UniRef90_UPI00030CAC4B	K A F V T
UniRef90_W7Z5M9	E A F V T
UniRef90_D8GJN3	E A I V T
UniRef90_R7MCC0	E A I V T
UniRef90_S0JH82	E A I I T
UniRef90_U1EN56	K A F V T
UniRef90_T0PC82	E A I V T
UniRef90_R6PDT4	E A I I T
UniRef90_R6YIW9	E A I V T
UniRef90_I8AJ57	K A F V T
UniRef90_D4J8B3	E A I I T
UniRef90_K1VRN0	E E F V T
UniRef90_UPI000308E721	K A F V T
UniRef90_N9WQG6	E A I V T
UniRef90_B8FPI5	A A I V T
UniRef90_D5DN37	K A F V T
UniRef90_R7L0T5	E A I V T
UniRef90_R7I6K0	E A I I T
UniRef90_A5N8H6	E A I V T
UniRef90_UPI0003B4650B	E A I I T
UniRef90_R8W9E5	E A I V T
UniRef90_Q4L799	K A F V T
UniRef90_R6QTP6	E A I V T
UniRef90_W4EFR4	E A F V T
UniRef90_H3SJ06	E A F V T
UniRef90_R5NL50	E A I I T
UniRef90_W8YXI5	E A F V T
UniRef90_UPI000289C6BA	E A I V T
UniRef90_R5DLZ2	E A I I T

UniRef90_B2TIA3
UniRef90_UPI0004792E5C
UniRef90_D2RKK1
UniRef90_W4BSR5
UniRef90_G5GFN4
UniRef90_Q2LVB6
UniRef90_U5LGV3
UniRef90_K2GLE9
UniRef90_M1Z566
UniRef90_UPI0003681BE4
UniRef90_G7WAL7
UniRef90_C0GDV5
UniRef90_C4GBD7
UniRef90_R6INR9
UniRef90_Q5WE10
UniRef90_R5P4V5
UniRef90_F9N675
UniRef90_V9H3P2
UniRef90_D9TTA6
UniRef90_R6XC64
UniRef90_W3Y5V2
UniRef90_W7CHR6
UniRef90_U1YD15
UniRef90_E4LAM4
UniRef90_F4LJW5
UniRef90_UPI0002E01FDF
UniRef90_R6LV68
UniRef90_R6C225
UniRef90_D9S3D7
UniRef90_B1YKH2
UniRef90_W3AKG8
UniRef90_L7VNZ3
UniRef90_D2QH88
UniRef90_B7KGI5
UniRef90_R6HCP4
UniRef90_R9LT24
UniRef90_R5XQM0
UniRef90_R7CSA8
UniRef90_W9A734
UniRef90_UPI00042524F0
UniRef90_D5X793
UniRef90_E9SG51
UniRef90_UPI000288ADA1
UniRef90_G8TMD5
UniRef90_UPI0003806E4A
UniRef90_UPI0004757469
UniRef90_UPI0002881EB4
UniRef90_B4VMZ7
UniRef90_R5QGG3
UniRef90_J9HCZ5
UniRef90_UPI00040EFB50
UniRef90_R6H6T5
UniRef90_UPI0003F6416D
UniRef90_UPI0003617ED0
UniRef90_B6FYR0
UniRef90_K8E2Q8
UniRef90_E0UHX9
UniRef90_U2DAV3
UniRef90_F6B730
UniRef90_R6ICV7
UniRef90_D5WET8
UniRef90_UPI00036DCF9A
UniRef90_K9VJS3
UniRef90_Q474B9
UniRef90_R6TT30
UniRef90_T0BSY0
UniRef90_R3BIV9
UniRef90_UPI00040BBC97
UniRef90_B0C725
UniRef90_UPI00047A7C62
UniRef90_F8IFG9
UniRef90_V6SK50
UniRef90_A0A018RTJ1
UniRef90_UPI000372EE37
UniRef90_E3GP01
UniRef90_R6M0Z1
UniRef90_C8WZL4
UniRef90_C4UN18
UniRef90_D4TUR2
UniRef90_R5IS41
UniRef90_I0GSB3
UniRef90_UPI000316967A
UniRef90_UPI0003FF5BE5
UniRef90_X0U758
UniRef90_R5Z9T9
UniRef90_UPI00047318C0
UniRef90_R7BV15
UniRef90_R5XP43
UniRef90_L8DAW0
UniRef90_H1C7E0
UniRef90_C6C675
UniRef90_UPI00036C645B

UniRef90_B2TIA3 ML F T H F G V S S 50 P L I L S G S R F V I E N N K N Y K L H I D L K P
UniRef90_UPI0004792E5C ML F T H F G V S S G P A V L R C S Q F V V K E L K K G N N K E V T L E I D D L K P
UniRef90_D2RKK1 ML F T H F G V S S G P I L L T R C S R A A S T A W K K D P N Q A I L D L A S I D D L K P
UniRef90_W4BSR5 MI F T H F G V S S G P V I A L R C S Q F I R K V Q M K S G N Q I Q V I L M A S I D D L K P
UniRef90_G5GFN4 L L F T H F G V S S G P L I L L S A S S Y F I A G L V K N G N G N L R L V I D D L K P
UniRef90_Q2LVB6 ML F T H F G V S S G P I L L T R C S Q F I V D E L R K K G K K Q V V L T S V D D A V P
UniRef90_U5LGV3 ML F T H F G V S S G P A V L R C C S Q F V V K A M K K W D L K Q V V L T S V D D A V P
UniRef90_K2GLE9 ML F T H F G V S S G P A V L R C S Q F A V K E F M K G H R P V T R I E I D D A L P
UniRef90_M1Z566 ML F T H F G V S S G P I V L S M S R N V I N A D G A F K H S D K E I R L F E I D D L K P
UniRef90_UPI0003681BE4 MM F T H F G V S S G P I I L L T L S R Q A G D A L L R R G G K R V E L L R I N L K P
UniRef90_G7WAL7 ML F T H F G V S S G P I I L L T L S R R T A A Q A L L R R G G K R V E L L R I N L K P
UniRef90_C0GDV5 ML F T H F G V S S G P I I L L T L S R E A T G A L L R R G G K K T Q L Q I N L K P
UniRef90_C4GBD7 ML F T H F G V S S G P L I L L S A A S I L G R R L R K E G I L R A E I D D L K P
UniRef90_R6INR9 ML F T H F G V S S G P V V L S A S S H L T Q P E R G V Y N L H I D D L K P
UniRef90_Q5WE10 MI F T H F G V S S G P A A L R C S Q F V V K A L K K F K T P T I P M T I K D L K P
UniRef90_R5P4V5 ML F T H F G V S S G P I V L S G S S V A G K Y L K E G N L I A R I N L K P
UniRef90_F9N675 ML F A H F G V S S G P I I L L S A S H T V T K L L K K K V D P L T I E I N L K P
UniRef90_V9H3P2 ML F T H F G V S S G P I L L K G S R Y I T N N G N Y N I N L D D L K P
UniRef90_D9TTA6 ML F T H F G V S S G P V I L L T L S S Y I K N I N K S N V V I K I N L D D L K P
UniRef90_R6XC64 ML F T H F G V S S G P I V L S A S A Y V K S F P A R M V I D D L K P
UniRef90_W3Y5V2 MM F T H F G V S S G P T L L S R S T F V I G K L L R K K D P Q V S T E I D D L K P
UniRef90_W7CHR6 MI F T H F G V S S G P A A L R C S S F V I K T K E K Y K V D T V I T M K L D Q F P
UniRef90_U1YD15 ML F T H F G V S S G P A V L R V S H Y V S V T Q R K F G P A P L L L T V D T L P
UniRef90_E4LAM4 MI F T H F G V S S G P I V L S L S D M V S A L L L N E D C L K A Y I N L K P
UniRef90_F4LUW5 MI F T H F G V S S G P I L L T L S R H I I D Y L E E Y P L V S I N L K P
UniRef90_UPI0002E01FDF VI F T H F G L S S G P A A L R M G H Y V S V T Q R S V G Q V P L S L T V D I M P
UniRef90_R6LV68 ML F T H F G V S S G P L V L S A S A T L A S G K D V S Q M E L S I D D L K P
UniRef90_R6C225 ML F T H F G V S S G P T I L L S S S A H L L R Y E N L L K E G K I Q L V I D D L K P
UniRef90_D9S3D7 ML F T H F G V S S G P T I L L T S R S V V D H I E K G V I L S I N L K P
UniRef90_B1YKH2 L L F T H F G L S S G P I A L R C S Q Y T I K E R K R S G Q R V V H L S I D D L K P
UniRef90_W3AKG8 ML F T H F G L S S G P A I L R C S Q Y V V K E M K K N G S Q P V E M R L N T L P
UniRef90_L7VNZ3 MM F T H F G V S S G P V I L S A S R H I L E Y G C R D I F L R M D L F P
UniRef90_D2QH88 L L I T H W G F S S G P A I L R L S A W A A R D L A E L D Y Q M T L R I N W T P
UniRef90_B7KG15 L L I T H W G I S S G P G V L K L S A W G A R I L Q E N D R Y Q P L I N W L P
UniRef90_R6HCP4 ML F T H F G V S S G P I L L S S A A H M T N N K N Y Y I K I D D L K P
UniRef90_R9LT24 ML F T H F G V S S G P L V L S A S A Y M D G N P S D Y R M E I D D L K P
UniRef90_R5XQM0 MM F T H S G I T G P L V L S A S A R L G T A L R K S G E I K A S I D D L K P
UniRef90_R7CSA8 ML F T H F G V S S G P L V L M L S D K A S L W L S Q G H E I K A S I D D L K P
UniRef90_W9A734 ML F T H F G V S S G P A V L R C S Q F V V K E L M N G L D Y A V A M H L D A I P
UniRef90_UPI00042524F0 MI F T H F G V S S G P I G L R C S Q Y V V K A K K Y D Y A E I P M E I D D L F P
UniRef90_D5X793 ML F T H F G V S S G P I I L L T S R T V R E N L E L G Q E V V L K I N L K P
UniRef90_E9SG51 ML F T H F G L S S G P L V L S A S A H I G D I D K H S Y H I D I D D L K P
UniRef90_UPI000288ADA1 LI F T H F G L S S G P A I L R L S Q F V V K A L R K Y N T A T V T V L I D A L P
UniRef90_G8TMD5 L L I T H W G L S S G P A V L R L S A W G A R Q L A I D N W Q F A I T V N W L P
UniRef90_UPI0003806E4A L L I T H W G L S S G P A I L K L S A W G A R V L Q E H Q Y K L P L R I N W L P
UniRef90_UPI0004757469 L L I T H W G I S S G P A V L K L S A W G A R E L R D R A Y R M P L R I N W L P
UniRef90_UPI0002881EB4 ML F T H F G L S S G P A V L R C S Q F V V K E M K K N D G K A V T M R I N A L P
UniRef90_B4VMZ7 L L I T H W G L S S G P A V L K L S A W A A R F F H D C H Y Q T P L V I N W L P
UniRef90_R5QG3 L L F T H F G I S S G P T V L S A S A H M R P M A S G A F T V E I D M K P
UniRef90_J9HCZ5 L L F T H F G L S S G P A A L R C S H Y V S T A K R R H P D I D L R A T I D L V P
UniRef90_UPI00040EFB50 ML F T H F G V S S G P L V L S L S S D M I G N T K D F S L E I D D L K P
UniRef90_R6H6T5 L L F T H F G I S S G P T V L S A S A H M G K P G R Y C L A I D D L K P
UniRef90_UPI0003F6416D ML F T H F G I S S G P L I L S A S T A Y E E G C E Y I L H L D D L K P
UniRef90_UPI0003617ED0 ML F A H F G L S S G P M I L T S L G L A S N Y L Q D K N N V I V E I V I D D L K P
UniRef90_B6FYR0 M E F T D Y G L D G P I L K T A S C I M R D L S K E S Y K I S L D D L K P
UniRef90_K8E2Q8 MI F T H F G V S S G P A A L R C S M F V H Q T M G R D K S D F V T M T L D V L P
UniRef90_E0UHX9 L L I T H W G L S S G P A V L K L S A W G A R V L H D H R Y K L S L M I N W L P
UniRef90_U2DAV3 ML F T H F G V S S G P L V L S A S C H M E D A P G R Y R L H I D L K P
UniRef90_F6B730 I I F T H W G L S S G P G A L R V G R A V A L E R Q R E P D A P I R G A L D L F P
UniRef90_R6ICV7 ML E T H F G V S S G P L V L S A S S H M R N F G S A K Y R L S I D D L K P
UniRef90_D5WET8 L L L T H F G L S S G P G V L Q I T S S Y W Q P G E P I H I N L L P
UniRef90_UPI00036DCF9A L L I T H W G M S S G P A I L R L S A W G A R A L A D V N Y Q F E L V V N W T A
UniRef90_K9VJS3 L L I T H W G L S S G P A V L K L S A W G A R F L H D R H Y K T S V L I N W L P
UniRef90_Q474B9 L L W T H R G L S S G P A V L Q I L S A F W R P G T P I K I D L F D
UniRef90_R6TT30 MM F T H F G L T G P M I L S A S A H L R D L A P G K Y E A W I D D L K P
UniRef90_T0BSY0 ML F T H L G L S S G P A A L R C S H Y V I S T A R R K N P Q V S L S V I T L D D L K P
UniRef90_R3BIV9 ML F T H F G I S S G P A A L R C S S F I N Q E L T R N G N Q V I T V A L D V F P
UniRef90_UPI00040BBC97 ML F T N F G V S S G P L I L S G S R F I R G N H K Y T L T I D D L K P
UniRef90_B0C725 L L V T H W G L S S G P A V L K L S A W G A R A F H Q H R Y Q G E L T V N W G P
UniRef90_UPI00047A7C62 L L F T H F G L S S G P V A L R C S H Y V S T H R K R P G I R L L A Q V D G H P
UniRef90_F8IFG9 L V F T H F G L S S G P A A L R A S H Y V T V S L R D K P E A K L T A S I D V R P
UniRef90_V6SK50 L L I T H W G M S S G P G I L R L S A W G A R E L A T K N Y Q F T L Q V N W L H
UniRef90_A0A018RTJ1 L L F T H R G L S S G P A V L Q I L S S Y W Q P G E L V S I N L L P
UniRef90_UPI000372EE37 L L I T H W G V S S G P A V L K L S A W A A R E L H D A R Y Q A R L S I N L L P
UniRef90_E3GP01 ML F T H F G V S S G P L V L T M S A F M K P Y E D Y T L T I D D L K P
UniRef90_R6M0Z1 L L F T H F G L S S G P V V L S A S A H M N E K D S Y T V L L D D L K P
UniRef90_C8WZL4 M V F T H F G V S S G P V V L E L S Q Q A V D L L R N G E C P E L C I D D L K P
UniRef90_C4UN18 I L E T H R G L S S G P A I L Q L S S Y W Q P G E Y V S I N L L P
UniRef90_D4TUR2 L L V T H W G V S S G P A I L K L S A Y G A R L L Y E K R Y Q G K V L Y I N W L P
UniRef90_R5IS41 L L F T H F G L S S G P V I L S A S A H M A R G E A G Y T V R I D D L K P
UniRef90_I0GSB3 MM F T H F G V S S G P I L L S L S R A A T E A L Q N D A F V E L E L N L K P
UniRef90_UPI000316967A L L F T H R G L S S G P A V L S I L S S F W R E A A A L S I N L V P
UniRef90_UPI0003FF5BE5 L L V T H W G M S S G P A I L K L S A W G A R I L F E K N Y Q F T I F V N W L N
UniRef90_X0U758 ML F T H F G V S S G P I V M D M S K N I G A L L K K G S V K L L I D D L K P
UniRef90_R5Z9T9 ML F T H F G I S S G P T I L S S S A H I I R Y K N I N K Q G K I L L K I D D L K P
UniRef90_UPI00047318C0 L L F T H R G L S S G P A V L Q T S S Y W Q P G A Q L T I D D L K P
UniRef90_R7BV15 ML F T N R G L S S G P I A L T L S S Y I N R K Q N V R L S I D D L K P
UniRef90_R5XP43 MI F T H F G V S S G P I L L S G S A H I L L R Y E E L F N K G S I K L L I D D L K P
UniRef90_L8DAW0 I L F T H R G I S S G P A I L Q I S S F W Q A G Q A V A I N L L P
UniRef90_H1C7E0 L L F T H F G L S S G P L I L S A S A H M R D F D T E H Y Y F I N L D D L K P
UniRef90_C6C675 L L F T H R G L S S G P A I L Q L S S Y W Q P G E F I T L D D L K P
UniRef90_UPI00036C645B L L F T H R G L S S G P A V L Q L S S Y W Q H G D Q L E V D L V P

UniRef90_B2TIA3 S L N L G E L D K R I L Q R D F N K Y L N K D F K N S L N E L L P Q K L L L P M I L L
UniRef90_UPI0004792E5C D Q S F Q L L D D R Y N K H L E E N P K K T V L K N V S K G L L V P E Q R F L D Y L L
UniRef90_D2RKK1 A L T P E Q L L D A R I L Q R D F A K E Y S R R K Q L K A G L H K D L L V P P Q R S R M I P L V L L
UniRef90_W4BSR5 E L S L G A L L D A R Q L Q Q V L F A K E Y S R R K A V L K N I L K T W V L L V P P Q R S M I P L L M M
UniRef90_G5GFN4 A L D K N G V L D A R I L L R D F E K E Y K N K S V L K N A L G D L L L L Q S L I P L V I T
UniRef90_Q2LVB6 A L D E E Q L L D A R I L Q R D F E K E N G K K H L D N M F K D W L L L P A K M I P L V F I
UniRef90_U5LGV3 D R K E E P L F Q E V S S L I K N E I L K A D P K K S I L K N I L K G L L L P A K R Y L P L F L L
UniRef90_K2GLE9 E Q S L E Q L T E T Y L L Q K S K D H P K K T W K N T V K G V L L P E Q R M I D F L M
UniRef90_M1Z566 A L T S K E K L D K R I L L R D F E K F Y S Q R K I T I K N A L G L D E L L L P P Q K L L P L I T
UniRef90_UPI0003681BE4 A L T P E K Q L D A A R I L Q R D F Q K Y T N K Q F K N A I D D L L L P P Q S L I P V A I
UniRef90_G7WAL7 A L T P E Q Q L D A R I L Q R D F Q K Y T N K Q F K N A I D D L L L P P Q S L I P V A I
UniRef90_C0GDV5 A L T P E Q Q L D A R I L Q R D F Q K Y T N K Q F K N A I D D L L L P P Q S L I P V A I
UniRef90_C4GBD7 A V S E Q E L D A R I L V Q R E I R D K I N K S Y K N L Y G G L L L P P S K L I E P V V I
UniRef90_R6INR9 A L A F D V L D R A R V Q R D F S T L Q N K D L I N A L G G L L L P P R K L I P V F V
UniRef90_Q5WE10 E Q S A E S L F Q A L V R A K A E E P K K T L K T A L K G M A P P R K L L L Y L Y
UniRef90_R5P4V5 A L T S K E Q L D D R I L R D F E F T N G I N K D I V N V M D N L L L P P K K L I P V M L
UniRef90_F9N675 A L T K E V L D K R I V Q R D F S E S Q N K Q L V N V L K G L L L P S K L I P V I C
UniRef90_V9H3P2 A L S N E E L D K R I Q Q R D F K K F I L K K D F K N S L D E L L L P P R S L L P L I
UniRef90_D9TTA6 A L T Y E K L N D R I Q R D F K K Y L K K E F K N S L N D L L L P P K S L T P Y I I
UniRef90_R6XC64 A L D E K A L D S R I L S D F S A E K N R I F A N S L S A L L L P P R A M I P V I V
UniRef90_W3Y5V2 A L T P D V L D E K R I Q R D F D L K Y S K K Q L T N G M K D L L L P Q R N L L P V V I
UniRef90_W7CHR6 D L K L K D L E E D V L M Q R V K N D P K K Q V K N A L K G L I Q E R L L L F F I
UniRef90_U1YD15 D K T T D N I E R E T Q N M M K K E F P K K A V K N V L R T Y I P E R L L L H L I L
UniRef90_E4LAM4 A L T Q E V L D K R I L R D F E K F H L K Q I S T V M K E L L L P H K M I D I V L
UniRef90_F4LJW5 A L T E Q E L D K R I L R D F H L K N K I F K N A M D L L L P P K K M I P V F I
UniRef90_UPI0002E01FDF D K T Q D E I F A E S W S R M A D Q P K K A V K N V M K G F L L P E R M I P L L L
UniRef90_R6LV68 A L S K E Q L D D R I L R D F S E N R N K S Y F K N S L S R L L L P A K M I P V I V
UniRef90_R6C225 A L L Q K E K L D N R I L Q R D F L E G K N K E F K N S L N N L L L P A Q K M I D T V V
UniRef90_D9S3D7 A L D R E R L E N R I L K R D F Q K Y S R K H I K N A L D D L L L P K R L I P V F I
UniRef90_B1YKH2 E E S G A L T E R F Q A A L A A N D P K K T V R N A L K G F V P E R L L L D L L F
UniRef90_W3AKG8 E E N A E S A F Q L L H N M M K A D E P K K A V K N V W K S I T Q E R W L L F L M
UniRef90_L7VNZ3 D L T E E G L D I R I L Q N D F Q E N P R K M F K N S L N K L L L P S L L V P V I A
UniRef90_D2QH88 D L N E S L R V A L R V A L Q N G R K Q V T S Q N P F A L P S R L W Q M M A
UniRef90_B7KGI5 E Y N S E S L R Q E V L K T F K E Q Y S K R K I Y R F C P F N L P K R L W Q R L L
UniRef90_R6HCP4 A L N L E Q L D K R I V R D F D K F K N K N F S N S L D N L L L P K K L I P T I V
UniRef90_R9LT24 G L E E Q Q L D T R I L L R D F E E A R N R D F S N A L D H L L L P P S R L P V A V
UniRef90_R5XQM0 A L T P E Q L D A R I L R E F E S A G K N R Q F K N V I S V L F P P S S L T P V M L
UniRef90_R7CSA8 A L T E D V L D K R V L R D L E T Y H L K Q M A G A L Q D L M P H R M I D V I L
UniRef90_W9A734 S T K E H V L D E S L K A M K H P K R S I K T L L K G L V P E R F L D Y L L
UniRef90_UPI00042524F0 E E S A G Q L A E S L K A M K D A P K K A L K N A F S G M L P E R L L P V T L
UniRef90_D5X793 A F T Q E Q L D N V I L R D F E K N R R K Q L N N S L G E L L P G S L V P V I I
UniRef90_E9SG51 A L S K E Q L D A R I L L R D L G S F P N R E F G N S L G K L L P A K M I P V I V
UniRef90_UPI000288ADA1 D R T D E V S A D L L K R T E S A G K L G S I W K G I V P E R Y L R C L M
UniRef90_G8TMD5 R F N E Q T L R E H L Q Q L R F E M A A Q K I V N R N P F D L P Q R L W Q Y L L
UniRef90_UPI0003806E4A E F N P E T L R Q H L L A T K Q A T P K R K I S N Y C P V D L P K R L W Q R L L
UniRef90_UPI0004757469 Q Y N N E T L R Q H L L E I K T Q Q P K R K I J A N C P F D L P K R F W Q K I V
UniRef90_UPI0002881EB4 D Y N A E S A F Q L L M K K A K D D P K K A L K N A W K G I V P E R W L L F L M
UniRef90_B4VMZ7 Q Y T Q D Y L R Q L L L S V K S Q L P H R H I S T S C P I P I P K R L W Q S L I
UniRef90_R5QG3 A L D E Q T L D R R I L M S D F E K Y K N K D F A N A L C D L L P A K M I P V I V
UniRef90_J9HCZ5 S M K Q D E W L H S L L A D R A N H P R R A V R T E L E L T F P E R L A A Y I A
UniRef90_UPI00040EFB50 A L S L E Q M D A R I Q R D F L K Y Q N R D F G N A L G D L L L P S K M I P V M V
UniRef90_R6H6T5 A L E E G K L E A R V I R D F L E Q Y K N R S F M G N A L D D L L L P R S M I P V I L
UniRef90_UPI0003F6416D A L S H E M L D K R I I R D F E D G R R K E F R N V L G G L F P S K L I P V I I
UniRef90_UPI0003617ED0 A L D L Q T L E N R I Q R E L K E N S K K Q M A S L R S L M P A S L I P V V L
UniRef90_B6FYR0 A L D H E K L D K R V Q R D F Q K Y I N K R F E N S L S D L L P S K M I P V V V
UniRef90_K8E2Q8 T F S S G Q L N Q K F Q Q L I K N E G D K S L K N A L K G L V P E R Y L L F A F
UniRef90_E0UHX9 E Y N S E T L R Q A L L K V K S S E P K R K V F S Y C P F N L P K R F W Q R L V
UniRef90_U2DAV3 G L T R E A L D R R I L L R D F E Y R N K N L Q N A L G K L L P Q K R L I G S Y V
UniRef90_F6B730 T R S S E E L A R E L G K L A Q A A P K K S V K N L L T M L V P E R L V K V L L
UniRef90_R6ICV7 A L D E K K L D A R L L R D F E K Y A N R D F A N S L C D L L A G K T M I P V V V
UniRef90_D5WET8 E R D A A A A L L D A K Y A M R Q I A N L L S E W V P Q R L A H V W L
UniRef90_UPI00036DCF9A E Y T H D E I I E E L L A F K Q E H P K K T I S K Y P Q H H I P N R L W H S L V
UniRef90_K9VJS3 Q E N A E V L R Q Q L L A V K S Q L S H R L I V S S C P F P V P R R L W E R L T
UniRef90_Q474B9 G Y D A A G W L E Q K A G S R K H L A N L L S Q R L P A R L A D A W C
UniRef90_R6TT30 A L D E K T L D A R I L L S D F G R Y A N R E F D N A L H D L L L P A K M I P V L V
UniRef90_T0BSY0 T S P R P A L E Q T L A A G R K H P R R S I A T H L G E M F P E R L V D F L L
UniRef90_R3BIV9 T K S F E V L K N V D Y M I K E Q P N R S I A T H L G E M F P E R L L T F Y L
UniRef90_UPI00040BBC97 A L D E V A L D K R L Q K D F Q G A L N K A F K N S L D A L L L P Q K I I P I I
UniRef90_B0C725 H S S Y E D L R Q Q L G Q T R T A V A K R A I A N H C P V D L P Q R L W Q K L I
UniRef90_UPI00047A7C62 E R S L Q E L V D L F H R K S A Q P K R H L S N V L S D L L P E R L A H V V L
UniRef90_F8IFG9 D Y T F E D W M A L L K S A R E R H P K R R L R T E L E R H V P D R L A A F I L
UniRef90_V6SK50 E T D F E E A V A H L K G L K E N A K K L I M K F C P F E F P K R L W E S L V
UniRef90_A0A018RTJ1 D L S L E D V L N E Q R N A H P N Q S L K N T L A M H L P K R L V E C L Q
UniRef90_UPI000372EE37 K Q N P E Q L R Q E L T A V R N Q I P Q K T I A A N C P V M L P R R L W E R L T
UniRef90_E3GP01 A L S M E Q M D V R L Q R D F E K Y H N K H F I N G L V D L L P S K M I P V M V
UniRef90_R6M0Z1 A L D E Q K L D L R L L R D F E K Y Q N R D F E N A L V E L L P R S M I P V I V
UniRef90_C8WZL4 A L D E T K L D A R I L L R D I Q H K G K Q I A N W L R D L L L P T S L I P I C L
UniRef90_C4UN18 D T D L D S F L N N E R Q A H P N Q S L K N T L A Q L L P K R L V E C F
UniRef90_D4TUR2 D L S L E V K Q K L D V K Q E W G K A L A L H R G V D L P H R L W Q Y L I
UniRef90_R5IS41 A L D E K T L D A R I L L R D F S A A Q N R D F E N S L S A L L P R S M I P V V I
UniRef90_I0GSB3 A L A E D V L D A R I L Q R D F A K Y Q R K K Q L G N A M V D L L P H K L I E P V L
UniRef90_UPI000316967A D V D V A E S L V A G K N S I K K N L G N V L A Q W L P A R L A E G W L
UniRef90_UPI0003FF5BE5 D I D S E D A E K L L K E L K Q E H S K K T V S K K S P F E F P A R L W E S L V
UniRef90_X0U758 A L D F K K L D K R I Q R D F E F K G R M F K N S L K G L L P S M I P L I I
UniRef90_R5Z9T9 A L S N E K L D L R I L R D F E K E K N K L F R N S L D E L L L P Q S L I D P V I
UniRef90_UPI00047318C0 D M D V A Q T L I E G K S T L K R N L G N T L S Q W L P A R L V D G W L
UniRef90_R7BV15 A L D E N T L D K R I L R D F D E R K N Q D I K N V T R A L L P E R L N A Y V L
UniRef90_R5XP43 A L T Y E K L D S R V L R D F N A E K N K L F R N A L D N L L P K R L I E P V I
UniRef90_L8DAW0 E K N V A E L T A T W K V Q S P Q K S L K N A L S G L L P K R F V E T L G
UniRef90_H1C7E0 A L D E E K L D R R L L R D F E E N A N R D F H N V L E G L A P R L M V P V L V
UniRef90_C6C675 G Q D V A A L L D A E R Q A H P N Q S L K N T L A Q W L P K R L V E S L Q
UniRef90_UPI00036C645B D V A L I E D Y L V E H K P G N R Q H V A N V L A H L M P R K L A E F W V

UniRef90_B2TIA3
UniRef90_UPI0004792E5C
UniRef90_D2RKK1
UniRef90_W4BSR5
UniRef90_G5GFN4
UniRef90_Q2LVB6
UniRef90_U5LGV3
UniRef90_K2GLE9
UniRef90_M1Z566
UniRef90_UPI0003681BE4
UniRef90_G7WAL7
UniRef90_C0GDV5
UniRef90_C4GBD7
UniRef90_R6INR9
UniRef90_Q5WE10
UniRef90_R5P4V5
UniRef90_F9N675
UniRef90_V9H3P2
UniRef90_D9TTA6
UniRef90_R6XC64
UniRef90_W3Y5V2
UniRef90_W7CHR6
UniRef90_U1YD15
UniRef90_E4LAM4
UniRef90_F4LUW5
UniRef90_UPI0002E01FDF
UniRef90_R6LV68
UniRef90_R6C225
UniRef90_D9S3D7
UniRef90_B1YKH2
UniRef90_W3AKG8
UniRef90_L7VNZ3
UniRef90_D2QH88
UniRef90_B7KG15
UniRef90_R6HCP4
UniRef90_R9LT24
UniRef90_R5XQM0
UniRef90_R7CSA8
UniRef90_W9A734
UniRef90_UPI00042524F0
UniRef90_D5X793
UniRef90_E9SG51
UniRef90_UPI000288ADA1
UniRef90_G8TMD5
UniRef90_UPI0003806E4A
UniRef90_UPI0004757469
UniRef90_UPI0002881EB4
UniRef90_B4VMZ7
UniRef90_R5QGG3
UniRef90_J9HCZ5
UniRef90_UPI00040EFB50
UniRef90_R6H6T5
UniRef90_UPI0003F6416D
UniRef90_UPI0003617ED0
UniRef90_B6FYR0
UniRef90_K8E2Q8
UniRef90_E0UHX9
UniRef90_U2DAV3
UniRef90_F6B730
UniRef90_R6ICV7
UniRef90_D5WET8
UniRef90_UPI00036DCF9A
UniRef90_K9VJS3
UniRef90_Q474B9
UniRef90_R6TT30
UniRef90_T0BSY0
UniRef90_R3BIV9
UniRef90_UPI00040BBC97
UniRef90_B0C725
UniRef90_UPI00047A7C62
UniRef90_F8IFG9
UniRef90_V6SK50
UniRef90_A0A018RTJ1
UniRef90_UPI000372EE37
UniRef90_E3GP01
UniRef90_R6M0Z1
UniRef90_C8WZL4
UniRef90_C4UN18
UniRef90_D4TUR2
UniRef90_R5IS41
UniRef90_I0GSB3
UniRef90_UPI000316967A
UniRef90_UPI0003FF5BE5
UniRef90_X0U758
UniRef90_R5Z9T9
UniRef90_UPI00047318C0
UniRef90_R7BV15
UniRef90_R5XP43
UniRef90_L8DAW0
UniRef90_H1C7E0
UniRef90_C6C675
UniRef90_UPI00036C645B

130 140 150 160
E M S N I P E E K K V N E I T K E E R F S R R L V N L L K D F S F D L V N G S Q R P L I A
Q K N D I S L K P E N E Q R A A N Q I S T R R K E E K F S R R L V N L L K D Q F S R F S L V L N G S Q R P L I A
D A A C L S K D P E E Q E L A A N Q I S T R R K E E K F S R R L V N L L K D Q F S R F S L V L N G S Q R P L I A
K R A E I S L K P D D E T T F H H F P K R G M L S R N L V N L L K D Q F S R F S L V L N G S Q R P L I A
D R A M N I S P S P E T T R V N E I T K K E H R H R L L V N L L K D Q F S R F S L V L N G S Q R P L I A
D L L Q L N P S P D A E Q C G Q T V I T K K E S K E R R R K L L V N L L K D Q F S R F S L V L N G S Q R P L I A
D W N E I D N P S P A S A Q G G T V I T H E K E I R L F V K S C K D A F F T F R A D D G G T R S G F F K E
E N G I T P E E T N A H I L I T K E E Q F H S F L K N L K Y F H V S V H D S Q R P L I E
D J A S I N G G E K A F V H Q V V I T T K E E E R L R L A E A L K H L V L P L T T F K A R T F R R P L I K T E
R L S E I N P D K A V H Q V V I T R Q E E R R T F L K E T L L Q T G L T L T T V I T T A T E T R S L I E R S
R L S G I S G D V P V N N Q I T L T K Q Q R R K L A E T L L K H F P L T L T N L V I T T A T M R S S F S
A R T G I D Q D D K K M H D L T L T R E D R E R I R L M R C L K H F P L T L T N L V I T T A T M R S S F S
R R S G L E P S G K K V N Q I T L T R E E R H A L V R L M K D F A V H I L I T T D T F R S V I E E
Q S L E I D S S E M C A N S T P H E D A F R R K L A S A F L D A L P L H A N G S T L R S S F N
D Y C E I E S H K K V N Q I T P K E E E R N R M V E A F K G L K L T T V I T T S T L R S S F N
Q L A E I E E G T K A I H D I T T K E E E R L R L V D A I Q H M R L T T V H K P R R P I A E
E L S G I S E N P K K V N S E V I T K E E E R N A L V N H A L K G E I K L K V I M K L R P I E K
K R S G I D P Q K Q V N A I T T K D E R K R L V Q L M H S F E I N L V N G T R P L V D E
R L A E L D P P A K P V N Q I T T R D E R Q R L C H V L Q H M T L T V V K G K G T Y D F D
E R L E I D P P E E M C V A I S P K K W V Q L A S V L K D F R F V V V K G K G T Y D F D
E M A D I E E N T T Y A H I S H T K W R E M A S Q L M K Q F P V T I T T G T L P L E E
E L S G I D K D L P V N S E V I T K K A Q R R S L V K T M R N F P I T T I T T S G C K R E I E K
N Y T E I D P E K P V N Q I T S K R H W Q K F S A A I K R F P L T T I T T S G T L R S S F N E
K L A D I P E E M T Y D H I L I T K R E E R N R L V N L K K G L T F K V I E S G F R P I E
E L S E I D E K K K V N N I T T K E E E R N R L V N L K K G L T F K V I E S G F R P I E
S L S K I N P Y K K V N S E V I T R E E E R M N L V N L K K N F T I T T I T T S G F R P I E
D V C R L D P E K P V N Q I T L T R E E E R N I L I E K L T D F R V L T T V I T T G C M E K
A R I G F G D E V C T Q I L K K S D D F T Q L L A T L K A F S P L M Q A V T T G T L P L E E
E R A G I D P Q A L G A E I T L K S D K V R L L A Q Q L T A F S Q M S V T T G T L P L E E
E L S G I L P P E K A S A N Q L V T R N E R Q R L V N L K N L K C E I V T T G S R S T F D
T E A G I A E T Q R W A D L P A K P L N L T E R L T N N Q V F I T T I T T S G T L R S S F N E
S L T G I N E D S P W A D L S K K A L N N Q L V Q E L N Q G V Q I E M G K G V F F K
N M S G I P E N T K C N Q I T T K E L R L N L A K L I K S F T I D I K G C R P I D
R L S G I S P A D T K V H S I V S K E Q R R S F V G A L L K A F P V T P A N G F F G E F F K
K I G G I S P A E K P I H E I L R F G A L V K A F P F T I N G F F G E F F K
S L A G I S E R D L T V S D L S K A Q R I A L V K T M K A M P L T V T V T T G S R P I S E
Q A N G I S P E A Q N G A N I T S H E A I R S I L A D M K N F T F N V T T G S R S L S I E E
Q L C G L S E S A V C T E T P H D S I L R L A R V W K E F P L T A T G T L R S S I R D
R L S N I P S G D K P V H Q I T S K R E E R L R L L A L I Q G L T L T T I S R S R S L I R D
K R S G I S P S D K R V N Q I T T S K E E R R D L V E L K K A F T Y K V I D R N G T L R S I D E
N R A D V S P T L T V S Q L T S K E K V R S V A E G L K A F P V R I N G T L P I E
Q Q S G I D E D K R W A D L P A K E Q N K L I A N C C A Q E E F K I Q G K T T F K
T T V G I S E E E R W A E L T K A K A L N A L V Q E L T G G G E Y H I L G G K G V F F K
S Y V G I S P D K P W A E L L A K A L N K L Q E L N Q G G E Y K I L G G K G V F F K
Q Q A T I D E A S T G A D L S N E L A R Q L A K E I T S F E M K V N G T Q P L A
S Y V G I P P N K R W A E L S K K A L N Q L V Q E L N Q G G H Y L I Q G G K G V F F K
S R C G I D P S Q K V N S V T K E Q R R A L L S A L R H F R I E I S Q G K F P I E
H V V N V P A D L Q L A H I T R V Q M N E L G Q T I K R C P I H V T T G T L P L E E
T L S G I P P A A K V N Q I T R E Q R K L V E C F K Q L K I G I A G S K R P V E
R R T H I P E D L P A H S I T R Q Q R H S L V N I T T K D L T M T V T T G T R G F N
E L S E I N P D K K V S E I D K A E R T R L V N I T T K D L T M T V T T G T R G F N
D V A F V T D G T V A S Q L P K A A R R N L I E T T K G L S E N V T T G T R P F A
E L S G I D P A T P V N S I T T K E E R R N L I E T T K N I L E H V K R Y R P M E
D R L G L L E T M P L K Q C T P D Q I Q A L A E F F K D F R F T A N G T Q P L E E
S F C E I N S E K V W A E L T S K K G L N L V Q E L T Q G G V Y K I E G K G V F F K
A L T G L P G E K K V N Q L T Q A E R G E M V R V M K T D L P L T V S G F R P A A
E L A G M P P E T P G G P L N K T Q L A K L A D L L K A L P V H I S K G T R P I E D
D L S G I P A A E K V N S I T R Q Q R H D L R L L F K E F P V S I S G P R P I D
E T H Q V A A E A R V A S D L P D K S L R R I L G E A L S R W T L T P N G T E G Y R
Q A S G I A E T L I W A D A N K K Q L Q Q L A E Q M T Q C T F Q I H G K S F F K
S S I G I D E G K R W A D L S N K T L D R R L G A S L N D W G E Y Q I A G K G A F K
A A A G V D G S L P L H D I A D K A L R R L L G A S L N D W G V V P S A G T E G Y R
E L S G I D P H K K V N L V T R E E R R H L A E L F K C F R I P L L R T R P I A
H K A S V P A S T Q L A N L S K V H L D A S I K A C P I H I T T G T L P L E E
E K L A I A E V P A K Q L T E K V Q R L S F V T L L K D F Q F T V T T G T L P L E E
K L S E I D E N K K V N E I T K V E R R T L V T L L K N L T M T I S G L R P I D
A A A G I S P Q Q R W A D L S K T H L R S L L Q E L T Q G K F H V I L G K G V F F K
E T L G I A R D I P M T D L Q N V K L R E E V K Q E T K R F V A I V I T G T L P L A
H E A Q V D G E V P M A Q A S H A H L T R V S R A L K R L V I P V I T T G T L P L E E
T A S G I S A E T K W A D L S K K Q L T D L A N Q L T N G Q F Q V N G K S T F Y K
Q L G H I P D V S L R Q L N V R D Q Q A L V D T L T A W Q V Q P N G T E G Y R
E A V G I Q K E R R W A E L T N K T L N Q L I Q E L M Q G S Y Q I S G K G V F F K
K C S G I P E D K R V N Q I T R E E R R H L A E L F K G L A L H V I T S L Q D I N E
R R S G I P A E E K V N S I T R E Q R R A L L E L M K R F P V E I A C K A P V E
E A T G L D G S L Q A G Q M T A R Q R R N L K M W L K Y F P L P L T G Y R G F E
Q L L G Q L P D V T L K Q L N N P P Q Q A A L V Q M L Q A W R V Q P N G T E G Y R
D R V N I S V E D R W A E I T L N K Q V L N A Q L A Q E I H G G E Y V I T G K G E F F K
A R S G I D P M Q K V N S I T K Q Q R R A L L E T I K C F S V P I A C K A P V E
D A A F L E M D K P V H Q I T V E E R H R L G G S L N Q H L P L T I T K A R P I A
L A N G F N A D A K V A E I P D K Q R R K L G E S L N R W T L T P N G S E G Y R
L A S G I S E E T K W A D L S K A Q L Q N L S N Q L T N G Q F Q V N G K S T F K
K L S A I E P E K K V N S I T S R E E R N Q L H L K E L E L T P T G L L G F N E
H L S G I L N P N K K V N E I T S K K E R M Q L K L K E F C I T L S G F R P V E
Q L K G F R A D A R I A D M T D K Q L R L L G E S L N A W V I T P D G S S E G Y R
K C A N I A E S K K V N E I T K Q E R A K L V E T L K N L R F D V L S L A P S I D
E L S G I N E N K R V N E I T K E E R K L V K L L K E F T I T L K A F S I D
E Q Q Q L P D K A L N Q L L H A E I E S V A K T L H Q W Q L K P N G T E G Y R
A E T G I P A A E K V H S V N K A Q R R L L E V L K C L R I D I P T G P R P V E
A L E Q L P D T L K Q L N N K P Q R T Q V L E T T L Q C Q W R F Q P N G T E G Y R
T N A G L E G K H M A D V S D K A L R S L A N S L K H W K I T P N G S E G F K

UniRef90_B2TIA3	E G V T
UniRef90_UPI0004792E5C	K A F V T
UniRef90_D2RKK1	E A V T
UniRef90_W4BSR5	E A F V T
UniRef90_G5GFN4	E A V V T
UniRef90_Q2LVB6	E A I T
UniRef90_U5LGV3	K A F V T
UniRef90_K2GLE9	K A F V T
UniRef90_M1Z566	E A V T
UniRef90_UPI0003681BE4	E A V T
UniRef90_G7WAL7	A A V T
UniRef90_C0GDV5	E A V T
UniRef90_C4GBD7	E A I T
UniRef90_R6INR9	E A V T
UniRef90_Q5WE10	K A F V T
UniRef90_R5P4V5	E A I T
UniRef90_F9N675	E A V T
UniRef90_V9H3P2	E A V T
UniRef90_D9TTA6	E A I T
UniRef90_R6XC64	E A I T
UniRef90_W3Y5V2	E A V T
UniRef90_W7CHR6	K A F V T
UniRef90_U1YDI5	Q A T V T
UniRef90_E4LAM4	E A V T
UniRef90_F4LUW5	E A V T
UniRef90_UPI0002E01FDF	E A F T
UniRef90_R6LV68	E A I T
UniRef90_R6C225	E G V T
UniRef90_D9S3D7	E A V T
UniRef90_B1YKH2	K A F V T
UniRef90_W3AKG8	K A F V T
UniRef90_L7VNZ3	E A V V T
UniRef90_D2QH88	D E F V T
UniRef90_B7KGI5	E E F V T
UniRef90_R6HCP4	E A I T
UniRef90_R9LT24	E A I T
UniRef90_R5XQM0	E A V T
UniRef90_R7CSA8	E A V T
UniRef90_W9A734	K A F V T
UniRef90_UPI00042524F0	K A F V T
UniRef90_D5X793	D A M V T
UniRef90_E9SG51	E A I T
UniRef90_UPI000288ADA1	K A F T
UniRef90_G8TMD5	E E F V T
UniRef90_UPI0003806E4A	E E F V T
UniRef90_UPI0004757469	E E F V T
UniRef90_UPI0002881EB4	K A F V T
UniRef90_B4VMZ7	E E F V T
UniRef90_R5QGG3	E A V T
UniRef90_J9HCZ5	K A T V T
UniRef90_UPI00040EFB50	E A I T
UniRef90_R6H6T5	E A V T
UniRef90_UPI0003F6416D	E A I T
UniRef90_UPI0003617ED0	E A V T
UniRef90_B6FYR0	E A V T
UniRef90_K8E2Q8	K A F V T
UniRef90_E0UHX9	E E F V T
UniRef90_U2DAV3	E G V T
UniRef90_F6B730	E A T V T
UniRef90_R6ICV7	E A V T
UniRef90_D5WET8	K A E V T
UniRef90_UPI00036DCF9A	E E F V T
UniRef90_K9VJS3	E E F V T
UniRef90_Q474B9	K A E V T
UniRef90_R6TT30	E A V T
UniRef90_T0BSY0	Q A T V T
UniRef90_R3BIV9	K S F V T
UniRef90_UPI00040BBC97	Q A V T
UniRef90_B0C725	D E F V T
UniRef90_UPI00047A7C62	Q A T V T
UniRef90_F8IFG9	K A T V T
UniRef90_V6SK50	E E F V T
UniRef90_A0A018RTJ1	T A E V T
UniRef90_UPI000372EE37	D E F V T
UniRef90_E3GP01	T A I T
UniRef90_R6M0Z1	E A V T
UniRef90_C8WZL4	E A V T
UniRef90_C4UN18	T A E V T
UniRef90_D4TUR2	E E F V T
UniRef90_R5IS41	D A V T
UniRef90_I0GSB3	E A V T
UniRef90_UPI000316967A	K A E V T
UniRef90_UPI0003FF5BE5	E E F V T
UniRef90_X0U758	
UniRef90_R5Z9T9	E A I T
UniRef90_UPI00047318C0	K A E V T
UniRef90_R7BV15	E A V T
UniRef90_R5XP43	D A I T
UniRef90_L8DAW0	T A E V T
UniRef90_H1C7E0	E A V T
UniRef90_C6C675	T A E V T
UniRef90_UPI00036C645B	K A E V T

UniRef90_C8NIL4
UniRef90_UPI00047E993F
UniRef90_A0A024PJQ8
UniRef90_N4W103
UniRef90_UPI0004769544
UniRef90_UPI00041F92EE
UniRef90_R5SMF1
UniRef90_V6Q4T4
UniRef90_I3D9U4
UniRef90_X8K6H9
UniRef90_G8X713
UniRef90_UPI0004713A0D
UniRef90_R2R678
UniRef90_UPI00037B0658
UniRef90_K9T8B6
UniRef90_R5SZH5
UniRef90_C0BGY8
UniRef90_E1SHJ1
UniRef90_L2ECX5
UniRef90_A7HY96
UniRef90_R5B469
UniRef90_B7JUT2
UniRef90_UPI000469D9E0
UniRef90_G4KPM6
UniRef90_D6SQM4
UniRef90_G0IW18
UniRef90_B2U927
UniRef90_UPI00035CB4E6
UniRef90_D0Z0V6
UniRef90_H0P094
UniRef90_UPI000400CE66
UniRef90_A3U764
UniRef90_E1W1F7
UniRef90_UPI000466558E
UniRef90_D7DXK3
UniRef90_K9UWT5
UniRef90_UPI00029A4BC2
UniRef90_UPI00035CE7AE
UniRef90_B1XZ35
UniRef90_UPI00036CE944
UniRef90_K9S7D6
UniRef90_X2H1P0
UniRef90_UPI000395C1DA
UniRef90_L0MMJ4
UniRef90_L7ELV7
UniRef90_K6I1D7
UniRef90_C6W7N8
UniRef90_UPI0003478E2F
UniRef90_UPI00034B318E
UniRef90_M2TN16
UniRef90_E1TGB0
UniRef90_Q5LU70
UniRef90_UPI00046E7068
UniRef90_UPI00041D2B91
UniRef90_UPI00035E644A
UniRef90_UPI00046805D5
UniRef90_UPI000465EBB8
UniRef90_D0J3L2
UniRef90_L1N9J1
UniRef90_U1LPM0
UniRef90_R2QY60
UniRef90_K9YMB4
UniRef90_K7VTV6
UniRef90_A4J6M1
UniRef90_C5TB84
UniRef90_Z5XME9
UniRef90_Q0TM34
UniRef90_I0DU44
UniRef90_F4KY24
UniRef90_S1R0A9
UniRef90_Q0F177
UniRef90_U5DJ20
UniRef90_UPI0004799E28
UniRef90_R9NM36
UniRef90_UPI0003B396EB
UniRef90_Q1N3Q1
UniRef90_UPI00037DE831
UniRef90_G7MBH9
UniRef90_E1KQV8
UniRef90_UPI000468B537
UniRef90_A2TV59
UniRef90_K2NZJ9
UniRef90_R5TLL6
UniRef90_W0Q616
UniRef90_G0JL48
UniRef90_A0A024KE34
UniRef90_L1QNP6
UniRef90_T1CW29
UniRef90_Q65RJ3
UniRef90_R1H0A7
UniRef90_V4UX06
UniRef90_F0T7N7

1 10 20 30 40
T E V P L T S S E E F I Q K G E L R A G L S L R N V A L S V G K A V V T H Q M D
P S L V P L A T S E E D W I K N K N T L M G L S L R E H V R D I T S A N K K K I I T S E G M P
P T E V P L L S N E S F I K N K N T L K Q G L S L R R N I V D I V L T S V D K K K I V T T H H R Q M D
P T E V P L L S N E S H F V K N T L K Q G L S L R R N I V D I V L T S V D K K K I V T T H H R Q M D
P S L F T F N I R D E N F R E L A G V S S A L A T V K V K K S K L R I E Q V G P
P S L V P L R A D G C A E L L M G L S L R N V G L V L T S V G K T Q V T H R S M D
P T E S P I K L N N P F V A K K T L Q G L S L R Q D V A L V T S V G K T Q V T H R S M D
S L V P L T W K E S D K F F A T L S S G I S L L P Q D V K L V T A S N K D R I S F H S N Q
P A E V P I V C R N Y G D F L S E L S G I S L L P Q D V K L V T A S N K D R I S F H S N Q
P S L F T F N I K D E R I K D L M G V S S A H A S V R V K G T K L K A S G P
P S L F T F N S P D N P L L E L A G V S V K N C E V L V K I V N K T V L T A Y K G M D
P T E S P I Y L I D S F V A E K T L Q G L A L Q D V K I V N K T V L T A Y K G M D
P S L F T F N I L D Q K L R A L A G V S V N P V Q L V L G K T Q L E Q T N G P
P S L F T F N I D D P R L Q N A L A G V S V E N A C V L L G K N R L E Q T N G P
P G L V P A S L D N T C K A L A G L T L K N V G F K L R K K V L Y S D F T G G A
P S L F T F N I P K N T I T E L M G V A V E N A K I K I K G H N I E T E G A
A L V P F T L H K P L L Q L Q T S G L V A L E S T T I D A Q D G T R F K E A
P A L V P L T F D E A W A P S Q L S L P S T T G G K K D K T A F L E A D
P A L V P F V F D E K L P K S R L E G L A G V A V D A T V A C G K T R F A E A
P S L I S L E T E E W P K E M M G L S L K N V A T L N A Y N K K Y S E L G G A
P S L F T F N I K D N R L Q D L S G V A V E N V A C L G K K K Y S E Q T T G A
G L V P F T L H K P L L Q L S S L S G V S V P S V L A A E T G T T F K E A
L V P L Q E E G G V C A E L S G L S L R R N V G L A V F E D R Q K D F F G E
P G L V P L E T A G D T A P M Q G L S L R R N V Q A G L I G K K Q A Q D F G E
P S L F T F N A P T S K I I Q L K G L S V P N G H V R F E G S Q L Q Y S G P
A L V P L T F N E H W A F S E L S G V S M E V D V T V A Q P G K F R E N D
P S L F T F N H E K D Q R F S E L S G I A I P A V V E T A E N G V S F K E N
G L V P F T L H E D K D A F A D L A G V S V E N A L V S L D P K E L Y C H Q D G P
P S L F T F N I P N A Q L T D L A G V S V E N A L V S L D P K E L Y C H Q D G P
P S L F T F N S K D D R I K D L P G I A L D A E L E I P E A R L I S S D G P
P S L F T F N I K D Y R I K D L M G L A T E A S V K V L D T N N L E A S G P
S L I G F T W R E S D K F Y S A L E K L L K N V S I D V N K K V Y T D F G E
P S L F T F N I A D P A F R A L A G I S V N P V N L R L R L G K P V L Q Q T G P
P S L F T F N V P D E K L R E L A G V S V N P A N L R L R L G Y S Q L E N G A
P S L F T F N M P Q A P V T R L M G L V V E D V K V G V G S R L N A E G P
P S L F T F N M P K E P I K D L M G V V A E P V S A K V M G T K L S S E G P
P A L V P L T F D Q T W A P Y A A L A G L A L P V I S T G S G K T R V I Q E D P
P S L F T F N T P D N P L L A L A G V S V P N A L V S V Q G T N R Q S G P
P S L F T F N V P D P A L R A L A G V A L D A A R L S L G T Q K F E Q T G P
G L V P F T L H K P L L E L S A L A G L A V P V V I T G S K T R M T F K E N D
G L V P F T L H K P L L E Q S Q L S G V S V P A S I T A A D G T L F R E A
P A L V Q L H L K Y K N L K A G L K F N G Y S H V W D K K K R S E F F G P
P S L F T F K I V D P R F E G L S G L A F E K A E C S L V P G Y S F G P
P S L F T F N R D D R L Q G L A G V A V K D A G V K I A G T K H E W R G P
P S L F T F N I R D D R L Q G L A G V S V E V N L K L N K P S G A R F R E D
P A L V P L T F D D A W A P A P L A G I A L E V E V T T N G K A R F R E A
P A L V P L T L G G D E V L F R D L S G V S S E V V A A A G K A R F R E A
P A L V P L T F A A A D W A P A P L A G V S L E V R L A T G N K K T A T F E E D
G L V P F T F P E S R F A P L A G L S L P A R L S N A R A T F D E A
P I S E D F F I K E K T L Q G L S L Q D V S L S V G K V I V A H Q M D
P S L F T F N V P N S P L K E L P G I S V A N A R V K L A G Q P L E N E G P
P G L V P L T F D G A W Q P Y A Q L A G L A L P V A E T G A K K S R G H F L E D
G L V P F T I T E P Q L K C S E L S G T S V E D C L V S C N G Q S F R E N
A L V P F T L S G Q W L E I R S L S G V S L P E I S T G S K K E R M S F H E A
P G L V P M T F D E G W Q P Y A G L A G L A L P E I S T G S K K E R M S F H E A
P S L F T F N I A D K R L K E L M G T V V E S V T A T I P G T K L R A D G A
A L V P F T L H D D K A R F D G L A G V S L C T A Q S E D G T S F K E N
P L S D D D F I K D K T L Q G L S L Q D V S L S V G K V V V E H Q M D
P S L F T F K I N D P R I K N L A G I S S D N V H I Q L K Q N K L E Q Q G A
L S D E S F I L D K S L A G I S L R E I K L S M V G N T V I S H Q H D
P A A V S V T C N D P W L S N R Q A Q Q G L S L R Q D V S L S V G K H R A S E V G D
P G L V P L T F D D A W A P Y A Q L A G L A L P E I S T G A K K E R M S F H E D
A L V P F T L H H D K D R F D G L S G I S I F C V V T S E D G T Q F K E N
P A I V Q L S H N K L K A L S G I K F N G Y A L C D G K S R K E F G E
A L V P F T L H K P L L E T L Q G L S G V S V A A T V T S A D G T F K E N
P S L F T F N I K D P R L S D L L G V S V P L A E A V I E G S K L S V G P
P T E S P L I S E A D F I Q E R T L Q G L S L R D V Q L V G K T V T S H T M D
G L V P F T F T G K E E R L Q Q L A G I S L D V S V S C N H R V I F S E A
P S L F T F E L A D P Q L L T L A G V S L I E T V R L R L V S V C N H R V I F S E A
P S L F T F N I K D A R L K D L M G L S T F A S V K V K K L E A F G P
G L V P F T L H K P L L Q L Q T L S G V A L P S A I A A Q D G T V F K E A
P S L F T F N V P E S P L R E L P G V A V P H V R V R V A G E K L E Y E G P
P G L V P F T L D A D L A P L R K N L S G V A I D A M V S C R D M S F R E N
P G L V P L T F D G P W E A F A P L A G I A L E V E V E T G N K R G H F R E D
P G I V Q L K L D Y P Y L K A N L M G A V V T P V Q L S I P S T K F R S G G A
P S L F T F N I R E K A F C A L M G A V V T P V Q L S I P S T K F R S G G A
G L V P F T L Q E D K A R F E G L S G I S L P V I A K A E C G K Q F R E A
P S L F T F N I K D K R I E G L M G V A K D V T T K V L G T K Q K S E G P
P S L F T F N I K D S R I Q D M G L A T D A Q V S L L N Q E T T S S G P
P A L V Q L K C K G K F F Q S I A G V R I Q C V S L Y V D G D C V R D T G E
S L V P F T W K E D K Y F T E L A G V A I P V V T V S S Q N G K S F S N Q
P G L V P L T L S G S H A H Y K D L A G V T L P G V E A S V A R Q R F R N G
P A L V P L T F A E Q L A P L K E L S G V S T N A V S V S H G K T R F E E A
P G I V Q L K L D E Y P Q L K A L S G V K F D G Y A L V D D K E V K K D F G E
P A L V P L A L E T L R Q F G D L S G L S L P E V E V S C R K G R F R E S
S L V P F T Y R E N D K F L T A L S G I S L P V R V T A Q N G K S F S N N
G L V P F T L H D K D A F A D L S G I A I P V T I T T E S G V L F K E N
P S L F T F K I A D S A Q L T E L S G V S F P K V V A K L K S P Y L T Q V G P
P G L V P V L T H E F W V R E L S G L Q L E S A A A V I K K G K V K L E G D

UniRef90_C8NIL4 MI F T H F G I L S S G P A V L R C S S F V H Q V Q E K E N K K E V V M S L N A I L P
UniRef90_UPI00047E993F MI F T H F G I L S S G P A V L R C S S F V V Q Y L I E K S V K L T E L D D A L P P
UniRef90_A0A024PJQ8 ML F T H F G I L S S G P A V L R C S S Q F V V K E F M K G R K L V T I E M I D D A L P P
UniRef90_N4W103 MI F T H F G I L S S G P A V L R C S S Q F L V K E L K A G N Q A V K L M I D D A L P P
UniRef90_UPI0004769544 L L I T H W G L S S G P A V L R L S A W G A R T L H S N N Y K A T L H I N W L P P
UniRef90_UPI00041F92EE L L I T H W G M S G P G I L R L S A W G A R E L F D K S Y Q F A R L L E V L N W L P N
UniRef90_R5SMF1 L L F T H F G V L S S G P L V L S S A H M R H F D K K S Y A R L L E L D L K P
UniRef90_V6Q4T4 ML F T H F G I L S S G P A A L R C S S M F V N Q G L E K H G A P V Q L R L D D A L P P
UniRef90_I3D9U4 ML F T H F R G L S S G P A M L Q R C S S N Y W Q M G E A L V L S D L D D L L P P
UniRef90_X8K6H9 L I F T H F G L S S G P I A L R C S S G F V N S I M R K D R L E T V R L D D L L P P
UniRef90_G8X713 L L I T H W G L S S G P G I L R L S A W G A R D L F E L K Y C F V L L Q L V N W L N
UniRef90_UPI0004713A0D L L I T H W G F S G P A V L R L S A W G A R Y L S D L G Y R F V C K I L N W L P
UniRef90_R2R678 L L F T H F G I L S S G P A A L R C S S S F V N Q L L R S Q K T V T L T L D S F P P
UniRef90_UPI00037B0658 L L I T H W G M S G P A V L R L S A W G A R V L H D S H Y Q A T L L V N W L P P
UniRef90_K9T8B6 L L I T H W G L S S G P A I L R L S A W G A R V L Y E H R Y Q M S L I I N W V P
UniRef90_R5SZH5 ML F A H F G L T G P V V L S S S V L N R I E E K L K K S V A L I D L K P
UniRef90_C0BGY8 L L I T H W G M S G P A I L K A S A F G A P A L A G C Q Y N F E I Q V N W I G
UniRef90_E1SHJ1 ML F T H R G L S S G P A V L Q I S S Y W Q P G E F V I T L D L S P
UniRef90_L2ECX5 L L F T H R G L S S G P G V L Q I S S Y W Q E G T P I R I D L L A P P
UniRef90_A7HY96 L L F T H K G L S S G P A I L Q I S S Y W A P G R E I I I D L L A P P
UniRef90_R5B469 ML F T H F G V L S S G P L V L S A S R A D D P A G A R L T I D L L K P
UniRef90_B7JUT2 L L I T H W G L S S G P S I L K L S A F G A R I L Y D N K Y Q M L L G I N W A F
UniRef90_UPI000469D9E0 L L F T H R G L S S G P A V L Q L S S Y W Q P G E F V T I D L S P P
UniRef90_G4KPQ6 L L F T H F G V L S S G P L V L S A S A H M R H F E K K A Y R L E I D L K P
UniRef90_D6SQM4 ML F T H F G V L S S G P L V L T L S R E A V Q A L N R N Q E V R L V I D L K P
UniRef90_G0IW18 I L I T H W G I L S S G P A V L K L S A F G A E W L H E K E Y K A I A L I K W R D
UniRef90_B2U927 L L L T H R G L S S G P A V L Q I S S S F W H A G Q P L L I D L L P P
UniRef90_UPI00035CB4E6 I L L F T H R G L S S G P S I L Q I S S Y W R A G Q S V T I D L L P P
UniRef90_D0Z0V6 L L F T H R G L S S G P V I L Q A S S Y W L P G Q A V T I D L L P P
UniRef90_HOP094 V L I T H W G L S S G P A V L K L S A W G A R Q L Q A S G Y D H S L W I N W L
UniRef90_UPI000400CE66 L L I T H W G F S G P A I L K L S A W G A R A L H E L Q Y K F S V K V N W I P
UniRef90_A3U764 L L I T H W G M S G P A I L K L S A W G A R I L L N D K N Y Q F K I A V N W R T
UniRef90_E1W1F7 ML F T H R G L S S G P A I L Q I S S Y W Q P G E S I H L D L K P
UniRef90_UPI000466558E M E F T K F G L D G A I K S A S R M K D T T K E N Y T I I V D L K P
UniRef90_D7DXK3 L L I T H W G V L S S G P S V L K L S A W G A R I L H D T R Y Q G K L Y I N W L P
UniRef90_K9UWT5 L L I T H W G L S S G P A V L K L S S A W A A R M L H E K H Y Q A N L I T V N L T P
UniRef90_UPI00029A4BC2 L L I T H W G M S G P A V L K L S S V A A R F L N E R N Y D F A N I H I N W V G
UniRef90_UPI00035CE7AE L L I T H W G M S G P A I L K L S A F G A R I L H E L D Y S F K V L I N W T G
UniRef90_B1XZ35 L L F T H R G L S S G P A V L I S S Y W R P G Q A L S I D L L T H
UniRef90_UPI00036CE944 L L I T H W G F S G P A I L R L S A W A A R D L A G V D Y R F T L R I Q W L G
UniRef90_K9S7D6 L L V T H W G L S S G P A V L K L S A W A A R S L H E C R Y Q T T L Q I N W L P
UniRef90_X2H1P0 L L F T H R G L S S G P A I L Q I S S Y W Q A G E S I I D I N L L P P
UniRef90_UPI000395C1DA L L F T H R G L S S G P A V L Q I S S Y W Q P G E Y V T I N L L P P
UniRef90_L0MMJ4 I L F T H R G L S S G P A I L K L S A K G A R E L L Q D G K S V D I T R V D M L P
UniRef90_L7ELV7 I L F T D Y G I S S G P P I L K L S A K G A R E L L Q D G K Y E T T L R V D F V P
UniRef90_K6IID7 L L V T H W G V L S S G P A I L K L S A K G A R E L L Q D G K Y E T T L R V D F V P
UniRef90_C6W7N8 L L I T H W G F S S G P A V L K L S A W G A R D L A E K D Y H F T C R I N W L P
UniRef90_UPI0003478E2F L L V T H W G V L S S G P A V L K L S A W G A R A L H D S H Y R A Q L S I H W L P
UniRef90_UPI00034B318E L L F T H R G L S S G P A I L Q I S S S F W Q P G T P I V V D L L P P
UniRef90_M2TN16 A L F T H R G L S S G P A I L Q A S S Y W R N G E A V T V D F L P P
UniRef90_E1TGB0 L L L T H R G L S S G P G V L Q I S S Y W Q P G E P I H I D L L P P
UniRef90_Q5LU70 L L F T H R G L S S G P A V L Q L S S Y W R E G E E I A I D L L A P P
UniRef90_UPI00046E7068 L L F T H F G L S S G P A A L R C S S S F V N Q E L A K D E D K P V L L Q L D I F P P
UniRef90_UPI00041D2B91 L L I T H W G F S G P A I L K L S A W G A R L L Q D I N Y H F T A L N W I P
UniRef90_UPI00035E644A L L F T H R G L S S G P A V L Q I S S Y W Q A G T P I R I N L M P P
UniRef90_UPI00046805D5 I L F T H R G L S S G P A I L Q I S S Y W Q P G D T V H I D L L P P
UniRef90_UPI000465EBB8 L L F T H R G L S S G P A I L Q I S S Y W H R Q E A T I T I D F L P P
UniRef90_D0J3L2 L L F T H R G L S S G P A V L Q I S S Y W K P G T P L Q I N L L P P
UniRef90_L1N9J1 L L V T H W G V L S S G P A I L K L S S Y A A R Y I A E Q G Y Q F S L S V N W I G
UniRef90_U1LPM0 L L F T H R G L S S G P A I L Q I S S S F W R A G Q G V I V D L L P P
UniRef90_R2QY60 L L F T H F G I S S G P A A L R C S S F V N Q E L T K N N Q K S V T L Q L D I F P
UniRef90_K9YMB4 L L I T H W G V S S G P A V L K L S A W G A R V L H D H N Y Q M E L I T N W L P
UniRef90_K7VTV6 L L F T H F G L S S G P A A L R C S S F I N Q L L E K G E T P I Q V S L D Q F P
UniRef90_A4J6M1 V I I T H W G L S S G P G A L R V G R V A L E A Q R Y P G E P I Q G K I D L F P
UniRef90_C5TB84 L L F T H R G L S S G P A V L Q I S S Y W Q G G A P L A I N L A P P
UniRef90_Z5XME9 I L F T H R G L S S G P A I L Q I S S F W R A G Q S T P L Q I V I N L L P
UniRef90_Q0TM34 I L F T D Y G I S S G P P I L Q I S S R E A S L G C F K G K E V K I L V D M M P
UniRef90_I0DU44 I L F T H R G L S S G P A I L Q I S S Y W N P G E F V S I N L L P P
UniRef90_F4KY24 L L I T H W G L S S G P A I L K L S A W G A R E L L A S M Q Y R F V L R I D N W I M
UniRef90_S1R0A9 L L F T H F G I S S G P A A L R C S S F V N Q L L K K Q T P V I V E L D C V P P
UniRef90_Q0F177 ML F T H R G L S S G P A M L Q I T S S F W R P G D T L S I D L L P P
UniRef90_U5DJ20 L L I A H W G L T G P A V L K L S A W A A R V L H E C N Y Q L P L S I N W V P
UniRef90_UPI0004799E28 L L I T H W G M S G P G I L R L S A W G A R E L F D K N Y H F A I L V N W L N
UniRef90_R9NM36 L L F T H R G L S S G P A V L Q I S S Y W Q S G E T V T I N L C P
UniRef90_UPI0003B396EB I L V T H W G V L S S G P A V L K L S A W G A R R L H E L S Y Q S T A L V N W L P P
UniRef90_Q1N3Q1 I L F T H K G L S S G P A I L Q I S S Y W K P G Q S T A L V T V C M L P P
UniRef90_UPI00037DE831 L L F T H R G L S S G P A I L Q I S S Y W Q P G T P I I N L L P P
UniRef90_G7MBH9 I L F T D Y G I S S G P P I L Q L S S Y A S K A L S K N S K V I I R V D M F P
UniRef90_E1KQV8 L L I T H W G M S G P A T L K L S S Y A A R Y L A E Q N Y Q S P V A I N W V N
UniRef90_UPI000468B537 ML F T H R G L S S G P A V L Q I S S Y W Q P G Q S V L F D L L P P
UniRef90_A2TV59 L L I T H W G M S G P A I L K L S A W G A R D L A A I N Y K F D I Q V N W L Q
UniRef90_K2NZJ9 L L I T H W G M S G P A I L K L S A W G A R A L H Q L N Z Y Q F K L L V N W L P
UniRef90_R5TLL6 I Q L T Q Y G I S G I P V F Q V S R F A A K A L Y N K Q E V T A V L N F M P
UniRef90_W0Q616 ML F T H R G L S S G P A I L Q I S S Y W E L G E T V E I D L L P P
UniRef90_G0JL48 L L F T H R G L S S G P S I L Q I S S Y W Q P G D S L H I D L L P P
UniRef90_A0A024KE34 L L F T H R G L S S G P A I L Q I S S Y W R E G D A I V V D L L P P
UniRef90_L1QNP6 I L F T D Y G I S S G P P I L Q I S S A L A S Q G T Y N N K K T E V I D L L P P
UniRef90_T1CW29 L L F T H Q G I S S G P A V L Q I S S Y W Q N G D F I S I D L L P P
UniRef90_Q65RJ3 L L F T H R G V S S G P A I L Q I S S Y W Q P N E S V E I D L L P P
UniRef90_R1H0A7 L L F T H R G L S S G P V V L R V S S Y W T P G E K V E V N L L P P
UniRef90_V4UX06 ML V T H W G L S S G P V I L R L S A W G A R Y L F S S C Y K G M L T V D F V P
UniRef90_F0T7N7 L L F T H Q G L S S G P M L L N N S A K L V E I L R R D E R I L L N I D I H P

UniRef90_C8NIL4 D F S A S E L V D A K L K G F V E E A P L K S I K N H L K G L L P E R Y V E F L L L
UniRef90_UPI00047E993F D L S E E N E L V E R I F L N L E H N G N K T T F R N S T L T K Y L P K R N L I S K L L L
UniRef90_AA024PJQ8 N Q K E E N E L E K E Q L F K S I A K N A H P A K K R S T V R N V I K G Y L V P P E D R Y F L F L L
UniRef90_N4W103 H I D F H S E L L E K E F F D L K N A H P K R S V K N L Y K G Y V P P D R Y F L F L L
UniRef90_UPI0004769544 H F K A E E S E V R Q K I L A V L K N E W G K R A M S L H R G V D L P P H R L W Q Y I I I
UniRef90_UPI00041F92EE D V D L D Q Q C D V L L K E Q K Q E H A K K S V G K K S P F D F P P N Q R L W E S L V V
UniRef90_R5SMF1 A L D E Q L D K R L L S D F Q K H A N S D F C N A L G E L L P P E K R L L Q F A I I
UniRef90_V6Q4T4 D R S K H D L V A W L Q S K Q Q E S V G G K T L R N G L K G L I P P E K R L L Q F A I I
UniRef90_I3D9U4 A Q S K E N I L N L E F Q E L R Q S S P K L Q L K T V L S R Y I L P P K R L V E L W F
UniRef90_X8K6H9 Q K S K G E L L D E L R S M A R T S N G E K E P K T Y L R A E I L P P K R L A D Y I L L
UniRef90_G8X713 D L D F D T T L L E D L K G I K E G N L K R S I N K F C P F D F P P K R L W E S F L L
UniRef90_UPI0004713A0D E H Q E Q E T L R D A F I T E K K I A P K Q Q I A S H A K K W G I P P S R R L W K A F C
UniRef90_R2R678 E K T V E E L S E I M H Q R A A A S T K Q L K N A L T G F L P P E R R L L F F L L
UniRef90_UPI00037B0658 D L S S E E Q V R R E K I L A T K N E W G K R P I A L H R G V D L P P H R L W Q Y I I I
UniRef90_K9T8B6 T H N L E T T L R K Y L L R L K S N N P K R K I S S Y S P L P I P P K R L W Q R F L L
UniRef90_R5SZH5 A L E F E T L D K R I L C R F L E K Y S I K E F K S S L V D L L P P K R L L P V V V V
UniRef90_C0BGY8 E R N T E L L F N R L L A C A L E H P Q K S V S K Q K A F P L P Q R L W H Y I I I
UniRef90_E1SHJ1 A T P L I E A F L T A Q R E A T S R N L S L K N S L A K I L P P S R R L V E V L L
UniRef90_L2ECX5 G T D I A A H L N Q A K A T S R K L I A N E L A G L V P P K R L A D T W V
UniRef90_A7HY96 G T D V F A F L K E A R T A Q S P K Q D V E T L S R L P P K R L A D R L C
UniRef90_R5B469 G L D D E E L D D R Q Y L R D F Q Q N S R K S F Q S N A L D G L F P P R R M L P V M V
UniRef90_B7JUT2 P Y N T E E L K R R L L A E R D A H P N Q S L K N T L A K V L P P R R L V E C L Q
UniRef90_UPI000469D9E0 A L D E G Q L D R R L A S D F E K Y A N S D F C N A L D D L L P P Q K L I P V M V
UniRef90_G4KPM6 A V S H T A L K S R I L S S R M H A R G K R K I S N I L K E F L P I K M I P V M L
UniRef90_D6SQM4 E F T E E G L R T E L L A F K Q N H P L K V V H K N P L F A L P P G R L W E Y L I
UniRef90_G0IW18 D T D A G Q W L C D E K T G S P R K Q L G T F L A Q R L P P E R V A Q A W C
UniRef90_UPI00035CB4E6 A Q N L A D S I F E W R K S P Q K T L K N C L T N L L P P K R F V A V L S
UniRef90_D0Z0V6 D V S L D E T F N A M R E K H P N Q S L K N S L A R L L P P K R L I E V L S
UniRef90_HOP094 K V T P L S E S M A Q W R A T K Q H P R K Q I A N F T A T A L P P K R L W Q R L T
UniRef90_UPI000400CE66 G E N E L S I E T L K D L K Q E H S R Q Q V Y K R S Q F D L P P K R L W H S L V
UniRef90_A3U764 H Y S T E E T F Q E L N V L K Q N S S K K S P Y T H A Q F E L P P K R L W H K L L
UniRef90_E1W1F7 Y N D I R H I L D E M R Q S P K L Q L K T V L S R L L P P K K L V E L W L
UniRef90_UPI000466558E A L N E Q E Q V K Q R L L A T K E E W G K K V M A L H R G V D L P H R L W Q Y I I I
UniRef90_D7DXK3 N L S Q E Q V K Q R L L A T K E E W G K K V M A L H R G V D L P H R L W Q Y I I I
UniRef90_K9UWT5 H L K Q E E V R Q K L L N T A K V D F S R K A I A L H R G I D L P H R L W Q Y L V
UniRef90_UPI00029A4BC2 I G N P E L V S K L N E I I S Q H S G K Q V T N F R P F A L P P E R L W G F L I
UniRef90_UPI00035CE7AE S L S E Q D I R A E L R K V V D S A P K K I R N V N P F G L P P S R L W D F L I
UniRef90_B1XZ35 G G D L G G A L L A A K L T S K R Q L G N E L A Q H L P T R L A D A F L
UniRef90_UPI00036CE944 D R T E A Q I R D G F T L F R Q Q H P K K L A N A L S Q N P F G L P P G R L W D A F C
UniRef90_K9S7D6 G E N L E T A R Q R L L E A R S Q M P Q R T L S A H R P V A L P P R R L W D Y L L
UniRef90_X2H1P0 D G S F E S T F K P L L E Q N R N R Q L K N C L S Q I L P P A R L A E A I I
UniRef90_UPI000395C1DA E V D V A E Q L L Q A K Q R S R K L I A N A L S L V P A R L A D A W V
UniRef90_L0MMJ4 D L D L A G F L D Q Q R Q A H P N Q S L K N T L A L Q L P P K R L V E F L Q
UniRef90_L7ELV7 Q Y T M D N L V R E F L E N H W G M F N Y R S V F N S L I G I N K K M L P E R I L
UniRef90_K6ID7 G I K D E V R D F L L A E K I N T S K Q Q I T S H A R F G L P S R L W K A F A
UniRef90_C6W7N8 G M K E Q D V R D F L L A E K I N T S K Q Q I T S H A R F G L P S R L W K A F A
UniRef90_UPI0003478E2F Q W N G E E V R Q Q L R A L K G E A A K R A I A S R P C Y G L P P K R L W Q A I A
UniRef90_UPI00034B318E E M D V A Q T L I E G K G G I K K Q L A D N V L S Q W L P V R L V E A I L
UniRef90_M2TN16 D D D H E L F V A E K R A R P K V H F A T A L R G M L P E R L A G T L A
UniRef90_E1TGB0 N Q D A V A L L E A K S G T R R Q I A N L L S E W V P P R R L A H V W L
UniRef90_Q5LU70 D Q D L F A A L R D Q R Q A G R R D L T T E L A R H L P A R L V E F L A
UniRef90_UPI00046E7068 E L T T T E L M Q K I N K M L T E Q P D K S L K N A L K N L V P E R L L H F I L
UniRef90_UPI00041D2B91 D Y T E E T L R A F L T D Y R K Q Y P K R L V V S N P I F G L P P Q R L W K V L N
UniRef90_UPI00035E644 D L D L P E T L A R A K A V S R K L V N E L A H S L P S R L A E A W V
UniRef90_UPI00046805D5 H I D L P E W L A S Q Q H E R P N S E L K T L A E L T K K M A G L L V
UniRef90_UPI000465EBB8 G V N L A E V L L A Q A K L H S R K L V N E L A H S L P A R L A D A W V
UniRef90_D0J3L2 E S N A T L I E Q Q L H Q L I M S N S R K Q V S S I H P Y S L S T R M W Q Y L L
UniRef90_L1N9J1 E T D M Q A Q I L H D W R Q E Q G S L K N L S T V L P K R F V E V L I
UniRef90_U1LPM0 Q K T S A E L K N E I K Q K I S D Q P D K S L K N A L K N L V P E R L L D F V L I
UniRef90_R2QY60 E D N P E T I K S E L N K L K S S K A K Q K V I N Y N G F N L P K R L W Q S L V
UniRef90_K9YMB4 D K S A G F L K N E L T K L A S S D K S I K N A F S G L T Q E R M L L F I L
UniRef90_K7VTV6 G F S V A F L E Q K L L A R A K A R S K K L V A N E L A M L V P S R L A D A W V
UniRef90_A4J6M1 A V E L G E A L L A R A K A R S K K L V A N E L A M L V P S R L A D A W V
UniRef90_C5TB84 A L D L K Q Q L E E W R Q S Q G K S L K N T L A T I L P K R F V E M L H
UniRef90_Z5XME9 D K S L K E L E D F L E G H F A V F C R E V I N S L I G V V N K K M I P I L L
UniRef90_Q0TM34 E H S L T D Y L A E E K Q T H P N Q S L K T T L A K L L P K R L V E V L Q
UniRef90_I0DU44 A K L E D T R Q D I D T L K L E D G R K M V A A H A Q F G L A T R L W K R L V
UniRef90_F4KY24 E L T A N Q I N Q K I V Q T L K N G K K V N N A L K G L P D R L L T F Y L
UniRef90_S1R0A9 G I D I H A F I E Q K R G E R P H A Q L A T V L S E L L P K R L V Q L L M
UniRef90_Q0F177 S E N P E T V R A C L L N C R S E R R R Q I G T A C P L P L P R R V W H Y L L
UniRef90_U5DJ20 E T T F D E A I D L L K D I K I E N A K K V I S K K S P I E M P N R L W E R L V
UniRef90_UPI0004799E28 A R S L D T Y L A S E R Q L H P N Q S L K N A L A K L L P P R R L V E C L L
UniRef90_R9NM36 E H T D D S L R Q Y L R E F R E Q H G K V V A S N P L F G L P P R L W R T L T
UniRef90_UPI0003B396EB D I D L A Q F F K D A Q Q N Q P N K Q V A N T V L R Q H F P E R L I E A F C
UniRef90_Q1N3Q1 E M D V A E A L I E G K A T L K K Q L G N V L S Q W L P A R L A E C L L
UniRef90_UPI00037DE831 H E S K E D V E F F S T H F S T F D Y R E I S S A L T G V I H K K L P T I L
UniRef90_G7MBH9 E T N A Q L V E Q N I M D L A L L N Q K K V A N V R P Y D L P S R V W S Y L L
UniRef90_E1KQV8 D L D F V D W C K T I T A E S P K L S L K N G L S R L L P K R L V E R L L
UniRef90_UPI000468B537 H Y S Q E E A L E M L V E L K M A H A K Q S P H T Y A Q L D L P K R L W Q S L L
UniRef90_A2TV59 Q Y N F E D M A M H L T E L K Q E H A K K H I V N T R P F E L P K R L W L K L L
UniRef90_K2NZJ9 Q M S E E E F T A F L A E R A R L R P Q K T A E E F L T G L F H K K M I A L W V
UniRef90_R5TLL6 S E S I L D L K E L R Q S P K L Q L K T V L S R Y F P K K L V D L W L
UniRef90_W0Q616 D Q D V G E W L L E Q R T A S P L A L K T V L G D A L P K R L A Q R F C
UniRef90_G0JL48 D F D L R E A L R R A R K D T P K L A I Q T V L A A H L P K R L A Q L I G
UniRef90_AA024KE34 S Y T A E E L E N F L E C H A L F G H R P I N A L I G V V N K K I T P L L
UniRef90_L1QNP6 D K D A E T W L R A H G F S R V R I D N F L A E V L P R F A Q Q W C
UniRef90_T1CW29 T D S I E E Y L S Q L K A S S P K L Q L K T A L S R I L P K K L V E L W F
UniRef90_Q65RJ3 D L D V V E T I N A M R D K H P A Q S L K N S L A R L L P K R L V E A M I
UniRef90_R1H0A7 D L H I E D M Q S L S Q H K I R F A K Q K V L N S C P F C L V K R F W K Y I L
UniRef90_V4UX06 E K T V N Q L S E E F L T A R E E H G K V D L G N H M K L K L P N R M I P L F L
UniRef90_F0T7N7

UniRef90_C8NIL4
UniRef90_UPI00047E993F
UniRef90_A0A024PJQ8
UniRef90_N4W103
UniRef90_UPI0004769544
UniRef90_UPI00041F92EE
UniRef90_R5SMF1
UniRef90_V6Q4T4
UniRef90_I3D9U4
UniRef90_X8K6H9
UniRef90_G8X713
UniRef90_UPI0004713A0D
UniRef90_R2R678
UniRef90_UPI00037B0658
UniRef90_K9T8B6
UniRef90_R5SZH5
UniRef90_C0BGY8
UniRef90_E1SHJ1
UniRef90_L2ECX5
UniRef90_A7HY96
UniRef90_R5B469
UniRef90_B7JUT2
UniRef90_UPI000469D9E0
UniRef90_G4KPQ6
UniRef90_D6SQM4
UniRef90_G0IW18
UniRef90_B2U927
UniRef90_UPI00035CB4E6
UniRef90_D0Z0V6
UniRef90_H0P094
UniRef90_UPI000400CE66
UniRef90_A3U764
UniRef90_E1W1F7
UniRef90_UPI000466558E
UniRef90_D7DXK3
UniRef90_K9UWT5
UniRef90_UPI00029A4BC2
UniRef90_UPI00035CE7AE
UniRef90_B1XZ35
UniRef90_UPI00036CE944
UniRef90_K9S7D6
UniRef90_X2H1P0
UniRef90_UPI000395C1DA
UniRef90_L0MMJ4
UniRef90_L7ELV7
UniRef90_K6I1D7
UniRef90_C6W7N8
UniRef90_UPI0003478E2F
UniRef90_UPI00034B318E
UniRef90_M2TN16
UniRef90_E1TGB0
UniRef90_Q5LU70
UniRef90_UPI00046E7068
UniRef90_UPI00041D2B91
UniRef90_UPI00035E644A
UniRef90_UPI00046805D5
UniRef90_UPI000465EBB8
UniRef90_D0J3L2
UniRef90_L1N9J1
UniRef90_U1LPM0
UniRef90_R2QY60
UniRef90_K9YMB4
UniRef90_K7VTV6
UniRef90_A4J6M1
UniRef90_C5TB84
UniRef90_Z5XME9
UniRef90_Q0TM34
UniRef90_I0DU44
UniRef90_F4KY24
UniRef90_S1R0A9
UniRef90_Q0F177
UniRef90_U5DJ20
UniRef90_UPI0004799E28
UniRef90_R9NM36
UniRef90_UPI0003B396EB
UniRef90_Q1N3Q1
UniRef90_UPI00037DE831
UniRef90_G7MBH9
UniRef90_E1KQV8
UniRef90_UPI000468B537
UniRef90_A2TV59
UniRef90_K2NZJ9
UniRef90_R5TLL6
UniRef90_W0Q616
UniRef90_G0JL48
UniRef90_A0A024KE34
UniRef90_L1QNP6
UniRef90_T1CW29
UniRef90_Q65RJ3
UniRef90_R1H0A7
UniRef90_V4UX06
UniRef90_F0T7N7

130 140 150 160
E K V G I D D Q M A V S R L T E A N W J A V K E G L T N F R F T V N G S L P I K
E L E I D G E I L N Q L T T K K A R S K L L S A L K R T F E L T A S G S L R S I K
E R K A E I S S D E E K S A N I L S S R N E K I L Y S F T Q Q M L K K S F H V H I H H D S L R Q P L L E K
E R N D I S S D I L N G A N I L S S R N E K I L Y S F T Q Q M L K K S F H V H I H H D S L R Q P L L E K
S R I G I A P E S R W A E L L P S K T Q L N L L V Q Q E L T V Q G G E Y Q V F D G K S G V F K
N A S G L P D D T K W A D D L T R N R N Q A A L A N Q Q L V K H N G S E Y Q V F D G K S G V F K
E R S G L P H E K V H V H L T R E Q R A A L R T L L K H N G S E Y Q V F D G K S G V F K
D E T Q T N D Q T P M K Q L Q P K E I L N R L V T F L K E M P L N A V N G T Y P V L D
E Q H L L S D G E V I A Q Q L S K A K E L Q H L D Q F L H H W Q F P N G T E G Y R
K L A V I S D G E K L K Q I P E K A K L Q E E F A G L L K N V E F Q A E N G T S L D
K A A R I T P D T K W A D L S K K A Q L I D L V Q Q L T Q A E F T V N G K T S T F K
Q E A E I S D T L R W G D V S K E A M L N R L V E M L T N S Q Y D L S G K T F F K
E K A D I D E Q T Y A Q T S K E Q L E K F I S Y C K R W T L T A N K T F G L E
T R I G I T A E E R W A E I S N K A T L N Q L L Q E I T Q G G E Y L I K G K G A F K
T F V G T D R D Q M T W A E I S K E A L N K L V R E L A Q G G E Y Q I Q Q G K G V F K
S K S N I D E N K K V N Q I L T K E E R K K L V K L L A G F E I E V N G K T D E D K
D K T E I S A D K K W I D L G K K K G R H L A E L L A N D V Y T V N G K T T F K
Q A L K V V P D I T L K Q E L N S D K A Q Q T E L A Q E R L H A W R I T P N G T E G Y R
A Q L G H N W Q R P I N E A S D K A L T A L A E R L I K C V P L T V K A A M P I D
A L A A V Q G R V A D L S T D L R L R A L A D A V N R W R I T P A G T E G Y R
Q L S G I A A D T E T N S V L T R E Q R H A F A A L I K C V P L T V K A A M P I D
K T L N I N D Q T T W G E L V P N K Q I Y Q L A Q E L I T Q G G E Y K L I E G K G V F K
Q L G N V P E C T L K Q L N A R Q R Q S D V V A S L H H W R V Q P N G T E G Y R
E R C G I P P H Q K V H D V L T R E S Q G G L R L K K E F S I A I A A S C P A E N
E K S G I D P P H Q K V G S E L S P E H K A L R M W C K K E L C L I D I H R H R F N
E K A E I N P E L K W G E L T N K K K I N K L I E N L M R F S L K V S G K T T F K
A T H G A N P Q A P I A V E L P D S K E I L R T S L G A A L L N R W E L T P N S G T E G Y R
R E N R L P E K A V N Q L S H S E L R N S L A E Y L H N S W Q I K P N S G T E G Y R
E R G D L V D K P L K Q F N S P K D I S Q M H Q Y F H H W T I A P N G T E G Y R
T Q A G I K P G Q C W A D F S K V Q E R Q Q T E N E L H R Y H C Q I K G K S G V F K
L A S G I S Q D S K W A D L N K K Q Q L S K L G G Q L T A A V F Q V N G K S T F K
E A S N I S E N Q N W A D L N K N L Q L Q N L A E E L T N G V Y K V N G K S T F K
E Q G L I Q D E V I A N L S K V E R L E N L E N L H N W Q F T P N G T E G Y R
U P I 0 0 0 4 6 6 5 5 8 E P H K P V H Q I S R E E R K N I N L L K N L K F T V K K Y R P I E
S R I N I T A E D R W A E I S N K T L N Q L V P E I C H G E Y L I S G K G A F K
F R A G V T L D T R W A E L S G S K V L N H L I V D D I N Q G Q Y S I H G K S G V F K
K R S G I S A D K K W G Q L S K K V D T N K L I V E T T H D I Y P V K G K S T F F R
S K I E I D E T M I W M N M G K K N I N R L V H V L T N D V Y Q V E G K T T F F K
A G S G L D A H R P M P D C P D R K A Q Q L A Q R L Q A W P I T A V S G D S T F F K
A E A G V T E V T R W S E L P G B K A Q N R L V E K L T N S Q F A V S G K S T F F K
G R A Q L Q L D A R W A E L S N K S L N H L A L E L V Q G Q Y P I S R G K S T F F K
Q L N L I T D I T V I K A E A S N P K Q Q Q D L Y N T L T Q W Y I T P N G T E G Y R
A Q D A D W Q R I A E A S D K A L L R L R L A E R L T R W E L T P N G T E G Y K
S L G Q L P E A T L K Q L T P A Q Q S A L V D S L Q Q W R V Q P N G T E G Y R
K E A Q L D N S H K P C I E L S W Q E K K N I Y S L L K S W K F K V S G T N S F N K
K H I S I D S K K W S D E L S S K N L H G T E E L T D A R F K V S S G K S F F K
E K A E I A D T L R W G D A S H K V L N R M T E E L T N S Q F E V K G K T T F F K
I A A G I P A D R R W A D L S N K M L N R L A G A A V N Q S Q F E I R G K S T N F K
A A T G L A A D A R L A D L T D A A L R K L G A A V N Q W S V P S G S E G Y R
S R L A L E G E L A N L P D K A L R R G A Q R L K H W A F T P N G S E G F A
E T H Q I P A E A R V A D L S D K A L R R A L G E A L S R W T L T P N S G T E G Y R
P Q L G L K G R L A D Q S D S A L R A L A E T L R D W R L T P N S G T E G Y R
D Q T G L S E V Q A K L C S E S Q I E K L A H S F K F F E I H A E K T L P I E
A Q S E I P D Q T V W A E L P A K N Q N K L V E S L T R A P F E V K G T T F F K
Q Q D P G L Q R P C N E V T D K A L N T L A E R L S R W E L V P A G T E G Y K
D S W F V S K P M K Q Y S P N E L K A I A E K L A D W Q L V P A G T E G Y R
E L S G L D K P L A E A W S R A D M D A L C E G F S R W Q I V P P G T E G Y R
G R M P E L Q R P I N E A S D K A L R L A E Q L S R W E L T P T G T E G Y K
N R T V V E H D K K W G E L S K K A L H K L I E T L T N D T Y T V T G K G T F F R
S D Q T V P D K N A N Q L S H S E I D T L A Y A L H H W H I K P A E K T E G Y R
N N A A L S D H Q A K Q V S E Q Q L D E L V D S L K S F K I H A E K T L P I E
D F S L L N N E K I W A E I T K K E L E K L A F E L T R G V Y A I E G K G V F K
E K A G I N P A L P A K S L S E Q Q I E K L V Q L F K N W Q I T I N K T L P I E
Q L V G V P L E S P A N M V T R H N L R D L V A H F K A L P I H I L T G T R L P L K
G Q A N P D W Q R P I N E A S D K A L A R L A E G L A R W E L T P T G T E G Y K
D T K A I P D C N V N Q L T H T Q L D A L H D Y L H S W E L K P N G T E G Y R
R E A G I D L H K P C Y E L T W K E K A L I N L M K S W E F K C I G T N G F Q
T L G Q I P D C A L K Q L T H P Q I E T L H N N L H Q W Q I Q P N G T E G Y R
S A A G I R E D K R W A D L N K K E I Q Q L A E E L T Q G R F Q V N G K S T F F K
E R L H L A D L M S A Q V L R Q K Q I D S L V L I K S F Q I P L I R T F A L E
E D G P G E T Q L S Q L S R Q Q V T G L A E L L H A W Q L K P N G T E G Y R
Q R S H I D R T T H W A E V A N K A I E R T V N E L T R S Q F E I C G K G Q F F K
L A S G I S A E T T W A D C A N K T E L N A T Q L T A G E F Q V N G K S T F F K
Q L L G Q V P D C T L K Q L N N T Q Q N E L A M A L H H W R I Q P N G T E G Y R
E Q A G V M E E V R W N D L P A K P Q N K L E A E R L N N T A L P V R G K T T Y K
Q D F D L S K P L Q Q Y K H K D L T S I A E R F O N W F I P S G T E G Y K
A N G L A A D A R L A D M Q D A K L R K L G D A V N R W A I I P T G S T E G Y R
K D V G I D I H E P C S N T I G W K H L N R L V D T F K K W D F N C I G T N G F S
E R S N I E K E K R W G E V G R K M M N K L V E T L T N D V H Q I A G K T G T F F R
E L I G E L P N K N L N Q L S K A D I A A L D S Y F H C W Q I Q L P G G T E G Y R
I A A G V Q P V I K W A E L T K S Q L Q S S L R S R E L T Q S R Y K V D G K S T F F K
E A V S V S K E M K W A D M S K V L R N L A R Q L T Q A Q F T V N G K S T F F K
K C S R I S K E K P V G T Y S E E E L R T L A R L I Q Q F E V N V E G T N S F F E
E Q K L L A D K L I A D L S K K D L A F L N E F L H H W Q F L P N G T E G Y R
E Q W F D S R P L Q Q Y R S A E L R L G R Q L N A W P I I A S G T E G Y R
E E L D L P G I V G D F S D A K F D K V V A A V K A W T L K P V I G S E G Y R
K E C G I N L Q L P C Y E L T W K E K K Q L I N T L K S W K F T C I G T N D F N
A A H N L S K P L C Q F T P P E R L R K L A D A L E N W R I R P S T G T G Y N
E R Q L L Q D E T L A N L S K V L R K N L E N L I H H W Q F Q P N G T E G Y R
E R G D I G D K P L K Q L N P K D I T A L G D Y L H Q W R I A P N G T E G Y R
G R E G L S G D T L W A S V S N N S L S A R L L K H C T L E V A G K G Q F K
E M A G A D P K L K M N Q L G K K E R N N I N L L K S F P L T V T S S I D

UniRef90_C8NIL4	K G F V T
UniRef90_UPI00047E993F	E A I T
UniRef90_A0A024PJQ8	K A F V T
UniRef90_N4W103	K A F V T
UniRef90_UPI0004769544	E E F V T
UniRef90_UPI00041F92EE	E E F V T
UniRef90_R5SMF1	N A I T
UniRef90_V6Q4T4	K S F V T
UniRef90_I3D9U4	T A E V T
UniRef90_X8K6H9	K A F V T
UniRef90_G8X7I3	E E F V T
UniRef90_UPI0004713A0D	E E F V T
UniRef90_R2R678	K S F V T
UniRef90_UPI00037B0658	E E F V T
UniRef90_K9T8B6	E E F V T
UniRef90_R5SZH5	A A I V T
UniRef90_COBGY8	E E F V T
UniRef90_E1SHJ1	T A E V T
UniRef90_L2ECX5	K A E V T
UniRef90_A7HY96	T A E V T
UniRef90_R5B469	Q A I I T
UniRef90_B7JUT2	E E F V T
UniRef90_UPI000469D9E0	T A E V T
UniRef90_G4KPQ6	D A I V T
UniRef90_D6SQM4	E A I I T
UniRef90_G0IW18	E E F V T
UniRef90_B2U927	K A E V T
UniRef90_UPI00035CB4E6	T A E V T
UniRef90_D0Z0V6	T A E V T
UniRef90_H0P094	E E F V T
UniRef90_UPI000400CE66	E E F V T
UniRef90_A3U764	E E F V T
UniRef90_E1W1F7	T A E V T
UniRef90_UPI000466558E	E A I V T
UniRef90_D7DXK3	E E F V T
UniRef90_K9UWT5	D E F V T
UniRef90_UPI00029A4BC2	D E F V T
UniRef90_UPI00035CE7AE	E E F V T
UniRef90_B1XZ35	K A E V T
UniRef90_UPI00036CE944	D E F V T
UniRef90_K9S7D6	E E F V T
UniRef90_X2H1P0	T A E V T
UniRef90_UPI000395C1DA	K A E V T
UniRef90_L0MMJ4	T A E V T
UniRef90_L7ELV7	N A Q V T
UniRef90_K6IID7	D E F V T
UniRef90_C6W7N8	E E F V T
UniRef90_UPI0003478E2F	E E F V T
UniRef90_UPI00034B318E	K A E V T
UniRef90_M2TN16	K A E V T
UniRef90_E1TGB0	K A E V T
UniRef90_Q5LU70	T A E V T
UniRef90_UPI00046E7068	K S F V T
UniRef90_UPI00041D2B91	D E F V T
UniRef90_UPI00035E644A	K A E V T
UniRef90_UPI00046805D5	T A E V T
UniRef90_UPI000465EBB8	T A E V T
UniRef90_D0J3L2	K A E V T
UniRef90_L1N9J1	D E F V T
UniRef90_U1LPM0	T A E V T
UniRef90_R2QY60	K S F V T
UniRef90_K9YMB4	D E F V T
UniRef90_K7VTV6	K S F V T
UniRef90_A4J6M1	E A T V T
UniRef90_C5TB84	K A E V T
UniRef90_Z5XME9	T A E V T
UniRef90_Q0TM34	A A Q V T
UniRef90_I0DU44	T A E V T
UniRef90_F4KY24	E E F V T
UniRef90_S1R0A9	K S F V T
UniRef90_Q0F177	T A E V T
UniRef90_U5DJ20	D E F V T
UniRef90_UPI0004799E28	E E F V T
UniRef90_R9NM36	T A E V T
UniRef90_UPI0003B396EB	D E F V T
UniRef90_Q1N3Q1	K A E V T
UniRef90_UPI00037DE831	K A E V T
UniRef90_G7MBH9	N A Q V T
UniRef90_E1KQV8	D E F V T
UniRef90_UPI000468B537	T A E V T
UniRef90_A2TV59	E E F V T
UniRef90_K2NZJ9	E E F V T
UniRef90_R5TLL6	Q A Q V C
UniRef90_W0Q616	T A E V T
UniRef90_G0JL48	T A E V T
UniRef90_A0A024KE34	T A E V T
UniRef90_L1QNP6	Q A Q V T
UniRef90_T1CW29	K A E V T
UniRef90_Q65RJ3	T A E V T
UniRef90_R1H0A7	T A E V T
UniRef90_V4UX06	D E F V T
UniRef90_F0T7N7	K A M V T

UniRef90_S4EIV5
UniRef90_E4KXR2
UniRef90_UPI0002559E9A
UniRef90_C9QC09
UniRef90_E1X402
UniRef90_R7I9D8
UniRef90_K9YSC3
UniRef90_UPI000471C2F3
UniRef90_R5T4H8
UniRef90_R5XEM0
UniRef90_R5LJM1
UniRef90_UPI000427558B
UniRef90_UPI0003751B27
UniRef90_A6GWE8
UniRef90_I0TBR7
UniRef90_L8MYG4
UniRef90_D8ML09
UniRef90_C7BU41
UniRef90_H5WKL6
UniRef90_UPI00047ADDEF
UniRef90_UPI00047DAD15
UniRef90_L9U781
UniRef90_R2PT08
UniRef90_D31V9
UniRef90_UPI0003601D4F
UniRef90_L8LQ53
UniRef90_F2LNS9
UniRef90_F7YIB5
UniRef90_K1LE12
UniRef90_G2IUQ7
UniRef90_C9ACP9
UniRef90_UPI0002B40EEF
UniRef90_X4Z3E9
UniRef90_C7LSE6
UniRef90_K8E791
UniRef90_I3BVH6
UniRef90_C7M631
UniRef90_UPI000468DBA2
UniRef90_UPI00047549D2
UniRef90_R6HLW2
UniRef90_D5BAI9
UniRef90_UPI0002E02DEF
UniRef90_A1RQ91
UniRef90_UPI000373CAD5
UniRef90_A3WE21
UniRef90_K9H2V2
UniRef90_C5VPS1
UniRef90_H0HRR3
UniRef90_K6U936
UniRef90_A4F1D6
UniRef90_T0CS33
UniRef90_G0AIS8
UniRef90_UPI0003FEDCB4
UniRef90_R7K908
UniRef90_R6VF77
UniRef90_UPI00046A198E
UniRef90_UPI0004226B5E
UniRef90_L8XF55
UniRef90_M9RTZ2
UniRef90_V4NM00
UniRef90_UPI000234F272
UniRef90_B9XMX6
UniRef90_A4EJN6
UniRef90_N6XSM0
UniRef90_A0A017HN83
UniRef90_F1ZB01
UniRef90_R5CSY0
UniRef90_R5Z516
UniRef90_K2KSM1
UniRef90_F6DRP9
UniRef90_B5JKE3
UniRef90_I5AYI6
UniRef90_UPI00037CC57C
UniRef90_V4N369
UniRef90_M7PDL9
UniRef90_UPI0000E105E0
UniRef90_A5PBK4
UniRef90_E6LCD5
UniRef90_D1PHB5
UniRef90_F7S140
UniRef90_UPI00036B61B1
UniRef90_B0UVK5
UniRef90_UPI00037F7DD8
UniRef90_UPI00047B5116
UniRef90_W8RW98
UniRef90_N9XKM2
UniRef90_UPI00046852AC
UniRef90_UPI0002260567
UniRef90_UPI0003B4BA46
UniRef90_G4D6P6
UniRef90_W6N5Z6
UniRef90_A9M650

UniRef90_S4EIV5 L L F T H F G L S G P A A L R C S S F V N Q E L K Q Q D Q P V T V V L D C F 80
UniRef90_E4KXR2 M L F T H R G L S G P I V L T T S S K I N R E L T G D F D L Y L D D L K P
UniRef90_UPI0002559E9A L L L T H R G L S G P S I Q Q I S S S F W K P G D E K V T I E I N D L L P
UniRef90_C9QC09 L L F T H R G L S G P S V L Q I S S S F W K A G E K V T I E I N D L L P
UniRef90_E1X402 L L F T H K G L S G P A I L Q I S S L Y W N V G E S V T I D F L P
UniRef90_R79D8 M L F T H F G L S G P L T M S C H L P E N L A E A N V V T L D L K P
UniRef90_K9YSC3 L L I T H W G L S G P A V L K L S A Y G A R V L H D H N Y Q L G L W V N W L P
UniRef90_UPI000471C2F3 L L F T H R G L S G P A I L Q I S S Y R A E G Q A L Q L N L A P
UniRef90_R5T4H8 L Q F T D Y G L S G P I P V F Q V S R F A S R A L N E G K K V T V R L D L M P
UniRef90_R5XEM0 M E F T K Y G L S G P I V K S A S C R M G D L S K E N Y K I V L D L K P
UniRef90_R5LJM1 L L F T A Y G V G G P T I L S A S A H P A M E P G K Y S V V I D L K P
UniRef90_UPI000427558B L L I T H W G F S G P A I L K L S A W G A R D L A E S D Y E F T A L I S W G A
UniRef90_UPI0003751B27 L L V T H W G F S G P A I L K L S S H A A R Y L H E N N Y N V D I S V N W A N
UniRef90_A6GWE8 L L I T H W G M S G P G I L R L S A W G A R E L A N K K Y Q F A I L V N W L N
UniRef90_I0TBR7 L L V T H W G V S G P A T L K L S S Y A A R F L A E K A Y H S A P L A I N S W T G
UniRef90_L8MYG4 L L I T H W G V S G P A V L K L S A W A A R E L H D C K Y Q A K L A I N W L H
UniRef90_D8ML09 L L F T H R G L S G P A V L Q I S S Y W L P G E F V T I N L S P
UniRef90_C7BU41 I L F T H R G L S G P A I L Q I S S Y W Q P G T A F V S I N L L P
UniRef90_H5WKL6 L L F T H R G L S G P A V L Q I S S Y W Q P G T A V T I D L T A
UniRef90_UPI00047ADDEF I L F T D Y G L S G P I L L Q L S R V A G V N L L H G Q E V T L V V D M M P
UniRef90_UPI00047DAD15 L L I T H W G M S G P A L L K L S A W G A R E L N E L N Y N F K I G V N W L
UniRef90_L9U781 M L F T H R G L S G P A M L Q I S S V W Q P G E S I S I D L L P
UniRef90_R2PT08 L L F T H F G L S G P A A L R C S S F I N Q E L K Q S G E P V T V L L D C F P
UniRef90_D31V9 L L V T H W G A S G P A V L R L S S H A A R H L A E Q G Y R V A M A V N W M G
UniRef90_UPI0003601D4F L L F T H R G L S G P A I L Q I S S Y W N P G Q A V Q I D L A P
UniRef90_L8LQ53 L L I T H W G L S G P A V L K L S A W G A K I L F D H H Y Q M S L I N L P
UniRef90_F2LNS9 L L L T H R G L S G P G I L Q I S S Y W K P G E P I H V D L L P
UniRef90_F7YIB5 L L F T H R G L S G P A V L Q I S S Y W K A G Q K V S I N L V P
UniRef90_K1LE12 M V F T H F G Y S G P A V L R C S G H V N L W L M K H P Q T V A Q L R L D L T P
UniRef90_G2IUQ7 V L F T H K G L S G P A I L Q A S S Y W T P G Q E L V L D L L P
UniRef90_C9ACP9 L L F T H F G L S G P A A L R C S S F V N Q E L K K Q Q P V T V V L D C L P
UniRef90_UPI0002B40EEF M L V T H W G L S G P V I L R L S A W G A R D L F A S D Y K G L L I V D F T P
UniRef90_X4Z3E9 L L F T H R G L S G P A I L S S Y W K P G G T I D I D L A P
UniRef90_C7LSE6 M L F T H R G L S G P I L L T L S K A A V R A V D Q R K K T E T L I D L K P
UniRef90_K8E791 I L F T E Y G I S G P P I F D L S R T A A R W L Q K G H R V H L K V M L N
UniRef90_I3BVH6 M L F T H R G L S G P A M L R A S S Y W H K G E T L E L N L P
UniRef90_C7M631 L L F T H T G F S G P A M L Q A S S W W T P G Q A C N Y Q E V N F T A N L T E
UniRef90_UPI000468DBA2 M L I T H R G L S G P A M L Q A S S W W T P G Q P L D T D L L P
UniRef90_UPI00047549D2 V L F T N Y G A S G P P I L T L S R K A A Y Q L A R G E M V T I S L D L M P
UniRef90_R6HLW2 M L F T A T G V S G P C I L L T L S S L I N R I K G N I E L N I D L K P
UniRef90_D5BAI9 L L I T H W G M S G P G I L K L S A W G A R E L N D C D Y Q F S I T I V N W V P
UniRef90_UPI0002E02DEF M L F T H R G L S G P A M L Q I S S V W Q P G S A T I E I D L L P
UniRef90_A1RQ91 L L F T H R G L S G P A I L Q I S S N Y W K A G E T I E I N L L P
UniRef90_UPI000373CAD5 F Y F T E W G A D G S V I L R L S R D V K E E Q E D Y L T L H V D L K P
UniRef90_A3WE21 A L F T H K G L S G P A I L Q V I S S Y W R H G E E V G I K F L P
UniRef90_K9H2V2 I L F T H R G L S G P A I L Q V I S S Y W R P G G A I T L D L L P
UniRef90_C5VPS1 I L F T D Y G I S G P P I L Q L S R N A S R G I Y D G K K A T L K V D M M S
UniRef90_H0HRR3 M L E T H R G L S G P A I L Q L S S Y W R E S D E I G I S M L P
UniRef90_K6U936 L L L T H F G I S G P V I I D M S Q M I V D T M D K H G D L K L Y I D F K P
UniRef90_A4F1D6 L L F T H R G L S G P S V L Q L S S Y W R E G E H S L E N E S Y K I L V N L T P
UniRef90_T0CS33 M E F S N V G I E G P I L R S A S C R M K S L E N E S Y K I L D L K P
UniRef90_G0AIS8 L L F T H R G L S G P A I L Q I S S S F W K S G S L Q L N L L P
UniRef90_UPI0003FEDCB4 L L I T H W G M S G P A T L K L S S V A A R Y I S D H D Y H F E V A I N W L G
UniRef90_R7K908 A L E T H E G I S G P A A L T L S S L A A R K D V D G S E L V F D L K P
UniRef90_R6VF77 L L I T H W G V S G P A V L K L S S Y A A R F L H D A D Y H S I L A V N W I N
UniRef90_UPI00046A198E L L I T H R G L S G P A I L Q I S S Y W R P G L P H V D L L P
UniRef90_UPI0004226B5E V L V T H W G I S G P A V L K L S A F G A D W L H E H Q Y Q A R A I I N W N A
UniRef90_L8XF55 L L F T H R G I S G P S V L Q I S S Y W N P G D S V T V D W L P
UniRef90_M9RTZ2 L L F T H R G L S G P A M L Q I S S Y W Q P G D T L E I D L L P
UniRef90_V4NM00 M L E T H R G L S G P A I L Q I S S Y W K P G Q S T V E V D L L P
UniRef90_UPI000234F272 M L V T H W G L S G P A V L R L S A W G A R E L Y Q E K Y Q A K L M V D F I P
UniRef90_B9XMX6 I L F T H R G L S G P A I L Q V S S Y Q Q E K G G I A I N L F P
UniRef90_A4EJN6 L L F T H R G L S G P A V L Q A S S Y W H E G E A V S I N L T P
UniRef90_N6XSM0 A L V T H R G L S G P S I L Q V S S Y W Q Q A Y D A G D W A P V S I D L L P
UniRef90_A0A017HN83 M L F T H R G L S G P A M L Q A S S Y W R E G E D L A V S L L P
UniRef90_F1ZB01 A L E T H R G L S G P A I L R L S S Y W Q N G E A L S I D F L P
UniRef90_R5CSY0 L L I T H W G M S G P A I L R L S S Y A A R L L H E Q N Y K A D M S V N W M E
UniRef90_R5Z516 I L F T H Q G L S G P T I L N A S N F L I K K D C K S L Q I D F V P
UniRef90_K2KSM1 L L F T H R G L S G P S I L Q I S S Y W N E G D S I T V D L N P
UniRef90_F6DRP9 V I F T H W G L S G P G A L R V G R V V A L E K Q R D P A A V L Q G K L D L F S
UniRef90_B5JKE3 V V F T H W G L S G P G V L K L S A W G A R V F S Q L D Y Q C E L L V N W T G
UniRef90_I5AYI6 L L F T H R G L S G P V I L Q A S S F W Q P G A R L T I D L F P
UniRef90_UPI00037CC57C L L F T H R G L S G P A V L Q A S S Y W E E G Q A T V M I D L F P
UniRef90_V4N369 F L F T H R G L S G P S V L Q I S S Y W D L G Q P V T V D L L P
UniRef90_M7PDL9 I L F T H R G L S G P A I L Q A S S Y W P G D A L K I D M F P
UniRef90_UPI0000E105E0 L L F T H R G L S G P A V L Q I S S Y W E A G D T V E I D L L P
UniRef90_A5PBK4 A L F T H R G L S G P S I L R L S S Y W K P G E A I A I D F L P
UniRef90_E6LCD5 L L E T H F G L S G P A A L R C S S F V N Q L L E S Q P D V I T V V L D C F P
UniRef90_D1PHB5 L L I T H W G M S G P A M L K L S S H A A R Y L H E N N Y Q I K I S V N W V H
UniRef90_F7S140 M L F T H R G L S G P A M L Q I S S S F W Q P G E T V A V N L L P
UniRef90_UPI00036B61B1 A L L T H R G L S G P A I L Q I S S Y W R H G E S I E L D L L P
UniRef90_B0UVK5 L L F T H R G I S G P A I L Q I S S N Y W Q V N E N I S I N L L P
UniRef90_UPI00037F7DD8 I L F T H R G L S G P A V L Q I S S Y W H P G E E I S I N L L P
UniRef90_UPI00047B5116 V L I T H R G L S G P A I L Q I S S Y W R E G A E L L R L M P
UniRef90_W8RW98 M L F T H R G L S G P A V L Q I S S Y W R E G D S L S V D L R P
UniRef90_N9XKM2 V L F T D Y G I S G P P I L Q V S S T A S R A L N K G H E V I I E V D S M P
UniRef90_UPI00046852AC L L F T H R G L S G P A I L Q A S S Y W R E G E T V I R I D L L P
UniRef90_UPI0002260567 M L F T H K G L S G P A I L Q A S S S F W K P G Q S T I R I D L L P
UniRef90_UPI0003B4BA46 L L F T H R G L S G P V I L Q L S S H W Q P G Q T I F I D L L P
UniRef90_G4DP6 M L F T H N G I S G P V L R M S L I N R K N N I K L N D L K P
UniRef90_W6N5Z6 L L F T D Y G I S G P P I L Q I S S G L A S R N I N K K K E V S I R I D L F P
UniRef90_A9M650 M L F T H R G I S G P A I L Q I S S Y W R E G D E I R I T M L P

UniRef90_S4EIV5 E R S L Q E I T D R L T A E A K Q S R K Q V T N A W H G F L P E R R L L Q F F V
UniRef90_E4KXR2 A L T S D K L D K R I L R D F D Q E N R Q N K K N L E N V M K N Q L L P T R R L L Q Y V L
UniRef90_UPI0002559E9A Q L D L D A W L K E Q R Q K P N K A E L R T L M A K H M T K R R L A Q T L C
UniRef90_C9QC09 E A D D E L L Q R S L E K H P N K R S I D T F L K S R L P K S F V I E Y W C
UniRef90_E1X402 T E N S D D L I S Y K K S H P N K R S I D T F L K S R L P K S F V I E Y W C
UniRef90_R79D8 G L T A Q Q L D T R L Q R K E L A E Q T P R R R Q V L R N V L P H L S I P A R R F A E I F P
UniRef90_K9YSC3 S E N L E T L K Q Q K E L V E A K A A S R R R Q L G N E F A A R L P Q R R L A A A W L
UniRef90_UPI000471C2F3 E L Q L L D K E L V E A K A A S R R R Q L G N E F A A R L P Q R R L A A A W L
UniRef90_R5T4H8 V M D K E L L F H F R I T E R V R R K L G A N R P G E E N S F L N G V L N K K Q L H Q V I L V
UniRef90_R5XEM0 A L D E D K L F R I L T R D F G E R K G M R F A D S L R G L L P A S Q L A P V V A
UniRef90_R5LJM1 A L S E K Q L D A R I L R D F G E R K G M R F A D S L R G L L P A S Q L A P V V A
UniRef90_UPI000427558B E N T E N S E I R E E F A N Q K K L H P N K K V I Q S N A M L G I P S R R L W T Y I L C
UniRef90_UPI0003751B27 V V N R D E I E E Y I K N I V N E N P K K Q L A S L R P Y D M P S R R L W T Y I L C
UniRef90_A6GWE8 D K T V E E V A T L R A L K L E H S K K T V S K K S P F D I P N R R L W E S I V
UniRef90_I0TBR7 E R K R Q E E V K E L L R L Q A Q N Q P K K Q I G T L H P F C L S L R L W T Y V I
UniRef90_L8MYG4 K L K A E E E V K Q L L N A K T E Q P K K F I S N Y C P V D V S L R L W E Y L L
UniRef90_D8ML09 E R E L G T F I N E E R E S H A N Q S L K N T L A K V L P R R R L V D S L
UniRef90_C7BU41 D T D E L D A F L E Q E R S S H P N Q S V A T E L A R L L P Q R R L A D T W L
UniRef90_H5WKL6 G V D L A A L A D A K R S S S R Q L A T E L A R L L P Q R R L A D T W L
UniRef90_UPI00047ADDEF N Y S P E E L R L F L E N H L G T S F S Y R S I F D C F I G L I N K K L I P V L
UniRef90_UPI00047DAD15 G Y S E M E I L E V L K E M K F S N S K Q L V A K R A Q L D L P S R R L W Q S N V
UniRef90_L9U781 N E N V A E S L R H A R Q E T P K R Q L A S T W L G E R F P K R F A Q A L L
UniRef90_R2PT08 N K S A Q E L V N E L I T E K S K N S K K T L P N A W H G F L P E R R L L F F L
UniRef90_D31V9 E G T V A D V E A A L A R L L A D N H A K Q L S S V H P E G L T S R R L W L F L L
UniRef90_UPI0003601D4F G R D M A E E L L A L K P G S K Q Q L Q T V L S E R W P P K R R L A E A W L
UniRef90_L8LQ53 G E H P D S L K E K L I K L K T E I P K K Q V N S F S P I D L P K R L W Q R F L
UniRef90_F2LNS9 R E D A L E S E A L L A A K S G S K R Q L G A L L S E W V P A R R L A Q A W L
UniRef90_F7YIB5 E V D I E R L L N E S L L A A K S G S K R Q L K N T L A K V L P K R L V E V I
UniRef90_K1LE12 D W T I S T L D Q F G Q T H R Q K E L V I T L L K H W I P E K L A R L I L
UniRef90_G2IUQ7 E L D A E A F L A E R E S G S D Q Q L A N A L A D G W V P E R F A Q A W L
UniRef90_C9ACP9 A K S H E A L T Q E L I Q S A A S K K Q L P N A L A G F L P E R L M T F F L
UniRef90_UPI0002B40EEF D L H L E E V K T I L T R H K S Q F M K Q K V H S S C P F G L V K R F W K Y L L
UniRef90_X4Z3E9 G R D L A G E L L R Q A K S G A R Q M H T V L A G L W P K R L A D A W L
UniRef90_C7LSE6 A L D P A K L D A R L R D L G E H G K M H M E N L L R G L M P P K L I P V C L
UniRef90_K8E791 H L D R E Q L A E F L S R R F Q A N P G K P L A F S F V G F I N K Q L A P V M L
UniRef90_I3BVH6 D R D A L E W L S V M Q Q Q R P K T E L K T F L A E A L P K R L A S R L C
UniRef90_C7M631 A L S Y D E T L S V L Q E F K Q H N G R K A I Q S F S L F E L P K R L A Q A L I
UniRef90_UPI000468DBA2 G V D A Y A E L L A L R E Q H P K R Q V G P W L G E R L P K R L A Q A L I
UniRef90_UPI00047549D2 D R T E E V V D F F D T H W F G H R T V A A S L T G L L N K K L I P V L V
UniRef90_R6HLW2 A L D R E T L D R R I L R D F E Q N I N K N F I N S L D M G L P K S L I P F V V
UniRef90_D5BAI9 G F N P D T I L E G L R S I K K S S A K Q K V S K Y A Q F E L P K R L W V K L V
UniRef90_UPI0002E02DEF G E L A A S L R H A R E Q T P K R M L S T W L G E R F P K R L A Q A I V
UniRef90_A1RQ91 N M D L A Q T L R Q L A A H P K Q S L R N T L S Q W L P K R L V E V I F
UniRef90_UPI000373CAD5 A L D E Q K V H E R L L R E I N S N G K L S Y K N M L K E W L P G K M I S Y F I
UniRef90_A3WE21 Q A D A E W L T E L K R D R P R A S L K S V L R E H L P D R R L A D A L A
UniRef90_K9H2V2 G T D A T A F L L D R K A S R P K A G M K S V L S E I L P D R R L A D A L A
UniRef90_C5VPS1 T I S K E N L T J E L L E N H W G V F G Y R S I H D S F I G I L N K K V I P T L L
UniRef90_H0HRR3 E T D V F A A L R K A R A E N G K Q A A Q T A L A A F L P K K L A Q T I A
UniRef90_K6U936 D I N Q E A L G A Q L M E D F Q N N S K K T L K N Y L K Y H L P N S T I E P V L
UniRef90_A4F1D6 E I A L F A L R E Q R Q I Q G R R D L T T E L S R H L P A R L V I D F L A
UniRef90_T0CS33 A L T E E V L D K R I L Q K D F K K Y I N K K F E N S L D D L P K K L I P F I V
UniRef90_G0AIS8 D I D V I T Q T L L D G K T S I K K L N G N L F A Q W L P A R L A H G I I
UniRef90_UPI0003FEDCB4 E T N A Q L A E E Q I R Q I A R Q N P K K L T A N V H P G E L T A R V W H Y L L
UniRef90_R7K908 A L D A D M L D K R V L R D F D E G K N K D L G N V L T A L M P S K A L I P F V A
UniRef90_R6VF77 R T H H H E V E Q E F Y M F I A S N A N K M A G N L H P F N L T S R L W T Y I L
UniRef90_UPI00046A198E D L D A A G W L L D H K H S T T L L S N L L A Q H L P R R F A R V W C
UniRef90_UPI0004226B5E G F G E N D Y L E H L T E N Y T K A H P N R K I H S H S L F D V P S R L W E H L C
UniRef90_L8XF55 E T N A L A F L E K A I A K N P N Q E L K T A L S K L L P K R L V E Y F I
UniRef90_M9RTZ2 H D A S E W L A Q Q Q R E R P N S E L K T L L A E L F T K K L A G L L A
UniRef90_V4NM00 G T D T F E A L Q T H R K D R P K Q T L G N A F A E F L P R R L W S D R I L
UniRef90_UPI000234F272 D I H T E D V K R I L F Q H K D Q H A K N K V L N S F F G M V K R F W R F L L
UniRef90_B9XMX6 E V N V K E L L L R S R Q S A K E L K N L L A E H L P Q R F T Q E W C
UniRef90_A4EJN6 T D N L L A K L Q N Q R Q S G G R K A L T T V L S Q H L P A R R L V D H L S
UniRef90_N6XSM0 G I D A E D W L Q A H A Q G D K T L A N L A E R L P R R F A H A W C
UniRef90_A0A017HN83 G T D W A Q A L R E A K R E A P K Q S P K T A L A R H L P A R L A D H L A
UniRef90_F1ZB01 D E A E G W L L A M K R E N P R A S L R K V L S A R L P D R L A D A L C
UniRef90_R5CSY0 G M N E S Q V A E C L D L L V T G N N K M L S S V Y P E H L N S K L W A H L L
UniRef90_R5Z516 S K S L J E E C N Q L L L K A L Q K H P N K T V Q S H S L E D L L P K R F V I Q Y L L
UniRef90_K2KSM1 E E D A F D L L K T A K G E N P K Q A V H T V L S R I L P N R L A Q M I A
UniRef90_F6DRP9 E R T A R N L E E D L Q Q C I S A A K K S V K N L I S S L P E R L V K V L L
UniRef90_B5JKE3 D S K P D A I R Q A L E L A K A T H A R K A L V S L N P F D F P R R F W E R L L
UniRef90_I5AYI6 D G N L G D L L E T L R Q T R P K R H L K S V L A E H L P T R L V Q A R L
UniRef90_UPI00037CC57C D L D L S A H L Q A L R T Q R P K V E L K S V L G E Q L T R R V A Q R W C
UniRef90_V4N369 G Q D A M A V L M E K K R D R P K A M L T T I A S E L P K R L A E K W L
UniRef90_M7PDL9 S I D L T A Y L T E M R R E K P K T A L K T L L A D K L T R R V A Q L W C
UniRef90_UPI0000E105E0 S L D L T V E L N R A Q T Q P N V Q L S T V L S T W F P R R L J A Q L L
UniRef90_A5PBK4 D A G G D W L L I G A K R D N P R A T M R S V L R D A M P D R L A D T L A
UniRef90_E6LCD5 E R S K E L L Q S I T T K L H Q S K K A A K N E L A A F L P D R R L V F Y L L
UniRef90_D1PHB5 E S N R S L V E E N I Q G I I J A N P Q K Q L A S I R P Y N L P S R L W L F L I
UniRef90_F7S140 N E D A L J A L L Q Q A K A E Q P R S G L S I F S K Y L P K R M V Q V L A
UniRef90_UPI00036B61B1 D Q A S G W L R E A K R A R P R A S V R S L M A T M L P D R L A E A L A
UniRef90_B0UVK5 M E N I Q F F L N K L R Q T S P K L H L K T A L S R L P Q K L V D L W L
UniRef90_UPI00037F7DD8 R I N L D E E L K S K R Q Q K I N S K L K V C L G G Y L P K R L I S R L F
UniRef90_UPI00047B5116 D I D L A A L L K G M R R T N G R Q A V Q T A L A D E I L P R R L A H F F V
UniRef90_W8RW98 N L D L F A H L R A R R A E A G G K A L S T V S E I L P R K L A L H L S
UniRef90_N9XKM2 Y K S K E E I E N E L Y T H L A M F S N R S L S N A L I G V V N K K L I P T I L
UniRef90_UPI00046852AC A D M Y E A L R N Q R Q A G R K A N F T T E L A R H L P S R R L V D H L S
UniRef90_UPI0002260567 D K N A F E T L R A A R T G R S R A H V A I L S E Q M P R R L A E V L S G
UniRef90_UPI0003B4BA46 F G S L E E T F K K E Q G T R P K K Q V R S L L Y G R L P K R L V D I R L
UniRef90_G4DP6 A L D T Q T L D V E R F E L K D F E E F K N K D I A N A L K N L L P K K L I D L I
UniRef90_W6N5Z6 N L N E K Q L L V K R I F F E N H W G L N Y R S I H D S F I G I L N K K L I P I L
UniRef90_A9M650 G T D S F E A L R E Q R Q N G K Q A L Q T A L A L Y L P R K L A Q A I A

UniRef90_S4EIV5
UniRef90_E4KXR2
UniRef90_UPI0002559E9A
UniRef90_C9QC09
UniRef90_E1X402
UniRef90_R79D8
UniRef90_K9YSC3
UniRef90_UPI000471C2F3
UniRef90_R5T4H8
UniRef90_R5XEM0
UniRef90_R5LJM1
UniRef90_UPI000427558B
UniRef90_UPI0003751B27
UniRef90_A6GWE8
UniRef90_I0TBR7
UniRef90_L8MYG4
UniRef90_D8ML09
UniRef90_C7BU41
UniRef90_H5WKL6
UniRef90_UPI00047ADDEF
UniRef90_UPI00047DAD15
UniRef90_L9U781
UniRef90_R2PT08
UniRef90_D31V9
UniRef90_UPI0003601D4F
UniRef90_L8LQ53
UniRef90_F2LNS9
UniRef90_F7YIB5
UniRef90_K1LE12
UniRef90_G2IUQ7
UniRef90_C9ACP9
UniRef90_UPI0002B40EEF
UniRef90_X4Z3E9
UniRef90_C7LSE6
UniRef90_K8E791
UniRef90_I3BVH6
UniRef90_C7M631
UniRef90_UPI000468DBA2
UniRef90_UPI00047549D2
UniRef90_R6HLW2
UniRef90_D5BAI9
UniRef90_UPI0002E02DEF
UniRef90_A1RQ91
UniRef90_UPI000373CAD5
UniRef90_A3WE21
UniRef90_K9H2V2
UniRef90_C5VPS1
UniRef90_H0HRR3
UniRef90_K6U936
UniRef90_A4F1D6
UniRef90_T0CS33
UniRef90_G0AIS8
UniRef90_UPI0003FEDCB4
UniRef90_R7K908
UniRef90_R6VF77
UniRef90_UPI00046A198E
UniRef90_UPI0004226B5E
UniRef90_L8XF55
UniRef90_M9RTZ2
UniRef90_V4NM00
UniRef90_UPI000234F272
UniRef90_B9XMX6
UniRef90_A4EJN6
UniRef90_N6XSM0
UniRef90_A0A017HN83
UniRef90_F1ZB01
UniRef90_R5CSY0
UniRef90_R5Z516
UniRef90_K2KSM1
UniRef90_F6DRP9
UniRef90_B5JKE3
UniRef90_I5AY16
UniRef90_UPI00037CC57C
UniRef90_V4N369
UniRef90_M7PDL9
UniRef90_UPI0000E105E0
UniRef90_A5PBK4
UniRef90_E6LCD5
UniRef90_D1PHB5
UniRef90_F7S140
UniRef90_UPI00036B61B1
UniRef90_B0UVK5
UniRef90_UPI00037F7DD8
UniRef90_UPI00047B5116
UniRef90_W8RW98
UniRef90_N9XKM2
UniRef90_UPI00046852AC
UniRef90_UPI0002260567
UniRef90_UPI0003B4BA46
UniRef90_G4D6P6
UniRef90_W6N5Z6
UniRef90_A9M650

130 140 150 160
E K A Q L Q E Q L G V Q V S A E Q L E T F A E L C K N F K I T V V K T F P L E
D E A K L Y G D K G V N Q Q V T S K E E R E G L V V K T F K N F K L R F D S L D D L N
E L W G F E G E V V G K Q F N A K R Q L Q S E V V T F K H W C L K P N S G T E G Y R
D R K V L Q D K P L G Q Q F N A K R Q L Q S E V V T F K H W C L K P N S G T E G Y R
Q R E C L S L V K K L A D Q Y T N D E L T A S I E A L K N F S V N P A K S E G Y R
E L C G V D G S Q R V C A Q V V T K E E R E K L V N E A L K A M L P L K K L A P T E
L A S G I S A T O R V A E V V T K K Q I T T L L A N E L I M G N Y Q I L K G K G V F K
E R A G L D A T R P L P E C R D A D L Q R L L G R S V H E W Q L V P S G D E G W R
K E S G I P A G R R T S E I T S E K E R L R V L T D R I K A L E T T V T K G V N S F D
K L S K I D P Y I K V N Q I T S K E E R K N L V H L I K N I T F T V T K N Y R P I E
E L S G I P A D K K V D E V T K E Q R R E L L G R L L K G L T V H I R G F R P V E
E L S E I D E Q L R W L D I A N K Q S N K R M I E A L I N C P Q K V Q G K T F F K
D K L S L P K E K K W S E L T G K N Q L A N L T H Q L T N A E F Q V N G K K S T F F K
L A S Q I D V E V K W A D L T G K N Q L A N L T H Q L T N A E F Q V N G K K S T F F K
S K L G L E T C K P W A E I G R K K T M N R I V E T L T N D Q Y V I A G K K G A F F K
D K A E V A L E K R W A D I S H K S I Q Q I A N V L T A S E Y V I A G K K G A F F K
Q L L G H V P E C T L K Q L N S R Q Q A E L V A L L H N W R I Q P N G T E G Y R
M L D Q I P N I A L K Q L N S I Q Q K Q L V L N L Q S W Q V P P N G T E G Y R
A V N G V T P E R A M P E C K D R D L A A L A Q G L A H W P L V P N G T E G Y K
K E A Q I D I H K P C Y D L Q W K E K E N L L K L L K S W K F K V T G T N S F T K
S A S K I K P D S K R W A D L N K E Q L T Q L S Q R L T S A V E E I K G K T E F K
E W Y D H D L A R P L A Q Y A N A A L D E W V Q R L N A W Q L K P A G T E G W R
E K N G L M E K I G I Q T T E K E I Q A F V Q L C K S F A F K I A K T F P I E
G R A G L S A D K R G G E V S R K K L N R L E T L T N D R Y A V T G T A G S F R
R V A G V G A G A R L A D M S D K A L R A L S E R I H R W Q L V P I G T A G Y K
E V S D V P A K T L W S E L P N S K I R Q Q L S Q E I T Q G R F Q I Q A K A G A F K
D T Q R V A A D A R L A D L N S D K T L R Q V L G G A L S Q R W S L M P D G T E G Y K
E R K A F V D K P L K Q L N P H E L T A I A H D L S Q H W P I L P N G T E G Y R
K N L N L D G H L A Y K N L S P Q Q A Q D L W T L I K E F P L T A Y Q S Q K L D
D G V G F G G R V K D L P G K R R R Q L A E T L H H W R V P N G S Q G Y K
Q Q L D L H E L V A E K A S P E Q L A A L A S L L K G F S V T I V R T F P L E
D R E E I N D E I L V A S T S N K S L A S I S L L K Q C I F K I L G K G Q F K
A Q S D D P G Q A R L A D V I P D R E K L D L A S R I H H W P L A P T G T A G Y K
E Q T R L A A D K A A H Q I S A E E R K R L R L W I K E L R F T V S G Y R P L R
K Q A G I D V Q K K V S E V T A A E R E K I L N I L Q D W R F A V T G T N T W T
E T L L P N R P M G Q Y L G G K Q L Q A I S Q Q L Q A W Q L T P A G T E G M R
E N A G L A P E Q V W A E L N K P Q L R R L A E A L T Q Y R F P I E G K A T F F K
E W Q D A D A E R S L A E L S N A R I E Q L A Q S L N H W Q I K P A G T E G W R
K E A G I D D N M L C Q D L S W K T R K A L C R L M K H W D F L V T D T N G S F P
E R S G I A P F K K V N L I T K E Q R G S L V S L I K N L K F A V K S V G S I D
T A A A I S G D E V W A N V S K T Q L D Q L A F Q L T K G E F T V N G K S T F F K
E W Y E H A T G M P L A N Q L V H A E R A K L V D D L H R W T V L M N G T E G Y R
D E A L L N K M L A N Q L V H A E R A K L V D D L H R W T V L M N G T E G Y R
T R T Q M P E D T K I A N I T K E Q R E T V V K N L K D L T F T I T G T R S F D
D R L G I F E R E L A N G V V S D K E L R K A G T Q L G D W R F S P T G T E G F A
D G P F P G E A M A M P D K A L R K A G D A L N R W R F E P A G T E G Y A
K E S G I D M H K P C W N L T W Q E K N A I F K L I K D W E F E V I D T N G F N
E Q A N A A G N L A D L S D K A L R K L E A A V N G W R V K P A G S E G Y R
K T V S L D P H K K L N Q L T K K D R L L Q E L I K A I P I T I T G H L P M D
T E L G I K G K L A D Q S D M A L R A L C D R L Q D W Q L L P S G T E G Y R
N L S G I D S E T V L H Q I S R E Q R K S L V S L K G I E F N P K R Y K P I D
E A N R L D P A A R L A D T P D R V R L R E L G N A V N R W A I Q P N G S E G Y R
E R T G I D K E K P W D E L G K K G L N K L I E T L T N D V H H V S G K G V F R
E Q A G L K E D K V N S I S S K E R K K L V E V I K N L K F A V K G F C A H D
E K C G C P A D R R M G E L S G K M I N K L I D T L T N D Q Y A I A G K G K F K
E T M H G Q P T A P V N Q Y S D K R L K Q I A A Q L H D W Q V I P D G T A G Y R
E K A E I E E T V L F G N L T K K S L N K L V Q N L H C Y W K I A V S G K T T F F K
E L N V F E N K P L R Q F N K K Q I E D I A L N L N F N W K I K P N S G T E G Y R
D R W F V S K P M K Q Y S P A E L A G I A G Q L S A W R V T P S G T E G Y R
D W H A L S P E A R M A D L G K T V M Q T L A S D A V N R W S F L P D G T E G Y R
E Q E S L D P G D M A T L P K N H L N A I A Q L Q K R Q W M F E V V G K G Q F K
T R F A P S K P M H R Y S N V E L E A I A Q R L Q H W E I L P S G T E G Y A
A E L K L S G N I A D Q S D A K L N Q L C E N L S D W T L T P A G S E G Y R
E L H D W Q R P L N Q Y R H A E L R T I A A A L S G W Q L T P S G T E G Y A
S E L H L S G N L A G L S D A R L D A L A A R L S S D W R L K P T G T E G Y R
E R L G M T G D L A G N L S D R V L S A A A R L S S G W L F H P N G S E G F A
R Q G G L N P Y I R W A E L G S K G R N K L V A T L T N D I Y R I D G K N R F K
V R V A I D A K Q K C N T I T K E K R L E L C Q L L K A C P F S I D G Y G D F H
A T H G L D R P I G E T G D K A L R K L A M D V N Q W A L T P S G T E G Y R
D E L A E V A P E T P A G E V I K A R W N T L I S L M K G L P L Q V T G T P L E
E Y V S I S P D T Q W A Q L P K K A I N Q L V E T I S A T R L S T N G K S M N K
D E K L L N C P I H T L S R Q G L E R V I D E I H A W K I Q P S G T E G Y R
E L W V E N R T L E Q L S N A D I E R V V A A C Q P W T V W P S G T E G Y R
E I F A L P A E K R M A D L N K S E M Q T L A D A I N R W T F T P M G T E G Y R
E Q W I E D K P V G Q Y S D S D I E Q V V S H C Q P W T V K P S G T E G Y R
G Y F E I E N K P M G Q Y Q G K Q L E H I J A N Q F K A W Q L K P N S G T E G Y R
E K L G V E T E L G N A S D K A L R R A Q E Q L K R W S F R P S G T E G F A
E Q L G L A P D T P A N Q L T E A Q I L S I V E K W K A F P I R V N K T L P I E
Q K M G Y A P E K K W S E M G K G C N L L I E T L T N D L Y Q V N G K G A F F K
K H G N W P V K N L A D L S N T D I E R V A N N L A A W P I K P N G T E G Y R
E R L G L A G D P D R M L E T A E R R L S D W R F M P N G T E G F A
N H N I I Q D E V I A N L S K V L K N L D D L I H H W Q I Q P N G T E G Y R
A E E L E R S L Q D L S D T Q I R Q V S E Q I H N W T I K P G G T E G Y R
E E A K L T G R M L A D L S D A V I D T L S S S Q A W T L K P A G S E G Y R
A K L G V S G N L A D Q S D A A L R A L T D Q L T R W E L T P T S S E G Y R
K A S N I N I H T P C C E L D W K C Q S D L I N K L K S W K F K C T G T K E F Q
G V F D L S G N L A D W S D K R L S E L M N G L K H W Q V T P S G T E G Y R
P R L L G E K A A E W P D K L R S A A E T L K N W Q F T P S G T E G Y A
Q G F P A D R A I G S V S H D Q L R Q I A S A F H E W Q I K P G G T E G N R
K Y A N I P Y Y K K V N E I S K Q D R H N L V K T T K N L N L S Y K S I M D I N
K E A S I D N H K P V F Q L N W R E K I H I L L K S W K F S Y I D T N S F R
E E T G A G S H L A D L S D K V F R R V E A A V N D W R I K P A G S E G Y R

UniRef90_S4EIV5	K S F V T
UniRef90_E4KXR2	R A V T
UniRef90_UPI0002559E9A	T A E V T
UniRef90_C9QC09	T A E V T
UniRef90_E1X402	K A E V T
UniRef90_R7I9D8	E A V T
UniRef90_K9YSC3	E E F V T
UniRef90_UPI000471C2F3	K A E V T
UniRef90_R5T4H8	Q A Q C
UniRef90_R5XEM0	E A I T
UniRef90_R5LJM1	E A V T
UniRef90_UPI000427558B	E E F V T
UniRef90_UPI0003751B27	D E F V T
UniRef90_A6GWE8	E E F V T
UniRef90_I0TBR7	D E F V T
UniRef90_L8MYG4	E E F V T
UniRef90_D8ML09	T A E V T
UniRef90_C7BU41	T A E V T
UniRef90_H5WKL6	K A E V T
UniRef90_UPI00047ADDEF	N S Q V T
UniRef90_UPI00047DAD15	E E F V T
UniRef90_L9U781	T A E V T
UniRef90_R2PT08	K S F V T
UniRef90_D3I1V9	D E F V T
UniRef90_UPI0003601D4F	K A E V T
UniRef90_L8LQ53	E E F V T
UniRef90_F2LNS9	K A E V T
UniRef90_F7YIB5	T A E V T
UniRef90_K1LE12	K A F V T
UniRef90_G2IUQ7	K A E V T
UniRef90_C9ACP9	K S F V T
UniRef90_UPI0002B40EEF	D E F V T
UniRef90_X4Z3E9	K A E V T
UniRef90_C7LSE6	E A V T
UniRef90_K8E791	A A Q V T
UniRef90_I3BVH6	T A E V T
UniRef90_C7M631	E E F V T
UniRef90_UPI000468DBA2	T A E V T
UniRef90_UPI00047549D2	N A Q T T
UniRef90_R6HLW2	S A V V T
UniRef90_D5BAI9	D E F V T
UniRef90_UPI0002E02DEF	T A E V T
UniRef90_A1RQ91	T A E V T
UniRef90_UPI000373CAD5	E A V T
UniRef90_A3WE21	K A E V T
UniRef90_K9H2V2	K A E V T
UniRef90_C5VPS1	N A Q V T
UniRef90_H0HRR3	T A E V T
UniRef90_K6U936	K A M L T
UniRef90_A4F1D6	T A E V T
UniRef90_T0CS33	E A V T
UniRef90_G0AIS8	K A E V T
UniRef90_UPI0003FEDCB4	D E F V T
UniRef90_R7K908	S A I T
UniRef90_R6VF77	D E F V T
UniRef90_UPI00046A198E	K A E V T
UniRef90_UPI0004226B5E	E E F V T
UniRef90_L8XF55	T A E A T
UniRef90_M9RTZ2	T A E V T
UniRef90_V4NM00	T A E V T
UniRef90_UPI000234F272	D E F V T
UniRef90_B9XMX6	K A E V T
UniRef90_A4EJN6	T A E V T
UniRef90_N6XSM0	K A E V T
UniRef90_A0A017HN83	T A E V T
UniRef90_F1ZB01	K A E V T
UniRef90_R5CSY0	D E F V T
UniRef90_R5Z516	E A M V T
UniRef90_K2KSM1	T A E V T
UniRef90_F6DRP9	E A T V T
UniRef90_B5JKE3	E E F V T
UniRef90_I5AYI6	T A E V T
UniRef90_UPI00037CC57C	T A E V T
UniRef90_V4N369	T A E V T
UniRef90_M7PDL9	T A E V T
UniRef90_UPI0000E105E0	T A E V T
UniRef90_A5PBK4	K A E V T
UniRef90_E6LCD5	K S F V T
UniRef90_D1PHB5	E E F V T
UniRef90_F7S140	T A E V T
UniRef90_UPI00036B61B1	K A E V T
UniRef90_B0UVK5	T A E V T
UniRef90_UPI00037F7DD8	T A E V T
UniRef90_UPI00047B5116	T A E V T
UniRef90_W8RW98	T A E V T
UniRef90_N9XKM2	N A Q V T
UniRef90_UPI00046852AC	T A E V T
UniRef90_UPI0002260567	K A E V T
UniRef90_UPI0003B4BA46	T A E V T
UniRef90_G4D6P6	A S V T
UniRef90_W6N5Z6	N S Q V T
UniRef90_A9M650	T A E V T

UniRef90_X5JUK3
UniRef90_W6WAE5
UniRef90_W3ASi6
UniRef90_UPI00034D2994
UniRef90_B4F022
UniRef90_UPI000287F313
UniRef90_D4KQX6
UniRef90_H1G5S2
UniRef90_UPI0002DD2F3A
UniRef90_C4L4R6
UniRef90_I3IN43
UniRef90_R7N845
UniRef90_H2BRU6
UniRef90_W7QBV2
UniRef90_E4R8F9
UniRef90_A1WWP6
UniRef90_M8K521
UniRef90_UPI0003B4C60E
UniRef90_A6FJD2
UniRef90_A0A037ZLU6
UniRef90_A6DYV0
UniRef90_A0A021VYY7
UniRef90_T3GSP5
UniRef90_T0PMY1
UniRef90_UPI00036EB347
UniRef90_UPI000237A070
UniRef90_I4ACK0
UniRef90_UPI000364F80F
UniRef90_D4J861
UniRef90_I4YV42
UniRef90_Q2G7U9
UniRef90_A1U2G0
UniRef90_UPI000366D58F
UniRef90_UPI000344C4A4
UniRef90_S3Y7F2
UniRef90_UPI000478E9F9
UniRef90_M5DFX1
UniRef90_N2ABJ6
UniRef90_U7G383
UniRef90_R4KF78
UniRef90_Q899Q0
UniRef90_B9H3Y4
UniRef90_F8L9F8
UniRef90_Q11VL2
UniRef90_W9V0C9
UniRef90_UPI0003685FAE
UniRef90_T4G217
UniRef90_UPI000474AD4F
UniRef90_A9DD86
UniRef90_UPI0003C19684
UniRef90_G0A3C7
UniRef90_UPI00036489A7
UniRef90_G2INC9
UniRef90_E4KMB7
UniRef90_UPI00041AA3EB
UniRef90_A0A059KKV5
UniRef90_UPI00028878A0
UniRef90_A0A024FGM4
UniRef90_A0A023V5N7
UniRef90_G4QC3
UniRef90_Q82V37
UniRef90_H8FPV8
UniRef90_UPI00036CD6C2
UniRef90_F7SLN9
UniRef90_UPI0002624FE7
UniRef90_Q2N7A0
UniRef90_U4V5J6
UniRef90_D8K8R2
UniRef90_W4T516
UniRef90_K0CTC6
UniRef90_UPI0004667780
UniRef90_C0QH74
UniRef90_G8R5U0
UniRef90_S6GJ66
UniRef90_R9CJF1
UniRef90_K6YAY6
UniRef90_D4ZFA9
UniRef90_B5ZD61
UniRef90_UPI00046F53B1
UniRef90_S2Y4K1
UniRef90_D0D5J5
UniRef90_D1Y071
UniRef90_J9Z2M3
UniRef90_R6XQG7
UniRef90_F4LS45
UniRef90_UPI000474005F
UniRef90_S0KQ25
UniRef90_R5KCM3
UniRef90_A5GHM8
UniRef90_D1PP77
UniRef90_UPI00046F116D
UniRef90_UPI000472059F

UniRef90_X5JUK3 L L V T H W G V S G P G V L K L S A W G A R G L Y E S N Y R A T L T I N W S 80
UniRef90_W6WAE5 L L F T H R G L S G P S I L K L S S Y W R E G D D V A L V I N E P
UniRef90_W3ASi6 L D F T Q E G L S R G P V I L S A S A I T K Y L N A S D H K L L T L H I D L K P
UniRef90_UPI00034D2994 L L I T H W G I S G A P S V L K L S A W G A R L L H D H Q Y N L P L I L I N W L P
UniRef90_B4F022 L L F T H R G L S G P A I L Q I S S Y W H A G E N L V S I N N L P
UniRef90_UPI000287F313 A L F T H K G L S G P A I L Q V I S S Y W R H G E P V G I D F L P
UniRef90_D4KQX6 L Q L T D Y G I S G P I V F Q V I S S Y A T R A L K Q K K Q V Y A Q I N D F M P
UniRef90_H1G5S2 L L F T H R G L S G P A V L Q A S S Y W E P G L K Q K K Q V Y A Q I N L L P
UniRef90_UPI0002DD2F3A L L F T H R G L S G P S I L R Q V S S Y W K P G Q K S V L S I N L L P
UniRef90_C4L4R6 M I F T H F G I S G P I A L R C S Q Y T I K E R K R S K E Q V V L M S L D F F P
UniRef90_I3IN43 A L F T H Y G I S G P A I L D M S K R L V E R L P E G P I R T H I D F K P
UniRef90_R7N845 L Q L T D Y G I S G P I V F Q L S R V A A Y A L R N R K S V M V Q I D F T P
UniRef90_H2BRU6 L L V T H W G L S G P A I L K L S A W G A R Q L N D V D Y K F Q I E I N W V P
UniRef90_W7QBV2 L L F T H R G L S G P G M L Q I S S Y W L P G D E L E I D L L P
UniRef90_E4R8F9 L L F T H R G L S G P A I L Q I S S Y W E A G D T V L S I N L L P
UniRef90_A1WWP6 L L I T H H G L S G P A A L Q A S S Y W Q P E V P L V E I D W L P
UniRef90_M8K521 M I F T H F G V S G P G V L K L S S Y I N K A L N D G E V E I K L D F M S
UniRef90_UPI0003B4C60E L L I T H W G M S G P S I L K L S A W G A R I L A E K K Y Q F A I S V N W L N
UniRef90_A6FJD2 L L F T H R G L S G P S V L Q V I S S Y W N A G E V I T I N L L P
UniRef90_A0A037ZLU6 M L F T H R G L S G P A I L Q I S S S F W R E G E A I T T V D L L P
UniRef90_A6DYV0 A L F T H R G L S G P A I L Q I S S Y W R E G Q A I T R D L D P
UniRef90_A0A021VYY7 L L I T H R G V S G P S I L Q I S S Y W Q P G D A L R L D L L P
UniRef90_T3GSP5 M L F A H F G I T G P C V L I M S S Y I N K I T E K E K V E L N I D F L P
UniRef90_T0PMY1 L L F T D Y G I S G P P I L Q L S R I A S K G L Q N N K S I S L K V I D M M D
UniRef90_UPI00036EB347 M L F T H R G I S G P A I L Q I S S N Y W H P G E E F V I T I N L L P
UniRef90_UPI000237A070 L L F T H R G L S G P S V L Q L S S Y W R E G E V I R V V N L L P
UniRef90_I4ACK0 L L F T E Y G I S G P I F Q I S S R T A A E K L D R M K N E V W L K V V L L P
UniRef90_UPI000364F80F L L F T H R G L S G P A I L Q I S S Y W Q P K D E L R V L R V D W L P
UniRef90_D4J861 L Q L T A Y G I S G P I V F Q V I S S Y A A K A L Q M K K T V T A V L D L M P
UniRef90_I4YV42 M L F T H R G L S G P A I L Q V I S S Y W R E G D E I V L S M L P
UniRef90_Q2G7U9 A L F T H R G L S G P A M L Q V I S S Y W Q H R T P I A V D F L P
UniRef90_A1U2G0 M L M T H R G L S G P A M L Q V I S S Y W R P G D E V H I N L L P
UniRef90_UPI000366D58F A F F T R E G L S G P I L D L S A V F G R D A L K Q G V V S L S L W K P
UniRef90_UPI000344C4A4 V L I T H W G F S G P A V L K L S A F V G A R W V H E Q D Y T F V I H I R W V A
UniRef90_S3Y7F2 L L I T H W G M S G P A I L K L S S Y A A R I I S E R G Y R F P L S V N W I G
UniRef90_UPI000478E9F9 M L F A H F G L T G P C A V L K L S S H I T K Y L S E N E L E I N I D F L P
UniRef90_M5DFX1 L L F T H R G L S G P A I L Q V I S S Y W Q P G V T I H V D L L P
UniRef90_N2ABJ6 I Q L T G Y G I S G P I V F Q V I S S G A A A A L H E R K S V K A V L D F M P
UniRef90_U7G383 M L V T H R G L S G P A M L Q V I S S Y W Q P G D E L H I N L L P
UniRef90_R4KF78 I L F T D Y G I S G P P I L A L S R T A G E Y L R R G K P V T L K L N L L N
UniRef90_Q899Q0 L L F T N Y G I S G P P I L Q I S S L A S R C L N K E D V S I V V D M F P
UniRef90_B9H3Y4 M L V T H W G L S G P V I L R L S A W G A R D L F S S G Y K G T L I V D F V P
UniRef90_F8L9F8 L L M T H W G F S G P A A L K L S A F G A R L L A E K N Y E I G L Y I D W L P
UniRef90_Q11VL2 L L I T H W G V S G P A V L K L S A F A A R D L A K K Y N F D I Q I N W T P
UniRef90_W9V0C9 M L F T H K G L S G P A V L Q I S S N Y W Y F G D E V E I D L L P
UniRef90_UPI0003685FAE L L I T H W G I S G P A V L K L S A F A A R D L E E K K Y T F D V Q I N W L A
UniRef90_T4G217 L E F T K F G L D G P I I K S A S C R M K D T R K E N Y T I L L D L K P
UniRef90_UPI000474AD4F L L I T H W G M S G P A V L K L S A Y G A V G L H R Q R Y R A T L T V N W L P
UniRef90_A9DD86 M L F T H R G L S G P A M L Q I S S S Y W R D G D R I V V S M A L G V L S I D L A P
UniRef90_UPI0003C19684 M L F T H R G L S G P A I L Q I S S S Y W R E G E E L V V S M A L G V P Q I N C L P
UniRef90_G0A3C7 L L F T H R G L S G P A I L Q I S S S Y W Q P G E I T L A I A M L P
UniRef90_UPI00036489A7 M L F T H R G L S G P A I L Q I S S S Y W R E G D E L I A I D Y L P
UniRef90_G2INC9 A L F T H R G L S G P A I L Q I S S S Y W K H G E D H E T G A D T A N M T I D L Q P
UniRef90_E4KMB7 M L F T H F G Y S G P A I L R T S G H I N Q F L H I T I S I D L L P
UniRef90_UPI00041AA3EB L L F T H R G L S G P V I L Q I S S N Y W A G D T I S I D L L P
UniRef90_A0A059KKV5 L L F T H R G L S G P G V L Q I S S S F W R P G Q P I E I D L T P
UniRef90_UPI00028878A0 L L I T H W G F S G P A I L K L S A W G A R V L H E L N Y K F D L V V N W T K
UniRef90_A0A024FGM4 L L I T H V G M S A P A I L K L S A F G A I E L A E L K Y N F E F V S I N L T R
UniRef90_A0A023V5N7 L L F T H R G L S G P A V L Q I S S S F W Q P G E F E V S I N L L P
UniRef90_G4QC3 M L F T H K G L S G P I L I N A S T Y W E D G Q E L S I N L C P
UniRef90_Q82V37 L L F T H R G L S G P S I L Q I S S S Y W E G E P I V I N L A P
UniRef90_H8FPV8 V L L T H R G L S G P A V L Q A S S S Y W Q Q G E S I A I D W L P
UniRef90_UPI00036CD6C2 L L L T H R G L S G P S I L K A S N H W W P G D E I A I D W L P
UniRef90_F7SLN9 M L F T H R G L S G P S M L Q I S S V W Q P G D T I T I N L L P
UniRef90_UPI0002624FE7 L L F T H R G L S G P A I L Q I S S S F W Q E G K A L E I D L L P
UniRef90_Q2N7A0 A L I T H R G L S G P A I L Q V I S S Y W K P G D P V W I D F A P
UniRef90_U4V5J6 M L F T H R G L S G P A I L Q I S S S Y W A E G A D I T L N L T P
UniRef90_D8K8R2 M L L T H R G I S G P A I L Q I S S S Y W Q L S D E L E I N L L P
UniRef90_W4T516 L L I T H W G L S G P A V L K I S S A W E A L S L A Q L K Y N F E I E V N F I S P
UniRef90_K0CTC6 M L F T H R G L S G P A M L Q I S S S Y W E A G D T T I T I N T L P
UniRef90_UPI0004667780 L L F T H R G L S G P A I L Q I S S S Y W R E K Q P I R I A F L P
UniRef90_C0QH74 L L F T H R G L S G P V I L Q I S S V H W E P G Q S L V V D L L P
UniRef90_G8R5U0 L L I T H W G F S A P A V I K L S A W A A D L F D K S Y Q F P I L I N W I P
UniRef90_S6GJ66 M L F T H R G L S G P V M L Q A S S S Y W K S G E F I S I N L F P
UniRef90_R9CJF1 M I F T H F G I S G P G V L K I S S S Y S K I L K E K E V E I K L D F L P
UniRef90_K6YAY6 I L F T H R G L S G P A V L Q I S S S F W Q P G E H V E F D L F P
UniRef90_D4ZFA9 L L F T H R G L S G P A I L Q I S S N F W K P G E T I S I N L L P
UniRef90_B5ZD61 M L F T H R G L S G P A I L Q V I S S Y W D S G R E T I S I D L M P
UniRef90_UPI00046F53B1 L L F T H R G L S G P A L L Q I S S Y W D A G E P V R I D L L P
UniRef90_S2Y4K1 L Q L T K Y G I S G P I V F Q V I S S R Y A S E G L Y R K K E V I A V L D L A P
UniRef90_D0D5J5 M L F T H R G L S G P A M L Q V I S S Y W R E G E P I L V D L S P
UniRef90_D1Y071 L L I T H W G M S G P A I L K L S S S H A R I L G E N D Y K G Q V A I N W V G
UniRef90_J9Z2M3 M L F T H R G L S G P S I L Q I S S S Y W K L K H E I Q I N L S P
UniRef90_R6XQG7 V Q I T A Y G I S G P I F Q I S R K A A K A L Y Y H K N A V H L D L I P
UniRef90_F4LS45 I L F A N Y G V S G P P I L Q I S S R K A V E L L K A N K E A V L K I S V I D
UniRef90_UPI000474005F L L I T H W G F S G P A V L K L S S I K A A R E L Y S Q K Y K F N L I K W S
UniRef90_S0KQ25 L L F T H F G L S G P A A L R C S Y A A N Q E L R T G K S S V L V S L D C F P
UniRef90_R5KCM3 I Q F T Q Y G L S G P I A V F N L S Y A G V A L H R T G R K S V V R I D L D L C V
UniRef90_A5GHM8 V L I T H R G L S G P A T L R L S A F A A R A L H Q S H Y K G D L K V D W S A
UniRef90_D1PP77 A L F T H F G L S G P L V L S A S T Y I E D L A R H R Y V C E F D L K P
UniRef90_UPI00046F116D V L F T H R G V S G P A I L Q I S S F W K E G D V V H I D F L P
UniRef90_UPI000472059F L L I T H R G L S G P V M L K S S T H W N P G D S V H L D W L D

UniRef90_X5JUK3 E Y H Q D Q L R E H L A V K N E W G K R A V A L H R G V N L P H R L W Q F L V
UniRef90_W6WAE5 D L D L A A M L K T A R K V N G R N Q A Q T V L A E V L P S K R L A Q F F V
UniRef90_W3ASI6 A L P D S Q L R D E R E L R R D K H E F R N K E L R N A F S N L P S Q R L T S V F T
UniRef90_UPI00034D2994 A Y N L D S I R E E L Q Q D K T T L T K Q K V I N Y N Q F N L P S K R L W Q S L V
UniRef90_B4F022 D T D L L E G Y L Q E K R Q A R Q P N Q L L K N T L S R L L P K R F T E T M I
UniRef90_UPI000287F313 A L K P G G W L V A A K H A R V S L A S A L S N H L P G K R L A E V L L
UniRef90_D4KXQ6 D R S F G E V N D L L K L R F C A M N H G K D A S Q A M I G L C N G K R L A E V L L
UniRef90_H1G5S2 E L D L L A A H L Q R R L R R E R P K M A L K T W L G Q H L T R R K V A E Q R W C
UniRef90_UPI0002DD2F3A N D D V E L L L L L E S R E K H P N Q S L K N T L A K V L P K R R L V E V L L
UniRef90_C4L4R6 D T S R D A L V Q E L W N Q V K R H G S K A I K S C L T F L I P E K L V S I L L
UniRef90_I3IN43 N H A F H E L D I L L L D Q V M K R H G S K A I K S C L T F L I P E K L V S I L L
UniRef90_R7N845 E Y S Y D E I V T Y L L E Q Q N L R K D Q Q T V D E L L T G F F L N K K I N L V F L
UniRef90_H2BRU6 N F T S E E L L E K L T A L K F D H A K Q Q T S K Y A Q F E L P K R L W Q S L V
UniRef90_W7QBV2 G L D V G E D L A A A R R R Q H P R R Q L S T W L N E R E L P R R L A Q S L V
UniRef90_E4R8F9 D R D A L S E W L Q Q L Q A R R A N A E L K T V L G E A V F T R R L A N L L A
UniRef90_A1WWP6 G V A L H D E L A E A R R R S N P N K T A L N N L K G L P Q N F L K E I F
UniRef90_M8K521 D K S K E E L S E T I R S N P N K T A L N N L K G L P Q N F L K E I F
UniRef90_UPI0003B4C60E D T D L A E A E L L K S L K Q E S H S K K I S K K S P F D F P K R L W E K L V
UniRef90_A6FJD2 D T S R D A L V Q E L W N Q V K R H G S K A I K S C L T F L I P E K L V S I L L
UniRef90_A0A037ZLU6 G R D A F G A L R A L R Q T A G P A R R N I T T D L G D Y L P A K R L V T H L A
UniRef90_A6DYV0 N A R L Y D M L R Q Q R Q T A G P A R R N I T T D L G D Y L P A K R L V T H L A
UniRef90_A0A021YYY7 N R D A M D W L T Q Q R E R P K R A E L K T V L G D A M P K R F A Q R L C
UniRef90_T3GSP5 N L S T D E I S S I R A F P N K N V L N N L K Q L I P Q N F L K E I F
UniRef90_T0PMY1 Q F S K D D L I N F L E N H F A L F S Y R S I S E N L T G L I H K K L P I F L
UniRef90_UPI00036EB347 D F D L L F E W L R D Q R Q E A G G P K A E L T T I M A Q Q M S K R M A Q V L C
UniRef90_UPI000237A070 G L G L L F E W L R D Q R Q E A G G P K A E L T T I M A Q Q M S K R M A Q V L C
UniRef90_I4ACK0 A W S R E R L D Q Y L R K R W E D S P E K A E L T T I M A Q Q M S K R M A Q V L C
UniRef90_UPI000364F80F N L D A L D Y Y L S E Q Q H T H P N A E L R T A L A G I L P S R F A Q R L C
UniRef90_D4J861 A V S D K G L R A R L M W Q M H A S P K W T M R M V L S G M M N S K L A A C L L
UniRef90_I4YV42 G V N L F E E L R A A R A Q N G R Q A L Q T A L S A F L P K R L A Q E L V A
UniRef90_Q2G7U9 D A Q S D W L L E E K R V R P R A T L R S T L A R R L P E R L A E A L A
UniRef90_A1U2G0 G Q P I Q E D L L A L R K Q K P Q S T L A Q Y L N Q H L P K R F A Q A F N
UniRef90_UPI000366D58F A L D S E T F D R R L Q R E F A E N A N R N F A N S L D G L P K A L T P I F L
UniRef90_UPI000344C4A4 V T S E E L R A R Q L K A Y Q A H P K R L V Q G H P L F E L P Q R L W A Y A C
UniRef90_S3Y7F2 R Y N M N E I R E Y L Q E T A V R N A Q K Q L S S I R P F G I P S R L W L H L L
UniRef90_UPI000478E9F9 S K T N E E I S N I R E N P N K N V I N N L K M Q Y L P Q N F L K E I F
UniRef90_M5DFX1 D L D A A W L D H R S P G L L S N L M Q Y L P R R F A Q A W C
UniRef90_N2ABJ6 E L I W E A F L A F L K E R I N T R P E K T L E E F F V G L F P K K L W D L W I
UniRef90_U7G383 A Q T V Q D D L F A L R K Q K P Q S S T M A Q Y L N Q H L P K R F A Q A F N
UniRef90_R4KF78 Y M S R E E L E A F L K R L Q Q S H K T L A F S F V G F I N K R L V P V L L
UniRef90_Q899Q0 N T V K K A L Q D F L E N H I G M F S Y R S I H D S L V G L N K K L I P I L L
UniRef90_B9H3Y4 D L H I E D M K S I L N R H K H K Y A K K A L N S L G F S L T K R F W K Y I V
UniRef90_F8L9F8 K F S I D E L L S L F A S E H K A K K L S A I R S I P L P K R L W N L L C
UniRef90_Q11VL2 N V S E N D L K I V R E Q H A K K L V R N V I P L G L P K R L W E V F C
UniRef90_W9V0C9 D Q D L A T L T Q W Q R E G A K S E L K T L L S R L P K R L V S H W L
UniRef90_UPI0003685FAE E Q H S V T E N A L K E R E A N G K K L V R N V I P F N L P K R L W E Q F C
UniRef90_T4G217 A L D E E K L D K R V Q K D F Q K Y T N K K F E K A L D D L L P K K L T P I T
UniRef90_UPI000474AD4F E R S Q D S M R Q K L L A L K Q D Q G R R Q V A A F S P F P L S R R L A Q Y L A
UniRef90_A9DD86 D R D L A D A L K Q E R S S R P K G S P W T T L G E I V P K R L A Q H L E
UniRef90_UPI0003C19684 D V F E R L R E A R R A N G R Q A A Q T A L A T L L P R R L A Q L L A
UniRef90_G0A3C7 Q L F K L L K Q Q R G Q G N K L K L K T W L A E H L P K R L A Q A L L
UniRef90_UPI00036489A7 D M V F A A L K A A K A D R D G K Q A L G T V L A T L L P K R L A Q L I A
UniRef90_G2INC9 D H A A D W L L G A K R T S P R A T V R R V L R H A L P E R L A D A L D
UniRef90_E4KMB7 E L N Q D Q L R D Q A E G Q R D K Q V L T I I K A W M P Q A L A R V L L
UniRef90_UPI00041AA3EB G E D L N Q L L T Q T Q S R P E L A L K T V L S Q H L P K R V V I E C L L
UniRef90_A0A059KKV5 G L D L A A R L L A A K Q G S R R Q L G N E F A T L L P S R L A E A W L
UniRef90_UPI0002887A0 F D S F E A C R P F L Q D D K E E N S K Q V A K N S P L Y E L P K R L W L Q L V
UniRef90_A0A024FGM4 L D V E T C L E Q L K D F K L G F A K K A I I N S P Q F D L P K R L W K Q L I
UniRef90_A0A023V5N7 D V D L A S F L D E Q R S A H P N Q S L K N T L A M Q L P K R L V I E C L Q
UniRef90_G4QC33 G L D L A E V L I E A S K T S G S N K S K P A S L L E Q Y M P K R L A A V M A
UniRef90_Q82V37 G T D V L A F A S K E Q S P K L H I N N A L A E I L P R R L A Q S I C
UniRef90_H8FPV8 D L D A A A Y L L G R K T E R P K A E V R T V L A E H L P A R L A E A L T
UniRef90_UPI00036CD6C2 A V E D I A A S L R Q A R A E T P S R T P A G W L G E R L P K R L S Q W L V
UniRef90_F7SLN9 S E H A A E T L R H A R H T P K R Q L S T W L G E R F P K R F A Q A L L
UniRef90_UPI0002624FE7 E L D V Y A Y L C Q L K I Q K P Q S F L K S I L S E L L P N R L A Q T M C
UniRef90_Q2N7A0 G E K G D W L V A R K Q A A T A S V L R E Y M P E R L A G V L A
UniRef90_U4V5J6 D G T T M T A L R D Q R Q L S G R R N F K T E L A T H L P A R L A V D H L A
UniRef90_D8K8R2 G A D V L L A W L T E R Q R S R P G A E L K T V L A E W L P K R L A Q R L C
UniRef90_W4T516 V P T D E A E E I F Q D F K Q N N P K K S I G Q S K I F D I T N R F W Q K I L
UniRef90_K0CTC N D D A A L I Q T A R T D T P D A L L A T C L N K V F P K R M V Q S F I
UniRef90_UPI0004667780 G Q D I H A A L V I S A K R E N G R R A I P T V L A D I L P K R L A A H L A
UniRef90_C0QH74 G V D L L S Q L K Q A Q S E R P R Q Q V K S M L T D L L P R R L V Q A M V
UniRef90_G8R5U0 G L D E E A T R T V L N D Y K K Q H P R K V S T N Q L L E I P S R L W Q R I C
UniRef90_S6GJ66 N T D C L I T W L K E Q R E Q K S K S E I Q S L L G Q H L T K R L A Q T L L
UniRef90_R9CJF1 Q I S K D E L S K I I R T N A N K G L V N N L K G Y L P Q N F I Q E T A L
UniRef90_K6YAY6 N G D L E I L T Q S Q Q S P D S L L A T A L S K H F P K R Y V K E T A L
UniRef90_D4ZFA9 G I D A R A A I E L V L A N H P K Q N L R N T L S H W L P K R L V E A L F
UniRef90_B5ZD61 G R D A A E A L R A A K R Q R P R V I E G R T M L S G F L P Q R L A Q A M A
UniRef90_UPI00046F53B1 G Q D M A A L L A G L K K A K S Q M K G P A A L S R W L P H R L A Q E L A
UniRef90_S2Y4K1 N V I T E K E M D D L R L R I R R H P E R K M T E F F T G M Y H Q K F S Q T I L
UniRef90_D0D5J5 A R D L A E A L R D A R A T A G R R A L S T V L G Q W L P S K L L V H L G
UniRef90_D1Y071 E R T R T E V E T A I N R I S E N P K K L L G N V R P F N L T T K L W L Y I I
UniRef90_J9Z2M3 D I D V Y K F L L Q K K S S N S K Q D V Q S A I S E T I P K R L S Q I C
UniRef90_R6XQG7 Q M D Q K E L C G F L T K R M E Q R Q M L T M S K F L I G L F N K K L I P C I L
UniRef90_F4LS45 N M T Q K E L E R F L E K R F K N M Q E K S L D F S M V G V N K R L I P V L L
UniRef90_UPI000474005F S L S Y E E L K E F I N Y L R L N K G K V N L N G R P V P L T K R L W I F L L
UniRef90_S0KQ25 N Q T K E M L D D L T A R S Q T K Y R N I G S N A L T Q W L P E R L A R Y F L L
UniRef90_R5KCM3 E L S E Q E L W L F L Q A K Q I S G Y R N I G S V L T G L I P E K L A R Y L L
UniRef90_A5GHM8 G L G R S G V E Q R L Q Q W R R E Q A R R T V S A A K P D H L P R R L W Q V F L
UniRef90_D1PP77 A L D E K T L Y D R L T R D F A A L G G H S A Q G A L E K L L P H S M R P V A V
UniRef90_UPI00046F116D D E D V L G L L Q A A R K E N P K G R V R K L S Q Y L A N S R V E K L A
UniRef90_UPI000472059F G L D A Q A L A Q L R R D E P R K L R Q W L S E L L P K R L A L A L A

UniRef90_X5JUK3
UniRef90_W6WAE5
UniRef90_W3ASi6
UniRef90_UPI00034D2994
UniRef90_B4F022
UniRef90_UPI000287F313
UniRef90_D4KQX6
UniRef90_H1G5S2
UniRef90_UPI0002DD2F3A
UniRef90_C4L4R6
UniRef90_I3IN43
UniRef90_R7N845
UniRef90_H2BRU6
UniRef90_W7QBV2
UniRef90_E4R8F9
UniRef90_A1WWP6
UniRef90_M8K521
UniRef90_UPI0003B4C60E
UniRef90_A6FJD2
UniRef90_A0A037ZLU6
UniRef90_A6DYV0
UniRef90_A0A021VYY7
UniRef90_T3GSP5
UniRef90_T0PMY1
UniRef90_UPI00036EB347
UniRef90_UPI000237A070
UniRef90_I4ACK0
UniRef90_UPI000364F80F
UniRef90_D4J861
UniRef90_I4YV42
UniRef90_Q2G7U9
UniRef90_A1U2G0
UniRef90_UPI000366D58F
UniRef90_UPI000344C4A4
UniRef90_S3Y7F2
UniRef90_UPI000478E9F9
UniRef90_M5DFX1
UniRef90_N2ABJ6
UniRef90_U7G383
UniRef90_R4KF78
UniRef90_Q899Q0
UniRef90_B9H3Y4
UniRef90_F8L9F8
UniRef90_Q11VL2
UniRef90_W9V0C9
UniRef90_UPI0003685FAE
UniRef90_T4G217
UniRef90_UPI000474AD4F
UniRef90_A9DD86
UniRef90_UPI0003C19684
UniRef90_G0A3C7
UniRef90_UPI00036489A7
UniRef90_G2INC9
UniRef90_E4KMB7
UniRef90_UPI00041AA3EB
UniRef90_A0A059KKV5
UniRef90_UPI00028878A0
UniRef90_A0A024FGM4
UniRef90_A0A023V5N7
UniRef90_G4QC3
UniRef90_Q82V37
UniRef90_H8FPV8
UniRef90_UPI00036CD6C2
UniRef90_F7SLN9
UniRef90_UPI0002624FE7
UniRef90_Q2N7A0
UniRef90_U4V5J6
UniRef90_D8K8R2
UniRef90_W4T516
UniRef90_K0CTC6
UniRef90_UPI0004667780
UniRef90_C0QH74
UniRef90_G8R5U0
UniRef90_S6GJ66
UniRef90_R9CJF1
UniRef90_K6YAY6
UniRef90_D4ZFA9
UniRef90_B5ZD61
UniRef90_UPI00046F53B1
UniRef90_S2Y4K1
UniRef90_D0D5J5
UniRef90_D1Y071
UniRef90_J9Z2M3
UniRef90_R6XQG7
UniRef90_F4LS45
UniRef90_UPI000474005F
UniRef90_S0KQ25
UniRef90_R5KCM3
UniRef90_A5GHM8
UniRef90_D1PP77
UniRef90_UPI00046F116D
UniRef90_UPI000472059F

130 140 150 160
N R V Q L P P D T K W A Y V S K D T L S Q L T R E I S Q G E Y F L Q G K G V F K
E A R G V L T A H K L A D V L S D K A R S E G L A A S I Q N W A I K P A G S T E G Y R
E R L G V D I N K K V W A E V I N D K K E M D K L S I E L R N F D F T L L S G S F K
N Y S L A N S D K I W A E V I N D K K E M D K L S I E L R N F D F T L L S G S F K
E N N Q L P D T S L A Q L S T N E R I T Q L T T L L Q A W L V L P N G T E G Y R
D R L G V E G E M G A S D K A I D A A A R Q L A D W R F T L N G S T E G F A
K E A G I D L H I P S K K V P E K Q L T R L T K L L K D L R V D I T N G S K D I A
E C W V E D K T L E Q L T T G E D I E A V E A A C K R W T V W P S G T E G Y R
E R K E F I D E D P L K Q L T P K Q S Q E A L F A S R L K E N W K V A P N G T E G Y R
E E L A F G E E D K A S Q L K K Q S V I D F A S R L K E M F E M H A V N G T L D F D
R L C D I E L Q K K A A Q I T A P E R K K I L K Q L K G L S L T L V R H R P V E
K K C Q I A G N R T I E S L N K K Y Q L K Q L A G L Y K N Y E V H I T G T N S T F L
N A S G I E E S A I W A D L N Q K Y Q L L D L R E Q L V N S T F S V D T G G K T F F K
A W H D E D P T L A E L S N A R I D A W Q G H L N R W R L K P A G T E G W R
E Q W F E S K P M K Q Y T P A R L A Q A E K L A N W Q V V P A G T E G Y R
D L E G W S G S P L Q G F S N R E L A V A Q R L Q E W R L T P A G T A G Y A
S I L G I T E V K A S D L K N K E D E N K I L E Y I K E M R L T A R E T L T I K
I A A E I G E D L K W A D L Q H K H N L A E S T L H N W Q V K P N S G K T E G Y R
Y A D G L L P E C T R L A D C S D K R D L R D I G A R L N G W T L T P T G S T E G Y R
T D W A L P A R L A D C S D K R D L R D I G A R L N G W T L T P T G S T E G Y R
A S L G L V G N L A D H S A P R L A E I T G A L R G W Q M K P T G T E G Y R
E L W L S N K P M K Q Y N A P E L K Q L A T A T L S A W P L V A S G T E G Y R
S L L S L V D K K A S D L S K A D E R I I E Y I K N M K L T C N G T T G I N
K E V G I N L H E A T Y N L S Y D L R Y K L Y S L K N W T F T V S G T N S F D
T K F E L N G V M G N F S N K Q L E T D L A A A F C R W K I K P S G T E G Y R
H H F Q M Q G N L A D Q S D A A L E T D L V A A L S D W H L T P A G T E G Y R
K Q V G I D I N K P L V S A Q L T M S R E K E G I L H L Q D W R F V T G T N S W T
E R W L P S R R P L K Q F R M Q E L A A R L H D W P I V A S G T E G Y R
K C A G I D G S Q P C C K V D D R A L E R L I A L V K H H E V H I N A S T E N D F E
E T E K G P A N L A D Y S D K A L R A L D E T V N A R W F K P A G T E G Y R
D R L S I E S E L A G N C R D A G L R A A Q E R L N G W R F Q P T A G T E G Y A
E L Q G W Q G P L Q G C S N Q D I E Q T A D T L G N W T V K P A G T E G Y R
R L S T I D P E K K K H S I S R E F L Q L L G L F K N D E L P V S G V G Y K
E Q A E I Y P K K V W A E V S R K E S F N K L L E C L F R D R Q E I N K G K T T F K
A R T A I A S D K R W G E L G K K D N H R L M E A L T N D V Y E V T G K G S S R
N L L S L T D K K A N E L S E A G D E L K I V E Y I K C M K L T C N G T K G I K
D L D I L M P G R P L N Q Y S E A G L K Q I A A Q L H D W Q L M P S N G T A G Y K
R L S R I P R S Q R A G D L N D G Q I E K L A G L I R R F E T Q V T G T N P F S
E L Q G W S R P L Q G Y R N Q D I E R I A D T L G N W T I K P A G T E G Y R
R E A G I D I H K P A G E Q V T V E E R N A I I D I L Q D W R F E V T G A N S W L
K E C G I D I H K P A F E L Q W N E K N D L L N V L K N W E F V V Y D T N G F P
D R E G L T G D A D L W A S S N N S I V S I A H L K H C A F E I T G K T G Y K
G D E N Q L L S R M S K P A L R K L C E K L K A D R Y Q V K G K T T N K
D Q A E V R P F E N W A E L G N K K L K L L F S F K K Y P L T A S G K T T F K
E L A A S T A S K A L A Q L S K S D I E L L V S Y F H H W R I T P S G T E G Y K
N Q A E V R A F E N W A E L G N K K L Q L L F S Y M K K Y P L S A G K T T F K
N L S E I N P N T V V H Q I S R E Q R K N L V H L L K N L K F T V K R Y R P I E
Q R A T G L G N K V N W A D L S K A Q L Q A L V T A R L T R G E Y A I A G K G V F K
S Q T G D S A I R L A D M S N A A I E T I A R L H G F E L I P G G T E G Y R
E E H G A T G N L A D L P D R T L R A L D Q A V N A W R F K P V I G S E G Y R
P E P L L E C S D K Q L Q Q V A N H I Q A W H I K P P N G S E G Y R
E E E K G P G N L A D L S D K A L R R R E A A N A W R V K P L G S E G Y R
A R L A L A G D L A G N L S D R A L G A A Q A R L A D W R F A P T G S E G F A
S K I P L N P S L A Y K Q L S H Q E V N S L F Q L V K A F P I S A Y K T D P I E
G F A E I E S R P L K Q F N E K E V L Q V V E L F H Q W Q P L I N G T E G Y R
A G A G L D A A R P M P E C R D R D L Q T L A Q R A R A W S I Q L I N A G D A G W K
L A S G I F E N Q R W A D V N K K Q L T A L A N S Q L V R S T F H I D G K S T F K
L A S N I N E V E R W A D I N K Q L E S L A N S Q L T K A K F S V T G K S T F K
Q L G Q I P D V S L K Q L N V R D Q Q T L V E T L T E W R V Q P N G T E G Y R
G A L P N G S R N L S E L S H K A L R Q L A D S A I H N F R V K P T P T Q G Y K
D E H N G S R P L A S T T H A L A L A A A V N A W H V K P V I G T E G Y R
V R A G C D G R P L I G Q T T H A L A L A A A V N A W S L T P T G T E G W R
P E A S F D W Q M R L S N C S N R Q I E A L A A G L S H F R L K P A G S E G W R
E W Y D H N L A S S I A E Y S N D A L D L W A Q R L N Q W L K P S G T E G W R
D L Y W H N Q P L G N Y P D L E L A S I A Q K L R Q W S L L P S G T E G Y R
E R L G L S G P L Q G G A D K A L R R A Q E R L G R W S F R P N G S E G F A
R D L D L T G N L A D W S D A R L S A L F D K L Q N W S L R P S G S E G Y R
E L A F G S L P L R Q Y S P L E L R V V A E Q L Q Y W R F Y P K G T E G Y R
E L S K V D L N K Q V A N T S G K E M Q K I E T L E N K K F R V T G K T F K
D Y H N W R N V P V K Q L S H S E C D A I A G T L E N W K I K P N G T E G Y R
E V H G W A G P V I G E A S D K K L A A I A E T L Q G W E V Y P I G S E G Y R
P A E L E E A P L G S V S H T R F E Q I A A S L K Q W E V K P G G T E G Y R
H K A E I E E D K R Y V D L S K K G F N K L E M L V R C P F E V N G K T T F K
E L A A L K A N Q P I G Q I N N S Q L E A L A K Q L T D W K I Q P G G T E G Y R
N L L N L N E I K I S E L K K G D E A K L I E Y I K E M K L T V E D T I T I K
P Y L G L D N K P L S K Q F Q G K Q L E Q V I S T A F H Q W L K T P N G T E G Y R
D E A L L S K A L N Q L I H K Q L E Q L A V D L E S W E I L M N G T E G Y R
M H H L P E D G P V G D M P D A V L N R L G Q H L G R W C L V P A G T E G F A
R Q S A P E E R P V V E W P D R T L R A L A D R I H R L D L I H P T A G T E G F A
R L S K I D K K K S C Q E L S E R E I M I L C R L L K S L R I T I K G T N D F D
E T L G L S G N L A D L P D R R L A L A D A L H G W E L R P Q G T E G W R
D K V E L E E T K P W G E L G K G F N R M V E V L V N D V Y G L S G K G S Y K
D N L N V R G K I I D I S N K L L N K L S L F L N S W Q L T P M G T E G Y R
R Y A G I R E Q T K V S E L S K T S F S A L H A C K N M F F V I T D T N G F E
K Q A G I D R K P V R E L S S A D R Q K I A N L T D N W F K I T G T K S W P
K K I G I D K E K K W A D L M A D E R E K I I N T L M R D K Y I I S G K G P F G
E K L S L S D L P A E R K T S E Q L A S L I V S L A K N F E I P I R T N T L E
K H Q G I S E I E I R K V P E D I L K R L I Q M V K R F S A D I T D T N T L E
A L A G V E A E R R W A D L P L K A E R Q L L E I L C A Q R L A I Q G R G P F G
E K W G V D P A T R A A Q L T K E Q K Q A L V R L C K H W Q V P I N T A L G D R E
E K I E P I P E L G N C S D K L R K A L D S A I K Q V I I K P N G T E G Y R
E W C A V D T E A F A A Q W S N D S V A A L A E C L N H F S L K P A G T E G W R

UniRef90_X5JUK3	D E F V T
UniRef90_W6WAE5	T A E V T
UniRef90_W3ASI6	E A I V T
UniRef90_UPI00034D2994	D E F V T
UniRef90_B4F022	T A E V T
UniRef90_UPI000287F313	K A E V T
UniRef90_D4KQX6	Q A Q V T C
UniRef90_H1G5S2	T A E V T
UniRef90_UPI0002DD2F3A	T A E V T
UniRef90_C4L4R6	K A F V T
UniRef90_I3IN43	E A I V
UniRef90_R7N845	N A Q V T C
UniRef90_H2BRU6	E E F V T
UniRef90_W7QBV2	T A E V T
UniRef90_E4R8F9	T A E V T
UniRef90_A1WWP6	K A E V T
UniRef90_M8K521	A A Q V T
UniRef90_UPI0003B4C60E	D E F V T
UniRef90_A6FJD2	T A E V T
UniRef90_A0A037ZLU6	T A E V T
UniRef90_A6DYV0	T A E V T
UniRef90_A0A021VYY7	T A E V T
UniRef90_T3GSP5	T G M V T
UniRef90_T0PMY1	N A Q V T
UniRef90_UPI00036EB347	T A E V T
UniRef90_UPI000237A070	T A E V T
UniRef90_I4ACK0	A A Q V T
UniRef90_UPI000364F80F	T A E V T
UniRef90_D4J861	Q S Q A T
UniRef90_I4YV42	T A E V T
UniRef90_Q2G7U9	K A E V
UniRef90_A1U2G0	T A E V T
UniRef90_UPI000366D58F	K A I V T
UniRef90_UPI000344C4A4	E E F V T
UniRef90_S3Y7F2	D E F V T
UniRef90_UPI000478E9F9	T S Q V T
UniRef90_M5DFX1	K A E V T
UniRef90_N2ABJ6	Q A Q V T C
UniRef90_U7G383	T A E V T
UniRef90_R4KF78	Q A Q V T
UniRef90_Q899Q0	N S Q V T
UniRef90_B9H3Y4	D E F V T
UniRef90_F8L9F8	E E F V T
UniRef90_Q11VL2	E E F V T
UniRef90_W9V0C9	T A E V T
UniRef90_UPI0003685FAE	E E F V T
UniRef90_T4G217	E A I T
UniRef90_UPI000474AD4F	D E F V T
UniRef90_A9DD86	T A E V T
UniRef90_UPI0003C19684	T A E V T
UniRef90_G0A3C7	T A E V T
UniRef90_UPI00036489A7	T A E V T
UniRef90_G2INC9	K A E V T
UniRef90_E4KMB7	K G F V T
UniRef90_UPI00041AA3EB	T A E V T
UniRef90_A0A059KKV5	K A E V
UniRef90_UPI00028878A0	D E F V T
UniRef90_A0A024FGM4	E E F V T
UniRef90_A0A023V5N7	T A E V T
UniRef90_G4QCH3	K A E
UniRef90_Q82V37	T A E V T
UniRef90_H8FPV8	T A E V T
UniRef90_UPI00036CD6C2	T A E V T
UniRef90_F7SLN9	T A E V T
UniRef90_UPI0002624FE7	K A E V T
UniRef90_Q2N7A0	K A E V T
UniRef90_U4V5J6	T A E V T
UniRef90_D8K8R2	T A E V T
UniRef90_W4T516	D E F V T
UniRef90_KOCTC6	T A E V T
UniRef90_UPI0004667780	T A E V T
UniRef90_COQH74	T A E V T
UniRef90_G8R5U0	E E F V T
UniRef90_S6GJ66	T A E V T
UniRef90_R9CJF1	A A M V T
UniRef90_K6YAY6	T A E V T
UniRef90_D4ZFA9	T A E V T
UniRef90_B5ZD61	K A E V T
UniRef90_UPI00046F53B1	K A E V T
UniRef90_S2Y4K1	Q A Q I T C
UniRef90_D0D5J5	T A E V T
UniRef90_D1Y071	E E F V T
UniRef90_J9Z2M3	T A E V T
UniRef90_R6XQG7	Q A Q V T C
UniRef90_F4LS45	S A Q V T
UniRef90_UPI000474005F	E E F V T
UniRef90_S0KQ25	R A F V T
UniRef90_R5KCM3	Q A Q V T
UniRef90_A5GHM8	E E F V T
UniRef90_D1PP77	H A V T
UniRef90_UPI00046F116D	K A E V T
UniRef90_UPI000472059F	T A E V T

UniRef90_E4TC48
UniRef90_UPI0003C7DF89
UniRef90_M4VH78
UniRef90_A5VCX9
UniRef90_H2FZI3
UniRef90_W2UI9
UniRef90_UPI000369F50B
UniRef90_U2ZBC6
UniRef90_B0T8G8
UniRef90_F4GQZ6
UniRef90_UPI000477464C
UniRef90_UPI000374F069
UniRef90_W1PW00
UniRef90_R5IVT8
UniRef90_R6EHY6
UniRef90_UPI0004634C30
UniRef90_UPI0003757883
UniRef90_UPI0004674770
UniRef90_UPI0003B79042
UniRef90_F5SNM3
UniRef90_U2FJR6
UniRef90_F3B945
UniRef90_UPI0002559085
UniRef90_Q0A7W6
UniRef90_Q1GS29
UniRef90_I4AM15
UniRef90_F0Z1C2
UniRef90_R6PEY8
UniRef90_G0L395
UniRef90_S2VKY4
UniRef90_D6YUR7
UniRef90_D1VSI3
UniRef90_R7LHQ5
UniRef90_H5T7K4
UniRef90_T0I573
UniRef90_UPI0002001C46
UniRef90_R5B962
UniRef90_Q2BI86
UniRef90_K5XXW2
UniRef90_Q3A2W6
UniRef90_D3F967
UniRef90_UPI0004055420
UniRef90_H0A3A5
UniRef90_Q0FYG7
UniRef90_C6X360
UniRef90_K2FMM0
UniRef90_UPI0002DA179A
UniRef90_Q26FU0
UniRef90_Q0FT08
UniRef90_M1Z616
UniRef90_N8ZT39
UniRef90_L0WDY3
UniRef90_A9E2Y7
UniRef90_UPI0003B3A5FC
UniRef90_W1ERM8
UniRef90_E1YE34
UniRef90_W8TFS8
UniRef90_D5AR16
UniRef90_W8VZX7
UniRef90_UPI00026C81C5
UniRef90_UPI00035FB726
UniRef90_UPI000360DC2E
UniRef90_A4AA27
UniRef90_W6SER7
UniRef90_UPI00036D9A17
UniRef90_A3VDT8
UniRef90_B1ZSU3
UniRef90_UPI000475DA3B
UniRef90_UPI00036E9907
UniRef90_Q4FMS6
UniRef90_Q1YJA2
UniRef90_S6D800
UniRef90_M1WM82
UniRef90_R6MNR5
UniRef90_UPI0004777E97
UniRef90_UPI00047DB227
UniRef90_E6QXG4
UniRef90_A4CJ45
UniRef90_M2W3S8
UniRef90_D5RIJ6
UniRef90_W5QT82
UniRef90_A2BY82
UniRef90_UPI0002DEFC68
UniRef90_UPI0004158EDC
UniRef90_G2EAE9
UniRef90_W6TT41
UniRef90_E7GSW9
UniRef90_R6RUK6
UniRef90_Q8DVS5
UniRef90_H1YB41
UniRef90_W0BHE8
UniRef90_R4YKY6

1 10 20 30 40
P S L F T F N I K D D L L E E G L S G T S F P S A E V R I P E L K S K E A G A
A L V P L T F N E K I L E C K E L T S G L S S V E A I V S F N K V L F Q E A G
G L V P L T F D P A V L D I F E T L S G V S L I D P V R V Q S Q S G M T F D E A
P A L V P L T L G Q D D R L F E T L S G V S L D V V A S L G K S G A R T F F A E A
G L V P F T L Q E D K Q T L F E P L A G V S L P V V A E S E D G T R F F A E N
P S L F T F N I N D Q R I K S P L G E I S G T S M G S V K L L G H L N S F E G P
A L V P F T L Q P N L K A P L A G E I S V D A V V A S V A H G R T R F S E G
P A L V P L T F E P G L L Q L K P L A G I S V D A V V A S V A H G R T R F S E G
P S L V P L T F E K T L E R L L A P L S G V A L E D A V V A S V A H G R T R F S E G
P A L V P L T F D Q T W Q P F S V L S G V A L E D A V V A S V A H G R T R F S E G
P A L V P F T T S D I A E A W S K L S G V A M D V R V T V A K A T R F F E E A
G L V P F T L N D Q A Q E L F A P L S G I S F P A T A V R N K V K Q L S F T E A
P S L F T F K I N D H L L E L S G V S F P N V K A K L V M P N T S Q V T E A
P A L V Q L R C Q G N L Y K Q M A G I R T E A V R L Q A D G I T A S S D R G E
P A L V Q L R C L E T D L L K G G A G V A D S V R L L C D G R E T D E R G E A
A L V P L T F G E D L V H F R E M A G V A T S R A R I S C G K T S F R E E A
A L V P F T F S D A S F Q P I S G T A C P V R A Q A G S A S F D E A
P A L V P F M F S D Q M K L C E R L S G L A L D V E V S A N N R T F R E A
G L V P F T F T D K V D M I A S L S G I S L D V V A F N E Q I S F P R P
P T E T P L I S N D P L I A S K R L L Q G L S F K E V Q L S L N Q I V K S H L H
P A L V Q L R G N G T F F K Q I S G V R A D A I S L Y V D G E L L E D T G E
P G L V P F T F T E G R F A A L S G L S L P A R V T A A R S F D E A
A L V P V I T L E G K R R Q L Q D L A G V A L D S V T R A G G A A F R E A
P A L V P L T L G G D D V L F R E L L A G V A T P V E A R A G K A A F R E A
P S L F T M D V K N D N R L K G L A G V S V N N G T V W A K D T Q L S E N G A
P S L V Q L R C R E N F Y K V S V S I Y V G E C Q A K A D T G E
P A L V Q L R K G T Y F K Q V A G V R T N A K V S V L V D G D C Q A A D T G E
P S L F T F N C K D K R I S G I P G V S T M A E V E V I F L T S D G P
S L F T F A S K D T F E V E G L A G V S K Q V G V K L L D S Q G T L G A
P S L F T F N K V P E F P L E H F A G V S V T P A K I A I Q G T K L E Q T G
A L C G A L T N E P L E D L S G L S L K N V I E L S E G K L I A K E F G E
M G T V V E N A T T T L C G T K L K A G V E D
G L V P F T L P P E L K T P L A E V S G V S I P V E V I S T P N K S F V G E D
P A L V P L T L A G D E A L F R D L A E V S T E V I A R C G K A A F R E A
P S L F T L A F K P N P I L R E L A G V V M D P V D L E L G G Q R F Y K S G P
P S L F T F N L G S P I L R E L A M G T V V G N A S A S L A G T R K A D G P
A L V P F T L Q P K D K E L K E L S G V S H R I K A T I G K T S F V I E N
P A L V P L L C D E P W I G A L A G V S A P V L A R A G K M T F R E N
P A L V P L E T A G P A A G A M A E L N L R N I K A R L G K K A A E D F G E
G L V P F T I S G P L K E L C E L S G T S V D C V V S C N G E S F R E N
S L V P F T F D K T G E L R A L R A L S G I S L P A V V A S N T R I S F K L P
P G L V P L T F D D A L A M M R P L S G I S L P A V I G R A A E G P R F P E A
P S L F T L G E D E R L F K D I S G V A C Q A I V A S R D V G F A E A
P S L V P F T F N I K N E T L K D L M G T S F P H A E V I A V I K K K F T E S G P
P V L V P I K T K E D W A G E L L M G V S A N S V S I F L D E T L K R E T S G D
P G L V Q L K L Q Y N R L K A I S G I K F D S V S I F L D E T L K R E T S G D
P S L F T F N I V D K K I T E L A G L A L E A T V E R A R A G Q A F D E A
G L V P F T F P D G R F S T L S G L S L P V R A R A G Q A F D E A
P G L V Q L K L E G N I F K Q V D G V K F V G V G L Y N G N Q L I K E S G D
G L V P F T F S D Q F K E V T T R L S G N A V E A T L S Q A D G G A R F A E P
G L V P F T L Q P S D K W L A L S G I S T E V V A N A G G A R F A E P
G L V P F T F A E G R F A P L A G V A T P A R I T A G T G F D E A
P G L V P L T F A E E L E P L K P L A G V S V T G S V A T G K T R F D E A
F R E N
A L V P L E T Y G D E A K K M A G G L N L R N V N T R M G K K K R E Q F G E
A L V P L V L G E T W T S R L Q G G S L K N V R I R A Y R L L A A E E S G D
P G L V P L T F A E D L A R T A P L A G I G L P A R V S L G K R S L E E S G D
P S L F T F N I V D K A I T E L A G I A L E A R V E I P Q L K L E E S Q G P
G L V P L T L D V A E K E I S P L S G L G V D S L V K N A S V F R E P
A L V P L T W Q P A D K A F E E L S G V S L P V T A E A N G T L F P H
P S L F T F N I K D I R I K D L L G I S V S N A T V K L I D T N L E A T P G
A L V P L T W N S S D K R Y G S L S G I S T E V I A S C Q G H S F R E N
P A L I P L V T K E G F V K N L S Q G V S M K E V T T K L K K K E V K G D
G L V P L T F A A Q D L D L C R L A G L S L D A V A H G S G R G R T R F R D G
P S L V P L T F G H F A P L S G V A T P C R A F N E R I T A F A E A
P S L F T F H I D D K R L V G L S G V A V E R A A V A V K G T R K L K E E G A
P A I V Q L K V K Y P Y Q K G L S G I K L Q G Q A L V N G K I V R S E V I G E
P S L F A F D T S K D T R L R D L S G I S M P W A Q L N I A G E K L K A E E P
P A L V P L T F S K E I L A C K E L T G L S V E A V I V S F K K T F F E E G
P A L V P L T L G K D E M L F R E I S G V A C P T I A R V R D I A F E E A
P A L V P L V F D Q P D G W L K T L A G V S L P V R V S C G K T A F D E A
P A L V P L V F S R A Q T M C E E L L A G N A L P V R V S C G K T A F D E A
P S L V Q I K T E T D V V K L K G I K L N A N V S L G N F K E Y G E
P S L F T F N T S D S F I K K L A G I A V N A E V L L R D R K I K N S P
P S L F T F N I K D R I S A G I S G V S T Y A R I N I V D L E T E G P
P A L V P L L L P E T L A L L Q G L S G A S L E V S C H C V G Q P A I F C E S
T F R L D D T R L N G L Q G L S G A S L E V S C H C V G Q P A I F C E S
P S L F T F C I D D V R L Q G L S G T T V Q D V G L K I M G I D G R Q R P
P A L V P L T F A G A E L L R G L S G V A L P A V A R L G R H R F E E A
P S L F T F N I N D T L L R C L M G T V V D A T A M I P G T K M R A S G P
P S L F T F T E K T K L N E C S G V S I K N I D I E I Q L N K S F R G D
P S L F S F T C K E N F L K E C S G V S V R D L D L K I N E K P F S C K G D
P A L V P L T L D D A R T A V E G L S G I A L D A V A E A G D A G F R E N
P S L F T F N I Q D K R I Q D I P G V V A L D V S V S V L D T D L Y S E G P
P A L V P L T I D E D W Y A Q L S G N S V F C E V S N D R I S F E E N
P A L V Q L R C R E K F Y K S I S G V R T E A V S L R C G K E L A R D Q G E
P A L V Q L R C R G D F F R Q S I A G V R T E A V S L R C G K E L A R D Q G E
A E S P L T D F P H K A L A G I S L D D V T L T C G K H Q I N H D
P A L V P L T T G K D Q E W Y E Q L S G N S I F C R V S N D Q R L S F E E N
G L V P F T L D P K L K K L G A L S G I A V D S L V G N E R N Q F R E N
G L V P F T I T N Q L K D V C I A L S G S S C E V I M E C N G Q S F R G N

UniRef90_E4TC48 L L I T H W G L S G P A I L K L S A W E A R R L N D L N Y N F S I E V N F V I
UniRef90_UPI0003C7DF89 M L F T H R G L S G P A I L Q Q I S S Y W K Q G D N I K A V N L S P
UniRef90_M4VH78 M L F T H R G L S G P A I L Q Q I S S Y W H P G E D I A S L N M Y P P
UniRef90_A5VCX9 A L F T H R G L S G P A I L Q Q I S S Y W R H G D T I A S L D L L P P
UniRef90_H2FZI3 L L F T H R G V L S G P A I L Q Q I S S Y W Q P G E R L V T F E L L P
UniRef90_W2UI9 V L I T H R G L S G P A I L K L S A W G A R D L N A L D Y K F K I Q E L N W L Y
UniRef90_UPI000369F50B M L I T H R G L S G P A I L Q I S S Y W A G L N A L D Y K F K I Q E L N W L Y
UniRef90_U2ZBC6 L L F T H R G L S G P S I L L Q I S S Y W R E G D E I V T S V D A M A P
UniRef90_B0T8G8 M L F T H R G L S G P S I L L Q I S S Y W R E G G E I S I V D N M A P
UniRef90_F4GQZ6 L L F T H R G L S G P A I L L Q I S S Y W N P G D A I S Q V D L A P
UniRef90_UPI000477464C M L I T H R G L S G P A I L L Q I S S F W R E G G T V E T I N M L P
UniRef90_UPI000374F069 L L F T H R G L S G P V I L L Q I S S N Y W Q A G L G V L T L D L L P
UniRef90_W1PW00 M L V T H W G L S G P V I L L Q I S A W G A R E L F R S N Y T G G V L T I F V D F V P
UniRef90_R5IVT8 L Q I T D Y G L S G I P I F Q V L S R Y A A R A L D E K K K V R V V D F M P
UniRef90_R6EHY6 L Q L T E Y G I S G I P I F Q V L S R D V N Y L L R D R K T V M A E I D F L P
UniRef90_UPI0004634C30 L L F T H R G L S G P A I L L Q I S S Y W R E K Q P I R V I C L L P
UniRef90_UPI0003757883 M L F T H R G L S G P A M L Q I T S S H W Q P G D E L I V D L L P
UniRef90_UPI0004674770 A L F T H R G L S G P A I L L Q I S S Y W R E G D S I V L N L D P
UniRef90_UPI0003B79042 L L F T H R G M S G P A I L L Q I S S N Y W H P G D S I S I N L L P
UniRef90_F5SNM3 M L F T H R G L S G P A M L Q L S N Y W Q V G E A I H I N L V P
UniRef90_U2FJR6 L L F T H R G L S G P A A L L Q L S R F V Y H H L Q E H R V A H V A L D V L P
UniRef90_F3B945 V Q F T D Y G L S G P V F Q L S R F A A L A L Y Q K K T P K V R V D F F P
UniRef90_UPI0002559085 L L F T H R G L S G P A V L Q A S S Y W R E G E E P L E I D L L P
UniRef90_Q0A7W6 L L F T H R G L S G P A I L Q A S S Y W Q P G E P V T I D L L P
UniRef90_Q1GS29 A L F T H K G L S G P A I L Q V S S Y W R H G E P V T I D F L P
UniRef90_I4AM15 V L V T H W G F S A P A V L R L S A W G A R E L A E K N Y K F E M G V N W I E
UniRef90_F0Z1C2 I Q L T G Y G I S G I P V F Q V L S R C A A G L Y E K K T V T A E L N F M P
UniRef90_R6PEY8 L Q L T N Y G I S G I P V F Q V L S R F A A K A L Y E K K L V E A E I D F F P
UniRef90_G0L395 L L I T H W G L S G P A I L K L S A W G A R V L N E M E Y R F K I R V N W L P
UniRef90_S2VKY4 L L I T H W G F S G P A V L K L S A F A A R I L A E L E Y K F A L Q I N W L A
UniRef90_D6YUR7 L L I T H W G F S G P A A L K L S A F G A R Y L A E R H Y E V C L S I D W V P
UniRef90_D1VSI3 M L F T H G V S G P I L T L S S K I N R L S K V K L Y L D L K P
UniRef90_R7LHQ5 L L I T H W G L S G P A V L K L S A H G A R L L E A E R N Y Q A Q I A V N W M G
UniRef90_H57K4 M L I T H R G L S G P S I L L Q I S S Y W H P G E E I V F I N L Y P
UniRef90_T0I573 A L F T H R G L S G P A I L L Q I S S Y W Q R G Q T V T T Q F L P
UniRef90_UPI0002001C46 V L I T H W G L S G P A T L R L T A F A A R A L H G E G Y R G S L Q V D W S G
UniRef90_R5B962 L L V T H W G M S G P A I L K L S S Y A A R Y L A D N D Y T A T S L A V D W L G
UniRef90_Q2BI86 M L F T H R G L S G P A I L Q L S S Y W Q P G G E V E I D L F P
UniRef90_K5XXW2 L L F T H R G L S G P A V L Q A S S Y L A P E G R S G R K V V L A L D L K P
UniRef90_Q3A2W6 L V F T E F G V T G P V I L T L S S G L A V D A L R S G R K V V L A L D L K P
UniRef90_D3F967 L L F T H R G L S G P A I L L Q I S S F W H P G D A M E I N L L P
UniRef90_UPI0004055420 L L F T H R G L S G P A M L Q L S S N Y W H T G E T I S I N L L P
UniRef90_H0A3A5 L L F T H R G L S G P A I L L Q I S S Y W R P G E A I S L N L L P
UniRef90_Q0FYG7 V L F T H K G L S G P A I L L Q I S S Y W K P G E A I A L C L
UniRef90_C6X360 L L I T H W G L S G P A I L K L S A W K A R E L A E M K Y Q F D I K V N F L
UniRef90_K2FMM0 L M F A H W G L S G P L A L N M S R G I G K L L S Q S E E D G I K F I L D L K P
UniRef90_UPI0002DA179A I L F T D Y G L S G P P I L Q L S R F A S K G V L N K K S V T I K V D M M K
UniRef90_Q26FU0 L L I T H W G F S G P A I L K M S A W G A R K L N E S D Y K F D V L I N W L N
UniRef90_Q0FT08 M L F T H R G L S G P A M L Q V S S Y W H E G E D I A V D L L P
UniRef90_M1Z616 I L F T N Y G I S G P P I L Q L S R T A L K C L K D N K D V E L K V S I I H
UniRef90_N8ZT39 L L F T H R G L S G P S S L Q L S S N Y W N V G Q S F K V D F A P
UniRef90_L0WDY3 L L I T H R G L S G P A M L Q V S S F W Q P G Q S V H V D W L P
UniRef90_A9E2Y7 L L F T H R G L S G P A V L Q A S S Y W H E G E A I T V V N L A P
UniRef90_UPI0003B3A5FC L L F T H R G L S G P A V L Q I S S Y W R E G Q P I S V D L S G
UniRef90_W1ERM8 L L F T H R G L S G P A V L Q I S S Y W Q P G E F V S I N L L P
UniRef90_E1YE34 I V F T E F G L T G P S I L T L S G E A V D S L R N G H K V A F S I D L K P
UniRef90_W8TFS8 M I F T H F G I S G P A A L N I S S R I N R L L Q K K T V R L E L D L A P
UniRef90_D5ARI6 L L F T H R G L S G P A I L L Q I S S Y W R E G D A L T I D L L P
UniRef90_W8VZX7 L L I T H W G F S G P A I L K M S A W G A V E L N S S G Y K F D L V I N W L N
UniRef90_UPI00026C81C5 T L F T H R G L S G P A I L L Q L S S Y W N A G E S I C I N L L P
UniRef90_UPI00035FB726 M L F T H R G L S G P A F L Q L S S Y W Q P G D N I I V N M A P
UniRef90_UPI000360DC2E L L I T H W G M S G P A I L K L S A F G A R V L A A K N Y E Y K V Q V D W L S
UniRef90_A4AA27 L L F T H R G L S G P A I L L Q I S S Y W R E G L T V D I N L L P
UniRef90_W6SER7 M I F T H F G I S G P V L K L S S Y I N K A L K D G E V E I D F L E
UniRef90_UPI00036D9A17 L L F T H R G L S G P A I L L Q I S S F W R P G E P I V V D L A P
UniRef90_A3VDT8 L L F T H R G L S G P A V L Q L S S Y W R E G E A I T L D L C P
UniRef90_B1ZSU3 L L I T H W G L S G P A V L K L S A W G A R A L A D V G Y D F P L L V N F A A
UniRef90_UPI000475DA3B I H F T D Y G F S G P P I L L Q L G R E A A V N L A K R D D V T L S I D L M P
UniRef90_UPI00036E9907 L L I T H R G L S G P A I L R L S A W G A R R L E P R K Y N F E L V V N W L
UniRef90_Q4FMS6 M L F T H R G L S G P S I L L Q I S S Y W K L G D N I K V N L S P
UniRef90_Q1YJA2 S L F T H K G L S G P A I L L Q V S S Y W S P G E T I E L T L
UniRef90_S6D800 L L F T H R G L S G P A L L Q I S S Y W A G Q A V K V D M L P
UniRef90_M1WM82 L L F T H R G L S G P A V L Q I S S Y W S E G Q S L L I D F L P
UniRef90_R6MNR5 V L F T E Y G L S G P A V F S L S S R L K N Q K T I S L D I M S
UniRef90_UPI0004777E97 V L I T H W G F S G P A I L K L S A W G A R I L L A E Q N Y Q E V N W L V Q G E E
UniRef90_UPI00047DB227 L L I T H W G M S G P G I L R L S A W G A L F L N E L D Y K F T I R V N W L P
UniRef90_E6QXG4 M L M T H R G L S G P A I L L Q I S S Y W Q K Q A Y G H G K K Q P V S I N L L P
UniRef90_A4CJ45 I L I T H W G L S G P A V L K L S A W G A R L F A A T G Y R F R I R V N W M P
UniRef90_M2W3S8 L L I T H W G L S G P A V L R L S A W N A R E L A A V H Y E A Q L S I D W L P
UniRef90_D5RIJ6 V L F T H R G L S G P A I L L Q I S S A W R E G Q A I S L D L L P
UniRef90_W5QT82 L L V T H W G M S G P C I L R L S S Y A A R W L S E H D Y K Q P L A I N W T N
UniRef90_A2BY82 L L I T H W G F S G P A V L K L S S I A A R E L F D Q K Y K F N L L I R W S
UniRef90_UPI0002DEFC68 L L I T H W G F S G P G V L K L S S I A A R E L S E A K Y K F K L I Q W S
UniRef90_UPI0004158EDC V L F T H R G V S G P A I L L Q V S S Y W Q P G Q S V T E I D F F P
UniRef90_G2EAE9 L L I T H V G M S A P A I L K L S A F Y G A L E I A K R D Y K F Q I E I N F I K
UniRef90_W6TT41 I L F T H W G L S G P A I L L Q I S S Y W R R G E E I N I D L L P
UniRef90_E7GSW9 I Q L T D Y G I S G I P V F Q V L S R Y A S R A L D R G E K V T A V L D F F P
UniRef90_R6RUK6 L Q L T D Y G I S G I P V F Q V L S R Y A S R A L D R K K R V L A V L D F F P
UniRef90_Q8DVS5 L L F T H F G L S G P A A L R L S T F I Q G G E T A Y L D L L P
UniRef90_H1YB41 I L F T H W G L S G P A I L Q I S S Y W R P G Q W I E L D M L P
UniRef90_W0BHE8 V L F T H R G L S G P A I L Q L S S Y W N P G G Y V V I N L L P
UniRef90_R4YKY6 M L F T H R G L S G P A V L Q I S S Y W Q A G Q P L T I N L L P

UniRef90_E4TC48 GI S P N D A E T 90 L I Q E F K Q N H P K K T L S Q G K P F E V T N R R F W Q S V L
UniRef90_UPI0003C7DF89 K L N V Y D L L E E K R K L N P K F D I L N T V S E T L L P K R R L A Q Q I C
UniRef90_M4VH78 Q A A D V W A W L K D Q R K K Q P K S M L H T V L R G D L L S D R R L A Q K I A
UniRef90_A5VCX9 G A D A A L L I A A K Q A R P K A E P R T L L R E H F P K D R R L A D V L A
UniRef90_H2FZI3 A G S L A Q A V A E S P N Q E L K T W L A F R E H I P K R R L V I E A L L
UniRef90_W2UI9 N Q G L E E A L L E K L V Y K A N N K P K K L V V N L K P F E I P A R R L W F S L L
UniRef90_UPI000369F50B G E E D L L E K L R L E R A N K P N V Q L K N F I A T Y E I P A R R R F A E T L L
UniRef90_U2ZBC6 G A E V F E T L K A A R A E N G R Q A V H T A L G R T I P A R R L A E S I A
UniRef90_B0T8G8 G V D V F A V L K A A R T A T P K R A L A S T V L S E M L P K R R L A Q L I A
UniRef90_F4GQZ6 Q Q D L E H E L L A A K Q G R P K Q Q L A S T V L S E S L W P K R R L A E Q W L
UniRef90_UPI000477464C K I N V A E E L T K A R H E R P K A T I A N L L S D F L P K R R F S Q H I V
UniRef90_UPI000374F069 N L D L Y A E L I N S Q S P D L A L K T L L S Q Q L P K R R V V E C L L
UniRef90_W1PW00 N L H F D N K Q V H L N S S P P Q K V L K R R F W N Y L L L
UniRef90_R5IVT8 G W D D N E S F R L L K K R A L L L A Y K P A E E L F T G M L N R K L A Q A L L
UniRef90_R6EHY6 D M T E E S Y E A N M K T A R R M L Q E P K R T A E E F F T G D L L N K K L M S V F L
UniRef90_UPI0004634C30 E I N V A A E L V A A R R Q N P R Q Q L A T A L G D L L P K R R L A A Y F A
UniRef90_UPI0003757883 G T D A Y D S L V Q A R H E T S P R R Q L S T W L A E R L P K R R L A A L V
UniRef90_UPI0004674770 E G T L Y E R L R A A R A T S G R R N L T T V L A Q H L P S K R L A E L A
UniRef90_UPI0003B79042 D D N A G D W L L T A A K Q Q H P R S L R S V L A H K L P S A K G L V A E L Q
UniRef90_F5SNM3 N V D I S D L L L E A K A N H P K Q L I R S V L T E Y F P S K K L L A L Q
UniRef90_U2FJR6 N E T N L S I L D E I K S R R Q E S P N K K L K N V L S N L S Q S R Y L E F L Y
UniRef90_F3B945 E F T G E E L T L F F E K R I R Q N G E K K A G E F V L V G L L N K K L V P L L
UniRef90_UPI0002559085 G A D P F A T L R R L R A E A G R R S L L R S L D A L M P A R R L A D F L G
UniRef90_Q0A7W6 D T D L A G H L E A M R R E R P R L T L K K L L G E Q L T R R V A Q R W C
UniRef90_Q1GS29 D A A P G W L L L G A K R A R P R A T L A S A L A T D R R L A Q T L A
UniRef90_I4AM15 D T P K N A L K L K A H R E E W R K K Q L G T L C P F E I P N R L W R K L A
UniRef90_F0Z1C2 D F T E E Q F L A F L Q N R I A A R P M K T A E E F F V G L F H K K L S E L W L
UniRef90_R6PEY8 E D D D N E F C L I M E E R K R Q H A D R T A E E D F F V G I F N R K L S E L W L
UniRef90_G0L395 E Y N F E G L M G L S E E I K E I E A K K T V L R T K A V E V P R R L W T N L V
UniRef90_S2VKY4 E V D E Q D A L S L L Q E E K S S H P R K E L Q N H C P F S L A K K L W N K L L
UniRef90_D6YUR7 E F S I Q K F K E E H S S H P K K L R Q A N P P S L P K K L W C A L L
UniRef90_D1VSI3 G L T Y D E L D K R I L R D F D K F P N K D I R N A L I N L P R D L I F Y L L
UniRef90_R7LHQ5 G L K E N E V K D L L I D L A Q T H S S K Q L Q S V Y P E V L N A R L W F L L
UniRef90_H5T7K4 G D R D F G A F L N E S I S T Q P N V S L K N L L A T K F A K R F A E T F I
UniRef90_T0I573 D R A E G W L R E A K R E R P R T S L R K V L G E G L P E R L V D V L C
UniRef90_UPI0002001C46 G R S Q Q Q L E E L F A A C R K D Q A K R Q L S N A R P W S L P S R R L W S H L L
UniRef90_R5B962 D S G E E D V R G M I T S L S K D N S Q K L I Q N T H P S E L P S R R L W S Y L T
UniRef90_Q2BI86 E F D L L S W L K E Q R E A R P K A E I T T I M A Q Q M S K R V A Q V L C
UniRef90_K5XXW2 G Q N L E E A L P A A K R S R A K A G L K A V L G E L P A R L A A H L A
UniRef90_Q3A2W6 A L D E Q K L D R R L R D I D A R G K E P L D S L R G L P A R Q M V P V C L
UniRef90_D3F967 D R D A L E W L Q A Q Q A A R P N S E L K T V L A E V F T K K M A A L L T
UniRef90_UPI0004055420 D F D I T E L L L T H K K Q H P K Q L I R T V L S E N L P K K L L A V A L L Q
UniRef90_H0A3A5 G Q D P A A E L L L A G K K A R P R A E A R T V L A E E N L P Q R L A Q A L A
UniRef90_Q0FYG7 D R D A A E R L K A A K R A M P K A G L K A A L S E L L P N R L A D A L A
UniRef90_C6X360 G I T E T E E A A E I E T Q Y R F R Q N A K K I G A S K I F D V T T R F W D R I L
UniRef90_K2FMM0 Y L T F E G L D E I V R T D F E R N A D K K L A N C L A D V F S P K L H D F I L L
UniRef90_UPI0002DA179A D Y S K D G L T D F L E S H F A M F S H R S I S E N L V G I I N K K L I P I L
UniRef90_Q26FU0 H I S R Q Q D C Y E T L V A Q R S S K R R A V G N E W L F D L P K R L W K F L V
UniRef90_Q0FT08 G A L A A A L K T A R S E N G R R A V T T A L G H L L P K K L V A H L S
UniRef90_M1Z616 R K T E E L Y N Y L Y R F G F M A K K T I E I G L T G L I N K R L I A P I L
UniRef90_N8ZT39 S T D L H A L F K Q K K N T Q P K V L R T L S E M Y P S K S V I T E L Q
UniRef90_L0WDY3 A V A D P R A A L I D E R Q Q H P N R S L E R W L R O Y F S Q R L A A A L V
UniRef90_A9E2Y7 E G T L L G A L R D Q R Q Q S G R R N F T T L A R Q H L P S R L V I E Y L G
UniRef90_UPI0003B3A5FC Q T D A G A H L R E M R G Q A G R I A R T A L A Q L L P E R L A R Y I E
UniRef90_W1ERM8 D V D L E T A F L N E R K N A H P N O S L K N T L A V H L P K R L V E R L Q
UniRef90_E1YE34 A L D E K K L D A R L Q R D I D S R G K E Q I G S L L R G L I P R E M V P V C L
UniRef90_W8TFS8 G M D E A E L S R E I R A K T P N K S I A N N I K E V I P Q S F A R C L L
UniRef90_D5ARI6 G R D I A A E L A A I R A E T G R I A L H T A L G R L P D K L A A L A V
UniRef90_W8VZX7 H L S T D D C Y E M L L A K R D D S K K Q I S N D R L Y E I P K R L W S Y L V
UniRef90_UPI00026C81C5 E L D L L D Y L K V R K E K P Q K Q L N S L S L H L P K R V T E Q F I
UniRef90_UPI00035FB726 Q T D L V A Y L V S Q Q A H P E Q E V K T A L G K L P K R L V E K L L
UniRef90_UPI000360DC2E R P T N K I V N V L L N L K K Q P K Q Q V I V R S P F E E I P K R L W E R F V
UniRef90_A4AA27 D C D A G A W L L D A R E R N P Q Q R L M T V L K T Q L P N R L V D L M F
UniRef90_W6SER7 E W S R E K L S K Q M K S N L N K S L I N N L K G L P Q N F L K E I L
UniRef90_UPI00036D9A17 E V D L S S A L R E L R G Q G G R V A P G T A L A R W L P A R L A E A I C
UniRef90_A3VDT8 P G L L D T L K A Q R T Q G R H A L T T E L S R H L P A R L V E F L A
UniRef90_B1ZSU3 P H T R E S L S S E L A R V R A A N P K K H I A T W S P L P M P Q R L W E R L V
UniRef90_UPI000475DA3B N R T V I E E V T R F L E T N W G L F A H R T V A E S F I G F L H K K L V N V L L
UniRef90_UPI00036E9907 A M R P V D V E E Q L E D R K Q T E A H R Q I A A R A Y L D L P I R L W K S I V
UniRef90_Q4FMS6 K L D V D K F L E N D R K I S S P K Q D I G I V S E I L P K R L A H I C
UniRef90_Q1YJA2 V K D A A E M L R A A K R R M P R A H M K A A I L A E R L P K R L A D A L A
UniRef90_S6D800 G Q D L A A L M G L K K A G S K A K A P A A L A R W L P Q R L A A A L A
UniRef90_M1WM82 Q K S V A D L V E T H R T N N S R F R N L L A R E L P K R L V A P Y L V
UniRef90_R6MNR5 E Y S E D E L Y N M I S V R M Y Q N P K I T L E N F F V G I F N K R V G Q A L L
UniRef90_UPI0004777E97 T L N Q E E T L L L Q E T K E K Q A R K M L Q N T P L F Q L P K R L W G S L L
UniRef90_UPI00047DB227 S Y Y E G S I I N K L Q Q K E L E G K K T V L R T K C F D L P K R L W S S L V
UniRef90_E6QXG4 H L D V I G A W L N A Q R H S K L T L A A L L S E H L P K R F A Q E W C
UniRef90_A4CJ45 E Y H K G S L P D F L E Q V R Q A D G P R L V S R S R A S G L P S R L W A R V L
UniRef90_M2W3S8 D I H V E Q V N S I L L M E K R L Y W K T K Q V T T V C P F R L S K N L W R N I V
UniRef90_D5RIJ6 G R D A A A L L A A K Q A R P R A A A R T V L A E L L P Q R L G H A L A
UniRef90_W5QT82 S K E N E V Q K E Q L A T M R Q Q H A Q K Q L T A I R P F D L P Q R L W T Y L T
UniRef90_A2BY82 D L E Y K E L K E K I D N L K F N N G K L K L N L R P L P L P K R L W V F L L
UniRef90_UPI0002DEFC68 K L S Y S D L N E N I N Q L R Q F N G K S N L Y N S R P P Y I T K R L W I F L L
UniRef90_UPI0004158EDC G E S L E Q G L R A A R E D T P K R Q L R V L G E W L T R R V A R H W L
UniRef90_G2EAE9 Q T P E D C L V Q L K E L K Q Q L A K K T V Y K S A G L E L P K R L W R K L V
UniRef90_W6TT41 G K D I T H L I E E E R R M N G K S L V S T L F N R F Y P K K L T D A M S
UniRef90_E7GSW9 D A T F E K T R R M M E G R K L Y C S S K P M E D F F T G W F H K K L A A L F I
UniRef90_R6RUK6 S L K D E E L F L L L K E Q R M Y L S D R K A E G F L N G I F H K K L A A L F I
UniRef90_Q8DVS5 Q L T K E A L L K K I E T T R E K S L K N A L K T F L P E R L A A F L S
UniRef90_H1YB41 H Q N V L E L I E A E R L Q N G K R P L G S L L A S L Y T R R F A E A L A
UniRef90_W0BHE8 K V N L F E E L V A A R V A M P Q K Q L N S F L S M F L P R R V V D L F I
UniRef90_R4YKY6 D I D L A Q V L R E T Q H E R P K L S L K K F I A Q W L T Q K M S E Q L V

UniRef90_E4TC48 A[V]S R I V N S E K Q W A H L S A K E T I T E N L C K K K L S V T T G K S T F K
UniRef90_UPI0003C7DF89 S E N K V N G N I S E L S A N K L L K Q L S A T R R L N S W L I N P T S S E G Y R
UniRef90_M4VH78 E D V A V D G S R M A D L D K D Q A L M T A T A G R R L N S D W R V K P S G S E G F A
UniRef90_A5VCX9 D R L G L S G P M L G H K P R E L A T V E A L L A A W P L Q P P G G T E G Y F R
UniRef90_H2FZI3 A R G E L S S K P L K Q Y T P R E L A T V E A L L A A W P L Q P P G G T E G Y F R
UniRef90_W2UI9 N A S G I T D P Q M R W A E V N S K K Q V M T L A S E Q L Q S S V Y Q V P P G G T E G Y F R
UniRef90_UPI000369F50B S V L N L P N V P L K Q L S A N K K Q V N D I L A E Q L H H W R I Q P P A V G S E G Y R
UniRef90_U2ZBC6 L R E G L A G N L A D Q P D K A L R R L D Q A V V N A W T V K P P V G S E G Y R
UniRef90_B0T8G8 E D A G A Y A S N R L A D C P D V L L R G V L A A T Q I H H W S F K P V G S E G Y R
UniRef90_F4GQZ6 A H A D I A E A R R L A D V P D R L L R Q L A A T Q I H H W S L T P S G S A G Y K
UniRef90_UPI000477464C E H L G M R E Q K L A D L S K K T I Q I C E D Y I H R H P F M P P G G T E G Y R
UniRef90_UPI000374F069 A A A E I E S D L P L K Q Y S N E K L L K Q V S E L F H H W S P Q I N G K G
UniRef90_W1PW00 D R E G I D G D V M W A C T I S I A S E L L K H C N F K V I N G K G K F K
UniRef90_R5IVT8 K L A G I D P N T S C G S L T P G K Q I E K I R K E L K E Y E A V V M S V N P F A
UniRef90_R6EHY6 Q T A G I K P T T P A V I E L P E D K L I N T F Y E L C R C F R I F I T I G S N P Y E R
UniRef90_UPI0004634C30 K L N G W S P G T P L G E T S D R L L T E I G Q L I G Q Q W R I K P A T G T E G Y R
UniRef90_UPI0003757883 E W H G S E G L A E Q S N R E L E A W S E R L L G Q Q W R I K P A T G T E G Y R
UniRef90_UPI0004674770 P S L G L A G N T L A D Q P D T R L A Q I V G E A L L N Q W R L K P S A T G T E G Y R
UniRef90_UPI0003B79042 P L W W A H S E T P L A E F S D K A L R N I G Q A L N Q W R L K P S A T G T E G Y R
UniRef90_F5SNM3 D L H W S E R D K E L A N K D E N L J A L G D K I N N W T I K P S G T E G Y R
UniRef90_U2FJR6 E H L T I N Q E R Q K I A N M S N N Q I D D F V Q A L K G L V I N I H D V R S P I K E
UniRef90_F3B945 R A S G V R E R T L I S E V S K E R L E R L D K C K G F E I E I T E T R N S F I E
UniRef90_UPI0002559085 V E W G L S G N L A D Q S D K A L G A L A E R L T D W R L L P D G S E G Y R
UniRef90_Q0A7W6 E L W L P G D R R L L E G A Q T G E D I R R L Q A C Q P W T V W P D G T E G Y R
UniRef90_Q1GS29 D R L A L P P G E L L G A Q T D R K L A D A E A R L P P N G T E G F A
UniRef90_I4AMi5 E A A Q I D S K T N W A S L S N K E L E S L A N E L T K G I F H V N G K S T H K
UniRef90_F0Z1C2 K L A H L D R T R P V G E W T K E D L Q N L F S L K H F F T E V I T E T N S F D E
UniRef90_R6PEY8 K Q A Y I P L H I K A S E I T S D K W E K L F S L C K H F Q V E I I D D K K A P F F K
UniRef90_G0L395 R A S D I S E T D K W A D I T K S Q L E K L A R Q L T E C E L K I D D K K A P F F K
UniRef90_S2VKY4 E R A G V L P H Q L W A E L N K G Q L H A L A K E L T A S T F S I V D D K K A P F F K
UniRef90_D6YUR7 K K A G V G D E T V F A G F G K E K S A A L A Q V L S K D L Y N I E R G K T T N K
UniRef90_D1VSI3 K K S N I S S Y K K V N Q I T G Q E R D R L K S S I K K F D L D Y K C L E D I N
UniRef90_R7LHQ5 A E A G L D P T R R W A G M N D K K S R L L A K L T N H Q L P V E G K N R F K
UniRef90_H5T7K4 D L H K F E N V P I K Q L S H K E Q A R L V D H L V H N W L R P D G T E G Y R
UniRef90_T0I573 A R L G L S G E L G A L S D K A L A A E A T L A R W P F V P D G S E G F A
UniRef90_UPI0002001C46 D Q Q G V E P D R R W A D L A K R K G L L E A L R R S R F P V A R G K S R F F G
UniRef90_R5B962 A K S G V R V D A R W A E L G S K Q G M N R L V N T L I N D E Y Q I L A G K S R F F K
UniRef90_Q2BI86 Q M F G F S G I M G N H S N K D L E A I N K A F R E W K V K P S G T E G Y R
UniRef90_K5XXW2 A P Y P G N L A D L P N D K A L R A L G A G L H Q F A F Q P S G T E G F A
UniRef90_Q3A2W6 D L V D L P A K R N T A T L N A K E R Q R L W I K D F R L D V T G F R P F S
UniRef90_D3F967 D R W F T S Q P M K Q Y A P A G L R D I A D K L G A W Q V V P A G T E G Y R
UniRef90_UPI0004055420 T M L W E D K E I E L A N K D E R L T Q I G A E I N G W M L K P S A T G T E G Y R
UniRef90_H0A3A5 E A F L P P V E M A N Q P D K G L R A L Q A E R L I R A M S L T P S G T E G Y A
UniRef90_Q0FYG7 G R I G L E K R L G D C A D A E L E H A A E S L T A L T F R P S G T E G Y A
UniRef90_C6X360 W L S K I N L D E K N I S T L T S K E V Q S M L G G L C A N E M K F D G K S Y K E
UniRef90_K2FMM0 R Y S G L D L E K H A A K I S K E R H L V N L F K N L E M N F D G L F G F E
UniRef90_UPI0002DA179A K E A G V D L H S I T Y N V T Y D I R Y K L Y N L L K E W D F S V C G T N S F D
UniRef90_Q26FU0 A S M N L T E K N W A D C S N N D I L Q N L A T A S T F S I N G K S T F K
UniRef90_Q0FT08 E S L P L A G N L A D L S N D R R I A E L A E A L Q G W H L R P P G G T E G W R
UniRef90_M1Z616 K E L G L N K N K Q I A H L S N D E V S R L A E L T D W R F K I S G S K S F K
UniRef90_N8ZT39 Q L I W S D A E T A I G Q Q S D E K L K T I A E R L H A F E L K P S G T E G Y R
UniRef90_L0WDY3 A Q F G W Q A G N L Q Q F S N D R L G D V A A T L K G W Q F K P S G T E G Y R
UniRef90_A9E2Y7 Q E F D L S G N L A D W S D A R L T N F V D A L Q N W Q L H P P G G T E G Y R
UniRef90_UPI0003B3A5FC D I T S A T T G N L A D Q S N A T L D R I A G L V H T G L E M R P V G T E G Y R
UniRef90_W1ERM8 Q L G Q I P D V S L K Q L N V R D Q Q A L I S T L T D W R V Q P N G T E G Y R
UniRef90_E1YE34 D L T R I C G E E H P A S G I S A K E R V R L R T W L K D F R L E V S G C R P F A
UniRef90_W8TFS8 E Y L D V E E H P N T L T K Q R A L E I I K S I K N L T L T C T S F S M E
UniRef90_D5ARI6 A Q S G L S G R L A D H G N R A L A Q L A A Q V I Q A W Q V R P V G S E G Y R
UniRef90_W8VZX7 E A A E L S G D K T W Q D C S N Q T L K D L S S L T A S V F K I D G K S T F K
UniRef90_UPI00026C81C5 A P T L F D K K L A E L A N R D L E S V A A D Q L N S W Y V K P N G T E G Y R
UniRef90_UPI00035FB726 E L Q V F T N Q K L A L A N P K S I Q Q I A D S L H G Y I F K P N G T E G Y R
UniRef90_UPI000360DC2E I A S Q I P S T F N W A D L S H V Q I D S L A N Q S L T K S V F T A K G K S T F K
UniRef90_A4AA27 G T W F D D Q K I G S F S P P E L R A I G E R L N D W S F M P G G S E G Y R
UniRef90_W6SER7 G M V G L L E T K A S E L K K E D E N R V I N Y I K E M R L T I E T S I K
UniRef90_UPI00036D9A17 A E F G L A G A R L A D Q G N A A L D R L A N R A N R W Q L R P V G S E G W R
UniRef90_A3VDT8 P D L G L S G N L A D Q S D A R L A E I C A A L A H W T L T P T G S E G Y R
UniRef90_B1ZSU3 V S A G I A A A T P W A Q I G N A A L G Q L T A M L V A A E F A V V G K S L F K
UniRef90_UPI000475DA3B K E A K I D P G L L C Q D L S W K T K K I F Y K L L K S W E F K V T E T H S F E
UniRef90_UPI00036E9907 Q A A G I P G D Q Q W S Q L S K R Q R A A L V E Q L T N A R F H I T G K S T N K
UniRef90_Q4FMS6 N E N N V N G N I C E L S N K V L T S L S N S I N A W V I N P I G T E G Y R
UniRef90_Q1YJA2 E R L G E T R P L G A I T D A E L D L A A D M L T R L R F R P T G T E G Y A
UniRef90_S6D800 A Q K A S D R P M A E W A D K D V R A L A Q R A Q N M Q L Y P T G T E G F A
UniRef90_M1WM82 S G D L A S E T S V S Q L S K Q I A M A E N R I H R F R I T P A S T E G Y G
UniRef90_R6MNR5 K Y C G I E P L S R Y A T L G E K E I R R I C S T I K K W D F K I T G T M S W N
UniRef90_UPI0004777E97 Q K S G V S P N E L W S D L S K V Q L R F L A E T L T C S R F M I D G K S V F F K
UniRef90_UPI00047DB227 K A S G I T E A D K W D L T K V Q L Q D L A K E L T E C Q Q F R V D G K S T F K
UniRef90_E6QXG4 A W Q K W E K P L V I E H S K L D I S G M Q A A L T D W R L M P A G T L G Y A
UniRef90_A4CJ45 E A A G I P A D R W A E L S R P G L H R L A A Q L T D S E F A V D G K S T F K
UniRef90_M2W3S8 V Q T L N N E A Y L W K D L S K A Q L D A L S N A L K S S L F E L I D G G K G I F K
UniRef90_D5RIJ6 G S W L P D R I M A E Q P D K T L R Q A A T R L S Q W S L T P A G S E G Y A
UniRef90_W5QT82 E K A G G R A K A P W G S L N Q K E M N R L T N T L I N D T Y Q I A G R A P F K
UniRef90_A2BY82 N K M E I N K E K K W S D L A N E R E K M I N S L M K D I Y N I S S K G P F G
UniRef90_UPI0002DEFC68 N K M K I N D K D K W S E I I S K E K E I M I K F L M N D E Y Q I S T N K G P F G
UniRef90_UPI0004158EDC D P E V A E R P L E R F S D A D L A A L A G R Q Q P W V F T P S G T E G Y A
UniRef90_G2EAE9 L A S E I S E T D R W A D L N K Q D L L A N Q L T P K A V F Q V T G K S T F K
UniRef90_W6TT41 K F L P I E K Q V A S L T K A E L E L H K T H L F K V K P A G D K G Y D
UniRef90_E7GSW9 R L A N L E P H K Q A G L L T V I E I D R L T C V L K E F T T E V T A A N S P F E
UniRef90_R6RUK6 K A A G I R G E E M T G R L S D K K L A A E L K R T V V E V T A A N S F D
UniRef90_Q8DVS5 E G Y D H K V K Q L S K K D L E K T L H K I K A L P I P I T G K M S L A
UniRef90_H1YB41 K Y L P I E K N L A T L N K Q D M E N I N N L I H H F K V K P A G D K G Y D
UniRef90_W0BH8 P E H L A E K N L S G I A N R Q D F Q V V A S Q L N F W K V K P N G T E G Y R
UniRef90_R4YKY6 E L F L S D L V K T L A E L N A E Q M D A I A H Q F N A W Q L V P S T E G Y R

UniRef90_E4TC48	E E F V T
UniRef90_UPI0003C7DF89	T A E V T
UniRef90_M4VH78	T A E V T
UniRef90_A5VCX9	K A E V T
UniRef90_H2FZI3	T A E V T
UniRef90_W2UII9	E E F V T
UniRef90_UPI000369F50B	T A E V T
UniRef90_U2ZBC6	T A E V T
UniRef90_B0T8G8	T A E V T
UniRef90_F4GQZ6	K A E V T
UniRef90_UPI000477464C	T A E V T
UniRef90_UPI000374F069	T A E V T
UniRef90_W1PW00	D E F V T
UniRef90_R5IVT8	N A Q V T
UniRef90_R6EHY6	N A Q V T
UniRef90_UPI0004634C30	T A E V T
UniRef90_UPI0003757883	T A E V T
UniRef90_UPI0004674770	T A E V T
UniRef90_UPI0003B79042	T A E V T
UniRef90_F5SNM3	T A E V T
UniRef90_U2FJR6	N A F V T
UniRef90_F3B945	Q A Q V T
UniRef90_UPI0002559085	T A E V T
UniRef90_Q0A7W6	T A E V T
UniRef90_Q1GS29	K A E V T
UniRef90_I4AMI5	D E F V T
UniRef90_F0Z1C2	Q A Q V T
UniRef90_R6PEY8	Q A Q V T
UniRef90_G0L395	E E F V T
UniRef90_S2VKY4	E E F V T
UniRef90_D6YUR7	E E F V T
UniRef90_D1VSI3	R A I I T
UniRef90_R7LHQ5	E E F V T
UniRef90_H5T7K4	T A E V T
UniRef90_T0I573	K A E V T
UniRef90_UPI0002001C46	E E F V T
UniRef90_R5B962	E E F V T
UniRef90_Q2BI86	T A E V T
UniRef90_K5XXW2	K A E V T
UniRef90_Q3A2W6	E A I V T
UniRef90_D3F967	T A E V T
UniRef90_UPI0004055420	T A E V T
UniRef90_H0A3A5	K A E V T
UniRef90_Q0FYG7	K A E V T
UniRef90_C6X360	D E F V T
UniRef90_K2FMM0	K A M V T
UniRef90_UPI0002DA179A	N A Q V T
UniRef90_Q26FU0	E E F V T
UniRef90_Q0FT08	T A E V T
UniRef90_M1Z616	D A Q V T
UniRef90_N8ZT39	T A E V T
UniRef90_L0WDY3	T A E V T
UniRef90_A9E2Y7	T A E V T
UniRef90_UPI0003B3A5FC	T A E V T
UniRef90_W1ERM8	T A E V T
UniRef90_E1YE34	E A I I T
UniRef90_W8TFS8	S A I V T
UniRef90_D5ARI6	T A E V T
UniRef90_W8VZX7	E E F V T
UniRef90_UPI00026C81C5	T A E V T
UniRef90_UPI00035FB726	T A E V T
UniRef90_UPI000360DC2E	E E F V T
UniRef90_A4AA27	T A E V T
UniRef90_W6SER7	G A M V T
UniRef90_UPI00036D9A17	T A E V T
UniRef90_A3VDT8	T A E V T
UniRef90_B1ZSU3	E E F V T
UniRef90_UPI000475DA3B	H A Q A T
UniRef90_UPI00036E9907	D E F T T
UniRef90_Q4FMS6	T A E V T
UniRef90_Q1YJA2	K A E V T
UniRef90_S6D800	K A E V T
UniRef90_M1WM82	K A E V T
UniRef90_R6MNR5	N A Q V T
UniRef90_UPI0004777E97	E E F V T
UniRef90_UPI00047DB227	E E F V T
UniRef90_E6QXG4	K A E V T
UniRef90_A4CJ45	E E F V T
UniRef90_M2W3S8	E E F V T
UniRef90_D5RIJ6	K A E V T
UniRef90_W5QTB2	D E F V T
UniRef90_A2BY82	E E F V T
UniRef90_UPI0002DEFC68	D E F V T
UniRef90_UPI0004158EDC	R A E V T
UniRef90_G2EAE9	D E F V T
UniRef90_W6TT41	K A E V T
UniRef90_E7GSW9	N A Q I T
UniRef90_R6RUK6	K A Q V T
UniRef90_Q8DVS5	K S F V T
UniRef90_H1YB41	K A E V T
UniRef90_W0BHE8	T A E V T
UniRef90_R4YKY6	T A E V T

UniRef90_F3KPY7
UniRef90_A0A024DGB1
UniRef90_UPI00031F3A0B
UniRef90_C1FV7
UniRef90_UPI000475F7CD
UniRef90_UPI0003B686A8
UniRef90_D9A196
UniRef90_UPI000255B0D6
UniRef90_A4AU19
UniRef90_T2KRR8
UniRef90_N9WGA9
UniRef90_F2JYX9
UniRef90_UPI00035DE212
UniRef90_A3SX48
UniRef90_G5JRC2
UniRef90_A0A059DVV3
UniRef90_UPI0004717FFE
UniRef90_U4T142
UniRef90_F7JIV2
UniRef90_H6L5Y7
UniRef90_I0ID66
UniRef90_UPI00036C0574
UniRef90_R9A0C0
UniRef90_Q5FTW5
UniRef90_D5BQI6
UniRef90_E4SRE6
UniRef90_M2ZV33
UniRef90_S8DMM1
UniRef90_L8UFX6
UniRef90_M1FGS8
UniRef90_A6VYE5
UniRef90_K5CBH8
UniRef90_D1B046
UniRef90_M5UBY2
UniRef90_A5FP72
UniRef90_T0DSQ1
UniRef90_S7V755
UniRef90_UPI000365F821
UniRef90_R6CD46
UniRef90_UPI00037320A1
UniRef90_W0AG78
UniRef90_E6WZR5
UniRef90_V2USG6
UniRef90_K2BP05
UniRef90_G9QVX3
UniRef90_F5WU52
UniRef90_D2UCU0
UniRef90_A1SZ97
UniRef90_UPI00036C8B54
UniRef90_E0NMH9
UniRef90_F2JR18
UniRef90_J0S0J9
UniRef90_F0JGE8
UniRef90_R6V5X5
UniRef90_R6LWG2
UniRef90_V2TSQ2
UniRef90_UPI00035CF1EB
UniRef90_H0UIR8
UniRef90_UPI0003B39090
UniRef90_R7R7P6
UniRef90_A3CY60
UniRef90_F2I9M6
UniRef90_E4TWA5
UniRef90_U2VKD4
UniRef90_UPI00047C944B
UniRef90_A5EX33
UniRef90_A3TZB5
UniRef90_R7QVQ8
UniRef90_K2B783
UniRef90_UPI00046FC30A
UniRef90_A0A023D558
UniRef90_E0UTU5
UniRef90_U2ER40
UniRef90_I2K9Q1
UniRef90_J3CXT7
UniRef90_UPI00046E5211
UniRef90_Q0FCG4
UniRef90_UPI0003710D86
UniRef90_T1A5N0
UniRef90_M1A9M3
UniRef90_UPI0004662EEF
UniRef90_Q1IUN2
UniRef90_B9DVQ5
UniRef90_A0A024HEV1
UniRef90_D4CLM1
UniRef90_U2U079
UniRef90_R5IVQ7
UniRef90_UPI000471D144
UniRef90_UPI000464F1CA
UniRef90_D1AFQ9
UniRef90_UPI000478BC54
UniRef90_Q30R66

1 10 20 30 40
P A L V P L T F D S S W A P Y A E L A G L A L P V K I K S Q H T G M A F L E D
A E S P L L T D F P H R Y A K A L Q G I S L D D V T L S Y S G K H V I T F H D D
G L V P F T L Q E A G K E R L A V L S G L S L A E V I A S T S G A Q N R A R F T L E D
P A L V P L V L L Q E A G Q R D C Q L S G L S A E V I A S T S G A Q N R A R F T L E D
G L V P L T L L Q P D L E R F S V L S G I A A D A I V S V D N T R F K E S
P A L T P L T L D D P D W K S L S G I A A D A I V S V D N T R F K E S
P A L V Q L R C R E D D K W Y K Q A A G V R T E A V T L K I G K T A A D R G E S
P S L F T F N T K D T R I D G L Q G V A L K G Y T I A V N H A V L E E T G P
S L F T F T F K I K D E R I P G V S S Y V K V D L P K H R S F G P
P S L F T F T F N K D N R L K D I P G V V A Q N V E V N L G T D L Y S E G P
A L I P L V I K E D F M S K L Q G I S M K E V R A K V K K K F E Q M G D
S L V P L T A Q P D R K A Q L A E L S G V A C D I E A T A G G T V F S K E P
P S L F T F N T K D D R I K D L A G I S L N A A V E I Q M K S L Q S S G P
G L V P F T F S D A R F A P I S G T A T P A R V T A Q G P A F D E A
A E S P L L T D F P H K A L Q S L S L D D V T L T Y A D K H K I T H D
A L V P F V T F G A D H E D F A Q S L S G V A C D V R A A S G K V A F E E A
P A L V P L V F R E E D A W L R T L A G A S L P V I A S N E Q R I A F K L P
S L V P F T F D K T G E L I R A L A G I S L P V I A S N E Q R I A F K L P
P A L V Q L H C A E S F Y K E I R V Q G V T L Y V S N E Q K A E D T G E
P S L F T F N S K D F R L K G L P G L S V P Q A E V E V G Q K N L K A R G P
P A L V A W T C E E G H W L Q E L P G V A L P A V I T N A N G K V L A R Q T
A E S P L L T D F P H R Y A K A L Q G I S L D D V T L S Y S G K H V I T F H D
P S L F T L T L A N T D L I E L T G L V V P N A E I K I V P K G K A Q S G P
P A L V P L V L A D A D P E L D P L V A R V G K K G P R F E D G
G L V P L T F A A E L L R C K D I L S G L S L V E A E V Q C K G K T Q F A E G
A E S P L L T D F P H R Y A K A L Q G I S L D D V T L S Y S G K H K I T H D
P G L V P L T F T G A D L A L R D L A G I A V P A E I R F G K A R F R E A
P S L F T F T F R I D D A Q M L E L S G V T P K V K V K M K F P N H E Q V G P
G L V P F T L V H P E L M T L A P L A G L I S C P V S A E C N H E V T F Q E P
S L V P L T V L P D R K A Q L A E L S G I J A C E I S A T A S G V T F Q E P
P S L F T L T L E N T D L M E L T G L V V P F S E I K V L P K G K P Q K G P
P A L V Q C V C E E A H V A L A S G L K M E G V V F E N Q K V Q R A T G D
P A L V P L V G G T E A T R G L S G L T L D D V V A E V H D P L I R R R A S
P A L V P L V V K E I A L V Q S M Q G V A L K N I R L T S Y R C E A S R M G E
P A L I P L V V K E S F V K N L K G L S V P N G H I R F E G S Q L Q Y S G P
P S L F T F N I N D K R L V S L S G I S V P N A T V K I V N T K L E A S S G P
P A L V P L K A K E T F L K S I S G V S R A E C T L L I S G K K A G E S S G E
U L I V L D A T R E R L G D L A G V S L D T E T A A G G A T F F R E N
P G L V P L T L G G D E L L F R E L S G V A T D V V I A S C G K A R F R E A
P A L V G F T L Q P A Q A F F K S L S G V A V E A E V R V A R R C W R D R
G L V P L T F S D Q Q F E V T S R L S G N A L E A T L S N A D A A F T E A
P S L N A L V I K E E W T H E L A G V S I E R A R L S V G K N S F V G P
U L I V G F S V Q K D E F W F K E T L S G V S L A D V V I N T K N E S Y K F S G D
P A E V P L V S N D L F V Q K E L L S Q L S F H D V T V H V Y K I K I T H D
G L V P L T L S G K H E R L H D L S G L A L P V E A S C N G A S F R N F
G L V P F T L Q P S Q E K F A E L S G L S M D V K V T A N G H A F Q E A
P G L V P L S F E G K W A R F S E L S G L S M D V K V T A N G H A F Q E A
P A L V Q L K L K S N F L K H L S G T K V E G I C L K D G K V I K E R S G D
P A L T D V R L D E N T F F S V L S G V S V K Q L E V T I W R E Q K K I Q G D
P A L T P V T I R D Y P F S D L A G I S L Q N C T V S L F R E G K K I C G
P G L V P L V F P K K L Q P L C A M A G N A L P A A V E A G S M R F T D P
P A L V P L T C K V G F L K Q W A G V R V E G Q V S F Q K E E C L A R E R S G E
P A L T W L K I E E K Y T K L W A G V R V N G K I K A Y D E N K E A R E D S G E
G L V P F T F S D Y I K D L A I R L S G N A L D V T L S H P L K S F T E A
P A L V P F M F S D S T K D F C A L S G V S H K V N A S C N N V D T F S E D
P A I C P V K C R E K F A E L N G L K K N V R L T L G E P V D T R F S E A
P G L V P F T F S G A L H R F A A I S G V A A P V T V T T K D K T R F S E A
P A L V Q L R C E G N Y F K A L S G V A Q A G L T L Y I D K I A A T E E G E
P A L A P V V E D Y P F A D L A G I S F Q N L T L A V G K R V G R H A G D
P S L F T F N M P N E S I K E L M G I V Q E N A L V K I I G E K W T S N G P
P S L V Q L H L N S K H H H K M A G V K T A E V T L I D G K S K E K Q G D
P S L F T F A L E N D A A L H E L A G T T V P S A R L S I P K T S F A A T G A
P A L T P L Y I K D Y P F G D L S G I S F E D T P I Y L W K K I K E T M G D
P A L V P L L L S P A F P Q L A G V A T T E V I V K T E N A P D F R D D
P A L V P F T F P E G R F A P L S G V A L P V R A R A A A G P A F D E A
P A L V Q L V A K P P F E K E M A G V R T A N V K L F A D G V L L H Q T G E
S L N S F I A Q E P W L N L L A G V S F A Q K L S V N K P K Y T F I G P
P G L V P L T L E T P L P E L A G V S L P V R A S M G K I G F T D G
P A L V P L T L T S P A P D L A G V A L P V A A R T I G K T V F S D A
P A M M P L K T K E T W V K N C R A D T I A K V L R V D L K K H K K R A I G D
G L V P F T V D G S A R S A F A E L S G I G T T V E A C N D G M F E A G
P A L V G F T V Q K E Q F F K E L S G V S T D V K I L V I G D H V C E
G L V P L T F D E G W V P Y A Q L A G L A L P D A T P K Q R K K A V V F P E S

UniRef90_UPI00046E5211
UniRef90_Q0FCG4
UniRef90_UPI0003710D86
UniRef90_T1A5N0
UniRef90_M1A9M3
UniRef90_UPI0004662EEF
UniRef90_Q1IUN2
UniRef90_B9DVQ5
UniRef90_A0A024HEV1
UniRef90_D4CLM1
UniRef90_U2U079
UniRef90_R5IVQ7
UniRef90_UPI000471D144
UniRef90_UPI000464F1CA
UniRef90_D1AFQ9
UniRef90_UPI000478BC54
UniRef90_Q30R66

UniRef90_F3KPY7
UniRef90_A0A024DGB1
UniRef90_UPI00031F3A0B
UniRef90_C1F7V7
UniRef90_UPI000475F7CD
UniRef90_UPI0003B686A8
UniRef90_D9R196
UniRef90_UPI000255B0D6
UniRef90_A4AU19
UniRef90_T2KRR8
UniRef90_N9WGA9
UniRef90_F2JYX9
UniRef90_UPI00035DE212
UniRef90_A3SX48
UniRef90_G5JRC2
UniRef90_A0A059D5V3
UniRef90_UPI0004717FFE
UniRef90_U4T142
UniRef90_F7JIV2
UniRef90_H6L5Y7
UniRef90_I0ID66
UniRef90_UPI00036C0574
UniRef90_R9A0C0
UniRef90_Q5FTW5
UniRef90_D5BQI6
UniRef90_E4SRE6
UniRef90_M2ZV33
UniRef90_S8DMM1
UniRef90_L8UFX6
UniRef90_M1FGS8
UniRef90_A6VYE5
UniRef90_K5CBH8
UniRef90_D1B046
UniRef90_M5UBRY2
UniRef90_A5FP72
UniRef90_T0DSQ1
UniRef90_S7V755
UniRef90_UPI000365F821
UniRef90_R6CD46
UniRef90_UPI00037320A1
UniRef90_W0AG78
UniRef90_E6WZR5
UniRef90_V2USG6
UniRef90_K2BP05
UniRef90_G9QVX3
UniRef90_F5WU52
UniRef90_D2UCU0
UniRef90_A1SZ97
UniRef90_UPI00036C8B54
UniRef90_E0NMH9
UniRef90_F2JR18
UniRef90_J0S0J9
UniRef90_F0JGE8
UniRef90_R6V5X5
UniRef90_R6LWG2
UniRef90_V2TSQ2
UniRef90_UPI00035CF1EB
UniRef90_H0UIR8
UniRef90_UPI0003B39090
UniRef90_R7R7P6
UniRef90_A3CY60
UniRef90_F2I9M6
UniRef90_E4TWA5
UniRef90_U2VKD4
UniRef90_UPI00047C944B
UniRef90_A5EX33
UniRef90_A3TZB5
UniRef90_R7QVQ8
UniRef90_K2B783
UniRef90_UPI00046FC30A
UniRef90_A0A023D558
UniRef90_E0UTU5
UniRef90_U2ER40
UniRef90_I2K9Q1
UniRef90_J3CXT7
UniRef90_UPI00046E5211
UniRef90_Q0FCG4
UniRef90_UPI0003710D86
UniRef90_T1A5N0
UniRef90_M1A9M3
UniRef90_UPI0004662EEF
UniRef90_Q1IUN2
UniRef90_B9DVQ5
UniRef90_A0A024HEV1
UniRef90_D4CLM1
UniRef90_U2UU79
UniRef90_R5IVQ7
UniRef90_UPI000471D144
UniRef90_UPI000464F1CA
UniRef90_D1AFQ9
UniRef90_UPI000478BC54
UniRef90_Q30R66

UniRef90_F3KPY7 G Q D L A A H L A E A K Q Q S R K L S K E L A H L L P T R L A E T W T
UniRef90_A0A024DGB1 Q L S E K D L V A F L E E N R E K S L K N A L K T L L P E R R L A E F L V
UniRef90_UPI00031F3A0B K N E W A S H L S Q R K R L A P Q I R L K H C L R E Q V L P P K R V V A T R L I
UniRef90_C1F7V7 R A N I T A P L L A Q P Q R A I S K A R A A L R E R H L P K Q R L A D R L I
UniRef90_UPI000475F7CD D L D L E S T L K Q W R Q E A P N K T L E Q M L S E S L S K E R L A Q V L C
UniRef90_UPI0003B686A8 E F R E D N F R E K L A E V G R K T L S R L V K N S V S E K L P S K R R L A Q V L M
UniRef90_D9R196 S M N I D N T R Q F L S E R V R K L G Y R R A E E F L N G V L N H K L N G L M
UniRef90_UPI000255B0D6 D Y T S S S L L A Y F K V C R E E Q E P K K T I L K S K V V D M P K R R L W N S L V
UniRef90_A4AU19 D Y H K G A I F S L L M E I K E L D S A K K T V L R T K A V E I P K R R L W T N L V
UniRef90_T2KRR8 Q S T A A I L E Q L K Q V K L D S A K K T V F K F S Q F D L P K R R L W Q Q L V
UniRef90_N9WGA9 D K S R E E I R N I R S N P Q K T V I N N M K G L L P Q N F L K Q I I
UniRef90_F2JYX9 E L T L E S L V K T R E E S Q P K K T V E N Y L A N E L P K R R L V E L M R
UniRef90_UPI00035DE212 Q H N V E S L V K S L L E D L K R E S Q P K K T F L Y P N P T E G I P K R R L W Q S L L
UniRef90_A3SX48 D S D L L A K L R S Q R Q T Y G R R N L T T E L S H H L P A R R L V D H L S
UniRef90_G5JRC2 K L T A D E L A T L L E Q E R E K S V A T A L K T L L P K R R L A D F L T
UniRef90_A0A059D5V3 G T D L A G Q L K E I K R D R P M Q A L A T A L E G F F A K R R L A D L L
UniRef90_UPI0004717FFE G Q D M G A A L A R L K K T G V R T Q A P A T M G R W L P Q R R L A Q A L
UniRef90_U4T142 D T D V T A L L D R R K K S H P K Q L I N T V L A D S L P K K L L A A L Q
UniRef90_F7JIV2 D I S E N T C F A F L K E R I S T R S A K K T L N T F L V G L F P K R R L G D L L
UniRef90_H6L5Y7 W E R Q T L A E F L Q L K K D W A K K Q L S K T S P F S E I P N R R L W R R L L
UniRef90_I0ID66 G A T F D E A D T R L R E A A E A E N R P R A A V R S F L K W T I P P K R R L A E A L L
UniRef90_UPI00036C0574 Q E T K E N L R T Y L K E N R P K A S L K N A L K Q F F P E R R L A D F L A
UniRef90_R9A0C0 S E S T Q N V E N F Y W K Q K E S S P G E K I S A N P N W K L P S R F F D W I L
UniRef90_Q5FTW5 G Q N A L N V L L K V K K D R P K A L P P S L L E A L P Q R R L A R V L A
UniRef90_D5BQI6 A H D M R N V M T D K K R S H P K Q D A Q T L L S E F M P K R R L A S L F C
UniRef90_E4SRE6 N Q C Q E N L K T Y F E E N R E K S V K N T L K G L V P E R V A E F L
UniRef90_M2ZV33 G Q D A A A R L L E R K G Q R P N A Q V E T I V G E L L P A R K L A R A L A
UniRef90_S8DMM1 D L H I E D V K S L L T Q H K A K F A K Q A I N S F P S E L V K A K L W R Y I L
UniRef90_L8UFX6 Y Q D I R H Y L L D E L R Q S S P K L Q L K T A L A R L L P K K L V I E L W L
UniRef90_M1FGS8 Q Q Q V E Q D L L S L R K L K P Q S T L E H Y L N A H L P K R F A Q A F N
UniRef90_A6VYE5 T L S L D D D L L D V R H S S P K K S Y E G F L S N I L P K R L V I E L V
UniRef90_K5CBH8 G K A Q N I E E I Y L S K K E K S P A E K L T P D P D W K L P S R F W E W L L
UniRef90_D1B046 T L S K E A L Q S L F S R R V A T A Q G K S L S L W L E G M I P K K L A L L I
UniRef90_M5UBY2 D V S E S E L R E L F S R S G D S A G K R T V A S V V A E W L P S R L V N E V V
UniRef90_A5FP72 A L S L D K L R L R L Q R D F D T F G K R S F Q N L S E L L P Q K M I R P F V
UniRef90_T0DSQ1 N L S K D E I S K I T R E N P N K N I L T N L K G L V P Q N F L K E V L
UniRef90_S7V755 N F T E D G L R A E L L S Y K G M H P L K K I S T N P L F G L P G R L W E F L T
UniRef90_UPI000365F821 R P T D K V L N V L L N L K K K E P R K T V I L K S P F A E I S K R L W E R F V
UniRef90_R6CD46 R M S G E T F A Q T M R R E K N G S D A M T A E E F F T G L L N K K V T Q L F L
UniRef90_UPI00037320A1 G L D L A A H I R E V R A R R P G L A L R T L L A E R L T R R V A R R W C
UniRef90_W0AG78 D A D A P A L L R A A K R A R P R A G L A S V L A E H L P Q R L A A A L A
UniRef90_E6WZR5 G F D L N E I R S E P R K N L S T L L S P E L L P A K S A A L A F L
UniRef90_V2USG6 T H D L C A W L K Q K K L S P K S L L R T L L S E L A A K S V I E L Q
UniRef90_K2BP05 D M T F P E F E A F K K E V V D N P K K L F R N T A S M F M P K S V A D V L C
UniRef90_G9QVX3 K F S E K N L V N G K K Q L S S V L P P K R E V L E F L
UniRef90_F5WU52 K I S L E Q L Q A Q E D W E A F V Q E Q G I P K R L L A Y F K
UniRef90_D2UCU0 G Q D A A A W L R A Q K R L R G A A E L R T V L G D A L P R R F A Q R L C
UniRef90_A1SZ97 D L D L F A E L L H A Q K N H P D Q A L K T V L A Q Q F L P K R V V E C L L
UniRef90_UPI00036C8B54 T E S V L D V L K K L K Q S L P K G Q S L P K W N Q Q W P P K R F T Q Q V W L
UniRef90_E0NMH9 E E D K N E F L E Y F Y R T I S S K D M T L E R F L I G L L N K K F I H Y V L
UniRef90_F2JR18 P K S Y E N I K A Y F A S E V A K R R G K E E I I T F L K F E L P R T L Y Q A L C
UniRef90_J0S0J9 E E Q R D D L V Q T L T G C G A T R V N T A L S T F H L P E R R L Q K R L V
UniRef90_F0JGE8 D L A L T D F L A D N R S S N Q Q L R N L L A R V L P K R L P P L
UniRef90_R6V5X5 D F T L E E V E A L L R E R Q E N C S Y K N L K E L L T G L F P A K K L I P L V L
UniRef90_R6LWG2 E F S K D E L L G E I L R R R Q N D E Q E L E V S Y I L E G L M N K L V D A I L
UniRef90_V2TSQ2 T L D L V K I F Q D K K C E Q V L L R T I L S T Y T T K A S I T H E L Q
UniRef90_UPI00035CF1EB E K I A S D Y I K E I T P N N P K Q L L K S L T P L M P K A L V A E L E
UniRef90_H0UIR8 A L D R D R F J A R L D R E F P A E G D L P L R F A L R K M L P K E I I P V V I
UniRef90_UPI0003B39090 A E R V R S E L T H A R N T D P K K R V T D W M V E Y L P G R L T A D I F
UniRef90_R7R7P6 F F Q Q G D M E K I K E S I A S K V A K T V E E F L S G M A H K K I A S L L C
UniRef90_A3CY60 G A S A E E V R K H L A D A I A A G A R Q V K T V L C D M L P E R F V R R L L
UniRef90_F2I9M6 E E N Q E V V R E L I K E F V K S N K L V V N T P V Y S I K S R L W N Y L V
UniRef90_E4TWA5 R Y D R Q S L N L V E K L F A S V P K H D V H T A L C G L M P A K I A T Y L L
UniRef90_U2VKD4 E K N T E L V R A Q L K E V F A S H A K K Q I G N V H P F G L S T K L W G Y L L
UniRef90_UPI00047C944B Q K N I E G F R K E F I K D I Q S N G K L L I K T L L K N Y I P K R F I D E I L
UniRef90_A5EX33 D C P P D F L L T A K Q Q Q P K S L S H V L K T L L P A A L V E Q H F
UniRef90_A3TZB5 G Q Q A L P M L R A A R A E A G R R G L G R V L S G P L P A R L A G A V A
UniRef90_R7QVQ8 T A D E T A L T R L K N R F Y Q G I G K S A K E A L V G L F A D K L S G V F L
UniRef90_K2B783 D Q T S A T I T E E L N T T I S Q P K Q L Y K N T L H A W L P K S V I E L L
UniRef90_UPI00046FC30A G R D A K E A L G A I K K A R P R A E P P S L L Q D L P Q R L A R H I L A
UniRef90_A0A023D558 G M S A E A E M R R I K Q A R P R A G A A A L L E G I P Q R L G R A I T
UniRef90_E0UTU5 G K N E E Q I R E H F K K E S T K E N L T T V L E L L K T L L P E A L S L E L C
UniRef90_U2ER40 G E P V G G W L D G E R A A R P N A R L A S A L A K R F P E R R L A N W L A
UniRef90_I2K9Q1 H F S W K N V Q G S K K Q I S S L L P M P K R V T K A F L
UniRef90_J3CXT7 G V D L P A L L R A K A T S R K L I A N E L A S L V P G R L V A D A W I
UniRef90_UPI00046E5211 D V D L A A F L I N T E R Q A H P N Q T L K N T A Q L L P K R L V I E C L Q
UniRef90_Q0FCG4 D N S I L E A L K T K R Q K N G K Q A I H N A L N G L L P S V V C K F V T
UniRef90_UPI0003710D86 N F D V K N A L L T A K K S P K K L R N T L L N K P L P K R L L Q Y I L
UniRef90_T1A5N0 D C D A F E A L R E Q Q R A H P D A E L R T R L A E L P R R L A L R L C
UniRef90_M1A9M3 D L P I E D L K S A L T R H K S Q F L R Q K V L N S Y P S E L A K R F W K Y I L
UniRef90_UPI0004662EEF G V D L E A A L A E A P R L E I K N A L A R L A P K R L A G A V C
UniRef90_Q1IUN2 A Q D V T S A L R A H P A G R N E S S L K S E F R K V L A Q R L A D R W V
UniRef90_B9DVQ5 Q T S E D L L K Q L L E D N R E K T V K N A L K Q V L P E R V A E F L S
UniRef90_A0A024HEV1 R I D L P T W L V E Q Q R E R P N S E L K T L L A D L F T K K M A G L L A
UniRef90_D4CLM1 A V S E D A L L S E L F R L R Q S F P E R S A H S L L G L M N G K L A G T L L
UniRef90_U2UU79 A L T E K M L E G R L R E L E N A G G G G L E R V L S A L L P L R F L P V F L
UniRef90_R5IVQ7 F A S N P K T F L Q T L N K N S Y H K T I D E L L E G L H Y K L V D I Y L
UniRef90_UPI000471D144 K L R L E E L E K A N Q I D E V F K D H N V P K R L V D Y C K
UniRef90_UPI000464F1CA K I R N V N D L A N Q I Q T L F K T L S N Q K A I D L T G L V S N K I A P V L L
UniRef90_D1AFQ9 D Y N I C D I E K M L T V R K E N L S H L T M E D F L V G M I N K K L G Q L L L
UniRef90_UPI000478BC54 N Q K L E I K F L K G N K N I S S L Y L P K R F I Q E F L
UniRef90_Q30R66 G M N E E Q L L K H I K N E V A K N Q S A S I L I E L L T T L L P A P I S T E L C

UniRef90_F3KPY7 A Q D P A W Q R P V V A E T S D K A L 130 140 150 160
UniRef90_A0A024DGB1 Q E S L L G Y P E R K V K Q L T S D K E R E Q L L Q N S I R R W T L T P A G S E M S L A
UniRef90_UPI00031F3A0B V E S L L E R E P P S S F S D K N R A L Q E E A G E H L H H Y R F T P N G T E G Y R
UniRef90_C1F7V7 T L J A E P P S S F S N R Q R L S E I T T S E L T D I I I K P N G T E G Y R
UniRef90_UPI000475F7CD E W K G W S G K L V V S N Q Y S N R Q R L S E I T T S E L T D I I I K P N G T E G Y R
UniRef90_UPI0003B686A8 K K A S L S Q S Q S L V V N K N I K T P V Q T I N R L L V S A L F H S L L K N I V T G S V F L
UniRef90_D9R196 K E A G I M N E G L V V K N I K T P V Q T I N R L L V S A L F H S L L K N I V T G S V F L
UniRef90_UPI000255B0D6 K S S G I L A S D K W A D A N N D T I L K T L A K A I T E T T L A V N G K S T F K
UniRef90_A4AU19 K A S G I L A K D E K W A D V I N K E N Q L Q N L A H E L T S G K Y M V E G K S T F K
UniRef90_T2KUR8 L A S E M T E D S R W G D I N K E N Q L Q N L A H E L T S G K Y M V E G K S T F K
UniRef90_N9WGA9 S L C D L E E V K S A E L K K K D E N K L I S M I K E M T I T A R E T T L T I K
UniRef90_F2JYX9 T E L T W L S Q K F A Q V I S K S Q I L E S L S E H Y L S N F D V A P N G T E G Y R
UniRef90_UPI00035DE212 N Y L S I D S R E M N W S N I S K S Q I L E S L S E H Y L S N F D V A P N G T E G Y R
UniRef90_A3SX48 G I M D L G G N L A D W S D A K L G T L I D R L S H W V M T P S G T E G Y R
UniRef90_G5JRC2 Q R H F P E R V K Q D L T P A Q E K A E L L K K I K S L P I K I P T G K M S L A
UniRef90_A0A059DVV3 R R Q G L D P A A R L A D L T H A V L D D L A G V L T S W Q V R P T P T G T E G Y R
UniRef90_UPI0004717FFE S A H Y V P E G R L A E W A D K D V A A L A R H L G H M A L T P S G T E G Y R
UniRef90_U4T142 T H L W D D K D T E L A N T K D E R I L E L G T T L N G W R L K P S G T E G Y R
UniRef90_F7JIV2 H L S R L D L T D A V R C L D E D I W K V H L I Q H F E T T I T K T N A Y E
UniRef90_H6L5Y7 Y A A G I K E D K S W A N L S K K E L L G L E E E L T A C E I K V V G K S T F K
UniRef90_I0ID66 A P V G V D P P L G H L K R E H R E A L A H L L V A T E V P V D G D R M S L P
UniRef90_UPI00036C0574 K E S N I S D N K R Y S D L S K S E I R D L S L N L T Q K K L Q M M A K G V F K
UniRef90_R9A0C0 A G L G D T M L A N D P D R A I K A L A E R V S N D W Q L R P A G T E G Y A
UniRef90_Q5FTW5 A L H G D S A G R L A D I P D K K L T L G M A V I N D W Q V L P N G T E G Y R
UniRef90_D5BQI6 A G D K A D S K I K Q L H P K D L E N L I S Q L K G M E I P I T G K M S L A
UniRef90_E4SRE6 E R A G L L G R P L G Q S T N A A L A G L A R S L S E W P L V I P A G S Y R
UniRef90_M2ZV33 Q R E E A V N T R L W A S S N K L L T S V S A S R L K S S S F R I V I G K G F K
UniRef90_S8DMM1 E Q G L L Q D E V L A R L S K V R L E N L V N L I H N W Q F V P N G T E G Y R
UniRef90_L8UFX6 E L Q R W A G P L Q S Y R N P D I E H I S R T L Q Q W T I K P A G T E G Y R
UniRef90_M1FGS8 K I E F P W L T E R S A Q S T N E Q I D N L F H Y L A N F D I A P N G T E G Y R
UniRef90_A6VYE5 K E T K I Q P N K R Y S D I S K S E I R N L S L T L T Q T K L R M V A K G V F K
UniRef90_K5CBH8 H A E K L L H V K E A S E L S A K E L K K L V F A L K A L R L S V T K T K G F E
UniRef90_D1B046 V A C G A D G D K P I A E F S A A S L N L V F A L K R W V L P V Y D T R G F A
UniRef90_M5UBY2 D L T G I D P F K C G G Q I T A S E R E V I L A N L K C L R F N I T S T L P L T
UniRef90_A5FP72 T L L N L I D I K P N E V L K K E D E L K I E N L K D M K L T L S E M L T I K
UniRef90_T0DSQ1 E K A E I D Q E L R W E A V N K K K I N K L I E N L R F R S L K
UniRef90_S7V75 L F S D I S K T Q N W A D L T T T Q L E K L A D Q L T K G T Y N A N G R T T F K
UniRef90_UPI000365F821 K L S G I A P D T P L K K V L P E K K A Q F Y T Y C K K F V I T I T G T N S F D
UniRef90_R6CD46 E L W C P D R P L G E L G D A D V D A V V R A C Q Q P W T V W P N G T E G Y R
UniRef90_UPI00037320A1 A R L G V A G E L G A M T D K A L D S A G Q Q L G G W R F L P N G T E G Y A
UniRef90_W0AG78 K V L Q I R S E T A P C R Q L G R A E W E R L E G L H D Y R F A P A G T F G Y S
UniRef90_E6WZR5 Q L W S S D S E R A L Q Q F S D Q K L E N I A T Q L Q N F Q V K P S G T E G Y R
UniRef90_V2USG6 E R E Y L E K K H N G E I S K G Q M T K M I E L I K H F P L T I S G R V P G
UniRef90_K2BP05 R N F G L K D R A F Y E F S D D E K S E I K R L F A Y H F A P A G T F G F E
UniRef90_G9QVX3 T F C K G D P D K P V R Q Y L D E P Q L R A A A A L L G A W P L V A S G T E G Y R
UniRef90_F5WU52 E V W L P D K P V R Q Y L D E P Q L R A A A A L L G A W P L V A S G T E G Y R
UniRef90_D2UCU0 A F S E I E S L P L K Q Y L H E K Q L Q E T Q L F Q H W S P E I N G T E G Y R
UniRef90_UPI00036C8B54 E A F P M E T T L S N V T D E T Q L E N Y A Y Q L T I W K L Y P S N T A G Y S
UniRef90_E0NMH9 K N L D L D R N M K V M D L D S N K S Y E L L K I L T E S E F E I T G N N G Y K
UniRef90_F2JR18 Q R I S L D E H T T C A E L S K K Q R E A L V D Q L T R C P F T I A S L G G F H
UniRef90_J0S0J9 D R A G I P S E A T C A H L T R A S R N R L V G L F T G H Q M T V E A L G G Y R
UniRef90_F0JGE8 L L J A P A L A E T Q V S Q L S K A Q T E A A C E A I H R F T V T P S G T E G Y A
UniRef90_R6V5X5 T K L A F R I K N L E L P L K G T K S I R
UniRef90_UPI00036LWG2 S R A G I N K N S K L K D L T T T E Q C E Q I C S L K K F E A E V K D T A G F D
UniRef90_V2TSQ2 Q I F W L E A E T A I G Q L S D Q R L E I A K Q L H T F A V K P S G T E G Y R
UniRef90_UPI00035CF1EB I L L W N D K S K P I G E W P N I L E K I G N L N N W T L K P A P A T E G Y R
UniRef90_H0UIR8 R L J A G L Q E G D P A G S L T P E N K A A L V D A M K E F S V T P A T E L A G F R
UniRef90_UPI0003B39090 G E T G L R N Q I G T L S N A D I D R L A D R L S A H T I S P T A T E G Y R
UniRef90_R7R7P6 K Q A Q I K P D G V R V G E L R A K K V M S C V E A S L R A K F T V T V K A A N P F E
UniRef90_A3CQ60 D L J A G I P A G E T C A G Q L R K N S R N A L A A S L A E Y P F R V E R L G G F N
UniRef90_F2I9M6 E K A G I P N Q F K C S E L T A K H Q N K L L E V L V N D L Y V M E G K T T F K
UniRef90_E4TWA5 D D A G I A L S A P V S A L N P K E I K K L S H L I G E W K F E V N G T H G F K
UniRef90_U2VKD4 K C A G L D L T A K C G E S L S K K E D S A H I L Q V L S T Y P C Q I S S R V A Y K
UniRef90_UPI00047C944B K I I G I D E K I T C A N L N K K L R N R L V M M L T E Y P M T V E R L G E F N
UniRef90_A5EX33 I P N Q Q P L Q Q Y S D A Q L R A Y T Q R L H Y R V L P S G T E G M K
UniRef90_A3TZB5 A E L H L T G N L A D L G R V A E R L H D W Q V V P S G T E G Y R
UniRef90_R7QVQ8 K R S Q I A W D M P A E R V T D A Q L A E L N L K I R Q F E V K I A R T N K F D
UniRef90_K2B783 N E L Q I P N S I T N A D V N K T W R Q Q T V A W L K Q C K L V V I G C G G G
UniRef90_UPI00046FC30A E N T L S D L A C T L A N L P D K R I A A V A A Q I S A W K P R L S G T E G Y A
UniRef90_A0A023D558 A E M L P D F T D H L A N L P D R R I A A L A R R V S A W S P D I S G T E G Y A
UniRef90_E0UTU5 H L A K I E P D T K Y K K V E G A K R D K L S L S A W P L T V T G H D G F K
UniRef90_U2ER40 E R C T P G N A R L K Q L D E A K T S A L V G E L S A W P F T P D A T E G Y R
UniRef90_I2K9Q1 L Q F Q L E D K P F H Q C T K E E Q E T L Q T L S H Y S F A P A G T F G Y A
UniRef90_J3CXT7 S T D P A L Q K P I S E A T D K A L L G L A A R L A Q D W E L T P S S E G Y R
UniRef90_UPI00046E5211 T L E Q L P D V T L K Q C L N V P Q Q A L I A N L A Q W R V Q P N G T E G Y R
UniRef90_Q0FCG4 E L A N V S G N I G D Q S D L S L T K L S N A V H E W K V K P V G S E G Y R
UniRef90_UPI0003710D86 K K I L T N S Q T E I A N R K N D T L R A I A E A Q L N A W W L K P S G T E G Y R
UniRef90_T1A5N0 E I G L A S R P L R Q Y R E A E L R A I A A Q L N A S W P L V A S G T E G Y R
UniRef90_M1A9M3 D R E G I C G D M L W S S I S N N L L I S V A A L L K D C A F S V K K G Q F K
UniRef90_UPI0004662EEF D K L N L A G P V A G L S P K A R L E L A R Q A A A F P F T P A R A E G Y A
UniRef90_Q1IUN2 E R H L P K S W T N H A L E D L E R Q A H A W K I V P A G T E G F E
UniRef90_B9DVQ5 Q N Y P E K I K Q L N K I Q I E D L V G S V K A L N I P I T G K M S L A
UniRef90_A0A024HEV1 E Q W F V S K P M K Q Y T P A E L K A I A Q R L G D W Q L
UniRef90_D4CLM1 L V S G I G R G R R A R D L S G R E L H A L S S R K S F R S R I L S A N P F S
UniRef90_U2UU79 R R L G I S R R E K A G E L S R E K R R E I E T L F R D F C F T I R G T A S F R
UniRef90_R5IVQ7 K K T H L K R D L L L T T L T D N E L N N L K T L T D F Q M L E L L D T H T L D
UniRef90_UPI000471D144 D K A G I N Y L P K S W T N H A L E D L E R Q A H A W K I V P A G T E G F P
UniRef90_UPI000464F1CA D I C K I D K D T K S S D I N M K Q I K A L S H Q L N S W R L K V I D T Q G F S
UniRef90_D1AFQ9 K R S G I K L S S V E K L S D E R I T K A F L I K N Y D I K L Q E T T G F R
UniRef90_UPI000478BC54 V S Q N L E D K S V S K L T N E I E K L K L L K N Y E F S P A G N F G F T
UniRef90_Q30R66 E L S G I K T D L T Y G K I S G E C R A K L I K L L A W T P L S I V I G H E G F K

UniRef90_F3KPY7	K A E V T
UniRef90_A0A024DGB1	K S F V T
UniRef90_UPI00031F3A0B	T A E V T
UniRef90_C1F7V7	K A E V T
UniRef90_UPI000475F7CD	T A E V T
UniRef90_UPI0003B686A8	K A E V T
UniRef90_D9R196	Q A Q V C
UniRef90_UPI000255B0D6	D E F V T
UniRef90_A4AU19	E E F V T
UniRef90_T2KRR8	E E F V T
UniRef90_N9WGA9	A A M V T
UniRef90_F2JYX9	T A E V T
UniRef90_UPI00035DE212	D E F V T
UniRef90_A3SX48	T A E V T
UniRef90_G5JRC2	K S F V T
UniRef90_A0A059DVV3	T A E V T
UniRef90_UPI0004717FFE	K A E V T
UniRef90_U4T142	T A E V T
UniRef90_F7JIV2	Q A Q I C
UniRef90_H6L5Y7	D E F V T
UniRef90_I0ID66	H A E A T
UniRef90_UPI00036C0574	K S F V T
UniRef90_R9A0C0	D E F V T
UniRef90_Q5FTW5	K A E V T
UniRef90_D5BQI6	T A E V T
UniRef90_E4SRE6	K S F V T
UniRef90_M2ZV33	T A E V T
UniRef90_S8DMM1	D E F V T
UniRef90_L8UFX6	T A E V T
UniRef90_M1FGS8	T A E V T
UniRef90_A6VYE5	T A E V T
UniRef90_K5CBH8	E E F V T
UniRef90_D1B046	S A E V C
UniRef90_M5UBY2	K A E V T
UniRef90_A5FP72	S A V V T
UniRef90_T0DSQ1	A A M V T
UniRef90_S7V755	
UniRef90_UPI000365F821	E E F V T
UniRef90_R6CD46	Q A Q V T
UniRef90_UPI00037320A1	T A E V T
UniRef90_W0AG78	K A E V T
UniRef90_E6WZR5	K A E V T
UniRef90_V2USG6	T A E V T
UniRef90_K2BP05	D E F V T
UniRef90_G9QVX3	R A E V T
UniRef90_F5WU52	H A F V T
UniRef90_D2UCU0	T A E V T
UniRef90_A1SZ97	T A E V T
UniRef90_UPI00036C8B54	K A E V T
UniRef90_E0NMH9	N S Q V T
UniRef90_F2JR18	I A M V T
UniRef90_J0S0J9	I A M V T
UniRef90_F0JGE8	K A E V T
UniRef90_R6V5X5	Q A Q V C
UniRef90_R6LWG2	N A Q V T
UniRef90_V2TSQ2	T A E V T
UniRef90_UPI00035CF1EB	T A E V T
UniRef90_H0UIR8	W A I V T
UniRef90_UPI0003B39090	T A E V T
UniRef90_R7R7P6	N A Q V C
UniRef90_A3CY60	E A M A T
UniRef90_F2I9M6	E E F V T
UniRef90_E4TWA5	H A E V T
UniRef90_U2VKD4	E E F V T
UniRef90_UPI00047C944B	M A M V T
UniRef90_A5EX33	K A E V C
UniRef90_A3TZB5	T A E V T
UniRef90_R7QVQ8	A A Q V T
UniRef90_K2B783	D E F V T
UniRef90_UPI00046FC30A	K A E V T
UniRef90_A0A023D558	K A E V T
UniRef90_E0UTU5	M A M I T
UniRef90_U2ER40	T A E V T
UniRef90_I2K9Q1	K A E V T
UniRef90_J3CXT7	K A E V T
UniRef90_UPI00046E5211	T A E V T
UniRef90_Q0FCG4	T A E V T
UniRef90_UPI0003710D86	T A E V T
UniRef90_T1A5N0	T A E V T
UniRef90_M1A9M3	D E F V T
UniRef90_UPI0004662EEF	K A E V T
UniRef90_Q1IUN2	K A E V T
UniRef90_B9DVQ5	K S F V T
UniRef90_A0A024HEV1	
UniRef90_D4CLM1	Q A Q
UniRef90_U2UU79	E A I I T
UniRef90_R5IVQ7	H A Q V C
UniRef90_UPI000471D144	A A F V T
UniRef90_UPI000464F1CA	H A E
UniRef90_D1AFQ9	N A Q V T
UniRef90_UPI000478BC54	K A E V T
UniRef90_Q30R66	M A M I T

UniRef90_T0L3S8 1 P A M M P L H T K E G W V K N C R A D T I A K A E L R V D M K K Y K K L K A G D
UniRef90_F5ZK42 A E S P L L T D F P H K A L Q G I D L D D V T L S Y D K H V I T H K D D
UniRef90_A2C1G0 P S L F S F S T V D S S L K D C S G I T G L D V V K L N V N K K Y F E E K G P
UniRef90_R7MKG2 P A N A P L K V N P T D L K G L K G V R I R G K A S A Y S D G K L D E E Y K G P
UniRef90_R6UG07 P S L V Q V P C S N K C L A N G L K G L R A K G T S L V T G D K I I K E E A G E K E
UniRef90_UPI0003807072 P G L V P L V F S E D R D H W C D L A G V S A E V V A A R T R T Q G R G T F F R E K E
UniRef90_R5WZS9 P S L V P L E T S E M P D R E F H L L Y G L A R N I S A K L G T A V T E F F R E K E
UniRef90_R6NYJ9 P A L V P L V A A D P A E V R P L K G I R A A N V S L R L G G K S A S S Q G G E
UniRef90_E6X3L7 P A L V A L E T S E E A W P K K A A G V K V R A R V R L A A S G Q T V K E C D D G D
UniRef90_UPI00016C47AB P A L V P L T V Q P E E W V G E L R G I T L P D V N L K V K V G K A L T Q R R R G S
UniRef90_R6DHY7 A L T S I V L E G N F M K K W S G I R I H G V F L Y D Q D D E A K D R R G E
UniRef90_R5V7I3 P A L C F L K T K T E F L V R A L K G L R L A K V S L Y E N G G L K R S E
UniRef90_N9A419 G L V P F T F S D Q F K E T T R L S G N A L D A K V S A T L S N H K N S F T E A
UniRef90_U7DCW2 P A L T G F T L L P P Q K W L T T L S G L S L E A E I T V G K K L L R S G P
UniRef90_Q2QLK5 P S L F T F K L T D K R A A D L S G V T F P I V K A K L K L D G I K R S G P
UniRef90_V6Z381 A E S P L L T D F P H K P L Q G I S L D D V T L S Y D K H I I T H S D
UniRef90_D1B355 P A L V G L T L Q K E Q F W M K E L S G I S L D P D D V T L S Y D K H I I T H S D
UniRef90_UPI00046FD68E P A L V G L T V Q K P E F W M K S L S G V S L K G T L K V V S R L L D G E
UniRef90_F5T5B6 P S L C P L T V Q P E F V K A W A G V R V D T E L S L F K L L F K D R G E
UniRef90_R5DQ50 P A L C P V K V K S D V L K I L K G L R V T G K A Q L Y G E H I K E E T G G E
UniRef90_F7KAR5 P A L V Q L R C A G N F W K G L A G V R T E A T E G K G K G E E Y E Q G E
UniRef90_U7UEF7 P G L T Q L K L K S D F L K H L S G T K V I G E C K L I K D G K V V D K K Y G D
UniRef90_L8H1B0 P A L T P L T G P H P G G N Q L A G V S L N V G V T A E A R T D A H R T G
UniRef90_UPI00047DB436 P A E V P L V S N D S F I M D K T L Q G L S F K D V V L R A G K V L K E Y K H D
UniRef90_J4WE57 P S L V S I N E T I Y D S N L S G I S I K N V S V R A N I D G K K Y S G D
UniRef90_R9JB23 P A L V Q L R C K D H F L K I T A G V R C E E K K G G I R E L L Q E E E G E
UniRef90_B8DL83 P V L V P L V M A P Q W P L H G L A G V A L I P A R V T T A G T A F T L P
UniRef90_R7HYQ0 P A L V G L K T A E D F S S L S G V S L P V A I R G A G E A A G S
UniRef90_C4XKB7 P A L S P L R V R D Y F F Q E L S G I S F Q N V K I T W K E N I E K K G A
UniRef90_U7VDS6 P A L V P L Y R L D P D S A A L E L S G I S L P N V G L E R A W P E H T W E D D
UniRef90_G1UNL9 P A L C G F E A E G M E F S K V S G V R T D A L I L S L G Q N C K Q E R G E
UniRef90_R5UKE6 P A L T A L E C G Q K D F F Q K N S G V R T D G K I L L S L D H I L A E D T G E
UniRef90_R7IN10 G L V P F V F N E D Q Q F G Q L R G I S I F C R V L S N H Q A S F D E N
UniRef90_A0A029RT42 P A L V G L T V Q K D Q F W M K E L S G L S Y V N T K V D D R L D E D
UniRef90_B6BIH2 P G L V S L R S D A S F C A L A G V S Q A K I S L R I D D G G E A S E T G E
UniRef90_R6ZCF5 P A M M P L R T R E T W A E C R A D T I P K V E I R I D P K K N I R A F G D
UniRef90_K7S3J1 L S P L Y M N D P D L R Y A K G V R I D G T V T L Q Q N K E Q S W R E S G Q
UniRef90_R5ECC1 P A L V G F T V Q K E Q F W F K E L S G L S M P V N T I F V I E D K K I V I G N
UniRef90_UPI00047CEF28 P V L T G I C C E D L P E A L S G I R V K G K L S L D K V V F S E H G E
UniRef90_E3GLH8 P A L V Q L R C A G S F F K S V S G V A Q A G I T L Y I D N T K A A F E G E
UniRef90_R9KIPO P S L V G F H L D S S F A H K M S G V K V G D V T L L I N K K D I S T N G D
UniRef90_B6BNR6 P A L V G F T V Q K E Q F F K E L S G T S T E V V I N V N G Q T C E G S
UniRef90_A6Q8H7 P S L V Q L H L D S K I V K K M S G A K V D G E V T L F I N S K K E L T C N G D
UniRef90_Q30SJ8 P V L V P L V M P E G W Q L G G L Q G I S L E A G S T G G V S F V R D
UniRef90_A1VC61 P S L V Q L T S P D K Q L R Q L K G M R V H D A V I S A A G R T S V R E
UniRef90_R6HX54 P A L T G L K C Q N S S L S L W A G V R T E A V Q L F I G N L S G K E T G E
UniRef90_R5X316 P A L V G F K C D D D E I L P E N G V R C T A E I S F L L G N E A I A T E Y G E
UniRef90_UPI00047C68C7 P S L C G I R G K D N Y A K W A G S R M D G R I L T L E I D G E T V G E Q G E
UniRef90_R7EEA0 P A L V G L T V Q K E Q F W M K S L S G I S F N A K L S V E D K V L E S D
UniRef90_UPI0004688F7E P D L V P L T T D A A W V H S L S G L D W S F M Q L S F D K Y R L K K L G K
UniRef90_K2EQ57 P A M M P L K T K E T W E N C R A D T I A K V A M H V N M K K Y R L S A K G D
UniRef90_I2K904 P A L V P L T K P V L L R L L K G I R L S A E V T A I S E N G T V L A D T G E
UniRef90_U2KX57 P A L V G L T V Q K E Q F W F K E L S G I A F E A T V R V G K K E F R D N
UniRef90_A6Q3Z6 P A L V P L V M P A H W P L H G L S G I S L P A A V T C G K K T F T E P
UniRef90_Q311R9 P A L V A L N A E D D T L P K D S G V A L A N V T F Y L G D E V I A E Y G E
UniRef90_UPI00041C1F57 P A L V S L K S E W P L L E D L A G L R L A G I Q L L I D G R E A A D Q G E
UniRef90_UPI00046F5F05 P A L V G F K C D Q N E Q M P E N G V R C T A E I S F M L G T E A L A V I E Y G E
UniRef90_C4GB39 P S L T A P L M P N G Y D S K L E S L L L K N V T L K L K E L I Q E E F G D
UniRef90_E0RUL0 P A L A P L Y L T N P P G S E S G I A L R S V T I S S G K E K S S R N G D
UniRef90_K1Y0E7 P S T V P L V V K D P L C H L L L Q G Q R I A R A Q S R I R G K A G T P V D G E
UniRef90_Q3B3U7 P A L C P L F C E N K R F F K K V S G V R V R A E L N L D K F V F S D I G E
UniRef90_D2BGC3 P A L A S L K G K G N Y F S K W A G A R M E G I Q L E I G K A G K K E R G E
UniRef90_G5GGJ6 P A M L P L I S K E K W A S C K A D T I A K A E L R I D L P K A K K K A V I G D
UniRef90_R5RCZ0 P A L A S P V I K N Y K F K L S G I S L R D K E L S W N L L K T W S A D
UniRef90_D5V156 P A L V S L L S E D E T L P T E S G V A L A R V T F S M I G D G E I K E Y G E
UniRef90_E3DNS6 P A L C A V M T E E N T E A V K G V R V A C S A W E E G N T E W K Q S G E
UniRef90_UPI0003B688BB P A L V G F E L S A P D A E L C A R L A G T A L P A R I E T G G T V H L D D
UniRef90_F4GJK7 P A L A G L K T K E D F S S L S G V C L N D V I A L E L I D G N I V E E T G E
UniRef90_R5X8R8 P A L V Q L K S S R H T R A L S G T R A K C I A L E L I D G N I V E E T G E
UniRef90_UPI00040E1FB8 P A L V G L L S E D D T L P A K S G V A L A N V T F L I G D E V I S E Y G E
UniRef90_A5GPW1 P S L F T L R V I Q A P W L N A L A G L S Q S P V A L S V G E E R F R Q Q G I
UniRef90_Q9FLE1 P S L F T F K L N D P L L T E L A G I S F S K V Q A K L K L D N L V I Q I T G P
UniRef90_C2BGX5 K T A N P L S K K A K G V R S A R A R L F V D G K F I E S T D D
UniRef90_UPI000478FACF P A L V G F K V D P E E V M P Q G G V R M A E I A F S L G N E I I S E Y G E
UniRef90_X1FPQ7 P A L N P V K T S G K W P K E L Q D L S L K N V S L K L F Q N G K E R F G E
UniRef90_R5NK87 P A L C G M E V K K D K P P K Q F A G V R W K N A S L Y I D N D R I T E S G E
UniRef90_G4D3K6 P A L T Q V T S E S K D L K S I S G V K V K P R L Y I D D E L V Q E E E G E
UniRef90_UPI000289F6CA P A L T Q I K L D S K Y L A H H L S G T K V I N V K F Y K E D K K I D E R G E
UniRef90_T0J2Y3 P S L V Q L H L N S T I A K H K M S G V K T G E V T L V N N K K D I S L C G D
UniRef90_H1LTZ6 P A L C G L K L D D K P F F K V T S G V R A K G L A V Y C N K K I A S D F G E
UniRef90_UPI0004736AEC P A L S P V I A E P F P F S S L A G I T F P A L P F S L W R N I M E G N G D
UniRef90_A7I835 P A L V P L T G A H P G G E M M P G V S V D V S L I E C K K K S K A S R E G
UniRef90_C1MRP5 P A L T P L T G A H P A G G Q L A G V S M Y G I E A S V R R P K F S E R T A
UniRef90_D8U814 P S L V Q L K T D M S K K G L K G K V K V A L S V R C C G V V I E N G D
UniRef90_R6GYK3 P S L T P L V S L H P Q L R E L H K L L R N I R A T L G E A V R E E F G E
UniRef90_UPI0003021ED7 P T E V I T S S E T F I K S N R L K G L S L K D V N L S V G K K R V S H Q M D
UniRef90_J0EL23 P A L T A I E I R E D L R E L R G V R V K S A V S L G D L V R E R E Q G D
UniRef90_R6EZM1 A L A P L Y T L N A P P A S L S G L A R S S L T S G G R S V E R R G D
UniRef90_B4SH80

UniRef90_T0L3S8 L I F T N R G I L S R G P V V L D F A R E I T P L L I D K Y K E V K I L L V N L I T K 80
UniRef90_F5ZK42 L L F T H F G L S G P A A L R L S S F V S G G E I A T R L D F L P
UniRef90_A2C1G0 I L I T H N K A F S G P V I L R L S A F S A R N L Y D N K Y K A E L R I L N W L C
UniRef90_R7MKG2 I Q F N E N A G L S G I C V F Q L S W Y V S K Y F S R K N K D N I A F Y L D L T P
UniRef90_R6UG07 I Q F A K G A L S G I C V F Q L S W Y V S K Y F S R K N K D N I A F Y L D L T P
UniRef90_UPI0003807072 M L V T P H R G L S G P A I L Q R V S S Y W R P G E A I E V L D L A P
UniRef90_R5WZS9 M S F S P R G V L E G A V V L R M S R T A V D A L I E G H R V E L S V D L K P
UniRef90_R6NYJ9 I L F T D S G I S G I A A M E L A S H I A D K Q K A F T H I D F I P
UniRef90_E6X3L7 L L F T D Y G V L S G I L A V L D L S R E A S L R L A E W E P C D L L E D L L P
UniRef90_UPI00016C47AB M L F A H F G L T G P A P L D V S R A V S G H A E P R S L T L E A D F L P
UniRef90_R6DHY7 I Q M V A Y G I S G I P V F Q V S R F A A V E L Q K K R K P Y L V L D S M P
UniRef90_R5V7I3 V Q F T E Q A L S G I C I F N L S A Y C D K L S H A T Y T V A L D L L P
UniRef90_N9A419 L L F T H R G L S G P S S L Q L S N Y W E S G E N F Q I D D F F P
UniRef90_U7DCW2 L L C A H R G L T G P A A M N A S L Y W E K G P I H I N F L P
UniRef90_Q2QLK5 M L V T H F W G L S G P V V L R L S A W G A R E L H Q Y N Y Q A K L T V D D F I P
UniRef90_V6Z381 L L F T H F G L S G P A A L R M S S F V R G G E L L S L D D V L P
UniRef90_D1B355 L L F A H K G I S G P C V L S G S L Y W K K G N L C I D F L P
UniRef90_UPI00046FD68E L L F T H K G I S G P V A L M N A S L F W Q K G E C E L N F M P
UniRef90_F5T5B6 I Q C T E Y G I S G I V V F Q C S R L V H E L L E K N G K A M L S L S F F P
UniRef90_R5DQ50 I Q F T E N S L S G I C V F N L S L F A K P N D K I V L D L L P
UniRef90_F7KAR5 L Q L T D Y G I S G I P V F Q L S R F A S A A L S Q G R K V K A T I D F L P
UniRef90_U7UEF7 L L F T D Y G I S G P I F D L S Y V S L S N E K F F I E L P L I N
UniRef90_L8H1B0 F L F T H R G Y S G P S I L D L S H H A V E G L R E A A D G T T A I T V N W C
UniRef90_UPI00047DB436 L L F T H F G L S G P A A L R A S Y E V S K I L E K E K E A K I L I D F I P
UniRef90_J4WE57 M L F T Q K G L S G P A I L M D M S S Y I V K F Q D T Y K G K N L Y I S I D F M P
UniRef90_R9JB23 V Q F T D Y G I S G P I P V F Q L S R Q A A Y L T I E E G K A A A V S I D L L P
UniRef90_B8DL83 L L F T H R G I S G P A A L Q I S C Y W Q P G Q P V E L D F L P
UniRef90_R7HYQ0 L L F T H K G I S G P E V Y K I S S L R A R D K F P Y K L T F D F V G
UniRef90_C4XKB7 L L F T H K G V S G P A V L D A S M F W R E G A L A I N F L P
UniRef90_U7VDS6 V L L T H T N F S G P G I L D N S R F V E S E S Q L E I N Y I
UniRef90_G1UNL9 L L F T H D G L S G P A A L K A S L F W R P G A P M R L D F L P
UniRef90_R5UKE6 L Q L A D Y G I S G I P V F Q V S S P A S K A L Y Q K K Q A E L T I N F L P
UniRef90_R7IN10 L Q L T A Y G V S G I P A F Q V S R Y A A Y A L R Q K K P V Y A Q L D F L S
UniRef90_A0A029RT42 I L F T H K G L S G P A I L Q I S S Y W N S G E S N I S I D F L P
UniRef90_B6BIH2 L L F A H K G I S G P A V L S A S L Y W K K G L I S I D F L P
UniRef90_R6ZCF5 V Q F T D Y G V S G I P V F Q F S R Q A A Y A C S T G Q K T E V L M I D F M P
UniRef90_K7S3J1 L L F T Q N G I R G P V V L D V A R E I T P L I E K Y G S V P L M I N M T K
UniRef90_R5ECC1 I Q F N E T N V S G I V I M N L S C H L P Y F T E A E C H N A L H I D C L P
UniRef90_UPI00047CEF28 L L F A H K G F S G P A V L T A S L Y W T K G K I K I D F L T
UniRef90_E3GLH8 V Q F T D Y G I S G I C V F N L S R Y L K Y L G E E K L E P Y T I V L D L A P
UniRef90_R9KIPO L Q L T D Y G I S G I P V F Q F S R M A A R A L D C G K L C E A G I N F L P
UniRef90_B6BNR6 V L F T H K G V S G F A I L D I S Q R A S V A L M E Y A K V D I S I N L L P
UniRef90_A6Q8H7 L L F A H K G V S G P A V L D A S L Y W E K G K M E I D F L P
UniRef90_Q30SJ8 L L F S D Y G A S G F A I L D I S Q G A S V A L M E H L H V S I S L N L L P
UniRef90_A1VC61 L L F T H R G V S G P A A L L A S C H W L P G M P L Q F D F L P
UniRef90_R6HXS4 L L F T D Y G L S G I A A M E I S A D I A K A A K R S P V S A S L D L I P
UniRef90_R5X3I6 V Q L T E Y G I S G I P V F Q L S R Y V A R A L A E S K K Q V Q L S V N F L P
UniRef90_UPI00047C68C7 L Q L T K D G I S G I P V M Q A S G K V E K F L S E G K P L Y A S I N F F P
UniRef90_R7EEA0 I L F T E Y G I S G I G V F Q L S R Y A V R G T D E G K I A T Y H L D L M P
UniRef90_UPI0004688F7E L L F T H K G I S G P V V L S G S L Y W K K G K I S F D F L P
UniRef90_K2EQ57 L L F T H F G I S G P L V L N S A H E V K K L L A S T G P V T A S I D F L P
UniRef90_I2K904 L L F T K G G I R G P V V L D F S R E I T P L L S K F D E V P I L A N F T K
UniRef90_U2KX57 V Q F T E R T I S G I C V M N L S A R E I T P L L S A C V G Q E P A A I C L R L L P
UniRef90_A6Q3Z6 I L F A H R G I S G P A I L N A S S Y W E K G A I E I A F L P
UniRef90_Q311R9 L L F T H R G I S G P V T L N A S S Y W K P R Q P V C I N F L P
UniRef90_UPI00041C1F57 V Q I T S K G L S G I P V M Q A S G V V A G H L S K G R P V T A S I N F F P
UniRef90_UPI00046F5F05 I Q C N R D G I S G I P V L Q V S R D A S Y A L N E G S L V S A R L L I L P
UniRef90_C4GB39 L Q F T R D G I S G I P V M Q A S S K I V K F L A E G K P T Y A S I N F F P
UniRef90_E0RUL0 I E F T N N G I E G P L G L R I S R K A V K A L Q N G E K V S V S L D L K P
UniRef90_K1Y0E7 V L F T H R G L S G P A A L S R D V A R I M Q T T G S C M M T A D L F P
UniRef90_Q3B3U7 L L F T K Y G L S G S L I L D I S Q E I S L A I N R L D I K D V S L E I D L I P
UniRef90_D2BGC3 V Q L T D Y G I S G I P A F Q L A R F V S K A L S K G E K T E L S M N F L Y
UniRef90_G5GGJ6 I L F T E Y G I S G I L A V F Q L S R T A V R A A R T G H T V T C C L D L M P
UniRef90_R5RCZ0 L L F T S K G V R G P V V L D F S R E I T P Y L E K Y G E V P L I N M I R
UniRef90_D5V156 L L L T H R G L S G P G I L N Y S R Y L K K G D L I K I K L L K
UniRef90_E3DNS6 V Q I T S K G I S G I P V M Q A S G T V A E H L S K G R P V T C S I D F F P
UniRef90_UPI0003B688BB V L F T H D G L S G P A I L T M S R W C H H G D I V R I S L I G
UniRef90_F4GJK7 L Q I T E Y G I S G I M I F N L S S E L G R I L L S E E S S V K L Y V D F L P
UniRef90_R5NXD4 L L F T H K G I S G P A P M Q A S L H W K P G A P L I V D F L P
UniRef90_UPI0003741C79 L L F T H Q G V S G P A I Y K I S S I R A R D N F P Y K L K F N F I G
UniRef90_R7LLT4 V L F T D Y G L S G I A V M N L S Q A A A K N F A K K E P Q K C I A V L D L V P
UniRef90_R5X8R8 V Q I T E K G V S G I P V M Q A S G I I A E H I S K N R P V T C S I D F F P
UniRef90_UPI00040E1FB8 V L L T H W G L S G P G V L R L T A F A A R A L Q Q Q R Y L A E L R L N W C G
UniRef90_Q9FLE1 M L V T H W G L T G P A I L R L S A W G A R Y L F S S K Y K G H L I V D F I P
UniRef90_C2BGX5 V I F Q A Y G L T G T A I L D L S N H I S Y A L L D K K E V W V S L D L L E
UniRef90_UPI000478FACF L Q F T K D G I S G I P V M Q A S R E I V K F I E K K P V F A I I N F F P
UniRef90_X1FPQ7 M F F T H F G V S G P I V M D M S K N I G A L L K N G P V K L I L D L K S
UniRef90_R5NK87 L Q F T N Y G L S G I V I F Q L A M V S R A L E N N R K A T V L I D F L P
UniRef90_G4D3K6 V L F T D Y G L S G P P I L N L S A K A V N L K S G N K Y I K F S L V N
UniRef90_UPI000289F6CA I L F T N Y G I S G P P I L D L S V N V T E N N F E V P I S I N N V D
UniRef90_T0J2Y3 L L F T N Y G V S G F A L L D I S Q R A S K A L L E Y A K V G I S I N L L P
UniRef90_H1LTZ6 L Q F A D S G L S G I P T F Q V S R Y V S K L L Y E R K S V S V R L D M F S
UniRef90_UPI0004736AEC I T H W G F S G P A V L K L S I I A A R E L Y S Q K Y K F N L I K W S
UniRef90_A7I835 L L F T H T G L S G P G I L D C S R D I R A G D E I R I A F S G
UniRef90_C1MRP5 F L F T H R G Y S G P S V L D L S H N V R P L A R L A R E G G A S E R D L V V
UniRef90_D8U814 F L F T H R G Y S G P A V L D L S H Y A V K A L A R G H G A A A A I H V N W T H
UniRef90_R6GYK3 V L F T E Y G V S G D A I F R L S A Y R P S E I N I D L L P
UniRef90_UPI0003021ED7 I G F S E R G I E G A V A L R M S R D A V D A L I D G R R V K L S L D L K P
UniRef90_J0EL23 M I F T H F G I S G P A A L R C S Q F V Y K E Q K N Q K K N L H M Q L D V F P
UniRef90_R6EZM1 I Q F R E D C V S G I C I L M N M S H L K T G E E K D A L A D C R I T V N F V P
UniRef90_B4SH80 L L F T H R G V S G P A A L S L I R D I A E L T I G E T G N C A L F A D L F P

UniRef90_T0L3S8 G M N E D D I L K H I R D E A N K N P N S S M L N I V K T L L P D T L S S E I I C
UniRef90_F5ZK42 K M T Q D D L V H Y L E D N R G K S L K N A L K G L V P P E R S L V A E F I A
UniRef90_A2C1G0 M N E N E A R L K I D L Y K L E N G K K L V F N Y K P F D L P N K N L W K S F L
UniRef90_R7MKG2 D K S F A E L I D I L L S E L R K L I N E H N T A E N Y L T G F F N K R N M A H Y L I
UniRef90_R6UG07 N F T Q E C F A L L S E R A N S L H W Y K L S N F F D G F L H K R V A A A L Y
UniRef90_UPI0003807072 D I L V T A P L I A R N A R R D S A A A V L A L R A V L P K R M A E R W V
UniRef90_R5WZS9 A L D E A T L R E R I G R E T G E G P E A P M A D L L R R V L P K E L V M P I A
UniRef90_R6NYJ9 E L D L K A L T J E Y I E N L R N I R G E R T L D D L L S G I L V K Q L G V Q I C
UniRef90_E6X3L7 Q W S K E R L T A F L T K R I D P H R R L P I D L W L E G V L H R R K L V P L L
UniRef90_UPI00016C47AB T E P E Q A F N D F L Q A E S L A S G K K Q L A V V L A D K L P R R K L A D Q L L
UniRef90_R6DHY7 D Y S E E W I V K Q I V R R V E W N S K Q S F G D V L E G L P D K L G L V L L
UniRef90_R5V7I3 D W D L E Q V Y A F L W E L Y A L R G T L S V E E F F T G V F Q R K I V G L Q V L
UniRef90_N9A419 S H D L I D F F K K K Q Q Q P K V L L R T L L S E L A A K S I V L E L L Q
UniRef90_U7DCW2 A T P L S Q C I S K A G N R S I S T A L P P K R F V K A F L
UniRef90_Q2QLK5 D H I E D V K R L L F L H K D H H
UniRef90_V6Z381 K M T I D D I S Q Y L T G N R D K S I K N G L K G L I P E R L A E F F S
UniRef90_D1B355 H I S S M E A L F K T H A K K Q I T T A L G L P K R F S K A F L
UniRef90_UPI00046FD68E N F N L K N I R N S A R K Q L V S V L P P R N F I K A Y L
UniRef90_F5T5B6 E F K E E F L R F L L K R K E E R S A Q Y G R D F L J A L L P D K R I V S V L F
UniRef90_R5DQ50 D Y S E N E L I K I R Q H I S L F S D L P C E Q L L T G I F Q K K I G Q A I L
UniRef90_F7KAR5 A F K D D D W Q A L I K K K R D C R P R S M E V L F N G L V N K K I I Q T M W
UniRef90_U7UEF7 E V D K N F S D F Y F S C I Y M N P D F S I E R F L T G L V N K K F I H Y L L
UniRef90_L8H1B0 D M S E E S W R G L F L S A L A K G G S A T R S N M L G E R M P H R L A L A L C
UniRef90_UPI00047DB436 S V N I K D I V E D D Y K H L P E R M L I K Y L E
UniRef90_J4WE57 Y I S K N Q L E D I I F D S S K K A L K T K L S A Y L H L P E R M L K F L L
UniRef90_R9JB23 Q M D R Q E F E M C G Q R M E N A Y D R T L E E F L L G L A N K K I I N L M M I
UniRef90_B8DL83 G E N L D E R L R A P E H G K L L V R T L L G R L L P D R L A E R F L V
UniRef90_R7HYQ0 E I D L Q S E L N S N P H K S I K N L G E Y V P K S L A E F C L
UniRef90_C4XKB7 G C D V I E A A L A E N P R L E V K N A L A R L V P K R L A L A L A
UniRef90_U7VDS6 G K E Y E L N K E L I E E M N K D G K K T I K K V L A R Y L P E R F I K T I L
UniRef90_G1UNL9 G R D V A A L L D A P E A G R Q T P R A L A R H L P Q R L A D A L L
UniRef90_R5UKE6 D F S E D M L A Q E L Q R R F R D A G I Q D A A E S L R G L L N H K L I P V I L
UniRef90_R7IN10 E F S F V I L Y D K I Q I V R K R Y P E S K I S D V L S C I E N R K L A E S F L
UniRef90_A0A029RT42 N I K I T D F L N N K K D Q G T K T L K N T L T E L P K N F V I A T F F
UniRef90_B6BIH2 N K N I H E L I N G S K K L V S S V I P L P K R L S V A I L
UniRef90_R6ZCF5 E Q E P K V F Y Y N C R L R F E A L G D L T I E E F F T G M L H K K I N M V L
UniRef90_K7S3J1 G L N E E Q L R A H I K K A I D K N P E Q P I L T H I M T L L P E S L C R A L C
UniRef90_R5ECC1 A W S W N E L H D Y L L Q Q A C S A P Q E S I R T L I Q G I F P N G F V I T Y L L
UniRef90_UPI00047CEF28 N N N L E K L L S G N K N I S T A L G L L P K R F T Q E F L
UniRef90_E3GLH8 E R S F A M L S S W R R D T V L G E K A C V D A V S G I I K P L A D L L L
UniRef90_R9KIPO Y V E D R A S F F K K N A S L K R W D Y K T V E S L L S G M V H K K L A A M I C
UniRef90_B6BNR6 S F N A Q K I R S T H I S N L A K A I P D F S A L L D V L A G L V P L K I A Q G L L
UniRef90_A6Q8H7 G F S W E S I R K S P K Q L S S L L P M P K R V T K A F L
UniRef90_Q30SJ8 A F N A Q K L S S H I S S L A Q N M P Q F T I L D L L A G L V P L K I A Q A L L
UniRef90_A1VC61 G V D I P A L C E S P D H R R Q L V R T M L T R L L P E R L A T R L I
UniRef90_R6HXS4 S M G E R E I A D F L S G L G G K C E D M L I G I L P R T V G A V I
UniRef90_R5X316 E Y T E E L K Q L M K K R K E L C P Y K T E E E L F A G L L P D R L V R L L M
UniRef90_UPI00047C68C7 D Y D D E D Y S S L V K E M M R F R D D R T L L E F L N G Y H N S N V N E M V T
UniRef90_R7EEA0 Q I T K E E L V K L L D R Q Q A G S Y K N T Q E L L I G L L P R K M I D V L V
UniRef90_UPI0004688F7E N I D L S K L L E K K S K K Q I S S L I P L P K R F M T E F L
UniRef90_K2EQ57 D T P D H E L D K R I L K L E F E K N T N S K V K N V L P E L I F K N I C L E I L
UniRef90_I2K904 G M N E E Q I R H F K Q E L L K D P H R N T L Q L L Q T L P E S V S L E L C
UniRef90_U2KX57 E I P E Q R L L P L L W E L Y G V R T N W K L E D W L T G L L P K K A G I Q L L
UniRef90_A6Q3Z6 K R L P R F V P H K Q I S S Q I P L P K R F V K R F L
UniRef90_Q311R9 H E D T A A L L R R G G K G K T G N L L C R L L P E R L V T S L L
UniRef90_UPI00041C1F57 G Y N D D E F D N L V K T M L E L P G E R K I L G E L L D G F C N S N I N E M I L
UniRef90_UPI00046F5F05 D L R L H E T E A K L R D K L E A E P K K A I R N A L K G L L P E R L T P R L L
UniRef90_C4GB39 W L A M E Q R E K L S E L F E A G R Q K E S L E S C L Q G L L P G R L L G L L K
UniRef90_E0RUL0 D Y D D E D F L S L E K E M L R L R D D R S L K E F L N G F Y N S N I N D M I V
UniRef90_K1Y0E7 A L S E T Q L I N R I N R E F D S N G K M R V Y E L L Q R L L P K Q L T E T Y L
UniRef90_Q3B3U7 S H E V S A L E E L L L H A A R N G S Q M V R K F L H G T I P T A F V G C I L
UniRef90_D2BGC3 F I E P K Q L E T E L L K R R K T G L S P D E M L T G I L P S K L C M A F K
UniRef90_G5GJ6 F V K N Q K E Y F K K R V N M E T L E E A M L G N G L L N K K L W L A L L
UniRef90_R5RCZ0 D F T E E E L L A F L K E R Q S A C P Y K S L K E L M I G F L P Q K L I S V L V
UniRef90_D5V156 G K N E E E V R A H I N S E I K S N P D S T I L E N I S S L V P Q S V A N E L C
UniRef90_E3DNS6 Y N Q A E L E K N L K R I L K R E G R L N V N L L Q Y L A Q R L I Q K I L
UniRef90_UPI0003B688BB G Y S D G E F D A L V D R M M C L S E E R K V G D L L D G F C N S H I N E M V L
UniRef90_F4GJK7 N L S R E E A C T M L M D T F G Q S P H R Q V S T V L K E G L T S T L V S L V M
UniRef90_R5NXD4 E L E N A F V Q E S R D V N R S L Y G Y L N A Y L P D K L A M Y I L
UniRef90_UPI0003741C79 G Q Q L T E L V E N N R G P M K L G V N R S L Y K L E K H L P K R C V I A L L
UniRef90_R7LLT4 D I D F Q S A L N E N P H K S I K N L T A D Y V P K S F A E Y V L
UniRef90_R5X8R8 E L K E E F L S H I K K F G N L K G V L G T K I L A T I E
UniRef90_UPI00040E1FB8 Q Y S D D E F S N L I K G L I S L P G E R R L S E L L E G F C N S N I N E M I L
UniRef90_A5GPW1 G M N E S V V R D E L S Q A R Q G L A K K Q L A N G R P E L L R R R L W L A L L
UniRef90_Q9FLE1 D I N I E T A K S V L K E H K
UniRef90_C2BGX5 A Y P E E K L A R I T K N L E R R N P N K T I E E L M G F L H A K I I D V L L
UniRef90_UPI000478FACF D Y D E V D F T A L K N D M L R L K D E R T L S E F L N G F A N S N I N D M I L
UniRef90_X1FPQ7 A L D F K K L D K R I Q R D F Q E F R G R I F K N S L K G L L P L S M I P V I I
UniRef90_R5NK87 E Y D I N E L V N A V C M Q Q Y A Y E K K S V Y D L M G I I N S K L A M E L I
UniRef90_G4D3K6 Y S D E K I K D E L Y N M Y M L S H Y S L K R W L T G I I D K K L V G Y I C
UniRef90_UPI000289F6CA E N T K E M L Y S R Y Y M F P D E S L E E F L T G I V D K K F V H Y I I
UniRef90_T0J2Y3 S Y N T Q K L S T H I T N L A K A M P N L S V F D I L G L V P L K I A Q G I I
UniRef90_H1LTZ6 H I G D I E K L N S R R N I P S F I T M E D L G N G L I N S K L W L G I L
UniRef90_UPI0004736AEC S L S Y K E L K E K V N S L R L N K S K V N I L N S R P V P L T K R L W L F L L
UniRef90_A7I835 S V R R D A L E R E I L A A I A R S P S K A I K S V A A G G I P E R L A R L L P
UniRef90_C1MRP5 N W S G E S R E M W Q T R L T A P P G K A L V A T R L R D A L P Q R L A D A L L
UniRef90_D8U814 E S A E V W D E R I R A V Y Q Q A G G T A L V T T L L Q R H V R R L A E A L V
UniRef90_R6GYK3 S V S K S D L V I E A M R R E K D R P P L C A I V N R N Q I A N S V I
UniRef90_UPI0003021ED7 A L T V I E L I Q E R I R R E I A E M P E E E F A E L L R K L L P K P L V M P V C
UniRef90_J0EL23 E L N V D Q L S Q K S E K
UniRef90_R6EZM1 D F K S P L I G F L R Q Q T G R Q E A L A E D I L E T L V K G P L I R P I L
UniRef90_B4SH80 E Q S S A E L E A E L L Q A R R S G A Q M V R K F L Q G C I P T A L V P F L M

UniRef90_T0L3S8 UniRef90_F5ZK42 UniRef90_A2C1G0 UniRef90_R7MKG2 UniRef90_R6UG07 UniRef90_UPI0003807072 UniRef90_R5WZS9 UniRef90_R6NYJ9 UniRef90_E6X3L7 UniRef90_UPI00016C47AB UniRef90_R6DHY7 UniRef90_R5V7I3 UniRef90_N9A419 UniRef90_U7DCW2 UniRef90_Q2QLK5 UniRef90_V6Z381 UniRef90_D1B355 UniRef90_UPI00046FD68E UniRef90_F5T5B6 UniRef90_R5DQ50 UniRef90_F7KAR5 UniRef90_U7UEF7 UniRef90_L8H1B0 UniRef90_UPI00047DB436 UniRef90_J4WE57 UniRef90_R9JB23 UniRef90_B8DL83 UniRef90_R7HYQ0 UniRef90_C4XKB7 UniRef90_U7VDS6 UniRef90_G1UNL9 UniRef90_R5UKE6 UniRef90_R7IN10 UniRef90_A0A029RT42 UniRef90_B6BIH2 UniRef90_R6ZCF5 UniRef90_K7S3J1 UniRef90_R5ECC1 UniRef90_UPI00047CEF28 UniRef90_E3GLH8 UniRef90_R9KIPO UniRef90_B6BNR6 UniRef90_A6Q8H7 UniRef90_Q30SJ8 UniRef90_A1VC61 UniRef90_R6HXS4 UniRef90_R5X3I6 UniRef90_UPI00047C68C7 UniRef90_R7EEA0 UniRef90_UPI0004688F7E UniRef90_K2EQ57 UniRef90_I2K904 UniRef90_U2KX57 UniRef90_A6Q3Z6 UniRef90_Q311R9 UniRef90_UPI00041C1F57 UniRef90_UPI00046F5F05 UniRef90_C4GB39 UniRef90_E0RUL0 UniRef90_K1Y0E7 UniRef90_Q3B3U7 UniRef90_D2BGC3 UniRef90_G5GCJ6 UniRef90_R5RCZ0 UniRef90_D5V156 UniRef90_E3DNS6 UniRef90_UPI0003B688BB UniRef90_F4GJK7 UniRef90_R5NXXD4 UniRef90_UPI0003741C79 UniRef90_R7LLT4 UniRef90_R5X8R8 UniRef90_UPI00040E1FB8 UniRef90_A5GPW1 UniRef90_Q9FLE1 UniRef90_C2BGX5 UniRef90_UPI000478FACF UniRef90_X1FPQ7 UniRef90_R5NK87 UniRef90_G4D3K6 UniRef90_UPI000289F6CA UniRef90_T0J2Y3 UniRef90_H1LTZ6 UniRef90_UPI0004736AEC UniRef90_A7I835 UniRef90_C1MRP5 UniRef90_D8U814 UniRef90_R6GYK3 UniRef90_UPI0003021ED7 UniRef90_J0EL23 UniRef90_R6EZM1 UniRef90_B4SH80

130 140 150 160

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

UniRef90_T0L3S8	R A M I T
UniRef90_F5ZK42	K S F V T
UniRef90_A2C1G0	E E F V T
UniRef90_R7MKG2	N A Q V T
UniRef90_R6UG07	S A Q V T
UniRef90_UPI0003807072	K A E V T
UniRef90_R5WZS9	E A I V T
UniRef90_R6NYJ9	D S Q V T
UniRef90_E6X3L7	Y A E V T
UniRef90_UPI00016C47AB	K A E V T
UniRef90_R6DHY7	K A Q V T
UniRef90_R5V7I3	N A Q I
UniRef90_N9A419	T A E V T
UniRef90_U7DCW2	R A E V T
UniRef90_Q2QLK5	D E F V T
UniRef90_V6Z381	K S F V T
UniRef90_D1B355	K A E V T
UniRef90_UPI00046FD68E	K A E I T
UniRef90_F5T5B6	K A Q C T
UniRef90_R5DQ50	H A Q
UniRef90_F7KAR5	N A Q V C
UniRef90_U7UEF7	N S Q V T
UniRef90_L8H1B0	K A E V T
UniRef90_UPI00047DB436	S A F V T
UniRef90_J4WE57	S A I V T
UniRef90_R9JB23	H A Q V T
UniRef90_B8DL83	K A E
UniRef90_R7HYQ0	G E V V T
UniRef90_C4XKB7	K A E V T
UniRef90_U7VDS6	M A M V T
UniRef90_G1UNL9	K A E V C
UniRef90_R5UKE6	A A Q V C C
UniRef90_R7IN10	H A Q V C C
UniRef90_A0A029RT42	T A E V T
UniRef90_B6BIH2	K A E V
UniRef90_R6ZCF5	K A Q V C
UniRef90_K7S3J1	M A M I T
UniRef90_R5ECC1	K A Q V T
UniRef90_UPI00047CEF28	K A E V T
UniRef90_E3GLH8	M A Q C T
UniRef90_R9KIP0	N A Q V C
UniRef90_B6BNR6	H A E V
UniRef90_A6Q8H7	K A E V T
UniRef90_Q30SJ8	H G E V
UniRef90_A1VC61	K A E
UniRef90_R6HXS4	N A Q V T
UniRef90_R5X3I6	Q A Q V C
UniRef90_UPI00047C68C7	K A Q V T
UniRef90_R7EEA0	Q A Q I C
UniRef90_UPI0004688F7E	K A E V T
UniRef90_K2EQ57	H A
UniRef90_I2K904	M A M I T
UniRef90_U2KX57	E A Q V T
UniRef90_A6Q3Z6	R A E V T
UniRef90_Q311R9	K A E
UniRef90_UPI00041C1F57	K A Q V T
UniRef90_UPI00046F5F05	E A F V T
UniRef90_C4GB39	Q A Q T T
UniRef90_E0RUL0	Q A Q V T
UniRef90_K1Y0E7	R C V I T
UniRef90_Q3B3U7	Q G E V
UniRef90_D2BGC3	E A E F T
UniRef90_G5GGJ6	K A Q V C
UniRef90_R5RCZ0	Q A Q I C
UniRef90_D5V156	Q A M I T
UniRef90_E3DNS6	Q S M V T
UniRef90_UPI0003B688BB	K A Q V T
UniRef90_F4GJK7	S A M V T
UniRef90_R5NXD4	Q A Q V T
UniRef90_UPI0003741C79	K A E V T
UniRef90_R7LLT4	S E V V T
UniRef90_R5X8R8	T A Q I T
UniRef90_UPI00040E1FB8	K A Q V T
UniRef90_A5GPW1	E E F V T
UniRef90_Q9FLE1	D E F V T
UniRef90_C2BGX5	N A Q V T
UniRef90_UPI000478FACF	A S Q V T
UniRef90_X1FPQ7	
UniRef90_R5NK87	K A Q V C
UniRef90_G4D3K6	T S Q V T
UniRef90_UPI000289F6CA	N S Q V T
UniRef90_T0J2Y3	H S E V
UniRef90_H1LTZ6	K A Q V C
UniRef90_UPI0004736AEC	E E F V T
UniRef90_A7I835	V A M V T
UniRef90_C1MRP5	K A E V T
UniRef90_D8U814	K A E V T
UniRef90_R6GYK3	Y A Q V T
UniRef90_UPI0003021ED7	Y A V V T
UniRef90_J0EL23	
UniRef90_R6EZM1	E A Q V T
UniRef90_B4SH80	

UniRef90_C7HVZ5
UniRef90_A9BFS7
UniRef90_K8D0T7
UniRef90_C7H8H0
UniRef90_V5WLE1
UniRef90_K8E8U5
UniRef90_R6RJZ1
UniRef90_UPI00019130FB
UniRef90_R1CT29
UniRef90_R7HFK5
UniRef90_T2RE75
UniRef90_UPI000410D14E
UniRef90_D6V5U2
UniRef90_B2KCS3
UniRef90_R6YS95
UniRef90_S7UR77
UniRef90_D5HG85
UniRef90_UPI0004754A0C
UniRef90_F3AZF3
UniRef90_C6WUJ3
UniRef90_UPI00046DC7C1
UniRef90_UPI0003B4217E
UniRef90_UPI00047D58B0
UniRef90_UPI0003B32DE8
UniRef90_G8AH56
UniRef90_UPI00016C08B3
UniRef90_G8QOI7
UniRef90_UPI0002260B60
UniRef90_A0A031MG70
UniRef90_V1CPQ9
UniRef90_UPI00036A1274
UniRef90_Q138K3
UniRef90_Q212Q7
UniRef90_J2VUM4
UniRef90_U4KT72
UniRef90_G4SZJ8
UniRef90_Q47BP4
UniRef90_R5G6N5
UniRef90_X8IQL0
UniRef90_F0GUJ9
UniRef90_UPI000477A308
UniRef90_F6DA82
UniRef90_H5WS63
UniRef90_UPI0003B5542D
UniRef90_D8NLH6
UniRef90_G8PX26
UniRef90_M6GZ29
UniRef90_J1FDT7
UniRef90_B2JHM4
UniRef90_NOBDE9
UniRef90_UPI00037BD0E9
UniRef90_H8KRI0
UniRef90_UPI0003825275
UniRef90_U3AZD1
UniRef90_UPI0004104E14
UniRef90_C5ZVC4
UniRef90_R7DPIO
UniRef90_F0Y019
UniRef90_R0GBN8
UniRef90_W2BVF7
UniRef90_R6E9Q8
UniRef90_UPI00036D3C93
UniRef90_G0A8P5
UniRef90_C3XMV8
UniRef90_UPI00037A29BE
UniRef90_UPI00036B7933
UniRef90_UPI0003742683
UniRef90_R7I2R6
UniRef90_W9H4W3
UniRef90_F7VBW5
UniRef90_K0MSX2
UniRef90_D9SCM2
UniRef90_UPI0003B37756
UniRef90_A0A059F8E9
UniRef90_W9UVV8
UniRef90_Q7NU52
UniRef90_A1TQH6
UniRef90_MOTQM8
UniRef90_R5RI57
UniRef90_T4GTM4
UniRef90_W8WSQ5
UniRef90_UPI00047E43FD
UniRef90_V1DAC5
UniRef90_A0A031GSL5
UniRef90_J4PA61
UniRef90_UPI000377DC36
UniRef90_R5BMT6
UniRef90_F6A8Y6
UniRef90_UPI000411A87D
UniRef90_Q07P04
UniRef90_DQJ223
UniRef90_UPI0004753713

1 10 20 30 40
P G L V P F K A K N P L S K K A K G V K V N A K A S L K V D G K F I K S S T D D
P L K V R P H I I E D V A G S K L E G D V F L I D R N G E I V S Y T G E
P C L T A L Q T A K P N R S L A G I R A K A A A T L L D C T V A V E N G E
L V P V E V K E R R V S R L M G V S I Q D C G I S L G K L L E K R R R G K
P A L V P L V G E H P G G E Y L P G V S L D C Q V K I K K V E K K K A R M G
P A L A P V R T D I E L V K S L K G L R V A A D A T L I S G G R V I D R Q S G E
P S L F S F R L C A G G V L D A T L A G V S V P D V E L S L P S P S L S R R G P
P C L T Q I K A D S I K E L S G V R L N A K V S L F E N N K C S E T G D
P A L T P L V T K E S F V K N L Q G V A M K D V L L T T K I K K K E T Q G D
P A L T G L L T D E L T F R K G G A G V S L A N I S L G L E R I A A T E Y G E
P A N S G F R V A W S D S F R E R F E G Q P L K N V A L L G Y G A R T S R G E
P A L C P F L W R E K E L K F G T L T G L S C K A A L T C G K V K I I D D
P G L V G L K T T K D S I K G L N G I S R Q K V N L K L F N C G L F T E N G E
P A L A P I P T G A A G L S P A D L S G I S L P V V L G V S C G P E R F V D D
P A L C K L K C H E Y I S D M S G V R A K A V R L M C D G E E Y H E R G E
P S N C G F L C N W S P F F A E R F A G Q P L K R I E L A H G D I R Q D F G E
P A L C G I V L D N K N F F K T A S G V R A K G S V I V D G K T E A G D F G E
P A N C G F H T N W S E H F I S R F A G V P L K T T A L S M Q D E H A H K Q G G E
P S L F T F K I E D P R L A D L S G I T F P K S V K A T L N I P Q L T Q V G P
P V L C G F Y C K G N A F K K M A G V R I K S K I S I I D K N N V E D T G G E
P V N C G F E I A W S D Y F R E R F A G Q P L K P V S I L F T N Q N G E Q Q G E
P A L V G F K V A E G E I M P S A G V R A T A E V S F I L G G E V L A S E Y G E
P S N M G F E V P W S D H L R E R F A G Q P V K S V G L A F G D R R L K G E
P S L V G V A V K E Y P F V E L A G N A I R S S L I D F F K R Y L R S Q G D
P A N C G F H V E W S E G F K E R F S G V P L K R I A L S F A G E T C R G E
P A N C G F I T I W S D H L R Q R F A G Q P L K Q V I A R V D G Q S H E R R G E
P S L A P I E C K S D F T D C S G T R V K G V S L L L R G C V Q S E K G E
P A N V G F R A E W S E P F R A R F A G T P L K A L A V R F E D T T L R G E
P A N C G F T V D W S E L F A E K Y G T P L K N I A L S C G G R A I R G E
P A N G G F T V A W S Q I F R D R Y E G Q P L K T V A L S F G G R V V R G E
P A N S G F T V A W S N V F R D R F E G Q P L K G V A L T I G A H S V R G E
P A E T Y V I S K Q V V S Q Y G D F Q G V S F N T T L K I V G S K K T F E G G
P S N C G F E T A W S D R F R E A F A G Q A V K S V A L S V T A G G T S N S G E
P S N C G F D V A W S P Y F S E R F A G E P V K A V I A T A G T Q R Q G E
P G L V P I T K E K T N Q L Y G I R W K V K I N F K N E S R T G E
P S L T P V E C G S E L T G L S G V R V R A T A L K D G E Q L Y E E N G D
P S L A P I H I S D G F N I K A L N L R D V T V K A Y S E K G D
P A N C A V V I D W P A D F A K A F E G T P L K T I A L L R H G E A R V L G D
P A N C G F E Q A W S P I F Q Q R F A G Q P L K N V R L T V Q Q A W S Q L G E
P S N C G F D I G W S P Y F A Q R H A G T P L K N V R L R F S D A K G R S F G E
P A L V G F K A D P D E I M P R S L A E I S F L L G T E V V A K E Y G E
P A N C G F D A D W S A H F R E R F A G Q P V K S V A I G I D G A L H F R Q G E
P S N C G F E V E W S E L M I S K F A G A P L K N I A I G I D N D V P R L G E
P S L F T F K I S D A R L E N L F G L A F E N V E C S L V E F G Y S Q L G P
P S N C G F D A D W T D Y F R D R Y A G Q P V K P V S I T V E G V D G T R Q G E
P A N C G V L V P W S E V F K S R F E G S A L K R I A L T V D G M T R R G E
P S N C G F E T A W T N Y F K S R Y A G Q P V K T V V I S F T D A Q G H K G E
P S N C A Y E I K W P Q A L L A Q I E G E S V K N I V I R C A D K E A K G E
P S N C G F I C D W S Q A L L R S H Y S G A P L K A V T L R F T D N T E T R Q G E
P A N S G F E V A G W S E H L R K F A G A G Q P L K N V T L G L D G E A P R R G E
P A N S G F T V S W S D V F R A R F E G Q P L K G I A L S F G L H R L R G E
P S L V P L K V I S P K L Q N L S G I K L K N I T L E A N K A L Y Q T Y N D
P G L V G L K V K E D P I S S L Q G L R A K D T L Y K Q N E K L H D E C G E
P S L F S F R V P R S P I L D G L A G L S L A D A A L L A A A G K Q O R G P
P S N C G F E L D W S E H F R E R F A G Q P V K P V V A S T S G G V Q N R R G E
P S L T A V E L K E E L G F L A G V R E K C E I S L W K L I R K E Y G E
P A N S G F T V A W S N I F R D R F E G Q P L K G N I G L H L G T E L I Q E M E G D
P A N C G F E A A W S D Y F R E H F A G H H I K S V A I A L S E N D L R K Q G E
P A L V P L N L D S T F L S S L S G V K I Q A L T I K E N E Q I L A Q T D D D
P T N C G V R I A W S E L M R A R F A G S P L K R I G L T L G T E S V R G E
P S N C A Y Q I D W P A A F L A K N E G Q P L K N L A L S C E H N T K K G E
P A N C G L V L P W S D Y L I E T F Q G S P I K A T R F S V G E R A V I R G E
P A L T Q I I T D S T S I K G L S G I R V K A Q V A V I D R K S H E E D G E
P S N C G F D V A W D E R I E K H Q G E P L K N L A L T F E G H T V R G E
P A N C G F R T N W S A M R D R F A G T P L K P V A L R F G D H T V R G E
P A N C G F E A D W S E P M R Q R A A G Q P V K A V A M A L A P D G P W R R G E
P A N C G F E V N W S A Y F L V G K F A G E P M K S V T V S F M D S T H T K Q G D
P A L T R L F L E N V S N L K A L E I R I K G V S L T Q A K K I L S E T G E
P S N C G F T V D W S D R I R E R F A G A P V K G V Q L S A G G Q V T R E E
P S N C G F E C K W S S I L Q D R H S G T P L K G V T L T F E G D K W Q R K G E
P S N C G F D A G W S D F F A D K F A G E P L K S V G L A F Q G N G D G R F G E
P S L V Q I T K T K P A Y R S L K G V R T K C K A L V D G K L I E S Q N G E
P S L I G I E V Q E S F T K D E R Y A G E P L K S V A A C V R E T A S A D R G E
P A N C G F R A D W S A H F F I E R Y A G E P L K S N I T I S C D V K M Q K G E
S N C G F E I D W K P N F I D K H E G T P L K N I T I S C D V K M Q K G E
S L V P I Y V E N Y K F S G I A I R D V K I R T D C K K P T S I G D
P A N C G F D V D W S A H F S R R H A G E P L T T V A L T I D G L R I K R Q G Q
P A N C G F D V A W T E H F R E R Y A G Q P V K S V A M S C G G V L A R Q G E
P A N C G F D L G W S A F F R D K F A G A P L K N V Q A S C D G T L L Q R R G E
P S N C G F V A A W S P L L R E K F A G A P L K N V A L L G L P D E A P R P G D
P A N C G F T V A W S D V F R S R F E G Q P L K G A A W S F G P Q T I R G E
P A N C G F T V C W S A L L R D R F E G Q P L K G I E L T F G E R R V R G E
P S N C G F V A W S E V L F A Q R F A G Q P F K S V L K F A D Q G F E R Q G E
P S N C G F D V G W S E H F R T R F A G H P L Q S V A L G L P D P Q G T R Q G Q

	50	60	70	80
UniRef90_C7HVZ5	V I F Q N Y G L T S	G T A L L D L S N L I S L F L K D G	K K V S L D T I D F Y P	
UniRef90_A9BFS7	L L F K D D V L S	G L P L L E L S N Y V H E Y L E Q N T	P L F L K T I V P F P	
UniRef90_K8D0T7		M Q L S S G Y W Q P G E	W V V E L N D L L P	
UniRef90_C7H8H0	V Q F T D Y G L S	G L C I M Q L S S H L A P G	R G P K R P A V E L L F P	
UniRef90_V5WLE1	L L F T H F G L S	G P G I L N L S S A R L G E L E Q E Y R G S	H T I R I E L D M F P	
UniRef90_K8E8U5	F L F T H K G Y S	G P S I L D L S S H N V V K S T I A D G S S	S S S S K L V V D N W N P	
UniRef90_R6RJZ1	V Q F T D G A L S	G L C I F N L S S A K A A E Y I N N G E	I S I S L V V D N T A P	
UniRef90_UPI00019130FB		M S S Y W Q P G E	L V S I N N L L P	
UniRef90_R1CT29	L L V T H R G V S	G P A A L K L S G F A A V E L A E A G Y A G A L K L K I N F L P		
UniRef90_R7HFK5	L Q F T N Y G L S	G L C V F N L S S A Y V L S G Y V A K D N G N V E L S L D F L P		
UniRef90_T2RE75	M I F T H F G I S	G P G V L K F S S Y I N K A L D N G N V E L S L D F L P		
UniRef90_UPI000410D14E	V Q L T D G R I S	G L P A M Q L S S A R Q A G E L M G E R P	F A E I D D F L P	
UniRef90_D6V5U2	I V I T K D G I S	G G G L Y A L S A A L R E G V A A	K G H A T L T V D D L R P	
UniRef90_B2KCS3	L L F T H Y G V S	G P A A L Q M S L W	T Q G E E E I K I N F L P	
UniRef90_R6YS95	V Q F K E D G I S	G L V V M N A S R V L E R	T N E D Y K L Y L D D L P	
UniRef90_S7UR77	L L F T H Q G L S	G P A A L R A T L R P A F A	T N E S A P K L R L R L D F L P	
UniRef90_D5HG85	V Q F V S G Y L S	G I A V F N M S L Q C I D L M E	T G K K P Y I E L E L V P	
UniRef90_UPI0004754A0C	A M I S R T G I S	G G A V Y A L S A A L R E A L I A S N	E G E A V L S R L D L R P	
UniRef90_F3AZF3	L Q F S E T G I S	G L P T F Q I S R Y V S L Y L I N K N	K K V T I R L D I F S	
UniRef90_C6WUJ3	C M I T T E H G L S	G S L I Y A L S A H I R N T I E A	K G E A T V H L D L L P	
UniRef90_UPI00046DC7C1	V L V T H Y W G F S	G P A I L R L R L S A W G A C V L L S S S G	Y K G T L I V D D F T P	
UniRef90_UPI0003B4217E	I Q I T E Y G I S	G L P V F Q V S H C I S E L L L K	K Q N V I G Q I D D F L P	
UniRef90_UPI00047D58B0	L T I A E Y G L S	G G L I Y A L S A P L R D E I A A S	G S A L T Q L D D F L P	
UniRef90_UPI0003B32DE8	V Q L S S D G I S	G L P V M Q A S R E V I K F V E E	K K P V Y A V I D D F P	
UniRef90_G8AH56	F V I T E T G I S	G G A V Y A L S A P L R D A I E R	E G W A A L T L D L M P	
UniRef90_UPI00016C08B3	L L F T H N G V S	G P V V L N S T R W I E A G D	L V T F N L V	
UniRef90_G8QQI7	M L E T H D K G I S	G P V I M N N A R S L R I K G D	L L C A S L V Q	
UniRef90_UPI0002260B60	A V I T D K G L S	G G A V Y T L S A E L R D A L E R	D G K A E V Q L D L R P	
UniRef90_A0A031MG70	C I V T E D G L S	G S L I Y A L S A E L R G L I E R	H Q Q G A E L Q L D L R P	
UniRef90_V1CPQ9	L Q F T D Y G L T	G L C V F N L S S R E I V I D E M T R F	H Q Q D S Y T V K S L N L L S	
UniRef90_UPI00036A1274	A M V T A Y G L S	G G V I Y A L S S R R L R D A I E R	D G S A T L S L D L R P	
UniRef90_Q138K3	A I V T R T G L S	G G A V Y A L S A A L R D A I	L A D G E A T L M I A L R P	
UniRef90_Q212Q7	A M I T K S G I S	G G A V Y A L S A A L R D A I	L A D G E A T L H V I A L R P	
UniRef90_J2VUM4	A M I T R D G I S	G G A I Y A L S A A E L R E A V	L L G L G H A R L T I S L R P	
UniRef90_U4KT72	L L F T H F G L S	G P L I L H A S E L F H E H I T H	E G S L K V S I I L S	
UniRef90_G4SZJ8	F T I T Q Y G V S	G S L I Y A F S A S Q L R R E Q I D A	D G Q A A L M L D L L P	
UniRef90_Q47BP4	F N I T A T G I S	G G L I Y A L S A P L R D A L A R	T D G Q A L T L D L L P	
UniRef90_R5G6N5	L Q F R D N G L S	G I C I M D A S N V L	K E N D V I N I D D L M P	
UniRef90_X8IQL0	V Q F T K Y G L S	G L C I F N L S R M M R F G K G E G F	D N F D L N I D D V T D	
UniRef90_F0GUJ9	L L L T K R F L T	G P I T L K A Q A R A S R	D E I T D M W I D L V P	
UniRef90_UPI000477A308	I V I T R T G L S	G G P V Y A L S A L G R A L A R G G	E G A A L H I D L R P	
UniRef90_F6DA82	C L I T Q A G I S	G S L I Y S L S R M I R D T L M A Q Q	G R V I Q A A L D L L P	
UniRef90_H5WS63	C V I T A T G L S	G S L V Y A S A L R D E I A A A Q	G Q A T L T L D L V P	
UniRef90_UPI0003B5542D	L Q I T K D G I S	G L P V M Q A S S K I V R L L E E	K K P I T A V V N F F P	
UniRef90_D8NLH6	F L V T Q T G I S	G S L V Y A L S A P I R D A L E A	D G E V T I R L D L A P	
UniRef90_G8PX26	C V V T A T G L S	G S L V Y A L S A P V R E A I N Q H	D G S A T I H L D L L P	
UniRef90_M6GZ29	L L I T H W G V S	G P S V L K L S A K G A R E L F E K K Y D T T L K I N F V P	H G M N Y R F T A L V S W V H	
UniRef90_J1FDT7		M L K L S A W G A R L F H G	L A D G E A T L V S W V H	
UniRef90_B2JHM4	F V V T S T G I S	G S L V Y A L S A T I R D R L	L A D G E A T I R L D L A P	
UniRef90_NOBDE9	A V V T R N G L S	G G A I Y A L G P Y I R A A L A K H	G T A T L T D L K P	
UniRef90_UPI00037BD0E9	F I I T E T G V S	G G L V Y S L S S Y L R A S I A S H	T G K A L V Y V D L L P	
UniRef90_H8KRI0	V V I T T F G L S	G G A I Y A L S P Q I R E Q L N H N Q	H S E I E I D L K P	
UniRef90_UPI0003825275	L M I T K R G V S	G S L V Y A F S A R L R D M I E A	K G K A S F Y L D L L P	
UniRef90_U3AZD1	F V L T E H G I S	G S L V Y A L S A A I R R Q R I E Q H	H G S A Q V Y L D L L Q P	
UniRef90_UPI0004104E14	A V V T Q S G I S	G G V I Y A L S A A E L R E A I A	V K H E A V L H V I A L R P	
UniRef90_C5ZVC4	L L F T N Y G I S	G F G V L D T S S Y L Y Q A	K N P K I L D L L P	
UniRef90_R7DPI0	V Q F K N D G V S	G L V I M N T S S Y I A R L	K D P S L C H I E L D L P	
UniRef90_F0Y019	L L V T H R G V S	G P A A L K L S A F L A R E L K D A G Y R G	E L R L D L P	
UniRef90_R0GBN8	F I V T A Q G I S	G S L V Y A M S A A L R E T I A S	T G S A R L Y L D L L P	
UniRef90_W2BVF7	V Q F T D Y G I S	G L C V F N T S K Y L V P E G K	S G F E K Y R I K I D F L P	
UniRef90_R6E9Q8	I D F T D G G I S	G P A G F A V S R N A V K T L	V N G K V R L V V D L K P	
UniRef90_UPI00036D3C93	A I V T R S G I S	G G A I Y A L S A E L R E A V	L A N G T A M L S V A L R P	
UniRef90_G0A8P5	F V I T A D G V S	G S L I Y A L S A G L R D R I A A S	Q T R Q S A L I H L D L L P	
UniRef90_C3XMV8	V L F T N Y G I S	G F G V L D L S S F F	G S A L T L M L D D F L P	
UniRef90_UPI00037A29BE	A I I A A E G L S	G G A V Y A L S A P I R D A I H A H	G K A T L S L D L R P	
UniRef90_UPI00036B7933	A V I T R F G L S	G N A I Y A L S P Q I Q A Q L D K G Q K	T I V I V L D L K P	
UniRef90_UPI0003742683	A V L T A Y G L S	G G A I Y A L S Q A Y R K A L A S	G S A Q L S L D L A P	
UniRef90_R7I2R6	L L F A D Y G V S	G V C V M Q C A R Y A K D G R	M L R V S L V K	
UniRef90_W9H4W3	L I L T R T G V S	G G A V Y A L S A P L R D A I E R	D G S A T L T L D L R P	
UniRef90_F7VBW5	V V V T A T G L S	G G A L Y A L S A G V L R N H I S Q H	D G S A E L L D L R P	
UniRef90_K0MSX2	F V V T D S G I S	G S L V Y A C S A G L R D A I D A R G A A T A W L	D L L P	
UniRef90_D9SCM2	L M V T E H G I S	G G L I Y A L S A P L R E Q I	L A A G S A I V H I D L L P	
UniRef90_UPI0003B37756	I Q F I K G G L S	G L P V F N V S R K V K N I	D L T L S L D M L P	
UniRef90_A0A059F8E9	F A V T A R G V S	G G V Y T L S A T L R D E L D A A	G S A T L W L D L L P	
UniRef90_W9UVV8	L L I A K Y G L S	G S L I Y A S A S P L R E	K I I A K G V A D L D L M P	
UniRef90_Q7NU52	C V I T Q S G I S	G S L V Y A C S A L L R D E I A R A	G S A T C Y L D L L P	
UniRef90_A1TQH6	F V A T A S G V S	G S L V Y A S A L L R D E I A A H	G H A T F H L D L L P	
UniRef90_M0TQM8			L V V D F V P	
UniRef90_R5RI57	V L F S D N G L S	G L C I M Q L S R L L S R	Y C G N K E I S L D L M E	
UniRef90_T4GTM4	L E F T K F G L S	G P T I K S A S C R	M K D T R K E N Y T I L D L K P	
UniRef90_W8WSQ5	I M L T R D G L S	G G L V Y A L S P D L R A Q A L D R	T G E A V L A I D L L P	
UniRef90_UPI00047E43FD	T V I T E F G L S	G G N A I Y G L S P Q I R A Q L H Q H	K K A T I F V D L K P	
UniRef90_V1DAC5	L L F T H K N L S	G P A I L N I S R Y V D R G D K	D G S A T L W L D L A P	
UniRef90_A0A031GSL5	F V I T A G G V S	G S L I Y A L S A A L R D R I A R	D G S A T L W L D L A P	
UniRef90_J4PA61	F V V S E T G I S	G S L V Y A L S A P L R D R I E R	D G R A V A M L D L A P	
UniRef90_UPI000377DC36	F V A S E H G V Q	G S L I Y A L S A A L R D R I E R	D G R A V A M L D L L P	
UniRef90_R5BMT6	V D F T D G G I S	G P I G F Q V S R K C V K A L	M N G G K V M F S L D L K P	
UniRef90_F6A8Y6	F V L T D T G I S	G S L V Y A L S A G I R Q R I S C D G S	C T V Y L D L L P	
UniRef90_UPI000411A87D	A M V T R S G L S	G G A I Y A L S A D I R E A V	V T S G E A I L H V A L R P	
UniRef90_Q07P04	A M I T R T G L S	G G A V Y A L S A A L R D A I E A Q	G E A V L R I A L R P	
UniRef90_D0J223	F V A T Q T G V S	G S L I Y A V S L L R D C I A R Q	G A A R F E L D L L P	
UniRef90_UPI0004753713	F V I T E T G V S	G S L I Y A L S A R L R D E I A A A	G E A V I H L D L A P	

UniRef90_C7HVZ5
UniRef90_A9BFS7
UniRef90_K8D0T7
UniRef90_C7H8H0
UniRef90_V5WLE1
UniRef90_K8E8U5
UniRef90_R6RJZ1
UniRef90_UPI00019130FB
UniRef90_R1CT29
UniRef90_R7HFK5
UniRef90_T2RE75
UniRef90_UPI000410D14E
UniRef90_D6V5U2
UniRef90_B2KCS3
UniRef90_R6YS95
UniRef90_S7UR77
UniRef90_D5HG85
UniRef90_UPI0004754A0C
UniRef90_F3AZF3
UniRef90_C6WUJ3
UniRef90_UPI00046DC7C1
UniRef90_UPI0003B4217E
UniRef90_UPI00047D58B0
UniRef90_UPI0003B32DE8
UniRef90_G8AH56
UniRef90_UPI00016C08B3
UniRef90_G8QQI7
UniRef90_UPI0002260B60
UniRef90_A0A031MG70
UniRef90_V1CPQ9
UniRef90_UPI00036A1274
UniRef90_Q138K3
UniRef90_Q212Q7
UniRef90_J2VUM4
UniRef90_U4KT72
UniRef90_G4SZJ8
UniRef90_Q47BP4
UniRef90_R5G6N5
UniRef90_X8IQL0
UniRef90_F0GJU9
UniRef90_UPI000477A308
UniRef90_F6DA82
UniRef90_H5WS63
UniRef90_UPI0003B5542D
UniRef90_D8NLH6
UniRef90_G8PX26
UniRef90_M6GZ29
UniRef90_J1FDT7
UniRef90_B2JHM4
UniRef90_NOBDE9
UniRef90_UPI00037BD0E9
UniRef90_H8KRI0
UniRef90_UPI0003825275
UniRef90_U3AZD1
UniRef90_UPI0004104E14
UniRef90_C5ZVC4
UniRef90_R7DPIO
UniRef90_F0Y019
UniRef90_R0GBN8
UniRef90_W2BVF7
UniRef90_R6E9Q8
UniRef90_UPI00036D3C93
UniRef90_G0A8P5
UniRef90_C3XMV8
UniRef90_UPI00037A29BE
UniRef90_UPI00036B7933
UniRef90_UPI0003742683
UniRef90_R7I2R6
UniRef90_W9H4W3
UniRef90_F7VBW5
UniRef90_K0MSX2
UniRef90_D9SCM2
UniRef90_UPI0003B37756
UniRef90_A0A059F8E9
UniRef90_W9UVV8
UniRef90_Q7NU52
UniRef90_A1TQH6
UniRef90_MOTQM8
UniRef90_R5RI57
UniRef90_T4GTM4
UniRef90_W8WSQ5
UniRef90_UPI00047E43FD
UniRef90_V1DAC5
UniRef90_A0A031GSL5
UniRef90_J4PA61
UniRef90_UPI000377DC36
UniRef90_R5BMT6
UniRef90_F6A8Y6
UniRef90_UPI000411A87D
UniRef90_Q07P04
UniRef90_DQJ223
UniRef90_UPI0004753713

UniRef90_C7HVZ5
UniRef90_A9BFS7
UniRef90_K8D0T7
UniRef90_C7H8H0
UniRef90_V5WLE1
UniRef90_K8E8U5
UniRef90_R6RJZ1
UniRef90_UPI00019130FB
UniRef90_R1CT29
UniRef90_R7HFK5
UniRef90_T2RE75
UniRef90_UPI000410D14E
UniRef90_D6V5U2
UniRef90_B2KCS3
UniRef90_R6YS95
UniRef90_S7UR77
UniRef90_D5HG85
UniRef90_UPI0004754A0C
UniRef90_F3AZF3
UniRef90_C6WUJ3
UniRef90_UPI00046DC7C1
UniRef90_UPI0003B4217E
UniRef90_UPI00047D58B0
UniRef90_UPI0003B32DE8
UniRef90_G8AH56
UniRef90_UPI00016C08B3
UniRef90_G8QQI7
UniRef90_UPI0002260B60
UniRef90_A0A031MG70
UniRef90_V1CPQ9
UniRef90_UPI00036A1274
UniRef90_Q138K3
UniRef90_Q212Q7
UniRef90_J2VUM4
UniRef90_U4KT72
UniRef90_G4SZJ8
UniRef90_Q47BP4
UniRef90_R5G6N5
UniRef90_X8IQL0
UniRef90_F0GUJ9
UniRef90_UPI000477A308
UniRef90_F6DA82
UniRef90_H5WS63
UniRef90_UPI0003B5542D
UniRef90_D8NLH6
UniRef90_G8PX26
UniRef90_M6GZ29
UniRef90_J1FDT7
UniRef90_B2JHM4
UniRef90_NOBDE9
UniRef90_UPI00037BD0E9
UniRef90_H8KRI0
UniRef90_UPI0003825275
UniRef90_U3AZD1
UniRef90_UPI0004104E14
UniRef90_C5ZVC4
UniRef90_R7DPIO
UniRef90_F0Y019
UniRef90_R0GBN8
UniRef90_W2BVF7
UniRef90_R6E9Q8
UniRef90_UPI00036D3C93
UniRef90_G0A8P5
UniRef90_C3XMV8
UniRef90_UPI00037A29BE
UniRef90_UPI00036B7933
UniRef90_UPI0003742683
UniRef90_R7I2R6
UniRef90_W9H4W3
UniRef90_F7VBW5
UniRef90_K0MSX2
UniRef90_D9SCM2
UniRef90_UPI0003B37756
UniRef90_A0A059F8E9
UniRef90_W9UVV8
UniRef90_Q7NU52
UniRef90_A1TQH6
UniRef90_M0TQM8
UniRef90_R5RI57
UniRef90_T4GTM4
UniRef90_W8WSQ5
UniRef90_UPI00047E43FD
UniRef90_V1DAC5
UniRef90_A0A031GSL5
UniRef90_J4PA61
UniRef90_UPI000377DC36
UniRef90_R5BMT6
UniRef90_F6A8Y6
UniRef90_UPI000411A87D
UniRef90_Q07P04
UniRef90_D0J223
UniRef90_UPI0004753713

130 140 150 160

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

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

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

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

UniRef90_C7HVZ5 N A Q V T
UniRef90_A9BFS7 D S Q V T
UniRef90_K8D0T7 T A E V T
UniRef90_C7H8H0 Q A Q T T
UniRef90_V5WLE1 H A V V T
UniRef90_K8E8U5 K A E V T
UniRef90_R6RJZ1 L A Q I T
UniRef90_UPI00019130FB T A E V T
UniRef90_R1CT29 D E F V T
UniRef90_R7HFK5 K A Q V T
UniRef90_T2RE75
UniRef90_UPI000410D14E K A Q V T
UniRef90_D6V5U2 R A I S T
UniRef90_B2KCS3 K A E T T
UniRef90_R6YS95 R S Q V T
UniRef90_S7UR77 R A E V T
UniRef90_D5HG85 D S Q T T
UniRef90_UPI0004754A0C R A I S T
UniRef90_F3AZF3 K S Q V C
UniRef90_C6WUJ3 E A I T
UniRef90_UPI00046DC7C1
UniRef90_UPI0003B4217E F S Q A C
UniRef90_UPI00047D58B0 E A I T
UniRef90_UPI0003B32DE8 A S Q V T
UniRef90_G8AH56 R A I S T
UniRef90_UPI00016C08B3 S A V V T
UniRef90_G8QQI7 S A M V T
UniRef90_UPI0002260B60 R A I T
UniRef90_A0A031MG70 E A I T
UniRef90_V1CPQ9 K A Q V T
UniRef90_UPI00036A1274 R A I S T
UniRef90_Q138K3 R A I S T
UniRef90_Q212Q7 R A I S T
UniRef90_J2VUM4 R A I S T
UniRef90_U4KT72 K A F V T
UniRef90_G4SZJ8 E A I T
UniRef90_Q47BP4 E A I S T
UniRef90_R5G6N5 E A Q T T
UniRef90_X8IQL0 E A Q C T
UniRef90_F0GUJ9 S A V V T
UniRef90_UPI000477A308 R A I S T
UniRef90_F6DA82 E A I T
UniRef90_H5WS63 E A I S T
UniRef90_UPI0003B5542D Q S Q V T
UniRef90_D8NLH6 E A I T
UniRef90_G8PX26 E A I T
UniRef90_M6GZ29
UniRef90_J1FDT7 E E F V T
UniRef90_B2JHM4 E A I T
UniRef90_NOBDE9 R A I S T
UniRef90_UPI00037BD0E9 E A I T
UniRef90_H8KRI0 E A I S T
UniRef90_UPI0003825275 E A I S T
UniRef90_U3AZD1 E A I T
UniRef90_UPI0004104E14 R A I T
UniRef90_C5ZVC4 N A E V T
UniRef90_R7DPIO T S Q V T
UniRef90_F0Y0I9 D E F V T
UniRef90_R0GBN8 E A I T
UniRef90_W2BVF7 F A Q V T
UniRef90_R6E9Q8 R C V I T
UniRef90_UPI00036D3C93 R A I T
UniRef90_G0A8P5 E A I T
UniRef90_C3XMV8 S A E V C
UniRef90_UPI00037A29BE R A I S T
UniRef90_UPI00036B7933 E A I S T
UniRef90_UPI0003742683 R A I S T
UniRef90_R7I2R6 S A Q V T
UniRef90_W9H4W3 R A I S T
UniRef90_F7VBW5 R A I T
UniRef90_K0MSX2 E A I T
UniRef90_D9SCM2 E A I T
UniRef90_UPI0003B37756 N A Q I T
UniRef90_A0A059F8E9 E A I S T
UniRef90_W9UVV8 E A I S T
UniRef90_Q7NU52 E A I S T
UniRef90_A1TQH6 E A I S T
UniRef90_M0TQM8 D E F V T
UniRef90_R5RI57 K A Q V T
UniRef90_T4GTM4
UniRef90_W8WSQ5 E A I S T
UniRef90_UPI00047E43FD E A I S T
UniRef90_V1DAC5 V A M A T
UniRef90_A0A031GSL5 E A I T
UniRef90_J4PA61 E A I S T
UniRef90_UPI000377DC36 Q A I S T
UniRef90_R5BMT6 R C V I T
UniRef90_F6A8Y6 E A I T
UniRef90_UPI000411A87D R A I T
UniRef90_Q07P04 R A I T
UniRef90_D0J223 E A I S T
UniRef90_UPI0004753713 E A I T

UniRef90_A9DWL6
UniRef90_Q2KWT1
UniRef90_UPI00036F087B
UniRef90_U3HHS7
UniRef90_F2J114
UniRef90_UPI0004796004
UniRef90_M6BRG5
UniRef90_UPI000361F4CA
UniRef90_W8IA07
UniRef90_T0DJR7
UniRef90_A4YSR6
UniRef90_E3I8D2
UniRef90_UPI00036EA2A2
UniRef90_UPI0001D2F07D
UniRef90_B1Y3W4
UniRef90_R4XH0
UniRef90_I2JEV7
UniRef90_C7RL61
UniRef90_UPI000406BED5
UniRef90_U7D7H5
UniRef90_A4XYQ6
UniRef90_AOA014MCR4
UniRef90_UPI00045E5FA5
UniRef90_E5VHV3
UniRef90_UPI000472DF0A
UniRef90_UPI00047E1D95
UniRef90_UPI0003719AD7
UniRef90_F8J6H7
UniRef90_UPI0003602063
UniRef90_UPI00038244F6
UniRef90_S3YME7
UniRef90_N9E7T8
UniRef90_X4Z2A7
UniRef90_UPI0003728580
UniRef90_I0HS01
UniRef90_I7ACN0
UniRef90_F0LDY8
UniRef90_Q5P2M9
UniRef90_C7MKV8
UniRef90_UPI000382D74D
UniRef90_K6C5J0
UniRef90_A1VPB7
UniRef90_UPI00034BE817
UniRef90_UPI00045E7E74
UniRef90_A6EP54
UniRef90_UPI000374D809
UniRef90_N9BNV7
UniRef90_UPI0003788FCF
UniRef90_UPI00036A763B
UniRef90_AOA059FTU4
UniRef90_M3J7C5
UniRef90_D9QKD8
UniRef90_UPI00046FB896
UniRef90_A3VHD4
UniRef90_H0J8F0
UniRef90_N9AB70
UniRef90_V4Q4N1
UniRef90_N8X6D1
UniRef90_N2J7E1
UniRef90_U3QE82
UniRef90_T2JVX1
UniRef90_UPI000371351D
UniRef90_J2H6D9
UniRef90_Q11XF1
UniRef90_W0IM21
UniRef90_UPI00030E6051
UniRef90_G9AEC1
UniRef90_Q0ASJ1
UniRef90_B3R3U4
UniRef90_G9ZU32
UniRef90_UPI00040B2D31
UniRef90_S6AFK2
UniRef90_Q5FQ89
UniRef90_S3H7M7
UniRef90_V2VRH7
UniRef90_M4VFU3
UniRef90_S2KSQ1
UniRef90_UPI0004769BA5
UniRef90_A6UG50
UniRef90_Q3SI42
UniRef90_B6ITG3
UniRef90_A6X0T7
UniRef90_L0LSU3
UniRef90_UPI00040C1678
UniRef90_UPI0002BC1DB9
UniRef90_V4NQS0
UniRef90_G211P9
UniRef90_AOA031LVH5
UniRef90_UPI00035FA42A
UniRef90_C8RW59
UniRef90_UPI0003B68121
UniRef90_S6CKR0

UniRef90_A9DWL6 A V I S A R G L I E G S G L V Y A L S A P L R D T L I R E G H G E L T L L D L L P
UniRef90_Q2KWT1 C M I S A D T G G I E G S L V Y A L S A P L R D T L I R E G L G E G E A T A W L D D L L P
UniRef90_UPI00036F087B T M L S T A D T G G I E G S L V Y A L S A P L R D T L I R E G L G E G S V T V L W L D D L L P
UniRef90_U3HHS7 F V L T R K A G G I E G S L V Y A L S A P L R D T L I R E G L G E D G S A T V L H L D D L L P
UniRef90_F2J114 A V V T T E A G G I E G G A V Y A L S A P L R R T A L I Q R A G R E G E A R L V L D L R P
UniRef90_UPI0004796004 V L F T T R K A G G I E G S P A A L L E L S A E A G E T A R R R R K R E Y P W L G Y L L D L R P
UniRef90_M6BRG5 L L V T T R H W G A L S G P A I L K L E L S A K V G A R E L R R N K E Y E T T L R I D F V G
UniRef90_UPI000361F4CA C L V C E S G L I E G S L V Y A L G A S L R H E L L E A G E A V L L L D L M P
UniRef90_W8IA07 F V I T T R H G G I E G S L V Y A H A A N G L R D R L L E M Q R S A A L S I D D L A P
UniRef90_T0DJR7 L M L T T R P Y G V I E G G A V Y A L S A N G L R D R L L E H T Q R R A Y L S H I D D F K P
UniRef90_A4YSR6 A V V T T R D G G I E G G A V Y A L S A E L R R E A L I A E L N G E T V L H I V A L R P
UniRef90_E3I8D2 A T J T T R K A G G I E G S A I Y A L S A A L R R E A L L A A G H E G A A D L I D L L R P
UniRef90_UPI00036EA2A2 F V I T T R H G G I E G S L V Y A H A A V L R R E A L L A A G Q T T T I D V D L L P
UniRef90_UPI0001D2F07D V V V T T R G G L I E G G P V Y A L A S A L R R A I I E R A G D G A A T M L V D L L R P
UniRef90_B1Y3W4 A V I T T A S G G I E G N L V Y A A S G L L R R E A I A A A H G G H V D V R L D L L P
UniRef90_R4XIH0 F V V T T E S G G I E G S L V Y A L S A L L R D R I I A A A G G Q A V A L D L L A P
UniRef90_I2JEV7 A V I S A T Y G I E G S P V Y G V S A P L R D E I I A E R R G Q C T V Y W D L D P
UniRef90_C7RL61 F V L T A T A G V I E G S G V Y A L S A L L R D E A V E A R D G S A T L H L D L L P
UniRef90_UPI000406BED5 A M I L A A Y G I E G G G V Y A L S A G L R R E A V E A R D G S T M L T L D L L R P
UniRef90_U7D7H5 I L F S G T T I D E G P A V R R I T P F V H K E D D S L T L I D F L P
UniRef90_A4XYQ6 F V L T A G G I E G S L V Y A F S A D I R R A I I E A H D G Q A L T F Q L D L L P
UniRef90_A0A014MCR4 F V A T A T G V I E G S L V Y A F S H L L R R A I I E R H D G R C V L E V D L L R P
UniRef90_UPI00045E5FA5 A M V T T R T G L I E G G P V Y A I G V A L R D A L L D A D G R K V K I V L N L M P
UniRef90_E5VHV3 V Q F T T K E Y G I E G I P I F Q I S H F A I E A L R R K K K V K I V L N L M P
UniRef90_UPI000472DF0A F V V T T E T G V I E G S L V Y A L S A G A L R D A I I A R H V G S V V T L L D L L P
UniRef90_UPI00047E1D95 C V V S A A G I E G S L V Y A L S A D L R D A I I A R H G S V V T L L D L L P
UniRef90_UPI0003179AD7 F V I S E A N G I E G S L V Y A L S A P Q I R R A L I D T N G K F A T L T L D L L A P
UniRef90_F8J6H7 A V V T T A N G L I E G G A I Y A L G A P Q I R R A A A G D D G A A T V E L D L L R P
UniRef90_UPI0003602063 A M V T T A G C I E G G L V Y A F S R S L R R E A V A R G D D G A A T V E L D L L R P
UniRef90_UPI00038244F6 A V V T T A E G L I E G G V F E A L S A P L R R E A V I A L R Q G E A V P Q L D L L R P
UniRef90_S3YME7 I I I T H Y G F I E S G G V I Y K L G R D L R D S L Q K S Q K Q A L N I H L D L L P
UniRef90_N9E7T8 I V I T H Y G F I E S G G V I Y K L G R D L R D S L Q K S Q K Q A L N I H L D L L P
UniRef90_X4Z2A7 C M I S A H G I E G G L V Y A L S A P L R D S L A A T G G N Y A T A W L D L L P
UniRef90_UPI0003728580 F V I T T R N G I E S G G V I Y P L T P K I K Q S L K A A T G G N Y A T A W L D L L P
UniRef90_I0HS01 F V L T E T G V I E G S L V Y A F S A A L R D A I I A R D G R A V F E L D L L P
UniRef90_I7ACN0 F V L T A T G I E G S L V Y A L S A D I R R E R I E A T G S A T L L A V D L L A P
UniRef90_F0LDY8 F V V T T Q H G I E G S V I Y A L S A A L R D R Q L E A H T G K A T L L A V D L L A P
UniRef90_Q5P2M9 C M V S A T Y G I E G S L I Y A L S A P L R D T L A A N G T V E L S I D L L A P
UniRef90_C7MKV8 V T F R T Y G V I S G I A A F N V S R V A H P G S I L S I D F L P
UniRef90_UPI000382D74D A L V T T G D G I E G G L V Y A F S A P L R R D A V I A R D G S A L A T L D L L R P
UniRef90_K6C5J0 C V L T E T G V I E G S L V Y A L S A P L R R D A V I A R N L S G S A S V Q I D L L P
UniRef90_A1VPB7 F V A T A T G I E G S L I Y A A S S L R D E A V A A N L S D G S A T F L L D L L P
UniRef90_UPI00034BE817 V I I T A A G L I E G G A I Y A L S A R L R D A V A A N L S D G S A T F L L D L L P
UniRef90_UPI00045E7E74 A M V S A A G L I E G G A L Y A L S A P L R R R A L A D L S D G P V T L H V D L R P
UniRef90_A6EP54 A V I T T F G I E G N A I Y A L S A P Q I R R E Q L E Q S T S K A T L F L D F K P
UniRef90_UPI000374D809 F V I T T A N G I E G S L V Y A L S A E I R R A Q L E Q S S G C A T V M L D L L P
UniRef90_N9BNV7 M V I S H Y G L I E G G L V Y R C N R D L R E A M Q T Q S H A I L Y L D L L P
UniRef90_UPI0003788FCF L I L T L R G L I E G A P L Y T V S P L R D A L Q T H H T V S L N L R P
UniRef90_UPI00036A763B A V V S A D R G L I E G S V I Y A L S R L L R Q Q L E Q A G A A R L H L D L L P
UniRef90_A0A059FTU4 F V I T T E T G V I E S G G I Y A L S A P L R D A L A A N G Q G A A R L A V L T L D
UniRef90_M3J7C5 F V I T T R Y G I E G S L V Y A H S A A L R D D L E R D G H A N L I L D L L A P
UniRef90_D9QKD8 V V L T T R Y G I E G G P V Y A G L S S A L R A A L A A D G G G A L V T L D L L P
UniRef90_UPI00046FB896 F I V T H H G I E G S S V Y A L S A S L R D T I E A E G K A V L T I D L L P
UniRef90_A3VHD4 F V V S A R G L I E G S A I Y T V S R A V I V G M A E G K A V L T I D L L P
UniRef90_H0J8F0 F V L T D N G I E G S L V Y A L S A R A V I R T A I E R H G Q A T L L V D L L A P
UniRef90_N9AB70 M V I S H Y G L I E G G L V Y R C N R D L R E A M Q S Q N S S V L Y L D L L P
UniRef90_V4Q4N1 L M L T T R A G L I E G G A I Y A L S A A L R D A I I H K D G H A D L V I D L L R P
UniRef90_N8X6D1 I V I T H Y G L I E S G L I Y K Q G R S L R Q Q L I Q S D G P L V M Y L D L L P
UniRef90_N2J7E1 F V L T E T G I E G S L V Y A L S A E I R T E L Q R T G S A T L Y L D L L A P
UniRef90_U3QE82 F V I S A N G I E G S L V Y A L S A P I R D R L E A E G N V V I H L D L L P
UniRef90_T2JVX1 F V I S S H G I E G S L V Y A H A A A L R D R V L S Q N D G R A M L V I D L L P
UniRef90_UPI000371351D A L A A G Y G L I E G G A V Y A L S A A L R D A V I E G R G S A T A M Q I D L L P
UniRef90_J2H6D9 L V V T T A Y G L I E G G A V Y A L S P L R R Q V I Q N T G S A A M Q I D F K P
UniRef90_Q11XF1 F V I T A G S G I E G S L I Y A H T A S L R D R L L N H G S A A L T L D L L A P
UniRef90_W0IM21 C V L T A R Y G L I E G S L V Y A W S A Q I R R E A L E R N R D G S A R V L D L L A P
UniRef90_UPI00030E6051 F V V S A R Y G I E G S L V Y A H A A S L R D R L E R N R D G S A R V L D L L A P
UniRef90_G9AEC1 A M I A R Y G L I E G G A V Y A L S A A I R A D R A L A N G D T I T L H L D L K P
UniRef90_Q0ASJ1 F V I S R D G I E G S L V Y A L S A P L R D R I I E A A Q D G E A L I H L D L L P
UniRef90_B3R3U4 A M I T A E G I E G G A I Y A L S A P L R D A I I A A Q D G H A M L A L D L L R P
UniRef90_G9ZU32 F V L T A S R G L I E G S L I Y A L S A A L R R E R I I N A S E G S A T V L H L D L L P
UniRef90_UPI00040B2D31 L T I T T S R G L I E G S A I Y A L S A D L R D R I I T A S E G R A L T L D L L P
UniRef90_S6AFK2 F V I S Q H G I E G S L V Y A H A A A L R D R L S R S E P A S L V V D L M P
UniRef90_S3H7M7 I V I T T Q R Y G I E S G L I Y K F N R A L R T Q Q P A M Q L Y L D L L P
UniRef90_V2VRH7 M M I H R R G V I E G G V I Y A L S A S I R T A V E H D G E T L V H I D L L R P
UniRef90_M4VFU3 F T L T A Q G V I E G S L V Y A W S A Q L R R E A I N R H E G Q A R L L D L L P
UniRef90_S2KSQ1 F V I L G E H G I E G S L I Y A L S A D I R R D R I E A R D G R C A S H I D L L P
UniRef90_UPI0004769BA5 F V M S R H G I E G S L V Y A H A A C L R R D R L E A Q D G K A S V M L D L L A P
UniRef90_A6UG50 L M L S D G G V I E G G L V Y A L S A P L R D T I I A A Q D G N V A V A L D L L P
UniRef90_Q3SI42 L V V T T R A G L I E G G A I Y A L S A P L R R E A I I E R N D G R A V I S L D L L P
UniRef90_B6ITG3 F V I T T R G G V I E G S L I Y A H S A A L R R E A S I Q E N D G K A F I T L D L L P
UniRef90_A6X0T7 F V I S Q T G I E G S L V Y A H A A S L R D R L A K T G E A S L V V D L L P
UniRef90_L0LSU3 F V I S R H G I E G S L V Y A H S A A L R D R L D H D G K A N F I V D L L P
UniRef90_UPI00040C1678 V M L T R G G V I E G G A I Y A L S A A L R D A I I A R D G H A D L S L D L L R P
UniRef90_UPI0002BC1DB9 A V V T T G T G I E G G A V Y A L S A T I R T D R I I A R D G H A F V H I D L L P
UniRef90_V4NQS0 I V I T H Y G L I E G G L V Y A K H G R A L R T R Q L Q Y Q D G S M V L N L D L L P
UniRef90_G211P9 A M I D R R G I E G G A I Y A L G P A I R A E L A L R E T A E I R L D L L P
UniRef90_UPI00035FA42A F V I S A R G L I E G G G I Y T V S R D L R L G A A L V L D L L P
UniRef90_C8RW59 W L L T A T G V I E G S L V Y A L S A E I R R Q Q I A A Q G H C A L L E M D C L L P
UniRef90_UPI0003B68121 V M F R K Y G V S G I A A F N L S R I V E P G D V L A V D F V
UniRef90_S6CKR0

UniRef90_A9DWL6 D L E V S D V M A R L A K P R 90 100 G K D S Q A N H L R K R L L K L 120
UniRef90_Q2KWT1 D W S A A R V A D A V H H P R G A R S W S S H L Q S R R L G L K G V
UniRef90_UPI00036F087B D K T P D R V L A E V N H P R G A R S S L S S H L Q S R A G I R G A
UniRef90_U3HHS7 N H P L E K V I K A L A K P R G A R S M A K H L H S Q R L G I D G V
UniRef90_F2J114 D L A P E A L T A R L A R P R G K Q S L S T F L R K A A G L N P V E V A L L
UniRef90_UPI0004796004 R G D E A A L E A E L L E L Q R V N P H L S L L G N W V K R R L P E R L V A K V C
UniRef90_M6BRG5 G L K K D E
UniRef90_UPI000361F4CA D R S L E W L R E Q I A A P R G A R S M A S H L Q S R L G L K G V
UniRef90_W8IA07 G R T V E R L A K D L A R Q K M S V S N R L R K G A G L E G V K S A L L R E I V
UniRef90_T0DJR7 D L K L E E V T J E K L S N K S K D S L T N R L R K Q L L G F D K I
UniRef90_A4YSR6 D L E E T P D L I R R L S A P R G K Q S F S N V L R K V L Q L S P V A I
UniRef90_E3I8D2 G L E A E A L E A A L S R P R G K Q T L S A H L R K A A K L A P V A I G L L
UniRef90_UPI00036EA2A2 A R T Q D R I A N A L G K Q D P K A S L S N R L R K A V G L D G V
UniRef90_UPI0001D2F07D T L S L E A L A A K L G R E R A K Q S F A N F L R K A A G L
UniRef90_B1Y3W4 Q R S E A D L V T A L A R G R G S R S W P N H M R E Q T G L A G A Q A A L
UniRef90_R4XIH0 D W S D E K V L A A I T H P R G A R S M S S H L Q S R L G L G T I G V
UniRef90_I2JEV7 D R S V E K L Q Q A I A K R R P K D S L A N V L R
UniRef90_C7RL61 G Y D Q E R V I R E L A R P R G A R S L A S H L Q S R L R L K G V
UniRef90_UPI000406BED5 D L D E A L T Q R L S K P R G K D S L A S N W L R K A A R L D S T
UniRef90_U7D7H5 Q L D E G E V K K A L N R E I E Q G G H K T Y A E L L A C F I P P A L T P S C E
UniRef90_A4XYQ6 Q M P L A K L Q Q A L G K P R G K H S M A K H L H R Q A G L D G V
UniRef90_A0A014MCR4 A F S A D K V L E Q V R H P R G S R S L S S H L K G R L G
UniRef90_UPI00045E5FA5 D R T V Q Q L A D R L Q H R R P K D S G S T W L R R S I G L D P V A I A L M R E
UniRef90_E5VHV3 Q M T L E E T T E V F L K S C N Y K T V E E F F Q G F L F K K
UniRef90_UPI000472DF0A A F D A A R V A A E V A R P R G S R S L A T H L K S R R Q L G L G G V
UniRef90_UPI00047E1D95 G R D E A T L R A A L A R P R N G R S L S D H L R R Q A G V H G
UniRef90_UPI0003719AD7 G R S A E D V A A E I G R P R G S R S V S S H L Q S R L G L G I
UniRef90_F8J6H7 D L T Q S A L A E R L G R R R S G E T L T N F L R K A A H L D P V A V A L
UniRef90_UPI0003602063 D I S D Q L A E R L A A P R G K R S T S T H L A K A A G L A P V A T G L L
UniRef90_UPI00038244F6 D L P A E D V L R R L S A P R R G Q S L S N F L R K T L A L P P V
UniRef90_S3YME7 D V S I D Q L E Q K L Q G N K K Q S L T N L W R K A G L D Q V K I N L R E V V
UniRef90_N9E7T8 D M T I E Q L E K K L Q A N K K Q S L T N V W R
UniRef90_X4Z2A7 G W S A Q R V L Q A V H H P R G A R S W S S H M Q S R L G L K G V
UniRef90_UPI0003728580 N T S E V Q L L T L Q R P R G K Q S L S N H L R K T T K L S G A K L A L
UniRef90_I0HS01 A R P L D W V R R E L A H P R G S R S L A S H L K S R L
UniRef90_I7ACN0 D R S Q A R I A G A L A R P R G S Q S M A K H L H R K L K L D G A
UniRef90_F0LDY8 G R T V E R L G R D L A K L G R K E S F A N R L R K A V G L S A V K V I G L
UniRef90_Q5P2M9 G R T L E R L T E E L S R P R G A R S M S S H L Q S K V G I A G V
UniRef90_C7MKV8 A T P A E S A L S W A Q E R S R A L G V C T W R E W C T G A F L P L I A R A L L
UniRef90_UPI000382D74D D L V E T D L A G R L G A G R S D R S L S T H L R K A A G L P P V C V A L
UniRef90_K6C5J0 G K S Q G D V H K A L S K P R G S R S M S R H L H S Q L G I D G A
UniRef90_A1VPB7 D K T P E Q V L V E V R H P R G S R S L S S H L K S R L
UniRef90_UPI00034BE817 D L D V A A L T A R L S K P K A K Q S M S T Y L R K A A G L S P A G I G L L
UniRef90_UPI00045E7E74 D L D G A L A R R L G G G R G S A S L S T F L R K A A G L A P V
UniRef90_A6EP54 S F S L E K V S E K I N A S N S K N T T Q L L K R E L K
UniRef90_UPI000374D809 D H S P E K I V R S L A K P R G S Q S M A K H L K R Q L G L D G V
UniRef90_N9BNV7 D L S Q E Q I L Q K L Q Q G K K Q S L N T I W Q K I
UniRef90_UPI0003788FCF T L S A E A I H K R L A S Q R P R E S R S N R L R K A L G L D R F
UniRef90_UPI00036A763B D R P A G A V T A A V C R P R G S R S W S T H L K K E L G L D G V
UniRef90_A0A059FTU4 L L P D L D R D V L A A K L A R P R G K Q S M A N H L R K T A R L T G V K L
UniRef90_M3J7C5 G R T L E R L T L D L S R Q D K K L S I S N L R K G
UniRef90_D9QKD8 D L T E A L A E R L A R P R G K D S M T N H L A G G L S A A A I G V L R
UniRef90_UPI00046FB896 D R T V K Q L S D A L A R P R G K K S F A T H L K R A T G L T G I K A A L
UniRef90_A3VHD4 D L T Q D E V A A R L A K P R G K A T V A G H L R K A L K L D P V R L A
UniRef90_H0J8F0 Q R D L A E L G R A L A K P R G S H S L A N H L R
UniRef90_N9AB70 D Q R V E Q L L Q K L Q Q G N K Q S L N T V W
UniRef90_V4Q4N1 D L T A D Q A I N K L K R A S P K D S Q S N R L R K A L N L S P A A L A L
UniRef90_N8X6D1 D Q S I Q Q L V Q K L Q P S K K Q S T A N I W R K A G L D T A K S S L R E L V
UniRef90_N2J7E1 T K E Q S A L A A A L S K P R K G K S M A N H L R A H A G L E G A R S A L
UniRef90_U3QE82 S H N A E Q V S T E A N H P R G S R S L S S H L Q S R L G I T G V
UniRef90_T2JVX1 P D N P Q V S T E K L I E S Q Y R Q S R Q Q I S S F C P F P L K R L W Q R L L
UniRef90_UPI000371351D G R S I E R L A K D L A R Q P R G G Q S L S S W E A K A S L S N R L R K G A G L E G V
UniRef90_J2H6D9 D L S V A L T A R L S R P R G G Q S L S S W
UniRef90_Q11XF1 S F S K E S L I Q K L S L K T T K S L T Q I L K N E I K L S D T Q I A L
UniRef90_W0IM21 G R T V A R L S R D L A R Q D A K S S F S N R L R K G A G L D G V
UniRef90_UPI00030E6051 N R P V D K I Q Q A L A K P R G S R S M A K H L H S Q L G L D G V
UniRef90_G9AEC1 G R T A E R L R R D L A R Q D G K A S F S N C L R K G A G L E G V
UniRef90_Q0ASJ1 H R D V S D L A N W L G R A K K G Q S L T N T L R K A G L T P Q A I S V L
UniRef90_B3R3U4 S H S A G Q V S A Q V E H P R G S R S L S S H L Q S R L G I
UniRef90_G9ZU32 D I T A D D L A R K L D E G R R G Q S L S T F L R K A A N L S P V A I G L V
UniRef90_UPI00040B2D31 D M T A A E I A D R L A R A G S S D S A P N R L R R A L S L T G P A Y S L
UniRef90_S6AFK2 S H S L E K V V G A L A R P R G S R S M A K H L H
UniRef90_UPI0004769BA5 T L S T D D V L K R L L A Q R E R E S Q S N R R K A L S L D A P S R D L L
UniRef90_Q5FQ89 G R S R D R I A R D L M R Q D P K A S L S N R L R K G A G I D G I
UniRef90_S3H7M7 E L T Q V E L V Q K L Q P H K K Q S M A N I W R K A G L D A A K A N L V A R E L V
UniRef90_V2VRH7 G V T L E D L A R R L S G P R K R G R A S F S T H M K K A G G L S P L V A R A L L
UniRef90_M4VFU3 D K P V D K I A Q A L A K P R G S R S M A K H L H S Q L N I D G V
UniRef90_S2KSQ1 D R D F A R V L H E I E H P R G S R S M S A H L S S R L G L D A T
UniRef90_UPI0004769BA5 G R T A E R L A R D L A R Q D R K A S L S N R L R K G A G L D G V
UniRef90_A6UG50 D R T A D W A K T E V A H P R G A R S L A S H L Q S R L G L K G V
UniRef90_Q3SI42 D L T L A Q V Q N R L A R V P A A D S L A N R L R K A L S L A P P
UniRef90_B6ITG3 G R T T E R L E S D I A R Q D T K L S F G N L L R K A A
UniRef90_A6X0T7 G R N E E R L A R D L A R Q D S K A S F S N R L R K G T G I E G V
UniRef90_L0LSU3 G R T A E R L A R D A K A S E S N Q L R K G A G L D G V A K A T L
UniRef90_UPI00040C1678 N I S V K E L E T H F Q N E R E K S L K N A L K L L P E R L G A F Y A
UniRef90_UPI0002BC1DB9 D L T Q G Q V I S K L G R A S P K D S L S N R L R K A L G L T P A
UniRef90_V4NQS0 A L G V A D I T T R I A R V R A R E S L S N T L R K A L R L T P E A L
UniRef90_G2I1P9 E L S E H E I S K L K N A K Q S M N N I W R K L G L D T A K S N L R E L T
UniRef90_A0A031LVH5 D L S L G A L A E R L A A P R G K R S L S T H L I E K A G G L A P V A R A L A
UniRef90_UPI00035FA42A D L A E A E V A A R L A K M R A A E T T A N R L R K L G L Q A P A V A L V
UniRef90_C8RW59 H K T Y A E V A L A Q R P R G K K T L K H L Q Q Q L G L D G V
UniRef90_UPI0003B68121 W V R L C D M E A F L N R R R K L G R D V M W N D M L R G M V L A P V A D V L L
UniRef90_S6CKR0

UniRef90_A9DWL6 S P A Q I A L L Q E M A R P L P Q G V E A L A E L L K A L L P I A H A G L R P M D
UniRef90_Q2KWT1 K A G L L R E C L P D F H D L D L L A Q R I K A L L P I R I Q T P R P I D
UniRef90_UPI00036F087B K M A L L R E A L S A E Q L N D P V K L L A H A I K A L L P L V L A A P R P I E
UniRef90_U3HHS7 K A G L L R E L T P A E V F T D P A R L L A A A I K A L L P I T L V L A A P R P I D
UniRef90_F2J114 R E A G P V P D D P A A L L A D R I K G V T L R L V G A A P I E
UniRef90_UPI0004796004 G Q A G V D P D T R F K G L T R P E R R A L V S L L C E F P L G E P G P V A L E
UniRef90_M6BRG5
UniRef90_UPI000361F4CA K A G M L R E F C D T A T Y A D P A A L A Q A I K A L L A V P L H A Q R R P I D
UniRef90_W8IA07 P E A T S L L Y E D R T K A Q V N T R T D L N A L A E R I K S L P I A V L R S R P I A
UniRef90_T0DJR7 A T S L L Y E D R T K A Q V N T R T D L N A L A E R I K S L P I A V L R S R P I A
UniRef90_A4YSR6 G L L Q E A A K T Q G Q S L S S L P P E R L A A L V N D V P I K L T G T A G L A
UniRef90_E3I8D2 Y E E A V R G G S P L A D L D V A E L V R L I K G V R V P V P V Q R T A P A P I E
UniRef90_UPI00036EA2A2 K V A L L R E L A R A T D L N D P D R L A R L I K A L L P L P I A A T A G L A
UniRef90_UPI0001D2F07D S K L E I A L L R I A A P T P P E D A Q G L A A L I K A L L P L P I A A T A G L A
UniRef90_B1Y3W4 L R E G L D A A W M R L Q H D A A A L H R I K A L L P L R L L A Q R T R P I D
UniRef90_R4XIH0 K A G L L R E C A G A D D Y R D P A R L L A G R L I K A L L P L V L Q R T R P I D
UniRef90_I2JEV7 K Q C G L S G S K L A K T L T S K A I D A I P A R L I K A L L P Q T L C S T R S L D
UniRef90_C7RL61 K L G L L H E C L S A E T M V D P Q R L G A A I K C L L T R L L D V Q G L S
UniRef90_UPI000406BED5 A V A L L R E G G P L S A D P A Q L G A A R I K G L A L T L T A P V Q G L S
UniRef90_U7D7H5 N H L H A R G C T S V P N L R K K E R R E I L F T L K Q F P C I P E S T G P S R
UniRef90_A4XYQ6 K A A L L R E L A P A E A F T D P A A L A P W I K A L L P I T L L R T R P I D
UniRef90_A0A014MCR4 L D G V K A A L L Y E L L S K E D M H R L A H A I K A L L P I T L V V A A R P M D
UniRef90_UPI00045E5FA5 S S G G A M P S D A A A T A A L V K A V P V V V T A T M P I E
UniRef90_E5VHV3
UniRef90_UPI000472DF0A K A A L L Y E C L P R E Q I A D P G R L A E A L I K A V P L T L S A A R P I A
UniRef90_UPI00047E1D95 V R A G L L H E V L G H P L P D D P Q R L A A A G L K R L P L R L L M S P R P I D
UniRef90_UPI0003179AD7 L R E G V K A R I L R E I L T K E A M H A L A A A I K A L L P L R L V R A R P I D
UniRef90_F8J6H7 T R E G V K A R I L R E I L T K E A M H A L A A A I K A L L P L R L V R A R P I D
UniRef90_UPI0003602063 R E A G P L P A D A E A L A R R I K A T P L R L L I G V S G L E E E
UniRef90_UPI00038244F6 A L G L L R E A A R E A P D S L S E P A R L A G L V K A L L P L R L L T G L R P I E
UniRef90_S3YME7 A K S L W S D A K H M A Q Q I K Q L N I S L D G F R P I E
UniRef90_N9E7T8 K A G L D S V K L L R E I T D K N I K Q M A Q Q I K Q L N I S L D G F R P I E
UniRef90_X4Z2A7 K T A L L R E C L P D F N D L D L L A R R I K A L L P I P L T I S G T A P I D
UniRef90_UPI0003728580 L Y E G I D K A I L Q D M S K L A M R I K S L P L T I S G T A P I D
UniRef90_I0HS01 N L G G V K T L L L W E L V P K A E Q H K L A A A I K A L L P V P V T A P R P I A
UniRef90_I7ACN0 K A A L L R E L T A A E T F Q D P Q A L A A A I K A L L P L V R A R P I A
UniRef90_F0LDY8 L R E I F H D I S A M P D D L V L A A A I K H A E I P L A R T R P I A
UniRef90_Q5P2M9 K A G L L R E C L P R D A F A S P A R L A A A L H A L P L R L A A P R P I D
UniRef90_C7MKV8 T H A H I S A D T T V E E Q S L Q T F M R V A K S F D L T V K G L Q G D L V S A
UniRef90_UPI000382D74D L R E G G D L P R E P E A L R R I K A T P L R L I A P R P I A
UniRef90_K6C5J0 K A S L L R E V A P R E A F D D P V L L S Q A I K A L L P V R L L A A R P I A
UniRef90_A1VPB7 N L D G I K A A M L Y E V L G K E A I A K L A A G I K A L L P V R L L A A R P I A
UniRef90_UPI00034BE817 Q E A R Q D G V A L A K L A P D A L A A L I N A V P V R L L A S V A P I A
UniRef90_UPI00045E7E74 A V G L I R E A T G P T R P D P A T L A R L V K A L P L T I T G H A G L E
UniRef90_A6EP54 S V S Q I D L L K T Y L S K E V L N K L A E N I K K E F L E I L G T A T I D
UniRef90_UPI000374D809 K A G L L R E L A P A E V F D S Q R L A H A I K A L P I L I G R A R P I D
UniRef90_N9BNV7 D K T K I A L L R D V I S K N D W N K M A Q H I K Q I A V Q I Q G F R P I E
UniRef90_UPI0003788FCF A R A L L S E C A P H A Q T P D E L T R A V T Q L P L T L T A P M P I D
UniRef90_UPI00036A763B K L A L L R D C T G P D L W A D P R R V A A A L K D L A V D L S G P P I D
UniRef90_A0A059FTU4 A L L H E A A G G A L P A D P Q A L A A L I K A L L E V T L T G T A P I D
UniRef90_M3J7C5 G L T G V K A A L V L E F Q R E K D P A K L A Q T I K A L E V L T L T G P I Q D
UniRef90_D9QKD8 E I G D I P P G F D K L A K R I K A V R L K L T G L Q G L D
UniRef90_UPI00046FB896 L R E L L P P A T F D V P E K V A A G I K T L P L R L T T T R P V A
UniRef90_A3VHD4 R H A G I D G A R L L R E F G R P L P D D L A P L V K A V P I R H A G L R P I A
UniRef90_H0J8F0 Q K A G L D K T K I V P K T D W N D A Q K M A Q H I K Q L A I C V Q G F R P I E
UniRef90_N9AB70 I H E K P G P D K S V T V R L T A A Q G L E
UniRef90_V4Q4N1 D K A L W N N P Q Q L A Q Q I K H L K I E L Q G F R P I E
UniRef90_N8X6D1 L R E L A P A K A F D D M Q H L A A A I K S L P L T V I R P R P I E
UniRef90_N2J7E1 K A A L L R E C L L K D A M Y D P G T L A L S L K A L P L R L R A R P I D
UniRef90_U3QE82 N F L A V D P Q K K W S E L S K N E L I K L A K E L T Q G E Y K I L G K G V F K
UniRef90_T2JVX1 K S A L L R E V A P E A T D P E R L A R S L K A L P I P L L G P R P I S
UniRef90_UPI000371351D
UniRef90_J2H6D9 L K A V I P K E T F L N A E Q L A T N I K S F P V A I T G M A P I N
UniRef90_Q11XF1 K A A L L R E L A P E R D R T D P E R L A G M I K A L P V P V I E T R P I A
UniRef90_W0IM21 K A A L L R E Q T D Q Q T F A D P P A L L A Q A I K A L P I P L V R P R P I S
UniRef90_UPI00030E6051 K A A L L R E L A P E V S K A D P P E R L A A A I K T L P I L L R P R P I S
UniRef90_G9AEC1 R D A T G V K A G D L R E C L S R D A M L T L A V S L K A L P L R V L R P I D
UniRef90_Q0ASJ1 Q E A L H Q G D Q R P L S A I V K A L S L R L E G V I Q G L E
UniRef90_B3R3U4 L R E G F A E A L A T P E A L A A A I K A I P L R V R A R P I D
UniRef90_G9ZU32 S Q L G L D G A R L L R E L S V K D P A R L A A A V I K A L P L T L V R A R P I D
UniRef90_UPI00040B2D31 K H A T P K D A T P L Q L A A Q T I K A L P L L I G M D A L D
UniRef90_S6AFK2 K T A L V H E F A A S G D L N D A D R L A R L I K A L H V P V L R P R P I A
UniRef90_Q5FQ89 P K A L R E L L I K A L Q I P L G L S G F R P I A
UniRef90_S3H7M7 R E L G G E E V S T L S P I M A L A T L I K A L P L T L S A P F G L A
UniRef90_V2VRH7 K A A L L R E L T D Q T T F A D C A A L A R A I K A L P L T L V R A R P I D
UniRef90_M4VFU3 K R A L L N E V L D R T R L A D S P Y V A A T I K A L P L T L V R A R P I D
UniRef90_S2KSQ1 K A A L L R E L S Q E A T R I A P E Q L A A L I K A L P V P V L V A A R P I A
UniRef90_UPI0004769BA5 K T A L L H E L L T P A A L R D A A R L A T A I K S L P L T L V A P R P I D
UniRef90_A6UG50 V P A L L R E L A P E G T L A G T G R L A A A V K A L S I V E L T G L R P I D
UniRef90_Q3SI42 G L T G V K A A L V E F T R D R S P E A L A A T I K A I S I P L L R P R P I A
UniRef90_B6ITG3 K A G L L R E L A E P A V L S H P E T L A R L I K A L P I P L L R P R P I A
UniRef90_A6X0T7 V R L F S T E E E R H D P A R L T A R L K A L P I P L V R P R P I E
UniRef90_L0LSU3 E D L P E K V K Q V S V K D L E T L Q K L K K L V T G K M S L A
UniRef90_UPI0002BC1DB9 A I A L L M H E T D A A D V K A V T V R L T A V I Q G L D
UniRef90_V4NQS0 A L L R Q G G D G P L P R D P A A L A R R V K A V P V M L R A P A I D
UniRef90_G2I1P9 P K Y D W A I A E K M A Q H I K H L S V K L D G F R P I E
UniRef90_A0A031LVH5 R L A G P F E G E D P A N N P K A L A A R I K D V P L T L G A A F P I E
UniRef90_UPI00035FA42A Q E F G R S L P M V Q A I K A L P I R L L A G A R P I D
UniRef90_C8RW59 K A A L L R E C A P A E S F N D M A Q L T A A I K A L P I R L L H A R P I A
UniRef90_UPI0003B68121 E A A A L D G A R P V A K G E T A V I A P V L K G L R L P V T G L I G D V R
UniRef90_S6CKR0

UniRef90_A9DWL6	E A I	S T
UniRef90_Q2KWT1	E A I	
UniRef90_UPI00036F087B	E A I	
UniRef90_U3HHS7	E A I	
UniRef90_F2J114	R A I	
UniRef90_UPI0004796004	R G E	V C
UniRef90_M6BRG5		
UniRef90_UPI000361F4CA	E A I	
UniRef90_W8IA07	E A I	
UniRef90_T0DJR7	E A I	S T
UniRef90_A4YSR6	R A I	
UniRef90_E3I8D2	R A I	
UniRef90_UPI00036EA2A2	E A I	
UniRef90_UPI0001D2F07D	R A I	S T
UniRef90_B1Y3W4	E A I	S T
UniRef90_R4XIH0	E A I	S T
UniRef90_I2JEV7	E A I	S T
UniRef90_C7RL61	E A I	
UniRef90_UPI000406BED5	R A I	
UniRef90_U7D7H5	E	
UniRef90_A4XYQ6	E A I	
UniRef90_A0A014MCR4	E A I	S T
UniRef90_UPI00045E5FA5	R A I	S T
UniRef90_E5VHV3		
UniRef90_UPI000472DF0A	E A I	S T
UniRef90_UPI00047E1D95	E A I	
UniRef90_UPI0003179AD7	E V	S T
UniRef90_F8J6H7	R A I	
UniRef90_UPI0003602063	R A I	S T
UniRef90_UPI00038244F6	R A I	
UniRef90_S3YME7	E A I	S C
UniRef90_N9E7T8	E A I	S C
UniRef90_X4Z2A7	E A I	
UniRef90_UPI0003728580	E A I	S T
UniRef90_I0HS01	E A I	
UniRef90_I7ACN0	E A I	
UniRef90_F0LDY8	E A I	
UniRef90_Q5P2M9	E A I	S T
UniRef90_C7MKV8	R C Q V	T
UniRef90_UPI000382D74D	R A I	S T
UniRef90_K6C5J0	E A I	S T
UniRef90_A1VPB7	E A I	
UniRef90_UPI00034BE817	R A I	
UniRef90_UPI00045E7E74	R A I	
UniRef90_A6EP54	E A I	S T
UniRef90_UPI000374D809	E A I	
UniRef90_N9BNV7	E A I	S C
UniRef90_UPI0003788FCF	R A I	S T
UniRef90_UPI00036A763B	E A I	S T
UniRef90_A0A059FTU4	A A I	S T
UniRef90_M3J7C5	E A I	
UniRef90_D9QKD8	R A I	S T
UniRef90_UPI00046FB896	E A I	
UniRef90_A3VHD4	E A I	S T
UniRef90_H0J8F0	E A I	
UniRef90_N9AB70	E A I	S C
UniRef90_V4Q4N1	R A I	
UniRef90_N8X6D1	E A I	S C
UniRef90_N2J7E1	E A I	
UniRef90_U3QE82	E V	
UniRef90_T2JVX1	D E F V	T
UniRef90_UPI000371351D	E A I	
UniRef90_J2H6D9		
UniRef90_Q11XF1	E A I	S T
UniRef90_W0IM21	E A I	
UniRef90_UPI00030E6051	E A I	
UniRef90_G9AEC1	E A I	
UniRef90_Q0ASJ1	R A I	
UniRef90_B3R3U4	E V	
UniRef90_G9ZU32	R A I	
UniRef90_UPI00040B2D31	R A I	S T
UniRef90_S6AFK2	E A I	
UniRef90_Q5FQ89	R A I	S T
UniRef90_S3H7M7	E A I	
UniRef90_V2VRH7	E A I	S C
UniRef90_M4VFU3	R A I	
UniRef90_S2KSQ1	E A I	
UniRef90_UPI0004769BA5	E A I	S T
UniRef90_A6UG50	E A I	
UniRef90_Q3SI42	E A I	
UniRef90_B6ITG3	R A I	S T
UniRef90_A6X0T7	E A I	
UniRef90_L0LSU3	E A I	
UniRef90_UPI00040C1678	E A I	
UniRef90_UPI0002BC1DB9	K S F V	T
UniRef90_V4NQS0	R A I	
UniRef90_G2I1P9	R A I	
UniRef90_A0A031LVH5	E A I	S C
UniRef90_UPI00035FA42A	R A I	
UniRef90_C8RW59	E A I	
UniRef90_UPI0003B68121	E A I	S T
UniRef90_S6CKR0	Q C Q V	

UniRef90_A4BYW0 A A S T
 UniRef90_UPI00036FE870
 UniRef90_A3STW0 E A S T
 UniRef90_A1KC32 E A S T
 UniRef90_I7EGC5 E A S T
 UniRef90_S6H647 E A S T
 UniRef90_UPI0002E7BDB1 E A S T
 UniRef90_R5FF45 N A Q V C
 UniRef90_C4FBE6 Q A Q V
 UniRef90_UPI0004797AEA E S
 UniRef90_I4WF08
 UniRef90_B0VLD6 E A S C
 UniRef90_UPI0002DAC2CD
 UniRef90_K0VCW0 E A S T
 UniRef90_C9CYW4 E A S T
 UniRef90_Q0FL77 E A S T
 UniRef90_UPI0004698C83 E A S T
 UniRef90_UPI00047C6124 E V I
 UniRef90_R5ZML0 F S Q V
 UniRef90_A4ETZ9 E A S T
 UniRef90_U2U6S5 H A Q V T
 UniRef90_A6VS73 E V I
 UniRef90_B9NLR7 E A S T
 UniRef90_C8W7D3
 UniRef90_UPI0003B3C9C8 G A S C
 UniRef90_V2TQ06 E A S T
 UniRef90_UPI0003721B27 K A S T
 UniRef90_F0HPR1
 UniRef90_UPI0003D06BC6
 UniRef90_UPI00037E8436 K A S T
 UniRef90_U4UXN3 E A S T
 UniRef90_F6CX41 E V I
 UniRef90_S7U194 R A E V T
 UniRef90_B6GEI6 Q A H V
 UniRef90_A0A052JED1
 UniRef90_V7ENU0 E A S T
 UniRef90_UPI0003635204 E A S T
 UniRef90_Q16E02 E A S T
 UniRef90_UPI000225F355 R A S T
 UniRef90_UPI00036A3AC7
 UniRef90_V4QJP1
 UniRef90_A0A021X294 E A
 UniRef90_G8QFM8
 UniRef90_A2SGQ5
 UniRef90_B8H0P0
 UniRef90_G6XFZ7 R A S T
 UniRef90_C8PV04 E A S C
 UniRef90_UPI0004757A00 E A S T
 UniRef90_D0CU77 E A S T
 UniRef90_R7FLZ2 E S Q V
 UniRef90_V2UMY7 E A S C
 UniRef90_UPI0004747A66
 UniRef90_A4WXA9 E A S T
 UniRef90_V7ZDM9

lupas_21
 lupas_14
 lupas_28
 jnet
 conf 1 1 0 4 8
 sol25 B B
 sol5
 sol0
 jhmm
 jpssm