

QUERY	L	V	V	P	K	K	H	Y	D	S	L	I	D	I	P	D	K	E	M	D	I	V	S	H	I	H	V	V	I	N	K	I	A	K	E	K	G	F	D	Q	T
UniRef90_B8GPJ6	L	V	I	P	R	K	H	H	I	A	S	T	L	N	D	T	L	P	A	E	D	E	A	L	V	G	R	M	L	A	A	R	Q	V	A	G	E	K	G	L	A
UniRef90_G7CBG9	L	V	I	P	K	R	H	H	T	I	N	D	L	T	D	T	P	E	Q	D	E	A	G	M	V	T	L	G	Q	R	I	A	R	A	R	R	E	R	G	L	H
UniRef90_B3E713	L	L	M	P	K	R	H	H	T	I	N	D	L	T	D	M	T	P	E	Q	D	E	A	V	V	G	H	L	F	R	V	A	G	Q	L	A	R	R	E	R	S
UniRef90_C6PTZ5	L	I	I	P	K	R	H	H	I	S	N	L	N	E	L	T	D	E	S	D	S	K	I	V	V	A	H	V	F	V	V	L	K	E	I	V	K	L	G	L	D
UniRef90_L0DU16	L	V	I	P	K	R	H	H	I	A	S	T	L	N	D	V	S	T	D	E	D	R	A	I	L	V	G	D	L	M	L	A	G	A	S	V	L	A	R	K	F
UniRef90_S6HKD1	L	V	V	P	K	R	H	H	I	A	S	T	L	N	D	V	S	T	D	E	D	E	V	P	L	V	G	K	L	V	Q	I	A	S	Q	L	A	R	K	V	A
UniRef90_UPI00036A247D	L	V	I	P	K	T	H	H	I	A	S	T	L	N	D	V	S	T	A	S	E	A	E	A	P	V	I	G	Q	M	A	Q	A	A	E	I	A	R	D	R	G
UniRef90_UPI00046A16BD	L	I	I	P	K	Q	H	H	I	A	T	L	N	D	I	E	N	E	Q	L	A	T	I	V	G	S	R	L	Q	F	V	A	A	N	L	A	R	R	E	R	
UniRef90_B0K6Z8	L	I	V	P	K	E	H	H	I	P	T	L	D	L	E	N	E	D	N	K	H	I	V	G	S	H	A	Y	M	V	A	K	E	I	A	Q	E	L	G	V	
UniRef90_A8UW44	L	I	I	P	K	K	H	H	I	F	G	L	Q	H	L	E	P	E	D	E	C	L	V	G	H	H	A	M	F	T	V	A	R	E	I	A	Q	E	L	G	
UniRef90_UPI00034DB2F4	L	V	I	P	K	K	S	L	S	L	A	D	A	Q	E	E	N	D	R	A	L	L	G	S	H	L	L	L	T	A	N	Q	I	A	K	E	Q	E	L		
UniRef90_R6R870	V	I	V	P	K	K	H	L	S	A	S	A	N	E	L	T	E	E	N	A	A	F	I	V	G	H	I	Y	V	T	A	A	K	I	A	K	E	L	G	I	
UniRef90_X0MYM8	L	V	I	P	K	T	H	Y	P	N	A	A	S	L	A	A	S	P	Q	V	I	A	D	I	L	G	E	S	R	E	V	A	A	A	E	Q	I	E	D		
UniRef90_C2BIG2	L	V	I	P	K	K	H	H	I	Q	S	L	E	T	E	D	S	D	S	Q	A	L	L	G	K	I	F	L	A	I	R	K	I	A	R	E	K	G	I		
UniRef90_AA0A177C15	L	V	I	P	K	R	H	H	V	A	G	L	R	E	A	T	P	E	D	Q	A	L	L	G	K	V	L	L	G	A	Q	V	A	R	K	L	G	L	G		
UniRef90_E3CJL5	L	V	I	P	K	E	H	H	V	R	N	M	L	E	M	S	D	Q	T	A	A	D	V	F	A	R	L	P	K	L	A	R	A	A	K	T	A	T	G		
UniRef90_UPI0002E8FA57	L	V	I	P	K	K	P	I	A	R	L	A	D	A	E	S	P	E	D	D	A	L	L	G	H	L	L	L	T	V	K	R	V	A	E	Q	V	L			
UniRef90_C9RK34	L	V	V	P	K	R	H	H	I	A	T	L	M	D	M	K	P	E	D	C	E	L	V	G	K	M	L	Y	R	A	Q	L	I	A	K	K	L	G	L		
UniRef90_H7CY50	L	V	I	P	K	E	H	H	I	A	S	L	N	E	V	N	E	S	N	A	E	V	F	A	H	I	F	K	T	I	N	K	L	V	K	E	Q	G	L		
UniRef90_I1YJM6	L	I	I	P	K	E	H	I	P	D	R	L	D	N	V	T	E	S	Q	A	P	V	L	T	A	M	L	Q	K	L	P	E	L	A	E	S	Q	E			
UniRef90_V4LZ70	L	I	I	P	K	R	S	I	P	T	L	A	D	M	G	E	E	D	T	L	L	M	G	E	L	M	Q	A	A	K	V	A	E	M	E	G	L	S	E		
UniRef90_K0C4Y2	L	V	I	P	K	K	H	I	P	T	M	N	D	V	Q	E	E	D	T	A	A	L	T	A	E	L	F	A	T	A	R	Q	L	A	A	E	L	G	L		
UniRef90_AA0A15P8F9	L	I	I	P	K	R	H	F	V	N	L	D	T	P	D	L	E	A	E	A	L	Y	K	V	T	R	D	L	S	K	A	L	I	E	A	T	C				
UniRef90_M1ZG49	L	V	I	P	K	E	H	H	I	E	S	A	N	D	I	D	V	N	S	N	L	I	S	H	I	F	L	T	I	K	D	L	A	K	E	L	G	I			
UniRef90_U4QIZ1	L	L	I	P	K	K	H	H	I	A	S	I	M	E	L	K	D	N	A	E	N	L	I	S	H	I	F	L	T	I	K	D	L	A	K	E	L	G			
UniRef90_R6APC0	L	V	I	P	K	K	H	H	V	D	N	I	J	A	F	D	E	E	Y	A	N	K	N	F	S	D	F	F	L	V	V	K	L	J	A	E	A	G			
UniRef90_C9RFX8	L	V	I	P	K	V	H	T	E	N	I	F	T	L	T	S	E	A	A	G	Q	L	F	R	A	V	P	T	I	A	N	A	L	R	R	A	F	S			
UniRef90_D4JZP5	L	V	I	P	K	K	H	H	V	A	S	A	A	L	T	E	E	D	G	A	L	L	G	H	V	F	A	V	I	A	K	L	A	K	E	Q	G				
UniRef90_W1Q2W5	L	V	I	P	K	T	H	V	A	N	I	F	E	Y	D	E	L	J	A	T	K	V	M	T	K	L	P	K	L	S	R	A	V	R	R	A	F	P			
UniRef90_G8LSN4	L	I	I	P	K	H	H	I	K	N	V	M	E	L	D	E	Q	N	A	D	I	M	K	D	I	H	L	A	A	K	N	I	A	V	K	L	G	I			
UniRef90_T0PKK6	L	V	I	P	K	E	H	H	I	S	V	N	Y	I	N	E	D	G	N	A	E	V	V	G	H	I	F	T	T	I	A	K	L	A	K	E	L	G			
UniRef90_UPI00047D55BE	L	I	I	P	K	V	H	V	E	S	I	M	E	L	D	P	A	S	D	V	L	K	G	I	V	Q	T	V	Q	K	L	S	K	Q	Q	G	V	K			
UniRef90_R6N2S0	L	V	I	P	K	K	H	H	I	T	S	L	A	H	L	E	K	E	D	E	A	J	V	G	R	I	Y	G	V	I	N	K	I	A	E	E	Q	G			
UniRef90_K2CEB2	L	I	V	P	K	R	H	H	I	A	S	T	L	N	D	L	Q	P	E	D	N	V	L	G	H	M	V	Q	T	V	K	L	A	K	E	D	F				
UniRef90_A3YBL8	L	V	I	P	K	K	H	L	S	T	L	N	D	L	T	E	E	D	I	P	L	M	G	K	M	H	F	V	A	K	T	L	A	K	E	K	G	V			
UniRef90_D6XX10	L	V	I	P	K	Q	H	E	E	S	I	F	E	L	S	E	E	T	A	R	N	L	F	A	A	V	P	K	V	S	G	A	L	K	A	A	F	D			
UniRef90_D5TFL6	L	V	I	P	K	E	H	H	I	L	S	F	E	L	S	E	E	T	A	R	N	L	F	A	A	V	P	K	V	S	G	A	L	K	A	A	F				
UniRef90_R5E834	V	V	L	P	K	E	H	H	I	L	S	F	L	E	M	D	E	E	R	A	E	L	F	A	S	V	N	R	I	A	K	Q	V	I	K	A	T				
UniRef90_A6CQQ4	L	V	I	P	K	V	H	K	E	N	Y	E	L	T	E	E	E	A	S	N	V	F	A	A	V	P	K	I	A	N	A	I	K	A	E	Y	N				
UniRef90_A6DPH6	L	L	I	P	K	K	E	L	L	N	L	S	D	A	E	E	N	D	Q	A	L	L	G	H	M	M	L	K	T	K	E	A	H	S	Q	G					
UniRef90_UPI00037456A9	L	I	I	P	K	K	H	L	A	T	M	N	D	V	A	T	E	D	L	P	L	I	G	E	I	H	Q	T	A	Q	I	A	K	D	L	G					
UniRef90_UPI0003769B00	L	V	I	P	K	V	H	K	E	N	I	F	E	L	M	P	N	M	T	A	P	L	F	E	S	V	K	K	V	A	D	A	I	Q	A	T					
UniRef90_UPI00040AAC5	L	I	I	P	K	H	A	K	N	I	Y	E	T	P	P	E	V	A	Q	E	L	F	K	K	V	P	K	V	A	T	A	L	K	E	A	F					
UniRef90_D4MMH9	L	I	I	P	K	E	H	H	I	G	G	V	D	E	N	E	S	N	A	G	L	V	K	D	L	M	L	V	A	K	H	L	A	E	S	F					
UniRef90_F2F019	L	L	I	P	K	T	H	C	K	D	L	F	E	M	S	E	D	V	A	R	N	L	Y	A	A	A	P	K	V	A	N	A	K	A	A	F					
UniRef90_F4XDP4	L	V	I	P	K	T	H	H	I	A	S	V	A	E	V	T	P	E	N	A	T	V	V	A	H	I	F	A	V	I	S	K	V	T	K	E					
UniRef90_R9J4I3	L	I	L	P	K	H	Y	A	N	L	Y	E	L	P	E	D	E	T	A	V	K	V	M	L	L	A	K	K	M	A	V	L	M	T	E	K	L				
UniRef90_Q0A811	L	V	I	P	K	K	H	H	I	A	T	L</																													

QUERY	T	G	F	R	V	I	N	N	C	90	S	D	G	G	Q	Q	E	V	K	H	L	H	Y	H	I	L	A	G	K	K	L	P	N	Y	E	A	G	Q	N
UniRef90_B8GPJ6	R	G	Y	R	T	V	M	N	C	G	S	E	A	G	Q	Q	S	V	Y	H	I	H	L	H	I	V	L	A	G	R	R	S	M	Q	W	P	P	G	
UniRef90_G7CBG9	D	G	N	N	L	A	I	N	D	G	K	A	A	F	Q	T	V	F	H	I	H	L	H	L	V	V	P	R	R	N	G	D	K	L	S	F	A	K	
UniRef90_B3E713	G	G	F	R	L	V	Q	N	D	G	A	D	A	G	Q	T	V	F	H	I	H	L	H	L	V	L	A	G	R	E	L	Q	W	P	P	G			
UniRef90_C6PTZ5	T	G	Y	R	L	V	S	N	C	G	E	D	G	Q	Q	S	T	V	F	H	I	H	F	H	V	L	A	G	R	R	S	L	Q	W	P	P	G		
UniRef90_L0DU16	S	G	Y	R	T	V	T	N	C	N	P	D	D	G	Q	Q	S	T	V	F	H	I	H	L	H	V	L	A	G	R	R	L	S	W	P	P	G		
UniRef90_S6HKD1	D	G	Y	R	T	V	F	N	C	N	A	D	D	G	Q	Q	S	T	V	F	H	I	H	L	H	M	L	A	G	R	R	L	S	W	P	P	G		
UniRef90_UPI00036A247D	N	G	Y	R	T	V	M	N	C	N	D	H	G	G	Q	Q	T	V	Y	H	I	H	M	H	L	L	A	G	R	R	A	L	S	W	P	P	G		
UniRef90_UPI00046A16BD	D	G	Y	R	V	M	N	C	G	N	D	D	G	Q	Q	T	V	Y	H	I	H	M	H	L	L	M	A	G	R	R	F	T	W	P	P	A	G		
UniRef90_B0K6Z8	K	G	Y	R	I	V	S	N	C	G	N	D	D	G	Q	Q	T	V	Y	H	I	H	F	H	L	L	A	G	R	R	F	M	T	W	P	P	A	G	
UniRef90_A8UW44	D	G	Y	R	L	V	F	N	C	G	D	A	G	Q	Q	T	V	F	H	I	H	L	H	L	L	L	A	G	R	R	S	M	G	W	P	P	P	G	
UniRef90_UPI00034DB2F4	S	G	Y	R	T	V	N	T	C	G	A	E	A	G	Q	Q	T	V	F	H	I	H	F	H	V	L	A	G	R	P	M	E	W	P	P	G			
UniRef90_R6R870	Q	G	Y	R	I	V	N	N	C	G	A	D	D	G	Q	Q	T	V	F	H	I	H	F	H	V	L	A	G	R	R	S	L	Q	W	P	P	G		
UniRef90_X0MYM8	T	G	Y	R	V	F	N	T	C	G	A	G	A	G	Q	Q	T	V	F	H	A	H	L	H	V	L	A	G	R	R	G	L	Q	W	P	P	G		
UniRef90_C2BIG2	N	G	Y	R	I	V	N	N	C	G	E	D	G	Q	Q	T	V	F	H	M	H	F	H	V	L	A	G	R	R	S	L	Q	W	P	P	P	G		
UniRef90_A0A0177C15	S	G	F	R	T	V	I	N	C	G	A	N	A	G	Q	Q	T	V	F	H	L	H	V	H	V	L	A	G	R	R	A	M	G	W	P	P	G		
UniRef90_E3CJL5	K	G	L	N	I	L	N	N	C	E	V	A	G	Q	Q	T	V	F	H	A	H	I	H	I	L	P	R	Y	S										
UniRef90_UPI0002E8FA57	N	G	Y	R	L	V	I	N	C	G	P	D	G	Q	Q	T	V	F	H	L	H	L	H	I	L	A	G	R	R	Q	M	T	W	P	P	G			
UniRef90_C9RK34	G	G	A	R	F	V	I	N	C	G	K	A	D	A	G	Q	T	V	F	H	I	H	L	H	V	V	A	G	R	Q	E	M	G	W	P	P	G		
UniRef90_H7CY50	D	G	Y	R	V	T	N	C	G	K	A	D	A	G	Q	Q	T	V	G	H	I	H	F	H	V	L	A	G	R	R	N	L	N	W	P	P	G		
UniRef90_I1YJM6	G	F	R	T	I	N	T	C	G	P	A	G	Q	Q	S	T	V	Y	H	L	H	M	H	L	L	A	G	R	K	Q	L	P	G	F					
UniRef90_V4L7Z0	D	G	Y	R	T	V	I	N	C	N	A	S	A	G	Q	Q	S	T	V	Y	H	L	H	V	L	L	A	G	R	R	P	L	Q	W	P	P	G		
UniRef90_K0C4Y2	S	G	Y	R	T	V	F	N	C	G	K	Q	D	A	G	Q	S	T	V	Y	H	I	H	L	H	V	L	A	G	R	A	M	Q	W	P	P	G		
UniRef90_A0A015P8F9	A	G	Y	R	L	V	N	N	C	G	N	A	D	D	G	Q	Q	S	T	V	Y	H	L	H	V	L	A	G	R	R	K	L	G						
UniRef90_D4H5L5	D	G	V	N	L	V	Q	N	N	C	A	A	A	G	Q	Q	S	T	V	F	H	S	H	L	H	I	L	A	G	R	Y	E	N	D	G	K	F		
UniRef90_M1ZG49	E	G	Y	R	I	V	N	N	C	G	E	F	G	Q	Q	T	V	S	H	M	H	F	H	L	L	A	G	R	K	F	S	W	P	P	G				
UniRef90_U4QIZ1	K	G	F	R	L	V	N	T	C	G	E	E	G	Q	Q	T	V	N	H	L	H	F	H	L	L	A	G	R	R	F	M	T	W	P	P	G			
UniRef90_R6APC0	N	G	F	R	L	V	M	T	C	G	E	K	A	G	Q	Q	S	T	V	F	H	F	H	A	H	L	L	A	G	K	E	M	G	W	P	P	F		
UniRef90_C9RXF8	V	G	L	N	L	L	N	N	C	G	E	Q	A	G	Q	T	V	F	H	Y	H	L	H	L	L	L	P	R	Y										
UniRef90_D4JZP5	N	G	Y	R	V	I	S	N	C	G	E	A	G	Q	Q	T	V	K	H	L	H	F	H	V	L	A	G	G	E	K	L	P							
UniRef90_W1QJW5	L	G	L	N	I	L	N	N	C	G	Q	A	A	G	Q	T	V	F	H	S	H	I	H	L	L	L	A	P	R	Y	Q	G	D	S	D	G	F	G	
UniRef90_G8LSN4	K	G	F	R	L	I	N	N	C	G	E	E	A	G	Q	Q	T	V	F	H	L	H	Y	H	L	L	A	G	K	K	L	G							
UniRef90_T0PKK6	S	G	Y	R	V	T	N	C	G	M	Q	D	A	G	Q	S	T	V	A	H	L	H	F	H	L	L	A	G	R	R	N	M	G	W	P	P	G		
UniRef90_UPI00047D55BE	D	G	F	R	V	V	N	C	G	P	A	A	G	Q	Q	T	V	N	H	L	H	F	H	L	L	L	A	G	R	R	N	M	G	W	P	P	G		
UniRef90_R6N2S0	K	G	Y	R	V	I	V	N	C	G	K	D	G	Q	Q	E	V	M	H	L	H	F	H	L	L	L	A	G	K	Q	L	G							
UniRef90_K2CEB2	Y	G	F	R	T	V	M	N	C	C	N	A	G	A	G	Q	T	V	F	H	L	H	A	H	L	L	A	G	R	R	L	M	L	W	P	P	G		
UniRef90_A3YBL8	S	G	F	R	T	V	M	N	C	G	N	E	N	G	Q	Q	T	V	Y	H	L	H	M	H	V	L	A	E	R	K	L	N	W	P	P	G			
UniRef90_D6XX10	K	G	L	N	I	L	N	N	C	G	E	F	A	G	Q	S	T	V	F	H	Y	H	L	H	L	L	P	R	Y	S									
UniRef90_R5TFL6	S	G	Y	R	L	I	S	N	C	G	E	D	G	Q	Q	S	T	V	H	H	L	H	F	H	L	L	A	G	K	K	L	G							
UniRef90_D5E834	T	G	T	N	I	G	I	N	C	G	L	V	A	G	Q	T	V	P	H	V	V	H	L	H	I	L	A	P	R	Y	E	N	D	G					
UniRef90_A6CQQ4	L	G	L	N	L	L	N	N	C	G	E	D	A	G	Q	S	T	V	F	H	F	H	L	H	I	L	A	P	R	Y	G	Q	G	D					
UniRef90_A6DPH6	Y	R	V	I	T	N	N	C	G	A	G	A	G	Q	Q	S	T	V	F	H	L	H	F	H	L	L	A	G	R	R	S	L	N	W	P	P	G		
UniRef90_UPI00037456A9	S	G	Y	R	L	I	N	N	C	G	P	D	S	G	Q	S	T	V	F	H	L	H	Y	H	L	L	A	G	G	E	K	L	G						
UniRef90_UPI0003769B00	K	G	L	N	L	L	N	N	C	G	E	T	A	G	Q	T	V	F	H	Y	H	I	H	L	L	L	A	P	R	Y									
UniRef90_UPI00040AAAC5	V	G	L	N	L	L	N	N	C	G	E	P	A	G	Q	S	T	V	F	H	L	H	L	H	L	L	A	P	R	Y	K	G	D	G	F	D			
UniRef90_D4MMH9	N	G	W	R	L	V	S	N	C	G	E	D	G	Q	Q	T	V	R	H	L	H	F	H	L	L	L	A	G	K	K	L	S							
UniRef90_F2F019	A	G	M	N	T	I	N	N	C	G	E	A	G	Q	Q	T	V	F	H	Y	H	L	H	L	V	L	A	P	R	Y									
UniRef90_F4XDP4	S	Y	R	V	V	S	N	C	G	E	Q	A	G	Q	Q	T	V	P	H	L	H	F	H	V	L	A	A	G	R	D	M	T	W	P	P	G			
UniRef90_R9J4I3	D	G	F	N	L	V	Q	N	C	G	K	A	A	G	Q	T	V	F	H	F	H	L	H	L	L	L	A	P	R	Y	K	E	D	G					
UniRef90_Q0A811	S	G	Y	R	T	V	M	N	C	N	A	D	A	G	Q	E	V	F	H	L	H	L	H	V	V	L	A	G	R	R	L	R	W	P					

	1	10	20	30	40																																					
UniRef90_A5Z767	D	C	F	C	K	I	A	G	G	E	I	P	S	I	T	L	F	E	D	D	K	V	K	V	I	F	D	A	G	P	A	T	V	G	H	A						
UniRef90_P53795	D	T	L	F	G	K	I	I	R	K	E	I	P	A	K	I	I	F	E	D	D	E	A	L	A	F	H	D	V	G	P	Q	A	P	V	H	F					
UniRef90_W5N276	S	T	F	S	K	I	I	L	R	K	E	I	P	A	D	D	V	E	D	D	E	K	C	L	A	F	R	D	V	G	P	Q	A	P	V	H	F					
UniRef90_UPI00041D0343	M	D	T	I	F	H	K	I	I	L	R	K	E	I	P	A	D	D	V	E	D	D	I	I	A	F	R	D	I	S	A	P	Q	A	P	V	H	F				
UniRef90_I7K9R9	M	D	I	F	C	C	K	I	A	N	G	T	E	L	K	T	E	F	L	Y	E	D	D	E	R	V	V	A	F	R	D	I	I	A	N	G	T	E	L			
UniRef90_UPI0004654EDC	D	D	I	F	C	C	K	I	A	N	G	T	E	L	K	T	E	F	L	Y	E	D	D	E	R	V	V	A	F	R	D	I	I	A	N	G	T	E	L			
UniRef90_UPI00031936DA	M	D	I	F	C	C	K	I	A	N	K	E	I	P	A	N	I	V	Y	E	D	D	D	Q	V	I	V	F	R	D	I	I	A	N	G	T	E	L				
UniRef90_G4I5J1	M	A	C	C	V	F	C	C	E	I	V	T	G	T	A	P	A	R	V	Y	E	D	D	D	Y	L	G	I	L	D	I	R	P	F	T	I	G	H	T			
UniRef90_Q0F3H0	D	D	C	C	L	F	C	C	K	I	V	A	R	G	S	I	P	A	T	D	K	V	Y	E	D	D	V	V	A	F	R	D	I	H	P	K	A	D	T	H	V	
UniRef90_I1D1M7	Q	E	Q	D	L	F	C	C	R	I	V	R	G	E	I	P	A	T	I	V	Y	E	R	N	E	H	V	V	A	F	K	D	I	S	P	T	A	P	H	H	V	
UniRef90_Q3AP96	N	T	I	F	G	K	I	A	N	K	E	I	P	S	T	N	F	I	Y	E	D	D	Q	V	V	A	F	N	D	I	N	N	P	Q	A	P	V	H	V			
UniRef90_K2EVK8	K	D	D	I	F	C	C	K	I	A	N	G	E	I	P	S	A	T	V	Y	E	D	S	I	C	R	V	I	L	D	V	N	S	P	A	N	K	G	H	A		
UniRef90_T1L1Q1	N	N	O	C	L	F	C	C	K	I	A	A	A	G	E	I	P	S	A	T	L	Y	E	D	D	D	F	R	V	I	L	D	A	S	P	A	S	K	G	H	A	
UniRef90_R5K595	H	E	D	I	F	C	C	K	I	I	D	G	E	I	P	S	A	K	V	Y	E	D	E	D	V	A	F	L	D	I	T	S	Q	V	A	K	G	H	T	A		
UniRef90_N2A6F3	E	E	C	I	F	C	C	K	I	I	T	R	N	E	I	S	C	Y	K	V	Y	E	T	P	E	L	L	A	F	H	D	L	N	P	Q	A	P	L	H	A		
UniRef90_R6WBZ5	D	D	C	C	L	F	C	C	K	I	V	E	G	S	I	P	S	T	K	V	F	E	D	E	H	V	L	A	F	M	D	I	M	P	L	T	K	G	H	T		
UniRef90_UPI00040CE170	S	S	I	F	A	A	R	R	E	A	P	A	E	R	V	Y	E	D	D	D	G	L	A	F	L	D	V	I	R	N	P	P	L	T	R	G	H	T				
UniRef90_G4E8R4	E	E	C	I	F	C	C	K	I	I	T	R	N	E	I	S	C	Y	K	V	Y	E	T	P	E	L	L	A	F	H	D	L	N	P	Q	A	P	L	H	A		
UniRef90_W5SUF1	D	D	C	C	L	F	C	C	K	I	V	E	G	S	I	P	S	T	K	V	F	E	D	E	H	V	L	A	F	M	D	I	M	P	L	T	K	G	H	T		
UniRef90_UPI0002D80842	S	S	I	F	A	A	R	R	E	A	P	A	E	R	V	Y	E	D	D	D	G	L	A	F	L	D	V	I	R	N	P	P	L	T	R	G	H	T				
UniRef90_M2WVE1	E	T	I	F	D	K	I	N	R	E	I	P	A	E	I	L	Y	E	D	D	D	L	S	L	A	F	K	D	I	N	P	Q	A	P	F	H	V					
UniRef90_F2G9Y4	M	S	T	I	F	T	K	I	N	R	E	I	P	S	A	D	I	L	Y	E	D	D	D	T	L	A	F	K	D	I	N	P	Q	A	P	F	H	V				
UniRef90_E6RLP2	D	D	C	C	L	F	C	C	K	I	L	E	G	Q	I	P	S	A	K	V	Y	E	D	D	K	V	V	A	F	L	D	I	T	Q	A	T	K	G	H	T		
UniRef90_U4KQV9	N	I	F	C	C	K	I	A	A	G	E	I	P	S	S	N	T	I	Y	E	D	D	S	F	R	V	I	L	D	L	G	P	A	T	K	G	H	A				
UniRef90_E4KQ77	M	D	I	F	C	C	K	I	V	A	G	D	A	P	A	H	R	V	F	A	S	D	D	H	A	V	A	F	L	D	V	A	R	P	I	S	R	G	H	T		
UniRef90_UPI0003B5CAF4	M	A	S	I	F	T	K	I	N	R	E	I	P	A	D	I	L	Y	E	D	D	V	V	I	A	F	R	D	I	A	P	A	A	K	V	H	I	V				
UniRef90_K7RPG4	D	T	I	F	D	K	I	A	K	E	I	P	S	S	T	K	V	Y	E	D	E	N	V	L	A	F	R	D	I	N	P	Q	A	P	V	H	V					
UniRef90_L8DM2	D	D	C	C	L	F	C	C	K	I	V	K	G	E	I	P	S	T	K	V	Y	E	D	E	N	V	V	A	F	K	D	I	N	P	A	A	P	L	H	V		
UniRef90_I3DLF0	D	D	C	C	L	F	C	C	K	I	A	G	G	E	I	P	T	D	F	V	Y	R	D	E	D	V	V	V	F	R	D	V	A	P	Q	A	P	T	H	L	V	
UniRef90_M4DEI3	N	N	O	C	L	F	C	C	K	I	V	K	G	E	I	P	S	T	K	V	Y	E	D	E	R	V	I	A	F	K	D	I	N	P	Q	A	P	V	H	V		
UniRef90_R5Q894	D	D	C	C	L	F	C	C	K	I	V	A	R	K	E	I	P	S	A	R	K	L	Y	E	D	D	H	V	I	A	F	H	D	I	N	P	Q	A	P	V	H	F
UniRef90_D4M7V8	D	D	C	C	L	F	C	C	K	I	V	A	R	K	E	I	P	S	A	R	K	L	Y	E	D	D	H	V	I	A	F	H	D	I	N	P	Q	A	P	V	H	F
UniRef90_A3DF72	N	N	O	C	L	F	C	C	K	I	V	A	R	K	E	I	P	S	A	R	K	L	Y	E	D	D	H	V	I	A	F	H	D	I	N	P	Q	A	P	V	H	F
UniRef90_U3H3Y3	D	D	C	C	L	F	C	C	K	I	V	A	R	K	E	I	P	S	A	R	K	L	Y	E	D	D	H	V	I	A	F	H	D	I	N	P	Q	A	P	V	H	F
UniRef90_D6Y8I0	D	D	C	C	L	F	C	C	K	I	V	A	R	K	E	I	P	S	A	R	K	L	Y	E	D	D	H	V	I	A	F	H	D	I	N	P	Q	A	P	V	H	F
UniRef90_D2RJ52	E	H	G	D	D	C	C	V	F	C	C	K	I	V	S	R	G	D	V	Y	E	D	D	E	C	L	C	V	L	D	T	Y	P	L	C	C	G	H	S			
UniRef90_A0A022RKC7	D	D	C	C	L	F	C	C	K	I	I	N	G	E	I	S	S	E	K	V	Y	E	D	D	F	I	V	I	K	D	I	T	R	N	P	V	A	P	V	H	V	
UniRef90_H9UE99	M	D	D	C	C	L	F	C	C	K	I	I	N	G	E	I	S	S	E	K	V	Y	E	D	D	F	I	V	I	K	D	I	T	R	N	P	V	A	P	V	H	V
UniRef90_V9G5K4	D	D	C	C	L	F	C	C	K	I	I	N	G	E	I	S	S	E	K	V	Y	E	D	D	F	I	V	I	K	D	I	T	R	N	P	V	A	P	V	H	V	
UniRef90_I4DYG1	M	D	D	C	C	L	F	C	C	K	I	I	N	G	E	I	S	S	E	K	V	Y	E	D	D	F	I	V	I	K	D	I	T	R	N	P	V	A	P	V	H	V
UniRef90_V9VW09	D	N	I	F	A	K	L	L	R	G	E	I	P	S	A	R	V	Y	E	D	D	D	T	L	A	F	M	D	I	M	P	R	A	D	G	H	L	V				
UniRef90_A1BCP8	D	C	L	F	C	S	R	I	A	S	R	E	I	P	A	D	I	L	H	R	D	D	M	C	L	A	F	R	D	I	N	S	P	A	A	P	E	H	L			
UniRef90_S4RCN0	T	I	F	C	S	R	I	A	S	R	E	I	P	A	D	I	L	H	R	D	D	M	C	L	A	F	R	D	I	A	P	Q	A	P	T	H	F	L	V			
UniRef90_Q2LVF0	N	C	L	F	C	S	R	I	V	K	G	E	I	P	C	A	R	I	Y	E	D	D	H	V	L	A	F	E	D	I	H	P	M	A	P	V	H	V				
UniRef90_D5CNF8	N	N	O	C	L	F	C	C	K	I	V	R	K	E	I	P	S	R	K	L	Y	E	D	D	E	V	I	A	F	H	D	I	N	S	P	V	A	P	V	H	F	
UniRef90_G3P8Y4	D	T	I	F	G	K	I	L	R	K	E	I	P	S	V	Q	F	L	Y	E	D	D	K	C	V	A	F	P	D	I	N	P	Q	A	P	T	H	F	L			
UniRef90_C0QAW7	D	D	C	C	L	F	C	C	K	I	A	N	K	K	I	P	S	E	F	L	Y	E	D	D	T	V	A	F	R	D	I	N	P	A	A	P	V	H	L	V		
UniRef90_R4SM76	E	T	L	F	E	R	I	A	G	E	I	P	S	E	F	L	Y	E	D	D	T	T	V	A	F	R	D	I	N	P	A	A	P	V	H	L	V	V				
UniRef90_E6MF88	D	D	C	C	L	F	C	C	R	I	A	E	G	E	I	P	S	E	I	V	Y	E	D	D	K	D	I	A	F	K	D	V	A	S	P	Q	A	P	I	H	L	
UniRef90_A7RSL2	D	T	I	F	S	R	I	I	R	G	D	V	Y	A	T	F	I	H	E	D	D	K	C	I	A	M	D	D	I	N	P	Q	A	P	V	H	F	L	V			
UniRef90_E8RDK7	N	C	L	F	C	K	I	V	R	K	E	I	P	S	A	S	K	L	Y	E	D	D	E	V	L	A	F	R	D	I	A	P	Q	A	P	V	H	F	L			
UniRef90_F0SGK8	T	I	F	A	K	I	V	D	R	E	I	P	A	E	I	L	Y	E	D	D	D	L	A	L	A	F	R	D	I	A	P	Q	A	P	V	H	V	L	V			
UniRef90_D6E6W6	K	E	D	C	C	L	F	C	C	K	I	V	A	G	E	I	P	S	T	K	V	Y	E	D	E	R	V	L	A	F	E	D	V	N	P	Q	M	P	V	H	T	
UniRef90_F0S057	D	T	I	F	G	K	I	I	N	R	E	I	P	A	K	I	L	Y	E	D	D	E	L	V	V	A	F	H	D	I	N	P	Q	A	P	V	H	V	L			
UniRef90_Q5H400	D	T	I	F	G	K	I	I	N	R	E	I	P	A	T	I	V	Y	E	D	D	E	V	L	G	F	Q	D	I	A	P	Q	A	P	V	H	V	L	V			
UniRef90_R6H9T9	D	D	C	C	L	F	C	C	N	I	E	G	A	I	P	S	A	K	V	Y	E	D	D	V	C	Y	A	F	D	D	I	A	P	E	A	P	V	H	T	T		

UniRef90_A5Z767 L V I P K S H A A N V F E I D D E L L A H A H I V A K K V A T A L K E A T G C
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UniRef90_T1L1Q1 L V I P R K R I I Q L S K A E D P D E Q L L G H L M L V A R K V A K Q E G L D K
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UniRef90_E6RLP2 L I I P K Q P L A T V I N D I N N E N S H L V G N L S F V A A K I A K E G F A
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UniRef90_UPI0003B5CAF4 L V L P K N H H Y A D L F E I P E D V L A D A A K V A K K V A G T M K E K L S C
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UniRef90_L8DME2 L V V P R E H H T D L N S T H P G P A A D V F R V G H T L A R A V R E S D L L A R A
UniRef90_I3DLF0 L F V P K K E I P T L I N D I Q K E D E A L I G Y I Y S V I A K Q A K E L G L A E
UniRef90_M4DEI3 L V I P K L R D T T L L G K A E P R T I E V L G Q L L H A S K I V A E K E G L V D
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UniRef90_D4M7V8 L V I P R C H H V A S S A E V K D S A V W G A L M G A A V K V A L S L G L E K
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UniRef90_V9G5K4 L V I P K K H H I A S M N D L E D E D L L L L G E M H K A A K E A A A K L G L D E
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UniRef90_S4RCN0 L V I P K L R I A S I S Q A S S Q D T Q L L G H L L F I A K T L A K K E G L D E
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UniRef90_R4SM76 L V V P K K K R Y R N L A E L A S G D P Q L L A A D V A S T A R K V A E I E G V A E E
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UniRef90_R6FYX5 L I I P K E H H F D N I Y D L D G E T A G K L F A L A T C I A R A M R D A L K C
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UniRef90_UPI00041D0343	D G Y R I V M N D G D D G G Q T V F Q I L H I H V L	A G A P L G R F	
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UniRef90_UPI0004654EDC	A G F N V V Q N N G K E A G Q T V F H F H V H L I	P R Y E E G	
UniRef90_UPI00031936DA	D G F R V V T N G P H G Q Q T V F H L H Y H L L	G G R Q L N W	
UniRef90_G4I5J1	T G N N I A I N D G K S A F Q T V F H I H I H L V M	P R R	
UniRef90_Q0F3H0	A G Y R I V I N T V R A G G Q E V F H L H I H V L	G G K K L P	
UniRef90_I1D1M7	S G Y R L V F N T G K D A N Q T V F H V H C H L I	G G R N L T W P P G	
UniRef90_Q3AP96	S G Y R F V I N T G A D A M Q T V F H I H A H L I	G G Q A M G W P P F	
UniRef90_K2EVK8	N G Y R V V L N T G E K A G Q T V F H I H L H V L	G G R P M L W P P G	
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UniRef90_R5K595	D G L N I I Q N N G A A A G Q T V F H F H M H L V	P R F I K D T W P P G Q	
UniRef90_N2A6F3	D G Y N I V Q N N G E V A A G Q T V F H F H M H M I	P R Y Q G D	
UniRef90_R6WBZ5	D G Y N I V Q N N G E A A G Q T V F H F H M H L I	P R Y K D D G W K M G E	
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UniRef90_G4E8R4	R G Y R C V I N C N L D G G Q S V Y H L H I H L L	A G R K H S W P P G	
UniRef90_W5SUF1	C G V N I Y S A L G A D A G Q V I F H T H F H V V	P R F K G D D F G F	
UniRef90_UPI0002D80842	V G L N I L N N G A P A G Q S V F H F H I H L I	P R Y	
UniRef90_M2WVE1	D G A N L M L N D G P A A F Q T V A H V H L H V L	P R R H G D R L R F A T	
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UniRef90_I3DLF0	K G R V V S N C N E Y G G Q T V F H I H F H L I	G G E P L G T M	
UniRef90_M4DEI3	G F R V I N N G A E G C Q Q S V Y H L H L H V L	G G R Q M K W P P G	
UniRef90_R5Q894	D G F R V I N N G K D A G Q E V M H V H F H M L	A G R V L G	
UniRef90_D4M7V8	D G Y R M V I N T G E G S G Q T V P H L H I H L L	S G R N F G W P P G	
UniRef90_A3DF72	K G Y R L I T N C G V A A G Q T V F H L H I H V L	G G V D M G	
UniRef90_U3H3Y3	G F R V V M N C N E L G G Q T V Y H I H M H V L	G Q R Q L H W P P G	
UniRef90_D6Y8I0	S G Y R I V F N T G P Q A G Q T V F H V H A H V L	G G R A L N W P P G	
UniRef90_D2RJ52	K G F R V V L N T G V E G G Q T V P H L H F H I L	G G K E L G W P P	
UniRef90_A0A022RKC7	D S F N M L V N N G A A A G Q V I Y H T H I H I	P R K	
UniRef90_H9UE99	S Y R I V Q N N G K D A G Q E V H H I H F H I L	G G R K L G	
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UniRef90_I4DYG1	K G M N I N N N G E I A G Q T V F H T H I H L A	P R Y T E D D	
UniRef90_V9VW09	D G V T V Q Q F N E A A G Q E V F H L H M H V L	P R K E G D R L P P G T	
UniRef90_A1BCP8	S G Y R M V I N T G A D A L Q S V F H I H G H L I	G G C R M G W P P F	
UniRef90_S4RCN0	N G Y R V V I N D G P D G S Q S V Y H L H V H V I	G G R Q M L W P P G	
UniRef90_Q2LVF0	K G F R T V I N C K E E G G Q V I F H L H M H L L	G G C K L R D	
UniRef90_D5CNF8	H G F R T V I N S G K G G Q E V F H L H I H V L	G G G N L P P M	
UniRef90_G3P8Y4	S G Y R I V N D G P D G G Q S V Y H I H I H V L	G G R V M K W P P G	
UniRef90_C0QAW7	S G Y K L L F N V E K G G Q V I F H L H L H L I	G G W K	
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UniRef90_E6MF88	D G F R V V N N C G E A G G Q T V P H V H F H F L	A G R N M A W P P G	
UniRef90_A7RSL2	D G F R V V I N D G R H G C Q S V Y H L H L H V I	G G R Q L G W P P P	
UniRef90_E8RDK7	P H Y R V V F N N G S Q A G Q T V F H L H M H L I	G G R N M A W P P G	
UniRef90_F0SGK8	N G Y R T V I N T G D D G G Q E V P H L H F H L L	G Q R S M T W P P G	
UniRef90_D6E6W6	S G Y R V I V N T N N D A Q Q S V H H L H V H V L	G G A P M N S G D P S R K	
UniRef90_F0S057	N G Y R I L I N C C R K D G G Q E I Y H I H Y H L E	A G K P L G K M	
UniRef90_Q5H400	D G Y R I V M N C R E H A G Q T V F H L H L H L L	A G A P L G R F	
UniRef90_R6H9T9	S G Y R V V V N T G A D A G Q T V F H F H I H L I	G G K N L G	
UniRef90_UPI000379F269	K G M N L L N N N G S F A G Q E V F H Y H M H L I	P R Y	
UniRef90_UPI000382603F	S Y R L V F N T G A D A G Q T V F H A H L H V I	G G K P L G	
UniRef90_R6FYX5	D G L N L V Q N N G E I A G Q T V N H F H L H L I	P R Y E G D G	
UniRef90_U1WBN6	D G V N L L N N S G K V A S Q T V F H Y H L H L I	P R Y	
UniRef90_B4S6B6	S G Y R L L F N T G P D A L Q S V F H I H G H L I	G G Q K M G W P P F	
UniRef90_C8NFN9	K G L N I L S N N G E L A Y Q S V F H S H T H L I	P R Y	
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UniRef90_M3J715	D G V T V I Q F N E P A A G Q T V Y H L H F H V I	P R	
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UniRef90_X4Z3G0	G G F R L L A N A G A E G Q E V P H L H F H I I	G G	
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UniRef90_F3YW93	D G L N F G V N T N A A G Q V V M H A H F H L I	P R F A G D G L K W G Q	
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UniRef90_UPI000312817A	N G Y R L I M N C N N H G G Q E V Y H I H M H L L	G G R P L G	
UniRef90_F8A9I3	S G Y K L F F N V E K G G G Q L I F H L H I H L V	G G W K	
UniRef90_A6D9Z0	Y R L I T N N G K N A G Q E V F H L H I H L V		
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UniRef90_F2LI03	T G F R T V L N T G P G G G Q E V Y H L H A H L I	A G P R	
UniRef90_D0L995	D G V N L L N C C G A D A W Q T E F H F H L H V I	P R Y R T L P W R P G Q	
UniRef90_M7NDV0	A G M N L L N N T G A A S Q S V Y H F H L H F I	P R Y	
UniRef90_G0EE23	T G Y N V V V N V G K S A G Q E I M H V H L H V I	P R R E G D G	
UniRef90_C4LYI2	E G Y R V V N I L G E D A G Q T V K H I H F H I L	G G K K L A W	
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	1	10	20	30	40																																							
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UniRef90_E0WSI3	E	T	I	F	S	K	I	I	H	R	E	E	I	P	A	S	D	I	L	V	Y	Q	N	L	V	T	A	F	R	D	L	S	K	N	P	A	A	P	T	H	L			
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UniRef90_A8PP40	M	D	C	C	L	F	C	K	I	I	K	K	E	E	I	P	S	A	E	M	V	Y	H	E	D	D	A	F	R	D	L	S	K	N	P	A	A	P	T	H	L			
UniRef90_F0L356	N	N	N	I	F	A	K	I	L	R	G	E	E	I	P	S	H	K	L	Y	E	D	E	H	T	L	A	F	M	D	V	M	N	S	P	Q	A	P	G	H	L			
UniRef90_F9ZEW3	N	N	C	C	L	F	C	K	I	A	R	K	E	E	I	P	S	S	N	K	Y	E	D	E	K	D	L	A	F	N	D	I	S	P	Q	A	P	G	H	L				
UniRef90_S4DI30	N	N	C	C	L	F	C	K	I	I	N	Q	E	E	I	P	S	S	Y	K	V	Y	E	D	E	K	V	Y	A	F	L	D	I	S	P	Q	A	P	G	H	L			
UniRef90_D8LKN0	N	T	I	F	D	K	I	I	S	K	E	E	I	P	A	D	I	I	H	E	D	E	L	C	L	A	F	N	D	I	S	P	Q	A	P	V	H	F	L					
UniRef90_F0JGS5	E	S	C	C	V	F	C	Q	V	I	A	G	G	E	V	P	C	A	R	L	Y	E	S	E	D	T	V	L	A	F	L	D	I	S	P	V	L	H	A	G	H	A		
UniRef90_UPI000471CC61	N	N	C	C	L	F	C	K	I	A	N	G	E	I	V	P	S	R	T	L	Y	E	D	D	A	F	R	V	I	L	D	L	N	S	P	Q	A	P	V	T	K	G	H	A
UniRef90_R9IPA5	Q	D	N	C	L	F	C	K	I	V	A	G	Q	E	V	P	A	T	V	Y	R	E	S	E	T	T	L	A	F	R	D	L	N	S	P	Q	A	P	Y	T	H	L		
UniRef90_G2GJE7	Q	D	N	C	L	F	C	K	I	V	A	G	Q	E	V	P	A	T	V	Y	R	E	S	E	T	T	L	A	F	R	D	L	N	S	P	Q	A	P	Y	T	H	L		
UniRef90_R5QCJ2	Q	D	N	C	L	F	C	K	I	V	A	N	K	E	I	P	G	A	T	L	Y	E	D	D	V	C	L	A	F	L	D	L	N	S	P	Q	A	T	Y	G	H	L		
UniRef90_Q7Q5N0	D	T	I	F	G	K	I	L	R	K	E	E	I	P	C	T	F	I	Y	E	D	D	K	C	V	L	A	F	N	D	V	A	P	Q	A	P	V	H	F	L				
UniRef90_V4W718	D	T	I	F	D	K	I	V	A	K	E	E	I	L	S	S	L	I	V	Y	E	D	D	K	C	V	L	A	F	R	D	L	N	S	P	Q	A	P	V	H	V			
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UniRef90_G7Q567	E	H	A	D	C	L	F	C	K	I	V	K	G	A	I	P	C	A	K	V	Y	E	T	E	A	V	L	A	F	L	D	I	N	M	P	Q	A	P	G	H	A			
UniRef90_I1DU80	N	N	I	F	A	K	I	L	R	G	E	E	I	P	S	F	K	V	Y	E	D	D	D	Y	T	L	A	F	M	D	L	A	S	P	Q	A	P	T	K	G	H	A		
UniRef90_D4IXD5	N	C	I	F	A	K	L	A	N	G	E	I	V	P	T	N	S	I	Y	E	D	D	D	F	K	V	I	L	D	A	S	P	A	T	K	G	H	A	L					
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UniRef90_E6PNN2	N	C	I	F	C	K	I	A	G	E	I	P	S	N	T	L	Y	E	D	D	E	V	V	A	F	H	D	I	N	A	P	A	P	V	H	F	L	L						
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UniRef90_A1SWZ1	E	T	I	F	R	K	I	V	N	K	E	E	I	P	S	E	L	L	Y	Q	D	E	F	V	T	A	F	R	D	I	N	S	P	Q	A	P	T	H	L					
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UniRef90_F8DB79	M	S	T	I	F	S	Q	I	V	E	G	E	I	P	A	R	V	V	Y	E	D	E	T	T	L	A	F	L	D	A	N	P	L	A	P	G	H	T	L					
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UniRef90_I4BUQ2	D	E	T	I	F	C	K	I	N	G	E	I	K	G	D	V	V	Y	E	N	E	D	I	A	L	R	D	I	S	Q	V	T	K	G	H	L	L							
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UniRef90_B1LX23	D	N	I	F	A	K	I	L	H	G	E	I</																																

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M A S V F S K I I N G E L P A R F V Y R D E T C V A F L S V I E P L I R R Y G H G H T
Q E I D C L F C K I I R N E E P S E K I Y E D D D V T C I K D L N P L V S T H H Y S
D C C E F C C S I A A G D Q S V H V L I Y E D E D R T I A F L D A N P A V T R G H S
U C C I F C C E K L R E D Q E N L V V Y R G D K T F V I M N L Y P Y N N G H G H L
M A S L F T K I I N G E V P C Y K I Y A E T K D D Y F A F L D L N P N A K G H G H T
U C C L F C C N I I S G N E E G Y F V Y R D K D V S A L L D K Y P S A P G H G H T
M N C I F C C D I K N K K A L F E N K L A I A Y F D E F P V S K G H G H T
M A S I F T K I I N R E E I P G H L I A E E D D N N I A F L D L M P L V R G H G H V
M D C L G C K L A N E E E K I Y K V Y E D D Y V M C F L D H A P F R T G H G H T
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N C C P F C C K I I S G E I P D G K L I Y E N E L A Y A K P D K F P V N P G H G H L
M E C C L F C C K M I K G E I P G G K I Y E D E K V I A L L D L Y P L V T G H G H T
Q G M A T V F T K I I N G E I P G R F V Y R D A E V A A F L T I E P V A Y G H G H V
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UniRef90_UPI0003315058 Q D N C I F C R I A Q K D S S T E I L L Y E N E N L V C F R D L K P A A P H H Y

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UniRef90_L7M624 L I V P N E K H V E R D A K Y A L G T R S D I P L V N R R L V E I G K Q V L E Q H G G S M
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UniRef90_N9VDE6 A G S F I A M N N T V S Q S I P H L H L H I V P R N R

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UniRef90_UPI00026C7A71 D G F T T G M N I G K V A G Q K F P H A A L H I P R Y

UniRef90_S0EY22 T S S T V T V Q D G P D A G Q T V F H V H C H V M P R H V G D F P

UniRef90_F8EEZ8 D G L T I A C Q D G K A A G Q T V P H V H F H L L P R K K G D R F

UniRef90_B6R9W4 V G R V G V M F E G Y G V D H L H A K L F A

UniRef90_Q7PV69 D D A L L G F H L P P F I T V N H L H M H A I A P R S Q M G F

UniRef90_J7SCG3 D N A R I G F H L P P L V S V D H L H M H V I A

UniRef90_I6Z526 L S D V R F G F H W P P F C S V T H L H L H V L A P A S Q M G F

UniRef90_B3M7H4 Q S N Q Y R F G F H Q P P L N S V N H L H L H C L A S P F I P R

UniRef90_UPI0003F06271 K A F P C K K V G E A V I G L E V P H A H I H L I P

UniRef90_UPI00022B192D F N N V R M G F H M S P F C S I Y H L H L H V L A

UniRef90_B1ZT18 L A V P F R E V N E L E A L T P A E A A G L M A E I I F A K R L L T A A L S P 80
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UniRef90_G8RJM5 M V V P Y R V V S E L E D L T T D A E E S A E L M A F T Q K A I R V I K S V S N P
UniRef90_X1GQL3 M V A P Y R H T V G N L E E L T T G A E E R N E H F E M V S R A I R A L R E A F N P
UniRef90_H1XR84 M V V P Y Q H T G D Y L I E L S L E E V L L D M Q R T I Q K T I Q V L N A V M H P
UniRef90_L0A2H9 L V V P N A H F E A D L Y D L P D D E Y G A E I H R V S R Q V A L A L K A A Y G C
UniRef90_D5UN36 M V V P Y R Q V J A D N L E E L T D D E A F E L I K L T Q K T I R V I K R I S R P
UniRef90_W5WWJ7 L V L P Q R H C G D V L L Q L S L S D E E Y M D L Q N L L R L S M K V I T E A Y E P
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UniRef90_UPI000351227C L V C P K R E V K R F A D L S S D E I T S D L W V T A K E V G V R L E K Y H K A
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UniRef90_E0SQK6 M V A P I R H V P S I E L N D E E L L D L M K T I T L V I K A I R L C Y N P
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UniRef90_A8XHK8 L I S P K R V V Q H L T D L T D A E T A D L F I V A K K V Q A M L E K H H N V K
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UniRef90_K6W684 M I V P Y R Q V A R E L E D L T P E E S S L M S F T Q R M I R K T I K A V I S N P
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UniRef90_G0R8T8 L L C T R A H R P K L T D V T G P E A R D L G G C I R L L S A A L V R A T G I
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UniRef90_H8ZC20 L V I P K R H A N Q R L D I L P D A Y L Q G G L V L K K I V L Q L G L
UniRef90_E1Z512 L V S P K R V V A R F A E L A P E E V A D L W C L A Q R V G T A V E P H F S A
UniRef90_C5CGT3 W I L P K K H Q Y N F G D I D E K E V I E S F A S M L K R V L Y R I Y K A L D N
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UniRef90_N9IX01 L V I P I R H A E T L L I E T T D Q E A T N L I I G V K N A A T A I E K E Y K P
UniRef90_UPI00035FA623 L V I P R R H V V S L P F S L N E T E Q S D Y F D D H I D A V L E L P F L G N R P
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UniRef90_I2G502 L V I P T T P Y H R L F E I P T D N I A T L F Q S V Q E I S R G L E K V F N A
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UniRef90_V8CFW2 L L I P Y E H I D S P S A L S T Q S F L H L S N L A H K S T A L L E A F G A
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UniRef90_N1PLM5 L V S P R V K P S H L S D L T N D E I S D L F N T V T R V E R T L R R V Y Q S E
UniRef90_S3CZG0 L V I P F R A A K R M T D L T H D E V T D L F T V Q K V Q K M L A K H Y F E D
UniRef90_Q8GWE2 L I I P K L H Y P T L E E T P P S E H A G C C C H
UniRef90_G1QAR4 L V I P K K P F Q I S V A E D N D K N L G H L M I V G K K S A A N L G L E K
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UniRef90_UPI0003F0CCC3 L V S P L R V V I E R F K D L T P G E S V S D L F C C T Q H I S K V V E E V F K A
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UniRef90_B5JMQ0 L L I P Y R E V P D L E D L S D E E L L C F T K T L K A K R L L Q K A L K P
UniRef90_W0IZG5 L A I P F R E V G D L E D L S A E E R T D L F D I I V H G K R L L R T V M H P
UniRef90_R4HC13 L V V P K R H V P D M L S V P E V T G T V M R E I I V H G A T L A R A N G I
UniRef90_UPI000367CB28 Y V I P R R H V G L F T D L H G D E V T A L M A M V H Q V A K A V A V A E L S P

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UniRef90_U1LEE3	Q G F N V I G M N Q G R T A S G G S I	D H L H Q H I V V	P R W S L D	
UniRef90_G8RJM5	M G F N V G L N I G K V A G G S L	A H L H M H V V V	P R W	
UniRef90_X1GQL3	G G F N V I G A N I G K V A G G S T	D H F H S H I V V	P R	W Q G D T N
UniRef90_H1XR84	H A L N I G M N L G R I A G A G I	D H L H Y H I V V	P R	W D G D T N
UniRef90_L0A2H9	E G T S V R F H N E P G G Q D V W	H Y H L H V I V E	P R	
UniRef90_D5UN36	A A F N V G R N L G R S G G G S I	A H L H Q H I V V	P R	W P G D A N
UniRef90_W5WWJ7	G G I N V G L N H G A V A G A G S I	P H L H F H V I V	P R W	
UniRef90_G8BSK9	D A M N I A I Q D G P E A G Q S V	P H L H T H I V I	P R Y R L N N	
UniRef90_UPI00047BE18A	D G I S T R Q H N E P A G S Q H V	W H Y H Q H V L	P R W H D D G F	
UniRef90_R7UAX0	A E A R L G F H W P P F H L V S H	L H L H V I V	S P Q Q N L G F V S G Q	
UniRef90_B5YJT6	D G F N I G L N I G V A S A S I	D H L H W H I V V	P R W	
UniRef90_C0HB64	D L S D V R F G F H W P P F C S V	S H L H L H V L A	P A S Q M G F	
UniRef90_X8JV55	E G L T I A C Q D G A A A G Q S V	S H V H V H V I V	P R R	
UniRef90_UPI000351227C	S S L T F A I Q D G P Q A G Q T V	P H V H I H I V I	P R K K G D F E	
UniRef90_Q01D01	T S S T L A I Q D G P L A G Q S V	P H V H V H V L	P R R	
UniRef90_F8K3W1	G F N I G M N Q G A V A G A G I A	A H L H Q H V V V	P R	W G G D T N
UniRef90_I0GLB2	E G F N I G V N I G R A A G A G E	E H L H F H V V V	P R	W G G D T N
UniRef90_H2JK91	Q G F N I G M N G G V A G A G I A	A H L H Q H I V V	P R	W G G D T N
UniRef90_C3PGS0	D A V N A G F N L G R A S G G S V	Q H L H M H I V V	P R	W S G D S N
UniRef90_UPI000344BDED	H G F N V G M N L G T V A G A G I A	H L H Q H I V V	P R	W G G D T N
UniRef90_A7I5E0	D G Y T I G I N E G L A A G Q V I	A H L H Q H I V V	P R Y	
UniRef90_G4ZAQ4	S S L T F A I Q D G K E A G Q T V	K H V H T H V I V	P R	
UniRef90_D1Y3G8	D G F N V G I N I G A A A G A G I	D H I H C H V V V	P R	W N G D S N
UniRef90_Q7MA74	H G V N Y G I N I K R S A G A G I	P H L H L H V V V	P R	W S G D T N
UniRef90_F6C111	D G F N I G V N L G R I A G A G V	P H F H I H V V V	P R Y	Q Q D
UniRef90_H8YXY2	D G Y N I G I N D G H W A G Q S I	H H L H I H I V I	P R	P R K K G D
UniRef90_N6TYH6	S S T V C V Q D G E Y A G Q T V	P Q V H V H I V L	P R K K G D	
UniRef90_A0A059LPF0	S A L T L V I Q D G A D A G Q T V	P H V H V H V L	P R R K G D F E E N D Q	
UniRef90_UPI00042B366D	S S L T F T I Q D G P Q S G Q T V	P H V H L H I V I	P R R E G D F E	
UniRef90_Q3ASX3	H G F N T G A N L G R I A G G S V	D H I H F H I V V	P R	W D G D T N
UniRef90_B6QQR0	H H W N L V I Q N N G E R A A Q V V	P H V H F H I V I	P R P P L	
UniRef90_D6Y2E0	Q G F N V G M N G A V A G A G I A	A H L H Q H V V V	P R	W G G D T N
UniRef90_T1PFZ5	A A T V T V Q D G A D A G Q T V	P H V H F H V M	P R R P G D	
UniRef90_X1AW32	G G F N I G I N M G K V A G A G I	D H F H T H I V V	P R	W Q G D T N
UniRef90_G1XTL5	T G T T I A I Q D G G S A G Q S V	P H V H T H I V I	P R K L N D F P	
UniRef90_E0SQK6	H G F N I G S N I G K A A G A G I	H H V H I H I V V	P R W	
UniRef90_F0YS11	K A N D Y W L R F H P R P F N S V	D H L H L H V L A		
UniRef90_W5Y140	D A F N A G F N L G K S S G G S V	E H L H M H I V V	P R	W N G D S N
UniRef90_Q86KK2	G I T F A I Q D G K N A G Q T V	E H V H I H I V I	P R K K F D	
UniRef90_A8XHK8	A S T I C V Q D G K E A G Q T V	P H A H V H I V L	A R R S G	D F G D N
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UniRef90_A7SWA8	T S L T I S I Q D G P E A G Q S V	Q H V H V H I V L	P R K K G D F E	
UniRef90_K6W684	N A F N V G L N L G Y A A G G S L	A H L H Q H I V V	P R W	
UniRef90_U6HXZ9	R S L T I S M Q D G E D A G Q S V	P H V H V H V L	P R K P G D	
UniRef90_UPI00037A7782	A G F N V G L N L G G V A G G S L	D H L H Q H I V V	P R	W G G D A N
UniRef90_Q6CEJ3	T D F N V V Q N N G H G A G Q V V	D H V H F H I V I	A R R P L N T K D A E Q D	
UniRef90_G3XSZ6	W N W N V V Q N N G A R A A Q V V	P H V H F H V I	P R P P	
UniRef90_U2AE60	G F N L G M N Q G A V A G A G I A	A H L H Q H V V V	P R W	
UniRef90_C5ZYF0	K G I N L G M N L E A G A G A G I	P H L H L H L L	P R Y	
UniRef90_G0R8T8	A D W N V V Q N N G A A A A Q V V	P H M H Y H L I	P R P E L	
UniRef90_K9XBV0	D G F N V G I N V N R D A G Q N M	H T S I H I V I	P R Y K G D	
UniRef90_H8ZC20	K K Y N I L Q N N G H H Q S V	H H V H Y H I V I	P	
UniRef90_E1Z512	Q S L T L A I Q D G P Q A G Q T V	P H V H V H I V I	P R R P G D	
UniRef90_C5CGT3	P P Y N F M L H S G F S G K N Y Y	H W H L E I V V	P R T R V A G F E W G S	
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L V C P N R I V K R F V D L S A E E T I D L W F T A Q K I G N Q L E T H H K A
W I L P K K H K P Y F Q I V D Y K E R V M L G D C L R T V L K K L Y K G L N D P
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R V I W R E H V A E M T D L L T A D R R H L F A V V M A T E R A I L R D L L H P D
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