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QUERY	V	K	A	L	K	P	E	T	E	L	50	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	A	K	R	I	I	A	K	L	G	G	L	H	H	80		
UniRef90_Q8RAM9	V	K	A	L	K	P	E	T	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	A	K	R	I	I	A	K	L	G	G	L	H	H			
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UniRef90_UPI0002DDCF7F	V	K	T	M	A	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	E	K	V	V	E	E	A	G	G	L	H	H				
UniRef90_F4LTJ4	V	K	T	M	T	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	H	E	I	I	R	E	A	G	G	L	H	H				
UniRef90_D5XEJ3	V	K	T	M	T	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	S	K	L	V	K	E	A	G	G	L	H	H				
UniRef90_R7L559	V	K	S	M	T	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	S	K	L	V	K	E	A	G	G	L	H	H				
UniRef90_Q8RDN0	V	K	T	M	S	K	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	N	D	E	L	V	A	R	L	G	G	L	H	H			
UniRef90_UPI0003B78350	V	K	G	M	L	P	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	T	E	V	V	I	A	K	A	H	G	G	L	H	H		
UniRef90_D9SJA9	V	K	A	M	S	P	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	T	E	V	V	I	A	K	A	H	G	G	L	H	H		
UniRef90_E4RIK3	V	K	A	M	S	S	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	D	E	L	I	V	K	K	A	G	G	L	H	H			
UniRef90_C8W4D8	V	K	A	M	T	P	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	S	H	E	L	V	K	D	A	G	G	L	H	H			
UniRef90_J5UF87	V	K	S	M	S	V	D	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	S	D	L	I	V	K	K	A	G	G	L	H	H			
UniRef90_UPI00047CA955	V	K	G	M	L	P	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	L	E	V	I	K	E	H	G	G	L	H	H				
UniRef90_UPI00047AE23B	V	K	S	M	S	P	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G	N	D	I	V	K	E	A	G	G	L	H	H				
UniRef90_D3S9V8	V	K	A	M	T	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	T	E	V	I	R	A	A	G	G	L	H	H				
UniRef90_E4QLB2	V	K	T	L	S	P	Q	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	T	D	V	I	E	A	H	G	G	L	H	H				
UniRef90_I3BZQ2	V	K	A	M	T	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	T	E	V	I	Q	K	H	G	G	L	H	H				
UniRef90_I4W5F1	V	K	A	M	T	P	R	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	F	H	L	M	L	R	R	P	P	G	G	T	E	V	I	G	L	H	G	G	L	H	H				
UniRef90_R7HGU4	V	K	T	L	D	P	E	E	E	L	V	R	A	T	G	A	D	I	I	L	60	G	N	T	Y	H	L	M	L	R	R	P	P	G	G																

QUERY	S	F	M	G	W	D	R	P	90	L	T	D	S	G	G	F	Q	V	M	100	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	110	H	S	R	H	M	L	S	P	120			
UniRef90_Q8RAM9	K	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	R	
UniRef90_UPI000478A2F7	K	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	D	
UniRef90_UPI00047E3B28	R	F	M	G	W	K	G	S	V	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_B8CXG0	N	F	M	N	W	Q	K	A	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K
UniRef90_D6GTP4	K	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_UPI0003709E6C	A	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_B0TTY3	D	F	N	G	W	D	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_A7HXM8	S	F	M	N	W	P	H	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K		
UniRef90_F9MSY7	K	F	M	N	W	D	G	A	V	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_K4KRP4	K	F	M	N	W	D	G	A	V	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_A1HT80	G	F	M	H	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_Q3ABY7	K	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_Q2RHU3	R	F	M	H	W	E	R	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_Q487A2	D	F	M	N	W	N	G	A	V	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_Q67Q92	R	F	M	N	W	K	G	A	V	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_U4WRC2	K	F	M	N	W	N	G	A	V	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_D5BV95	G	F	M	H	W	E	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_K0AZE3	K	F	M	N	W	D	R	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_F2F3G0	K	F	M	N	W	D	R	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_U4TDW1	D	F	M	Q	W	Q	G	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_C8WVH3	G	F	M	N	W	K	G	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_F7PX10	K	F	M	K	W	D	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_A6DS39	K	F	I	N	W	D	R	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_A4BG47	D	F	A	Q	W	E	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_B0TF77	K	F	M	N	W	S	H	G	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_UPI00036F456F	Q	F	M	N	W	D	G	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_R6E7L9	K	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_C0GKE6	K	F	M	N	W	D	R	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_D4W4J3	K	F	E	N	W	G	G	A	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_UPI0002DDCF7F	K	F	M	N	W	D	G	S	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_F4LTJ4	K	F	M	N	W	D	G	S	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_D5XEJ3	K	F	M	N	W	D	R	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_R7L559	K	F	M	N	W	D	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_Q8RDN0	K	F	M	N	W	D	R	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_UPI0003B78350	D	F	I	G	W	E	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_D9SJA9	D	F	M	G	W	D	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_E4RIK3	D	F	M	S	W	D	L	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_C8W4D8	R	F	M	N	W	D	G	S	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_J5UF87	K	F	M	N	W	G	R	S	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_UPI00047CA955	D	F	V	K	W	D	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_UPI00047AE23B	K	F	M	N	W	D	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_D3S9V8	D	F	M	H	W	E	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_E4QLB2	G	F	M	G	W	D	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_I3BZQ2	G	F	M	H	W	E	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_I4W5F1	R	F	I	G	W	D	K	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_R7HGU4	K	F	M	N	Y	D	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_W7D136	K	F	M	N	W	D	Q	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F	F	K	H	H	S	R	H	M	L	S	P	E	K	K	
UniRef90_A6GQN9	Q	F	M	G	W	N	G	P	I	L	L	T	D	S	G	G	F	Q	V	M	K	I	Q	S	E	E	D	G	G	V	T	F															

QUERY	S	I	E	I	Q	H	L	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	T	P	S	R	A	A	S	S	M	E	R	S	M	R	W	A			
UniRef90_Q8RAM9	V	I	E	I	Q	N	S	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	D	Y	D	Y	V	K	R	S	M	E	R	T	T	K	W	A			
UniRef90_UPI000478A2F7	S	L	E	I	Q	N	A	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	D	Y	D	Y	V	K	R	S	M	E	R	T	T	K	W	A			
UniRef90_UPI00047E3B28	N	M	K	I	Q	N	A	L	G	A	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	D	Y	D	Y	V	K	R	S	M	E	R	T	T	K	W	A			
UniRef90_B8CXG0	A	I	Q	I	Q	M	E	L	G	A	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	D	Y	D	Y	V	K	R	S	M	E	R	T	T	K	W	A			
UniRef90_D6GTP4	V	M	E	I	Q	N	A	L	G	A	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	D	Y	D	Y	V	K	R	S	M	E	R	T	T	K	W	A			
UniRef90_UPI0003709E6C	A	T	E	I	Q	N	A	L	G	A	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	D	Y	D	Y	V	K	R	S	M	E	R	T	T	K	W	A			
UniRef90_B0TTY3	S	M	Q	V	Q	R	D	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	T	E	K	E	A	K	D	S	M	E	R	T	T	K	W	A			
UniRef90_A7HXM8	S	L	E	I	Q	H	V	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	T	S	Y	D	E	A	K	K	S	M	E	R	T	T	K	W	A		
UniRef90_F9MSY7	S	M	E	I	Q	H	V	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	T	S	Y	D	E	A	K	K	S	M	E	R	T	T	K	W	A		
UniRef90_K4KRP4	A	T	E	I	Q	I	A	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	N	R	E	Y	T	K	K	S	A	E	R	T	T	F	R	W	L		
UniRef90_A1HT80	A	T	E	I	Q	M	A	L	G	A	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	E	Y	D	Y	A	K	A	S	T	E	R	T	T	R	W	A			
UniRef90_Q3ABY7	A	V	K	I	Q	E	A	L	G	S	D	I	V	M	A	F	D	E	V	T	P	Y	P	A	E	Y	S	Y	A	K	E	A	M	K	R	T	Y	R	W	A			
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QUERY	E	D	L	D	F	D	G	Y	A	V	210	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	230	P	M	L	P	H	D	D	K	P	H	Y	L	240
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UniRef90_C8WQH3	E	L	D	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
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UniRef90_D4W4J3	E	M	D	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
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UniRef90_F4LTJ4	S	L	G	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
UniRef90_D5XEJ3	E	L	D	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
UniRef90_R7L559	E	L	D	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
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UniRef90_E4RIK3	K	L	N	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
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UniRef90_D3S9V8	E	S	L	D	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L	
UniRef90_E4QLB2	D	I	E	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
UniRef90_I3BZQ2	D	I	G	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V	G	E	E	G	Q	D	E	M	F	R	V	L	D	F	S	V	P	M	L	P	H	D	D	K	P	H	Y	L		
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UniRef90_R7HGU4	K	L	G	F	F	P	G	Y	A	V	G	G	G	L	L	S	V	V																														

QUERY MG V G K P D D L V I G A V E R G I V D M F D C C V L P T R S G R N G Q A F T W D G P
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UniRef90_D6GTP4	V	E	D	N	R
UniRef90_UPI0003709E6C	L	N	D	N	R
UniRef90_B0TTY3	V	R	D	N	R
UniRef90_A7HXM8	V	N	D	N	R
UniRef90_F9MSY7	L	V	D	N	R
UniRef90_K4KRP4	V	V	D	N	R
UniRef90_A1HT80	L	V	D	N	R
UniRef90_Q3ABY7	L	V	D	N	R
UniRef90_Q2RHU3	L	V	D	N	R
UniRef90_Q487A2	L	K	D	N	R
UniRef90_Q67Q92	M	T	V	D	N
UniRef90_U4WRC2	L	V	D	N	R
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UniRef90_K0AZE3	V	V	D	N	R
UniRef90_F2F3G0	M	V	D	N	R
UniRef90_U4TDW1	I	R	D	N	R
UniRef90_C8WQH3	V	V	D	N	R
UniRef90_F7PX10	V	V	D	N	R
UniRef90_A6DS39	V	Q	D	N	R
UniRef90_A4BG47	V	K	D	N	R
UniRef90_B0TF77	V	V	D	N	R
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UniRef90_D4W4J3	V	V	D	N	R
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UniRef90_F4LTJ4	L	V	D	N	R
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UniRef90_R7L559	V	V	D	N	R
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UniRef90_I4W5F1	L	R	D	N	R
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UniRef90_I3CC06	I	K	D	N	R
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UniRef90_D1Y6J1	M	N	D	N	R
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UniRef90_R5BDG3	V	V	D	N	R
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330 340 350 360

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I L G A R L L A T T I H N N L R F F L I K L M E N I R I R N Q A I R K E D R L L L Q D F K E E F F Y T
I L G A R L L A T T Y H N N L Y F F L L S L M E K I R I R Q G A I K E D D A L L L D F F R K E F F L R E
I L G A R L L A T T Y H N N L H F F L L I N L M E K Q V I R R Q A I A R E D R L L A D F F R K E F F F F E
I L G S R L L N T T I H N N L Y Y Y Q N L M K N V R R Q A I L E E G R F F E F F R K E F F L E
M L G S M L V S W I N V H F Y Q S L M A G M R K A A A A E A N D R F F A A F V A S D F F K A
I F G H R L R L A T T I H N N L H F F L L T H L M K E E V R K Q A I A A E D R F L P E Y R K Q F F F A
I F G L R L R L T T T I H N N L H F F L L I N F L M R N M R K A I L E E D R F L L A F R A R E F F R A
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I L G V R L R L T T S Y H N N L Y F M L K F S E K I R R K A I K E D S F L D F R E E F Y Q
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I L G L R L R L T T T Y H N N L Y F F L L M E D V R T S I L N D N L L D F F K E A F F F E
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I L G A R L L N T T I H N N L H Y Y Q Q L M A G M R K A I A E N G T F S S F V A E F F K A
I L G A R L L N T T I H N N L H Y Y Q E L M R S L R R E A I A E A R F E T F V V A E F F Y A
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T L G Q R L R L S I H N N L R F F L I R I M E E I R R E A I K E D R F L E L K E E F F Y N
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I L G A Q L L N T T M H N N L H Y Y L E L M R E M R E A I E Q D R F E E F V K E F
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I L G M R L L M T I H N N L H Y Y Q T L S A E M R Q A I S Q G D F A A F K A N F L H
I L G A R L L M S I H N N L R F F L I K L S E D A R K A I K E D R F G D F K D E M F K
I L G A R L L N T T I H N N L R F Y Q K V M Q D M R D A I E A G R F D Q H V A E F F Y A
G L A A M L L T W N N L A Y Y Q L M Q G V R D A I D E G R F E E F R Q K T K E
I L L A Y R L L N T I H N N I H Y Y Q D L M R Q A R A A L E H R R F E A F R R D L L A
I L G A R L L N T T I H N N L F Y Y Q T L M A E M R A A I E Q G D F A A F C L R F K R
I L G A Q L L N T T I H N N L H F Y Q K L M A E M R E A I E Q Q K F A D W Q A Q F R A
M L G A H L L N T T I H N N L H Y Y Q V L M Q E M R A A I E E Q R L P A F V R D F Y R
I L G A R L L N T T I H N N L H Y Y Q V L M Q E M R D A I D A D R F E D W K A S F H E
I L G A R L L N T T I H N N L Y Y Y Q K L M A D L R R E A I S G N R L A S F R E D F F Y A
I L L S Y R L L N T I H N N L T F F L D L V C G A R E A I A A G T F A S Y K K D F F E A
Y L A A M L L T W N N L H Y Y Q S L M Q E M R Q N I E A G S F E A F V A A F Y R
I L G A R L L N T T I H N N L H Y Y Q V L M Q G M R A A I E E N R F E T F K A E F A R A
I F G L R L R L M T I H N N L Y F F L E F M R K M R E A I L E D R F V E F Q N K F L A
V L G Q I L L S L H N N V S F M I S F M D E V R R S I E E G T F R E F K G K M I D
I L L S Y R L L N S I H N N I A F F L Q L A R Q A R E A I E K G R F Q Q L K A R Y Q D
I L A Q R L L S Y H N N L Y F F L F Q L M A G I R R A A I A K G E F P S F Y R E F F Q
I L L S Q L L N T T I H N N L R F Y Q K H M A D L R Q A I R Q G R L S E F A D D F Y R
I L L S Y R L L N T T I H N N L T F F S R F M A Q Q A R A I R E G R F E A F R T A M E A
I L L G A R L L N T T I H N N L F Y Y Q T L M R G L R R E A I A A G T L E P F I A E F R R
I L L G A R L L N T T I H N N L H Y Y Q Y L M N Q M R V A I E K N T F S E F K K D F Y E
I L L G A R L L S Y H N N L Y F F L I K M C H E N T R E A I M N D S F L S D Y K K E F Y E
I L L G S Q L L N T T I H N N L R F Y Q R L M Q G L R D A L D D A G T F E Q Y Y Q Q F Y R
I L L G A H A S I H N N L H Y F L W H M Q Q L R D H I D A G T F E Q Y Y Q Q F Y R
I L A S M L L N T R H N N L H Y Y L D L M A Q Q A R V A I E E D R F E A F R A D F F Y R
I L Q A R L L N T T I H N N L H Y Y Q L L M K G L R R E A I A E S E T L D T F V S E F Y Q
S F G M R L T S Y H N N L Y Y L L N L M K R V R R E A I M N D Q L L L D L R A E V F E
M N A S I L L N T T I H N N L H Y Y A K L M E R L R R E A I K G G Y F T E F K R E F L A
I L L G A R L L N T T I H N N L H Y Y Q E L M A G M R Q A I E L G R L A V F R R D F Y A
V L G L R L R L T T T I H N N L H F F I Q R L M D K T K E A I R Q D R L L L E Y R A E F L S
M L L G P R L L N T T I H N N L H Y Y L K L V E R I R R A A I D E D R Y
I L L S F R L L N S I H N N L T Y F L D T V R G A R K A I V D G Q F A D Y R Q Q F Y A
I L L A S R L L N T Y H N N L A Y F L D L M A Q Q R T A I R E G K F A E Y K K S Y E A
I L L A V R L L S Y H N N L H F F L V Q L A A G A R A I A E E R F D S F R R E F Y A
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I L L A F R L L V S Y H N N L Y F F L N F M R Q M R A A I L E E D R F P A F R D F W A
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UniRef90_E8LGA8	V	K	T	L	A	P	E	E	L	K	E	V	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_U1MVL0	V	K	T	M	A	P	E	E	L	K	E	V	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_Q2G639	V	K	A	M	K	V	E	D	V	R	A	S	M	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_R7EWW2	V	K	L	L	T	P	D	E	L	V	R	A	S	M	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H		
UniRef90_UPI0003B4F8FA	V	K	G	L	L	P	D	E	L	V	H	A	A	S	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H		
UniRef90_D4MAS8	V	K	A	M	A	P	E	E	L	E	E	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H					
UniRef90_F9MNY6	V	K	T	L	T	P	E	E	L	E	E	D	M	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_G9PY90	V	K	A	M	T	P	E	E	L	E	E	D	M	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_W2UFH8	V	K	G	M	L	P	K	E	D	I	V	E	T	G	A	E	M	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_F3Y9H9	V	K	T	L	S	P	E	E	L	K	E	V	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_Q08P81	V	K	G	V	G	P	D	D	E	L	K	E	T	L	D	A	G	V	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H		
UniRef90_UPI00047B08E7	V	K	A	M	T	P	E	E	L	K	E	V	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_UPI0003F515EC	V	K	G	M	L	P	E	E	L	A	A	T	G	A	E	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_E1VLQ4	V	K	G	M	L	P	R	D	I	V	A	E	T	G	A	E	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_UPI00036EA67E	V	K	A	L	Y	P	E	E	L	R	E	A	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_C9KKK5	V	K	G	V	S	P	D	E	L	R	D	I	V	A	E	T	G	A	E	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H
UniRef90_UPI000476B8BF	V	K	G	M	T	P	E	E	L	E	N	T	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_C5RD22	V	K	G	V	S	P	R	E	L	K	E	K	S	Q	F	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H					
UniRef90_L0DK50	V	K	G	L	T	P	R	E	L	R	A	T	G	A	S	M	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_G7V8T0	V	K	A	M	A	P	F	E	L	K	A	I	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_Q72H19	V	K	G	L	M	P	K	D	L	E	A	I	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_UPI000361EA88	V	K	A	M	K	P	A	D	D	V	R	A	I	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_R5YPV2	V	K	T	L	S	P	E	E	L	R	A	I	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_UPI0003B4086E	V	K	T	L	S	P	E	E	L	E	S	M	G	A	G	M	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_A8TJQ5	V	K	A	M	R	P	E	E	L	A	E	T	G	A	E	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_Q9CJ54	V	K	T	M	S	P	E	E	L	K	T	L	G	A	G	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_D3PA11	V	K	T	V	T	P	H	E	L	K	E	I	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_A8UVF4	V	K	A	M	T	H	R	E	L	K	E	E	I	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
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UniRef90_J7QJ15	V	K	A	M	F	V	D	D	V	R	A	A	G	A	D	V	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_B5QMM0	V	K	T	M	A	P	E	E	L	D	T	M	G	A	D	V	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_UPI000374D5D9	V	K	A	M	Y	P	E	E	L	R	D	L	G	A	D	V	V	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_E7GAM2	V	K	G	T	S	P	E	E	L	K	E	M	N	S	G	V	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_R5VH95	V	K	T	L	S	V	E	E	L	K	A	C	H	C	G	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
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UniRef90_X2GXE3	V	K	G	M	T	P	E	E	L	A	A	T	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_F4CEX1	V	K	G	V	H	Q	H	E	L	Q	D	Q	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H					
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UniRef90_X0SV73	V	K	G	L	T	P	A	Q	I	A	E	T	G	T	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_D3SQ45	V	K	A	M	L	H	R	L	E	E	E	T	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
UniRef90_V6F460	V	K	A	M	L	P	D	S	V	A	E	E	T	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_A4SZT8	V	K	A	M	T	P	R	D	L	N	E	A	K	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
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UniRef90_V4RMR2	V	K	G	L	L	P	E	Q	V	R	A	T	G	G	A	D	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H			
UniRef90_W9GYC4	V	K	G	M	M	P	G	S	V	R	E	T	G	A	Q	I	I	L	A	N	T	F	H	L	Y	M	P	G	H	E	L	V	V	A	G	K	H	G	G	L	H				
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UniRef90_F5R7F9	V	K	G																																										

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Q M I H W D R P M L L T D S G G G F Q Q V M R K I T E E E G G V K F F R S P S E V W L D P E E T
H F M G W D G P I L L T D S G G G F Q Q V F K K I T E E E G G V K F F R S P D V C L F L T S P E E T
K F M N Y D G P I L L T D S G G G F Q Q V F S I I S E E E G G V K F F R S H I D L F L T S P E E T
S F M G W K R P I L L T D S G G G F Q Q V F S I I G D L R K I P V N G D K L F L T S P E E T
D F M N W H G P I L L T D S G G G F Q Q V F K I K E E E G V Y F F R S H P I K L F L T S P E E T
K F M N W D K P I L L T D S G G G F Q Q V Y K I K E E E G V T F F R S H I K L F L T S P E E T
K W M N W P R P I L L T D S G G G F Q Q V F S I I K E E E G A E F F R S D Q K S L L T S P E E T
R F M N W D R P I L L T D S G G G F Q Q V M K I L T E E D G G V F F S S H I K L H M L F L T S P E E T
R L M A W N R P V L L T D S G G G F Q Q V F R I V D D E E G G V E F F R S H I D L R L L T S P E E T
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E F M Q W Q G P I L L T D S G G G F Q Q V M K M T E E E E G G V A F Q S H I K H L L T S P E E T
R F M G W D K P I L L T D S G G G F Q Q V F K I S E E E G G V T F A S P I K L F M S P E E T
E L I R W P G P I L L T D S G G G F Q Q V M K L D E Q G G V T F F K S H S E H H H M S P E E T
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R F M N W H R P I L L T D S G G G F Q Q V N R I S K E E D G G V E F F S S H S R H F M T S P E E T
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D F M Q W H G P I L L T D S G G G F Q Q V F S L T G E T R T I N E S G V E I F L S P E E T
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G F M K W D G A L L L T D S G G G F Q Q V F K I K E E E G V Y F F R S H H D S M L F L T S P E E T
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	170	180	190	200
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UniRef90_E8LGA8	K R C L J E T H T R E	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_U1MWL0	E R C L J A A H H E R P E E	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_Q2G639	R R S R D A F D A G G E H A E	R S A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R7EWW2	A R S K A V H K N E N	K R C Q S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI0003B4F8FA	K R S K T A F Q	P R P G Y G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D4MAS8	R R S Q E A H R R E	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_F9MNY6	K R C V J E H H R	S D T G Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_G9PY90	K R C R E Y H S R P	G Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_W2UFH8	K R S K T A H G D S P D T	S A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_F3Y9H9	E R G L K A H K H P D T	Q Q L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_Q08P81	H R C A K A W S R E R P	S S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00047B08E7	E R S K E A H A D N R P	S A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI0003F515EC	A R S K A A F G D R P N	G H A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_E1VLQ4	R R S R T A H G D N P N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00036EA67E	Q R S K E A F G E	R E T Q T L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_C9KKG5	K R C K E A M T A P	N Q G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000476B8BF	K R S F D A H G D S P	I Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_C5RD22	E R A Q K A H K R E	Q D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_L0DK50	R R C K D A H T R S	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_G7V8T0	E R C K K A H K R S	D Q S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_Q72H19	E R S L K A K T R P	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000361EA88	K R S R D A F D G G G D H A A	A R A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R5YPV2	K R G K E K H S N P	D Q M L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI0003B4086E	E R C L E A H A R P E	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_A8TJQ5	K L S R S A F R D R P N	G Y G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_Q9CJ54	E R G L N A H R R P N	D Q G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D3PA11	K R C K E A	K R N F W Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_A8UVF4	D R S T R A K R R E	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00029A7CB3	E R G L K A H Q H P D	R Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI0003B6A758	K R S K A C H T	L K G Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_J7QJ15	E R S R K A F R E R P	G R A V F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_B5QMM0	E R G L K A H K N P D W	Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000374D5D9	E R S K A A F G D Q P	G K A I F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_E7GAM2	K R G K D A H Q R	D D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R5VH95	K R G R D A F N N P R	D Q S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_A4XG69	K R C K T H H K N T E P	N Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000262CB98	K R S L I A H G D S P	S A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000469EFD8	E R S R R G H D D E R N P N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R6YCCQ7	K R G K D V H N N E	N Q S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00034BE54	K R S L D E F	R G L G N P A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_X2GXE3	K R S R K R F D E L G N K N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_F4CEX1	K R C C D R F D N T D P Y G Y	E Q T L F P I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_E1X449	D R C L	S S W T N P K Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_C8RYW7	Q R S R D A F G S R P	G H A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_X0SV73	E R S R A A H Q R E	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D3SQ45	D R S L S A K E R	Q D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_V6F460	K R S K D A F V E R P	G Y G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_A4SZT8	D R S L K R F R E L P	N T G N G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_H4F119	E R C R V A F G N Q P	G K A M F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_V4RMR2	E R C K A A F D	P A G G R A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_W9GYC4	Q R S R D A F V E R P	G Y G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D2Z903	R R C K E V H R R	D D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_F5R7F9	R R S R D A H D S L G N T N	D D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000360060C	A R S R E E F E R L G G P G K	G Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00047EF87D	E R C K T A F V P A P	G K A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D3PMC1	E R C L K A K T R P	D Q A L F A I A Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_J3TWS3	T R S R Q H F N A L E N P N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_C8N9K5	A R S K A A H A G N P N H	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_U4KSZ2	K R G K D A H K T	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_K6G514	Q R S R D A H E T	N S A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D9QM84	A R S K A A F G T	R E T Q G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_C8PZM0	E R C K N A H E K L G N Q N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_J3TZ87	R R S R E R F D E L G N Q N	S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_A0YHN6	K R S Q S A H G D N P	S A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_I015G3	E R C K A A H C R K	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_M7N387	K R C I E R L D T E P H Y G Y	E Q Q L F P I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_H9UDC0	K R S L E H L R N E S H	Q A I F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R5NDCU9	D R C L J R R F N E E P R Y G Y	Q Q S L F P I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_H6SN68	E R S R R A F R E R P	P Y G Y Q Q S L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_D5BNK5	K R S R D A F	V P R E G Y G Q F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_F8F3D2	K R A K S A W E A V T D D G L Y Q K	L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_G7URQ5	Q R S R D A H D	G L G N D A A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R5A618	K R S L D A N K K R D V	Q A Q F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_B5YHX4	K R C K E H F E K Q D T Y	Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI000371048C	K R S L T E H Q T L	N N S N A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00031D53B4	E R C R N A H T R P	D Q V L F A I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_B6BWJ0	K R S K D S F K S	K N A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_R4WKC7	D R C L Q A H K R D D	E Q S I F P I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_E6SIX3	Q R C H R F W Q E E G N P E	R Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_I3ZZW1	K R C E K W L E N P E L Y G Y	K Q T L F P I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_B114K8	A R A R A A W N S D G A T	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00030867EE	A R C R E A F	V P R P G Y G L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_M1RRE4	E R S K K A K K R K	D Q M L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_Q1JY76	N S C L E A H G R S	D Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_M2U3U8	R R S R E G F D S G A D H A G	R A A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00034B9E50	R R S N E F N Q L S N P N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_E8RS13	L R S K Q A F G	Q R N D T Q A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_J0JDK3	R R S R E E F K R L S N P N	A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_A3JS60	E R S R E A F G D R P	N A L F G I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T
UniRef90_UPI00047187B9	N R C W E A F S H E P L Y G Y	Q Q S L F P I V Q Q G G M F S	N H L R R E F S A L A Q Q	A L K T

		210	220	230	240																																									
UniRef90_A5GEQ6	E	D	I	G	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_R5PLS1	E	S	L	D	F	F	H	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_E8LGA8	E	S	L	D	F	F	A	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_U1MVL0	S	D	I	G	F	F	A	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_Q2G639	S	D	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_R7EWW2	K	L	I	N	G	F	D	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V
UniRef90_UPI0003B4F8FA	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_D4MAS8	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_F9MNY6	D	L	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_G9PY90	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_W2UFH8	D	L	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
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UniRef90_Q08P81	A	V	D	L	P	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V			
UniRef90_UPI00047B08E7	R	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_UPI0003F515EC	A	I	E	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_E1VLQ4	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_UPI00036EA67E	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_C9KKG5	A	M	D	L	P	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V			
UniRef90_UPI000476B8BF	A	E	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_C5RD22	S	L	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_L0DK50	A	L	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_G7V8T0	K	M	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_Q72H19	R	F	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_UPI000361EA88	D	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_R5YPV2	E	E	M	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_UPI0003B4086E	S	M	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_A8TJQ5	D	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_Q9CJ54	S	M	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_D3PA11	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_A8UVF4	E	R	E	L	L	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V			
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UniRef90_UPI0003B6A758	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_J7QJ15	G	M	E	F	F	H	G	L	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_B5QMM0	S	M	D	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
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UniRef90_E7GAM2	K	M	D	F	F	D	G	Y	S	I	G	G	G	L	S	V	V	G	E	E	P	K	D	V	M	Y	K	M	I	D	D	A	L	Q	W	L	P	V	D	K	P	R	Y	V		
UniRef90_R5VH95	K	M	D	F	F	D	G	Y	S	I	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_A4XG69	E	E	D	L	P	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V			
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UniRef90_UPI000469EFD8	N	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	K	D	D	M	Q	R	L	K	H	I	T	P	Q	L	P	D	D	K	P	R	Y	V		
UniRef90_R6YCCQ7	K	L	D	F	F	D	G	Y	S	I	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V		
UniRef90_UPI00034B8E54	E	E	M	D	F	F	H	G	F	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_X2GXE3	E	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	K	E	L	M	H	E	V	M	G	F	S	A	P	F	L	P	V	D	K	P	R	Y	V	
UniRef90_F4CEX1	S	F	G	R	D	D	G	N	A	L	G	G	G	L	S	V	V	G	E	E	P	A	E	E	M	Y	A	M	T	E	V	V	N	A	I	L	P	L	D	K	P	R	Y	V		
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UniRef90_C8RYW7	A	E	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	R	E	A	M	F	S	V	L	D	Y	A	P	G	M	L	P	E	D	K	P	R	Y	V	
UniRef90_X0SYV73	E	L	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	R	E	A	M	F	S	V	L	D	Y	A	P	G	M	L	P	E	D	K	P	R	Y	V		
UniRef90_D3SQ45	E	R	E	L	D	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	R	E	A	M	F	S	V	L	D	Y	A	P	G	M	L	P	E	D	K	P	R	Y	V		
UniRef90_V6F460	G	I	G	F	F	D	G	Y	A	L	G	G	G	L	S	V	V	G	E	E	P	Q	K	E	L	M	F	S	V	L	D	Y	A	P	G	M	L	P	E	D	K	P	R	Y	V	
UniRef90_A4SZT8	Q	Q	G	F	F	D	G	L	A	L	G	G	G	L	S	V	V	G	E	E	P	K	P	E	F	E	R	L	N	F	T	A	P	K	L	P	E	H	M	P	H	Y	L	V		
UniRef90_H4F119	Q	L	D	L	K	G	Y																																							

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UniRef90_A6DAZ3	N F S G Y K R S F L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
UniRef90_H8GST1	G F T A Y P G P F L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
UniRef90_F7XV01	K F M N W Q K P I L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
UniRef90_K9RP63	R F M G W P G P I L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
UniRef90_R7EUC2	K F M N W D G P V L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
UniRef90_F2I198	Q F M N C D L P I L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
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UniRef90_K9YJ84	G F M N W E Q P I L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
UniRef90_R6NS81	K F S G W S G P I L L T D S G G G F Q Q V W F K I L T E G E G G V T F F N R S S H L K F F L T P E E E			
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		130	140	150	160																																											
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UniRef90_H5SAQ9	S	I	A	V	Q	K	A	L	N	S	D	I	V	M	V	F	D	E	E	C	T	P	Y	D	T	T	F	E	Q	A	K	A	S	M	N	L	S	L	R	W	A							
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UniRef90_A2SM97	S	M	Q	I	Q	T	V	L	D	N	S	D	I	V	M	Q	F	D	E	E	C	T	P	Y	D	T	T	F	E	Q	A	K	A	S	M	N	L	S	L	R	W	A						
UniRef90_F4X9A3	S	M	Q	I	Q	S	N	L	G	S	D	I	A	M	A	F	D	E	E	E	C	T	E	N	F	P	A	T	P	R	E	Y	V	E	R	S	I	A	R	T	T	R	W	L				
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UniRef90_R5B6M9	V	V	E	I	Q	R	S	I	G	S	D	I	M	M	A	L	D	E	E	C	T	P	P	P	G	T	A	D	R	D	Y	A	R	K	A	L	D	L	T	K	R	W	L					
UniRef90_S2JZF7	S	M	A	L	E	H	S	D	L	G	A	D	I	M	M	Q	L	D	E	E	C	T	V	I	S	P	L	T	T	G	P	R	V	E	E	A	M	W	R	S	I	G	R	W	A			
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UniRef90_K9XW52	S	I	Q	I	Q	N	A	L	G	A	D	V	I	M	A	F	D	E	E	C	T	P	P	A	D	A	S	K	S	E	L	E	A	S	T	D	R	T	Y	R	W	L						
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UniRef90_R7DQ05	A	I	R	I	E	E	K	L	G	A	D	I	I	M	S	F	D	E	E	C	T	A	P	Y	P	V	T	Y	D	Y	M	K	Q	S	L	V	E	R	T	I	R	W	A					
UniRef90_UPI000405BE69	V	M	D	I	E	R	T	I	G	A	D	I	M	M	A	F	D	E	E	C	T	P	P	G	D	A	E	Y	S	Y	A	K	K	S	L	D	L	T	E	R	W	L						
UniRef90_X1FN76	V	L	K	I	Q	R	F	A	L	G	S	D	I	M	M	V	L	D	E	E	C	T	S	Y	P	T	H	S	Q	A	E	K	S	L	A	L	I	T	L	N	W	A						
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UniRef90_D8FBZ4	A	M	D	I	Q	E	A	L	G	A	D	I	V	M	A	F	D	E	E	C	T	A	P	Y	P	A	D	Y	D	Y	V	L	K	S	V	Q	L	T	S	L	W	A						
UniRef90_R5HQJ6	S	I	Q	I	Q	T	W	N	L	G	A	D	I	A	M	A	F	D	E	E	C	T	V	E	N	P	A	P	Y	A	Y	V	K	Q	A	C	E	R	T	F	R	W	L					
UniRef90_A0A024KJD5	S	I	E	I	Q	T	L	L	D	S	D	I	I	M	Q	L	D	E	E	C	T	S	L	P	N	E	T	R	E	M	E	R	A	M	E	L	S	L	R	W	A							
UniRef90_F8EHQ7	V	I	D	I	Q	R	R	I	G	A	D	I	I	M	A	F	D	E	E	C	T	P	Y	P	C	D	F	S	Y	A	R	T	S	M	D	M	T	H	R	W	L							
UniRef90_H2J3I3	S	M	E	I	Q	R	M	T	L	G	A	D	I	A	M	A	F	D	E	E	C	T	V	E	A	G	A	E	R	K	Y	V	E	E	S	M	E	D	R	T	F	E	W	A				
UniRef90_H6L8T5	V	M	D	I	Q	R	S	I	G	A	D	I	I	M	A	F	D	E	E	C	T	P	Y	P	C	A	D	Y	R	Y	A	K	K	S	M	E	L	T	H	R	W	L						
UniRef90_B7K5R2	S	I	Q	I	Q	N	A	L	G	A	D	V	I	M	A	F	D	E	E	C	T	P	P	Q	A	D	Y	A	T	V	K	A	A	T	E	R	T	Y	R	W	L							
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UniRef90_D8GRQ7	S	M	Q	I	Q	S	N	L	G	A	S	T	V	A	M	A	F	D	E	E	C	T	E	N	P	S	P	K	D	Y	V	K	S	L	V	E	R	T	T	R	W	A						
UniRef90_R5BBI3	V	M	E	I	E	E	A	L	G	A	S	T	V	A	M	V	F	D	E	E	C	T	A	P	W	S	D	E	S	Y	T	R	A	A	M	N	R	T	H	R	W	A						
UniRef90_A0LFR2	S	M	E	I	Q	S	H	L	G	A	S	T	V	A	M	C	F	D	E	E	C	T	E	A	N	P	V	T	Y	E	D	Y	A	R	E	S	M	L	R	T	V	R	W	A				
UniRef90_R5L171	S	M	Q	I	Q	S	H	L	A	S	T	V	A	M	A	F	D	E	E	C	T	E	A	N	P	V	T	Y	E	D	Y	V	K	R	S	L	V	E	R	T	V	R	W	L				
UniRef90_Q2LVH1	A	I	E	I	Q	E	A	L	N	T	D	I	M	M	C	L	D	E	E	C	T	P	W	P	A	G	F	Q	E	A	E	S	S	L	S	L	T	L	S	W	A							
UniRef90_UPI00047AAE02	S	M	Q	I	Q	R	A	L	L	D	S	D	I	V	M	Q	F	D	E	E	C	T	P	Y	I	T	T	E	A	E	A	R	V	S	M	E	L	S	L	R	W	A						
UniRef90_A4YV16	A	I	E	V	Q	R	L	F	L	D	S	D	I	V	M	Q	L	D	E	E	C	T	V	R	L	P	A	E	P	A	E	D	V	E	R	A	M	R	L	S	L	R	W	A				
UniRef90_B8EIV2	S	M	Q	I	Q	R	D	L	L	G	A	D	I	Q	M	Q	F	D	E	E	C	T	V	K	L	P	C	A	T	E	A	E	A	R	R	A	M	E	R	S	L	A	L	T	L	R	W	A
UniRef90_W6M4M4	S	M	A	V	Q	R	S	I	G	A	D	I	Q	M	I	F	D	E	E	C	T	P	Y	P	D	S	T	E	T	E	A	Q	H	S	A	M	E	R	S	L	A	L	T	L	R	W	A	
UniRef90_R7HM25	V	V	D	I	Q	R	S	I	G	A	D	I	M	M	A	L	D	E	E	C	T	P	P	P	G	D	S	D	Y	Q	Y	A	K	K	S	L	A	L	T	L	R	W	L					
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UniRef90_C5CFG6	S	M	E	I	Q	R	M	T	L	N	S	D	I	A	M	A	F	D	E	E	C	T	V	A	P	E	L	D	R	T	Y	A	T	E	S	L	V	E	R	T	T	R	W	A				
UniRef90_B6WXW6	V	V	G	L	Q	R	N	L	N	S	D	I	M	M	V	L	D	E	E	C	T	P	Y	P	G	A	D	Y	A	T	E	K	S	L	A	L	T	T	R	W	A							
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UniRef90_A6Q906	V	I	D	I	Q	N	N	L	G	S	D	I	M	M	L	D	E	E	C	T	V	A	L	P	A	T	Q	R	E	I	K	A	S	L	E	R	T	T	R	W	A							
UniRef90_R6Q8X6	S	M	Q	I	Q	S	H	L	G	S	T	V	A	M	A	F	D	E	E	C	T	V	K	N	P	A	T	L	K	Y	A	K	E	A	C	E	R	T	L	R	W	L						
UniRef90_I0ALF5	V	I	Q	I	Q	R	S	I	G	S	D	I	M	M	V	L	D	E	E	C	T	A	P	Y	P	C	E	Y	E	Y	A	K	K	A	V	Q	L	T	S	N	W	A						
UniRef90_UPI00036BD388	S	I	E	I	Q	R	G	L	L	G	S	D	I	A	M	Q	L	D	E	E	C	T	V	R	L	P	A	E	R	P	A	L	E	S	A	M	R	L	S	L	R	W	A					
UniRef90_R5ILV1	S	M	R	I	Q	S	N	L	G	A	D	I	A	M	A	F	D	E	E	C	T	V	E	N	P	A	K	Y	Q	Y	A	K	A	S	C	E	R	T	A	R	W	L						
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UniRef90_E4RSI7	V	M	D	I	Q	R	V	I	G	A	D	I	I	M	A	F	D	E	E	C	T	P	P	P	C	E	D	Y	K	A	E	K	S	M	H	L	T	H	R	W	L							
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UniRef90_K9WGR2	S	I	E	I	Q	T	L	L	G	A	D	V	I	M	A	F	D	E	E	C	T	P	P	P	A	E	R	S	E	E	A	A	T	E	R	T	Y	R	W	L								
UniRef90_C5CQA1	S	M	Q	I	Q	T	L	L	N	S	D	I	V	M	Q	F	D	E	E	C	T	P	Y	D	T	T	E	A	E	A	R	I	S	M	E	L	S	L	R	W	A							
UniRef90_B2UMR2	S	M	E	I	Q	A	D	L	G	A	D	I	A	M	L	F	D	E	E	C	T	P	Y	P	C	D	R	K	Y	A	E	A	S	L	G	Y	T	L	R	W	A							
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UniRef90_K9P																																																

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UniRef90_A6Q906 E E S L T Y H R A N Q K K G I G Q N I F A I I Q G G D T K A F R E K S A K E L C
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UniRef90_K9PZD3 K R C V A A H K R D D Q A L F G I V Q G G I F L D L R A K A A A E L V
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UniRef90_G2HSS8 K E A I E Y H Q K E K G I G V N Q N I F A I I Q G G T D K E F R K M S A E Q C A
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UniRef90_UPI0003685BA1 K R G R K A F E T E P L Y G H K Q A Q F G I V Q G G T Y K D L R I E S S K F M A
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UniRef90_UPI00036D13DD	G L D F F P G Y A I	G G G L S V V G G E E	P K E E M L R V L D A L L P Q M	P T D K P R Y L	
UniRef90_A2SM97	A M D F P G Y A I	G G G L S V V G G E E	P K D E M L R I M A H H T P H R L	P A H K P R Y L	
UniRef90_F4X9A3	K L D C D G Y A I	G G G L S V V G G E E	P T Q V M Y D I I D A V E P H M	P K D K P R Y L	
UniRef90_UPI0003824FA4	Q A E Y G G F A I	G G G L S V V G G E E	G H E A M C N V L D Y T V P H L	P Y K D R K P R Y L	
UniRef90_UPI00038181F7	S K D A A G N A I	G G G L S V V G G E E	P M E I M Y E F T A L C C E E L	P Y K E K P R Y L	
UniRef90_R5B6M9	D L G A E G N A I	G G G L S V V G G E E	P T E V M Y D M I E V V N E E E L	P V D R K P R Y L	
UniRef90_S2JZF7	K R D T P G Y A I	G G G L S V V G G E E	E K D V F W K E V T L C T N D L	P K N K P Y L C	
UniRef90_UPI0003B4EB39	D M D F W G Y A I	G G G L S V V G G E E	P K K H M F E M I E V T N A V L	P R K K P R Y L	
UniRef90_K9XW52	A L D L P G Y A I	G G G L S V V G G E E	A P E L I N A T V K Y T T P L L	P K E K P R Y L	
UniRef90_UPI0003D0F804	Q R D V A G F A I	G G G L S V V G G E E	E K D Q F W R K M V A L S T A H L	P R D K P R Y L	
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UniRef90_UPI000405BE69	S K G A Q G N A I	G G G L S V V G G E E	P T E K M Y E M I E V V N E I L	P S K D K P R Y L	
UniRef90_X1FN76	E L D F D G Y A I	G G G L S V V G G E E	P K E L R K E L I E F S A G Y L	P R D K P R Y L	
UniRef90_UPI0003727E47	D L D F E G I A I	G G G L S V V G G E E	P K E D M M G M L D A L V P H L	P T H K P R Y V	
UniRef90_D8FBZ4	A M Q F D G Y A I	G G G L S V V G G E E	D A Q T R Q R V I D E V M G F L	P E A V P V Y L	
UniRef90_R5HQJ6	S L D C D G Y A I	G G G L S V V G G E E	P A E T M Y E I I E A V E P Y M	P A E K P R Y L	
UniRef90_AOA024KJD5	S I G F D G Y A I	G G G L S V V G G E E	P A E V M F E I I S G V C P N L	P A D K P R Y L	
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UniRef90_H6L8T5	Q Y A M D G I A I	G G G L S V V G G E E	P K E E M Y A M T D L V C S Q L	P T D K P R Y I	
UniRef90_B7K5R2	E F D L P G Y A I	G G G V S V V G G E E	D P A L V R E I V Q F T A P L L	P P N K P R Y L	
UniRef90_UPI0003B48ED7	G L D F P G F A I	G G G L S V V G G E E	T P E I M Y E M A D H T L P L L	P G D K P R Y I	
UniRef90_D8GRQ7	E M N L D G Y A I	G G G L S V V G G E E	T H E E M Y R I I E K V V P H L	P Q D K P Y L	
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UniRef90_A0LFR2	E T G F D G Y A I	G G S L S V V G G E E	P K E E M L S V L E A V A P G L	P A A S P R Y V	
UniRef90_R5L171	E M D M D G Y A I	G G G L S V V G G E E	P T E E M Y H I L D V V L P H A	P V A N K P R Y L	
UniRef90_Q2LVH1	A M D F D G Y A I	G G G V S V V G G E E	P K P L M E Q I V S E T A P L L	P E D R K P H Y L	
UniRef90_UPI00047AAE02	D M D F P G Y A I	G G G V S V V G G E E	P K A D E M L R L M A H T P H R L	P A H K P R Y L	
UniRef90_A4YV16	D L G F H G Y A I	G G G L S V V G G E E	P Q A V M L E M I E A T V P A L L	P A D R P R Y L	
UniRef90_B8EIV2	E M E F D G Y A I	G G G L S V V G G E E	P Q D V M L A M I D C T A P L L	P S D K P R Y L	
UniRef90_W6M4M4	A L G F D G Y A I	G G G L S V V G G E E	P L A E R V R M L D C T A P L L	P D T A P R Y L	
UniRef90_R7HM25	D L G A D G N A I	G G G L S V V G G E E	P T E K M Y E M I E L V N E I L	P K D K P R Y L	
UniRef90_A0A031GW14	E L D F P G I A I	G G G L S V V G G E E	P K E D M M R M L A H V G P R L	P A N K P H Y L	
UniRef90_C5CFG6	A M D F D G F A I	G G G L S V V G G E E	E F V T R D L E F T T K L L	P E D K P R Y L	
UniRef90_B6WXW6	C H D F D G F A I	G G G L S V V G G E E	S K H M L Y D F M Y E V A P Q L	P K D K P R Y L	
UniRef90_UPI0004769FDE	G L D F P G F A I	G G G V S V V G G E E	T D E R H R I T E V S A K L L	P E N K P R Y L	
UniRef90_UPI00034D40E	A F D L P G Y A I	G G G V S V V G G E E	P P E L I A K L V Q A T T P L L	P V H K P R Y L	
UniRef90_A6Q906	R L D Y D G F A I	G G G L S V V G G E E	A N Q D M Y D T V E W T T Q F M	P E E K P R Y L	
UniRef90_R6Q8X6	K M E L D G Y A I	G G G L S V V G G E E	P K E D M Y R I I S A V E P Y A	P K N K P R Y L	
UniRef90_I0ALF5	E L D F D S Y A I	G G G L S V V G G E E	P K E M M Y E L V D Y T T D F M	P S D R K P R Y L	
UniRef90_UPI00036BD388	D L D L K G Y A I	G G G L S V V G G E E	P Q A V M L A M I E T V E P H L	P R D K P R Y L	
UniRef90_R5ILV1	K L D L P G Y A I	G G G L S V V G G E E	P T E V M Y E I I E A V E P Y M	P K D R K P R Y L	
UniRef90_UPI0003958C16	S Q R D V P G F A I	G G G L S V V G G E E	D K A E S F W R T V K L S N A E I L	P R D K P R Y L	
UniRef90_E4RSI7	S Q E Q D G N A I	G G G L S V V G G E E	P A E E M Y K M L E V V N A I L	P K D K P R Y L	
UniRef90_UPI000349BFD3	A Q G R E G N A I	G G G L S V V G G E E	P A E M M Y E M T E L V C D I L	P A D K P R Y L	
UniRef90_K9WGR2	S L D L P G Y A I	G G G V S V V G G E E	P A E L I H E I V D A T A P Y L	P V D K P R Y L	
UniRef90_C5CQA1	E M D F P G Y A I	G G G V S V V G G E E	P K E E M L H I M G H T P H R L	P P A N K P R Y L	
UniRef90_B2UMR2	A M D F D G Y A I	G G G V S V V G G E E	P E D E M L R A I D H S A P W L	P E E K P R Y A	
UniRef90_S0EWU1	E L D F D G F A I	G G G L S V V G G E E	E A A V R N E I V A W T V R F L	P E N K P R Y L	
UniRef90_W0EZP3	E K N A P G N A I	G G G L S V V G G E E	P E D K M Y E I C D W C C Q H L	P K E K P R Y L	
UniRef90_K9PZD3	D L D L P G Y A I	G G G V S V V G G E E	S P E N I R K V V Q H T A P L L	P K E K P R Y L	
UniRef90_U1FJQ8	S L D T A G I A I	G G G L S V V G G E E	P A E E F A R F L Q Y T V Q Y L	P E A K P K Y V	
UniRef90_UPI00029B4D2D	S F N R E G N A I	G G G L S V V G G E E	P E D V M Y E M I E V V N E I L	P K D K P R Y L	
UniRef90_W7E253	N I G F E G Y A I	G G G L S V V G G E E	P Q E Q M F S T L D F T T H L M	P T D K P R Y L	
UniRef90_UPI00036AED75	D L G F D G Y A I	G G G L S V V G G E E	P Q D V M L A M L D E T V P E L	P A D R K P R Y L	
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UniRef90_UPI0003B3B138	D L D F P G Y A I	G G G L S V V G G E E	H P L M Y A M V E V V E P L L	P P H K P R Y L	
UniRef90_F5YMV3	E A D T P G I A I	G G G L S V V G G E E	G D V F Q E Y L A Y T A A L L	P R E K P R Y V	
UniRef90_A0P5Q3	D I G F D G Y A I	G G G L S V V G G E E	P K H D M H R E V K H I A P K M	P A D K P R Y L	
UniRef90_S3L298	S L N S A G I A I	G G G L S V V G G E E	P F D V Y E E F L S Y T A S L L	P R E K P R Y V	
UniRef90_E1R1L8	E L D F P G I A I	G G G L S V V G G E E	P K E T F E E Y L A Y T S Q F L	P S E K P R Y L	
UniRef90_G0J6R5	D Q D R E G N A I	G G G L S V V G G E E	P A E Q M Y E M T D L V T D I L	P S E K P R Y L	
UniRef90_UPI0003B69F86	E L D L P G Y A I	G G G L S V V G G E E	H E Q M Y Y I L D E V V P Y L	P S E K P V Y L	
UniRef90_M5UHW8	T M P F E G F A I	G G G L S V V G G E E	A P E E M Y A T T A V T T V H L	P V D K P R Y L	
UniRef90_T0DPN7	E M D F P G L A I	G G G L S V V G G E E	K N E E M V D F L N D F V H T M	P D Q K P R Y L	
UniRef90_E0US31	A L D Y D G F A I	G G G L S V V G G E E	L N E M Y D T V E H T V Q Y M	P K D K P R Y L	
UniRef90_S8GMZ5	S K N A D G N A I	G G G L S V V G G E E	P T E K M Y E M I E L T N A I L	P S D K P R Y L	
UniRef90_U5N7S4	A M D F P G Y A I	G G G V S V V G G E E	P K E E M L R I L A H T P R L L	P A H K P R Y L	
UniRef90_L7VT23	E L D F P G I A I	G G G L S V V G G E E	P K E E M L R V L K H I G P K L	P A H K P H Y L	
UniRef90_I3I1I5	E M G F D G Y A I	G G G L S V V G G E E	G A F L M N E V L E Y T G N Y L	P Q D K P R Y L	
UniRef90_G2HSS8	M T Y S D G Y A I	G G G L S V V G G E E	N A Q D M Y E T V E W T T Q F M	P K D K P R Y L	
UniRef90_A6DAZ3	G Y S F D G F A I	G G G L S V V G G E E	E N Q L M Y D T I E V T T P Y M	P K D K P R Y L	
UniRef90_H8GST1	P F G T P G F A I	G G G L S V V G G E E	S K E E M F P A V A F T A E R L	P E N K P R Y L	
UniRef90_F7XV01	A L D F D G Y A I	G G G L S V V G G E E	P Q A V M F D V L D Y T I P L L	P K F K P R Y L	
UniRef90_K9RP63	K L D L P G Y A I	G G G V S V V G G E E	P P E L I A G V V A A T T P L L	P E D K P R Y L	
UniRef90_R7EUC2	E L D L D G Y A I	G G G L S V V G G E E	T E E M Y R I I D A V E P Y M	P K N K P R Y L	
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UniRef90_UPI0003685BA1	D Q D F E G I A I	G G G L S V V G G E E	P I E M M Y E F T D L N T D Y L	P K D K A R Y L	
UniRef90_D1B2G8	A L P F D G F A I	G G G L S V V G G E E	S N A L M Y E T V E F V T P I L M	P K E K P R Y L	
UniRef90_UPI0004053830	E F D L P G Y A I	G G G V S V V G G E E	P S A L I E K I V Q V T T P I L	P F N K P R Y L	
UniRef90_L0ETP7	K L D L K G Y A I	G G G L S V V G G E E	P Q E V M L E M L M N T L P V L	P V E K P R Y L	

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UniRef90_E6YHK4 Q R O K K V F G D Q P E K A M F P I V Q G G G D N M K L R E R S A Q A L K
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UniRef90_W2BUF2 Q R C L A E H K R L T L E R K G Q A L F G I V Q G G A Q Y E D L R R K A S R D L A
UniRef90_UPI00036646DD E R S K I E F G T N S K K A L F G I V Q G G I Y K D L R L E S L D N L K
UniRef90_U4KYA2 D R C I A E H M K P D A L N P S Q N L F C I I Q G G L D L D M R R E C A E A M V
UniRef90_F4B2V3 D R C I N H F N K I P A Y G H E Q A L F P I V Q G G S T Y K D L R A R S A E Y I A
UniRef90_F5XMH3 I R C L R E H R R L T E E R V G Q A L F G I V Q G G A Q Y E D L R R R A R G L A
UniRef90_UPI00020028DB E R C L T S H T K D D Q A L F G I V Q G G C F P H L R E E S A R V I S

		210	220	230	240																																										
UniRef90_UPI0003820837	Q	L	D	L	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	P	P	E	L	H	H	I	V	Q	A	T	A	P	L	L	P	H	H	K	P	R	Y	L	L					
UniRef90_F7V5X1	D	M	D	L	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	H	E	E	M	Y	E	H	I	L	D	V	T	V	P	Y	L	P	Q	D	K	K	P	Y	L	L			
UniRef90_Q1NY98	E	L	G	F	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	Q	E	L	M	Y	E	F	L	C	Q	A	T	A	A	S	R	L	P	V	N	D	K	K	P	Y	L	L
UniRef90_UPI00047912A6	S	K	N	A	V	G	N	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	D	M	Y	E	F	T	E	S	C	A	S	R	L	P	V	N	D	K	K	P	Y	L	L		
UniRef90_C0BJT0	K	Q	D	L	P	G	N	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	E	M	Y	A	M	T	S	E	V	C	S	V	L	P	K	D	K	K	P	Y	L	L			
UniRef90_UPI0003B4B755	A	M	G	F	A	G	V	A	I	V	G	G	L	S	V	V	G	E	T	S	T	Q	T	M	Y	D	V	I	D	A	V	E	P	Y	L	P	P	K	N	K	K	P	Y	L	L		
UniRef90_D4TL90	K	L	D	M	F	A	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	E	L	M	A	Q	I	V	R	T	T	A	P	L	L	P	P	K	N	K	K	P	Y	L	L		
UniRef90_B3EPX6	D	L	D	F	E	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	K	M	Y	R	I	L	E	L	S	H	T	L	L	P	P	E	N	K	K	P	Y	L	L		
UniRef90_U3U8F6	K	I	L	G	F	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	H	M	H	K	I	L	D	F	L	C	P	K	M	P	Y	E	N	K	K	P	Y	L	L	
UniRef90_B3EDL1	N	L	G	F	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	A	M	Y	R	V	L	E	L	S	H	N	L	L	P	P	E	H	K	K	P	Y	L	L		
UniRef90_UPI00036A7C38	N	L	G	F	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	K	S	Q	F	F	E	V	T	E	K	S	C	S	I	L	P	P	E	E	K	K	P	Y	L	L
UniRef90_UPI00035CE6E0	D	F	G	A	E	G	N	A	I	V	G	G	L	S	V	V	G	E	T	P	E	P	V	M	Y	E	M	T	D	L	V	T	E	L	L	P	P	E	E	K	K	P	Y	L	L		
UniRef90_R5FY72	H	K	D	F	K	F	G	I	V	G	G	Y	S	V	V	G	E	T	P	H	E	V	M	F	E	T	L	G	D	V	A	R	T	L	C	P	P	E	N	K	K	P	Y	L	L		
UniRef90_F2ST56	A	R	N	T	P	G	L	A	I	V	G	G	L	S	V	V	G	E	T	A	K	D	E	F	C	K	V	V	H	A	C	T	D	M	L	P	P	T	N	K	K	P	Y	L	L		
UniRef90_E6U6Z2	E	M	D	L	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	D	M	Y	R	I	L	S	C	V	E	P	H	M	P	V	G	D	K	K	P	Y	L	L		
UniRef90_D2R233	K	L	N	F	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	A	M	Y	A	V	L	D	A	V	M	P	A	M	P	V	V	D	K	K	P	Y	L	L		
UniRef90_F9Z9Q8	S	L	N	R	A	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	E	M	Y	A	M	L	E	V	V	N	R	I	L	P	Q	D	K	K	P	Y	L	L			
UniRef90_A9NG43	K	L	D	F	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	K	A	E	M	Y	E	M	T	R	H	L	N	P	I	L	P	P	F	N	K	K	P	Y	L	L		
UniRef90_B9KZ97	S	L	P	V	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	K	K	L	L	Y	A	M	L	D	A	T	A	G	E	L	L	P	D	D	R	K	K	P	Y	L	L	
UniRef90_A0A023X3N6	E	L	D	F	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	S	R	E	E	M	L	G	T	L	G	L	T	A	P	L	L	P	P	E	K	K	P	Y	L	L			
UniRef90_A7I2I6	E	L	P	F	D	G	L	A	I	V	G	G	L	S	V	V	G	E	T	P	N	R	E	F	M	T	D	T	V	E	A	V	M	P	Y	L	P	D	S	A	R	K	K	P	Y	L	L
UniRef90_UPI0003B63A95	S	L	N	M	P	G	L	A	I	V	G	G	L	S	V	V	G	E	T	P	P	A	E	F	T	K	Y	L	N	Y	T	Q	Y	L	P	P	E	D	K	K	P	Y	L	L			
UniRef90_J5TVW2	S	L	G	A	E	G	N	A	I	V	G	G	L	S	V	V	G	E	T	P	T	E	K	M	Y	E	M	V	L	E	L	T	N	S	I	L	P	P	K	D	K	K	P	Y	L	L	
UniRef90_E7C7P3	N	L	G	F	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	K	Q	E	T	M	F	N	I	L	D	Y	T	A	S	I	L	P	P	D	D	K	K	P	Y	L	L		
UniRef90_D1PKT7	E	Y	D	L	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	V	M	Y	D	L	I	S	A	V	E	P	Y	A	P	P	K	D	K	K	P	Y	L	L		
UniRef90_E8Q613	D	M	N	F	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	R	Q	K	M	Y	D	L	I	S	H	I	C	Q	I	L	P	V	N	K	K	P	Y	L	L			
UniRef90_R6EG58	D	K	G	A	E	D	G	N	A	I	V	G	G	L	S	V	V	G	E	E	T	V	M	Y	E	M	I	E	V	V	S	A	N	E	L	L	P	P	E	K	D	K	K	P	Y	L	L
UniRef90_T1CXW2	E	L	E	F	A	G	H	A	I	V	G	G	L	S	V	V	G	E	T	P	T	N	A	M	Y	D	T	I	A	F	S	V	A	P	L	L	P	P	E	K	D	K	K	P	Y	L	L
UniRef90_K1ZS50	E	I	E	F	A	G	H	A	I	V	G	G	L	S	V	V	G	E	T	P	I	D	E	M	Y	R	T	V	G	E	M	A	P	L	M	P	Q	D	K	K	P	Y	L	L			
UniRef90_U5DPM6	A	L	D	L	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	V	I	E	A	M	H	A	I	V	R	A	T	A	P	L	L	P	P	A	D	R	K	K	P	Y	L	L
UniRef90_R6UDV4	E	L	D	L	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	V	M	Y	H	I	E	Q	A	V	Q	E	Y	M	P	P	A	D	R	K	K	P	Y	L	L	
UniRef90_V2Y945	D	M	D	L	A	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	H	E	E	M	Y	Q	T	L	E	T	V	V	P	Y	L	P	P	E	N	K	K	P	Y	L	L			
UniRef90_UPI00036CDC6D	E	L	D	L	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	S	A	D	Q	E	L	S	H	T	V	G	Q	T	A	P	L	L	P	P	E	K	D	K	K	P	Y	L	L
UniRef90_W0JFP8	G	M	D	F	D	G	L	A	I	V	G	G	L	S	V	V	G	E	T	S	T	Q	E	M	Y	D	T	V	A	S	V	M	Q	Y	L	P	P	E	D	K	K	P	Y	L	L		
UniRef90_R6I373	E	L	D	L	P	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	H	Q	E	M	Y	D	T	I	V	Q	A	V	E	E	Y	M	P	K	D	K	K	P	Y	L	L			
UniRef90_W5J771	K	R	N	T	R	G	F	A	I	V	G	G	L	S	V	V	G	E	T	S	K	D	E	F	W	R	T	V	H	L	C	T	D	L	L	P	P	E	D	K	K	P	Y	L	L		
UniRef90_UPI0004679879	A	L	D	E	D	E	F	D	G	I	V	G	G	L	S	V	V	G	E	G	K	A	N	L	G	T	L	V	G	W	M	T	D	E	L	L	P	P	R	D	K	K	P	Y	L	L	
UniRef90_A5FY69	A	L	G	F	E	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	G	Q	A	M	F	D	T	L	D	V	T	T	P	L	L	P	P	T	D	R	K	K	P	Y	L	L		
UniRef90_Q11VU4	E	A	G	C	V	G	N	A	I	V	G	G	L	S	V	V	G	E	T	P	A	E	E	M	Y	A	M	S	E	L	V	C	S	V	L	P	P	K	D	K	K	P	Y	L	L		
UniRef90_UPI0003794BEB	D	E	D	G	H	F	D	G	I	V	G	G	L	S	V	V	G	E	T	J	E	K	Q	N	L	A	T	I	V	G	W	V	T	D	E	L	L	P	P	D	D	K	K	P	Y	L	L
UniRef90_E1QIL6	E	L	E	L	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	K	E	I	M	M	E	V	I	E	R	T	V	P	L	V	S	G	A	G	P	V	Y	L	L			
UniRef90_E7NWI7	E	L	N	P	N	G	L	A	I	V	G	G	L	S	V	V	G	E	T	G	E	L	Y	A	E	M	L	A	F	T	A	E	H	L	L	P	P	K	N	K	K	P	Y	L	L		
UniRef90_D5QBB8	D	I	L	G	F	E	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	Q	E	L	M	F	S	T	L	D	A	T	V	G	L	I	P	Q	D	A	P	Y	L	L				
UniRef90_V9L1Q4	K	R	D	V	P	G	F	A	I	V	G	G	L	S	V	V	G	E	T	K	K	D	D	F	W	K	M	V	T	L	S	T	D	F	L	P	P	R	E	K	K	P	Y	L	L		
UniRef90_E1IDU5	T	L	G	F	D	G	F	C	I	V	G	G	L	S	V	V	G	E	T	K	P	Q	M	Y	D	V	V	D	M	T	V	E	H	M	P	P	D	G	M	A	R	Y	L	L			
UniRef90_A7HD07	Q	H	A	F	D	G	F	A	I	V	G	G	L	S	V	V	G	E	T	R	T	E	R	F	D	V	V	G	R	T	A	E	L	L	P	P	E	D	R	K	K	P	Y	L	L		
UniRef90_D7CQA0	G	M	D	F	H	G	L	A	I	V	G	G	N	L	G	K	T	K	A	Q	M	R	Q	V	L	E	W	T	P	E	L	L	P	P	R	E	K	K	P	Y	L	L					
UniRef90_R6VP54	Q	Y	D	A	D	G	Y	A	I	V	G	G	L	S	V	V	G	E	T	P	T	E	V	M	Y	E	M	I	E	V	V	N	A	I	L	P	P	E	D	R	K	K	P	Y	L	L	
UniRef90_Q2JR27	R	L	D	L	P	G	Y	A	I	V	G	G	V	L	S	V	V	G	E	T	P	V	E	L	M	H	A	V	V	R	Q	T	A	P	L	L	P	P	A	D	R	K	K	P	Y	L	L
UniRef90_V9D8W4	K	R	D	T	P	G	L	A	I	V	G	G	L	S	V	V	G	E	T	A	K	T	D																								

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UniRef90_UPI00047912A6 MGVVGT P WNL LVEAV DRGIV DDFD C VLP ST RN NG R N R N G M L F F T T A D Q G T
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UniRef90_UPI0003B63A95 MGI G T P E Y I L V E N V Q A G I D D M F D C V L P T R N A R N R N G S Y F F T T R R Y G K M
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UniRef90_E7C7P3 MGVVGT G K P S N D L L V G A V T R G V D D L F D C C V L P S R N A R N R N Q A F F T T H M G E
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	130	140	150	160
UniRef90_N2AB22	S M Q I Q Q S N L A S T I A M A F D E C P S S R A D R T Y V Q N S V D R T T R W L			
UniRef90_R4PX68	S M E L Q Q H E I G A D I H M A F D E C P A P L A P P Y Y L V E A L E R T S H A W A			
UniRef90_S3BVW8	S I D L L Q Q N S I G A D I A M Q L D D E V L T T S P T D A A R Y M R A Q A M E R T S V A R W L			
UniRef90_UPI0003C7FF9A	S M R I Q Q H Q L G A D V I M Q L D D E L T T L M N T P D A A R Y M R A Q A M E R T S V A R W L			
UniRef90_Q7VHX2	V L D I Q Q Y A L N S D I M M V L D D L V G L P S S E E R F I A D S A V A R T T S D W A			
UniRef90_D3PGB1	S L E I Q Q N T I G S D I I M Q L D D V V D T H S N G P E R F M E E A M H R S T I R W L			
UniRef90_Q6C2C9	S M S L Q Q N S I G S D I I M Q L D D V V A T L T E T G P R V M E E A M H R S T I R W L			
UniRef90_UPI000422A08D	S M R V Q Q H Q L G A D I I F A F D E L T T L M N T R A Y Q E E S L E R T T R R W A			
UniRef90_UPI00044107D9	S I S I Q Q H A I G A D I I M Q L D D V V S S L M A G P R V V E E A M W R S I R W L			
UniRef90_V2XX01	S I S I Q Q H A I G A D I I M Q L D D V V S S L M A G P R V V E E A M W R S I R W L			
UniRef90_R6VWL2	S M Q I Q Q S K I A S T I A M A F D E C P S S V A D R S Y I R A S I D R T T R W L			
UniRef90_E2SAF5	S M R I Q Q H E L G A D V I F A F D E L T T L M N T R G Y Q E E A L V A R T T Q A W A			
UniRef90_S6BYH7	N M R L Q Q E L I G A D I A M Q L D D Q C A P Y P A T R E F V A R A L D A Y S S A W A			
UniRef90_H2CF09	V L E T Q Q L W L G S D I M M V L D D C C A P P G D A D E R E R M A D A L N R T T H C W A			
UniRef90_L0HKX6	S K E V L Q R R S I G S D I A M M L D D Y C A E Y P V D Y E T A K M S V M L T T K W A			
UniRef90_N1J6D2	S I S I Q Q N S I G S D I I M Q L D D V V T T P D R H R Y Q V A M Q R T T I R W L			
UniRef90_K7SIX8	S M S I Q H R L G A D I M F A F D E L T T L M N T R P Y Q E E A L E R T T R R W A			
UniRef90_K9P909	S M A I Q Q R A L G A D V I M A F D D Q C P P Y P A T E A A V A E A C H R T H R W L			
UniRef90_A4AR97	S H I Q Q R N D I G A D I I M A F D D V V S S T A D R A R F E E A T H R R T R W I			
UniRef90_U2TGB2	S M E V Q Q K C L G A D I V M A F D E C V P Y P A D F A Y A K A S T E R T T I R W L			
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UniRef90_T1GLA8	S L G I Q Q N Q I G A D I I M Q L D D V V K T T T G P R V E E A M N R T I R W L			
UniRef90_I6X272	S M T L Q Q H V L G A D I I M A F D E L T T L M N T R D Y Q E E A S V A R T H R W A			
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UniRef90_S8A8H0	S M S I Q Q N S I G S D I M M Q L D D V I T S P D N E R I Q E A M H R S I R W L			
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UniRef90_C9ZQY4	S I R I Q Q N A I G G D I M M Q L D D V V H V L T T G P R V E E A M R R T I R W L			
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UniRef90_M3UV49	S M Q I Q Q H Q L G A D I I F A F D E L T T L M N T R G Y Q E Q S L E R T R Q W A			
UniRef90_Q04UC6	V T D I Q Q R T I G S D I M M V L D D C A P F D S S Q E R L R Q S L D R T H R W A			
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UniRef90_X5DQH7	S M Q I Q Q H G L G A D I M F A F D E L T T L V D T R L Y Q E E S V E R T H R W A			
UniRef90_D6ZAQ1	S T A V Q Q R D I G A D I I F A F D E L T T L H S E E Y Q R S S V E R T L R W A			
UniRef90_K2AFD3	S V Q A Q Q K D I G A D I I P F D E L T P Y H I D R K K L I E S L H R T H R W E			
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UniRef90_UPI0001D615EA	S V Q I Q Q N A I G A D I A L L C H F P G W S A V A Q S W L T A T S V S Q Q A I L			
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		210	220	230	240																																						
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UniRef90_K2EKU6	E	L	G	W	D	G	F	A	I	G	G	V	A	L	V	G	N	C	K	A	D	M	H	Q	V	L	E	W	V	V	P	R	L	D	A	E	K	R	P	R	Y	L	
UniRef90_A0A023HXT4	N	S	L	P	F	F	G	H	A	I	G	G	V	A	L	V	G	N	C	K	A	D	M	H	Q	V	L	E	W	V	V	P	R	L	D	A	E	K	R	P	R	Y	L
UniRef90_C3ZCJ0	K	R	D	L	P	G	F	A	I	G	G	L	S	G	G	E	A	K	T	H	F	W	R	M	V	H	L	S	T	D	Y	L	P	D	R	N	K	P	R	Y	L		
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UniRef90_C1FEC5	R	N	D	L	P	G	F	A	V	G	G	L	A	S	G	G	E	A	K	D	D	F	C	R	V	M	V	A	Q	C	T	A	S	L	P	P	A	N	K	P	R	Y	L
UniRef90_E9BLS3	Q	R	E	C	M	G	Y	A	I	G	G	L	S	G	G	E	A	K	D	D	F	W	R	M	V	R	C	T	K	E	G	L	P	P	A	N	K	P	R	Y	L		
UniRef90_U6IBG6	R	K	E	M	A	R	F	A	I	G	G	L	S	G	G	E	E	K	P	D	F	C	R	T	V	F	Q	S	T	G	L	L	P	P	R	D	R	K	P	R	Y	L	
UniRef90_K2FB84	K	L	P	F	D	G	F	S	I	G	G	A	F	L	G	K	T	K	E	E	M	L	E	M	L	Q	K	L	M	P	R	L	P	P	E	N	K	P	R	H	L		
UniRef90_R5Z404	Q	M	D	F	D	G	F	Y	L	G	G	A	F	L	G	K	E	D	L	G	E	I	L	R	W	C	C	E	E	L	L	P	P	D	D	K	P	R	H	L			
UniRef90_W7TYF1	G	L	P	F	D	G	F	A	V	G	G	A	L	G	K	D	R	D	E	L	T	E	V	L	R	V	T	M	P	H	L	P	V	D	K	P	R	H	L				
UniRef90_J9FIF2	Q	R	A	E	T	G	I	A	I	G	G	L	S	G	G	E	D	K	D	S	F	W	R	V	V	A	Q	C	C	E	N	L	P	P	E	H	L	P	R	Y	L		
UniRef90_B4FSA6	E	R	N	L	P	G	Y	A	I	G	G	L	A	S	G	G	E	D	K	D	S	F	W	R	V	V	A	Q	C	T	A	G	L	P	P	E	N	K	P	R	Y	L	
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UniRef90_A0A024TAP9	S	L	P	F	D	G	H	A	I	G	G	S	M	G	K	D	R	T	E	M	M	D	L	L	T	F	L	R	P	F	L	P	P	E	D	K	P	R	H	L			
UniRef90_R9LPC8	Q	M	N	F	D	G	Y	G	I	G	G	S	M	G	A	F	L	K	N	N	L	E	D	I	L	R	W	C	N	E	E	L	P	P	D	E	K	P	R	H	L		
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UniRef90_B7PT12	K	R	D	V	A	G	Y	A	I	G	G	L	S	G	G	E	S	K	E	E	F	W	P	M	V	D	I	S	T	N	L	L	P	P	K	G	K	P	R	Y	L		
UniRef90_K2A2L2	E	M	G	F	P	G	L	A	I	G	G	K	T	I	G	S	P	K	I	T	A	C	A	L	D	T	I	A	D	L	L	P	P	K	D	K	P	R	H	L			
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UniRef90_M7CF63	Q	R	D	V	P	G	F	A	I	G	G	L	S	G	G	E	A	K	D	H	F	W	R	M	V	T	L	S	T	D	R	L	P	P	R	G	K	P	R	Y	L		
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UniRef90_R7G8W1	Q	M	E	F	D	G	Y	G	I	G	G	A	F	L	K	E	S	L	G	E	I	L	R	W	C	C	E	E	L	L	P	P	E	N	K	P	R	H	L				
UniRef90_G7DZU2	K	R	D	L	P	G	Y	A	V	G	G	A	F	L	G	K	E	S	K	G	I	F	W	Q	V	L	S	Q	C	A	Q	R	L	P	A	D	K	P	R	Y	L		
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UniRef90_C7LYS5	E	L	G	F	D	G	Y	G	I	G	G	L	A	S	V	G	E	S	A	P	A	T	L	A	A	V	A	A	A	L	E	R	L	P	K	A	D	R	P	R	Y	L	
UniRef90_A4S1B5	A	L	P	F	D	G	L	A	I	G	G	L	A	S	V	G	R	D	A	A	E	L	G	A	L	E	F	A	L	M	P	L	L	P	K	H	L	P	R	H	L		
UniRef90_R6FUC7	E	L	D	L	D	G	Y	A	I	G	G	L	A	S	V	G	E	T	H	E	E	M	Y	R	I	I	E	S	V	E	P	H	L	P	K	D	K	P	R	I	Y	L	
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UniRef90_A2FMJ1	K	R	K	E	K	G	F	A	I	G	N	L	S	N	T	E	S	K	D	L	F	W	K	S	L	N	A	S	I	A	G	L	P	P	E	E	Y	P	R	Y	L		
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UniRef90_E0S7F2	K	R	S	P	K	G	L	A	I	G	G	L	S	G	G	E	E	K	S	E	F	A	R	I	V	H	F	C	I	K	N	L	P	S	E	G	I	P	R	Y	L		
UniRef90_W8JGE2	E	H	P	F	D	G	F	A	I	G	G	S	L	G	R	N	F	Q	E	E	M	V	N	V	V	D	I	T	M	R	Y	L	P	S	K	D	R	P	R	H	L		
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C I Q A Q F Q Y G S D I M M A L D D M C T H P D D P Y E L Q K R S S V D L T V A W S
S L S I Q N I I G G D I I M Q L D D V V H S L T V G E R V E K A M K R S C R W L
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I V K F Q E K L K S D I V V P L D I P T P P D A D Y S T A L K D L E
T I Q L Q M G Y G A D L L F C L D D C T N A E D S L D V Q E V S V K R T I A W A
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I L L F Q Y D I G S D V I G T P V D I P T P P D A D R E Q A E T T E L A T T Q E R L
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Y M D L I E A F K P D M Y V A L H D D T N V N S S K K R V S K A V Q R T G T F F
I I E F Q H A I G S D I G T P V D I P T P P D V P R E Q A E
I L L E F Q R E V I G S D I I G T P V D I P T P P D A G R E R A E A D L E T T A E
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I V Q F Q K D I G S D I I T I L D I F T K P Q D S Y E Q A K S A V Q E T Y R R L
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Y M N I A E I F K P D M Y V L C D G D T D Q D S S K R I S K T I E R S K V L F
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Y M S L V E A F R P D V Y V I F D G D T D G G S S K K R S Q E E T E T F V
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K R S R A E F D R L G N K N A L F G I Q G G S V Y E D L R D E S L Q E L L
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E L A A T V D V G D M L V N A P V Q G G S T Y P E L R R E E A G R F H A Y
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R Q A R E A Y D R Q R A S A E P P L L V G V V Q G G G T D P E L R R Q R C C V D A L V
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D D C L S M Q P T G S E S A A L G A V V G G T S L E L R R S S A S E V A
A T S L L E H K D P R K Q A M Y C V T H G G V N V E M R K G V N Y L V T
T E E R L S E A R E D W S E G S L L A G P I Q G G S T Y P D L R F G A G R R V G
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N R X L A E H N R L T E Q R V D Q S L W G V V Q G G A Q Y E D L R R Q A V R G L V
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I T T E R L K N A R N H L S G S T L L A G P I Q G G S T Y R D L R T E A A K K V S
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P D T I N K E Q M L F G I N Q G G G T F E D I R I E H A Q R E I S
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T T Q E R L E A A E D V D T G E M L V T A P V Q G G S T Y P D L R R E E A G R H A D
D E C I Q L Q E K S P E L Q S S V M I G V I E G G G D V L E E R L R S A R E T A
R E A R E L F P D A N I L A G P V Q G G G I F T D L R E E A G R A V Q
Q I A D D A A T G E M L V T A P V Q G G S T Y P D L R R A A R K A Y
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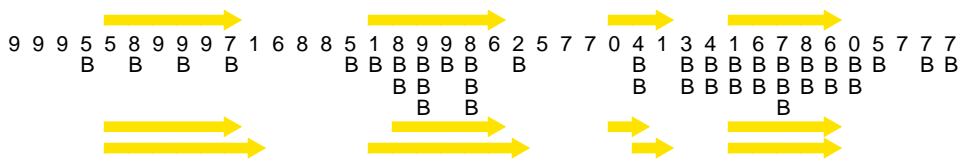
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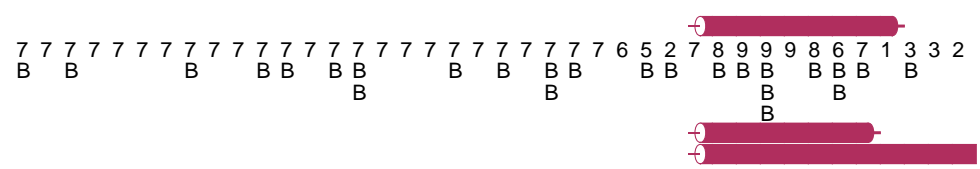
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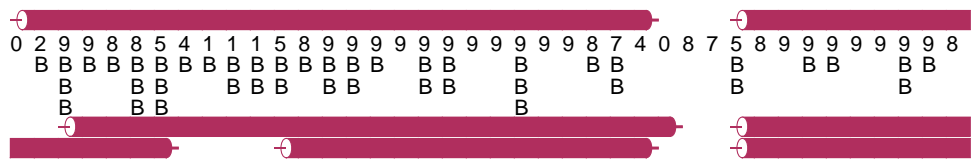
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