

QUERY	E	R	V	A	V	V	P	V	E	G	H	E	R	D	V	F	R	N	P	60	Y	I	A	N	C	R	I	V	G	D	T	A	V	V	S	N	G	S	H	80										
UniRef90_R5UGD9	E	R	V	A	V	V	P	V	E	G	H	E	R	D	V	F	R	N	P	60	Y	I	A	N	C	R	I	V	G	D	T	A	V	V	S	N	G	S	H	80										
UniRef90_R9JSG4	E	E	G	E	G	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R5JG79	E	E	G	E	G	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R7AGN7	E	E	G	E	G	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_D4KZH9	D	D	G	E	G	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R5JUM5	D	D	G	N	G	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R7JWW4	E	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_UPI0001C3706D	D	D	G	D	G	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R5SAG9	D	D	G	D	G	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_D7GWW9	D	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_UPI00046621AF	E	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R9MR77	E	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	N	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R6UDT5	D	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	D	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_R6NNA3	D	D	G	D	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	D	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_R6JSH7	D	D	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	I	G	K	K	T	I	V	T	T	N	G	D	Q	Q	
UniRef90_D4LE66	D	D	G	L	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_R5P9H9	T	E	D	E	D	G	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_R6RZP1	D	D	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_UPI00047EC43B	D	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	S	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_N2AGS9	D	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_R5WIH6	E	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_D4L8C4	T	E	D	E	D	G	I	K	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	S	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q				
UniRef90_D4J327	E	G	A	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	D	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R5VT51	D	D	G	D	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	M	V	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	D	T	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_R7MYN2	Y	E	D	E	D	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	D	Y	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_D4JUY1	D	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_UPI00047DB1A4	E	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	M	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	R	G	N	A	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_UPI000465BE83	E	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	M	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	R	G	N	A	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_UPI00047ABA5E	E	E	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	K	D	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_I5AW14	E	E	E	D	E	G	I	R	T	E	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	H	T	I	V	T	T	N	G	D	Q	Q				
UniRef90_R5AAF3	E	E	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	S	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	E	D	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_H1C7T8	T	P	D	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	M	T	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	E	G	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R6C8N5	T	Q	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	A	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	A	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_U1FC78	D	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	M	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	Q	N	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_R5CHA7	D	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	M	K	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_F2NVY1	D	D	G	D	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	T	D	D	P	S	L	I	I	Y	A	P	P	V	K	V	L	G	S	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_C0E8X3	D	D	G	D	G	E	G	I	R	T	E	A	F	D	D	P	E	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	T	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_UPI00004135CA9	D	D	G	T	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	M	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	T	Y	G	F	Y	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_UPI000035B17EF	T	D	D	D	G	E	G	I	R	T	E	A	F	D	D	P	S	K	M	V	D	D	P	S	L	I	I	Y	A	P	P	V	R	K	V	G	N	K	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_V2Y5F6	D	D	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	S	D	D	P	S	L	I	I	Y	S	P	V	K	V	I	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_G5GH24	E	K	D	G	E	G	I	T	K	P	E	F	D	D	P	S	K	L	S	D	D	P	S	L	I	I	Y	Q	P	V	K	I	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q				
UniRef90_R6CQ18	Q	E	E	G	E	G	I	T	R	T	E	A	F	D	D	P	S	K	A	V	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	K	Q	T	I	V	T	T	N	G	D	Q	Q
UniRef90_R5N3Q6	D	G	E	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	M	V	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	N	K	T	I	V	T	T	N	G	D	Q	Q			
UniRef90_B0PHR3	D	D	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	K	L	S	D	D	P	S	L	I	I	Y	A	P	P	V	R	V	L	G	G	D	A	T	I	V	T	T	N	G	D	Q	Q	
UniRef90_R6N5V7	N	D	R	G	G	E	G	I	G	L	K	T	E	A	F	D	P	A	K	L	V	D	D	P	S	L	I	I	Y	N	P	V	L	V	L	G	D	A	T	I	V	T	T	N	G	D	Q	Q		
UniRef90_C4GAD4	E	E	G	G	E	G	I	R	T	Q	A	F	D	D	P	S	K	L	E	D	D	P	S	L	I	I	Y	A	P	P	V	R	L	L	D	D	M	L	I	V	S	N	G	D	Q	Q				
UniRef90_C4Z6H6	D	D	G	E	G	E	G	I	R	T	E	A	F	D	D	P	S	L	V	A	P	E	L																											

QUERY	T	D	T	I	A	D	K	V	A	90	G	M	N	L	R	D	A	100	L	L	A	M	D	Y	E	K	D	E	110	N	T	P	R	R	I	A	A	A									
UniRef90_R5UGD9	T	D	T	I	Y	E	E	L	M	D	K	Q	G	M	D	K	Q	M	T	F	E	Q	S	L	R	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I
UniRef90_R9JSG4	T	D	T	V	Y	E	E	L	M	D	K	Q	G	M	D	K	Q	M	T	F	E	Q	S	L	R	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I
UniRef90_R5JG79	T	D	T	I	Y	E	E	L	M	D	K	Q	G	M	D	K	Q	M	T	F	E	Q	S	L	R	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I
UniRef90_R7AGN7	T	D	T	I	Y	E	E	G	M	D	R	Q	Q	M	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I				
UniRef90_D4KZH9	T	D	T	I	Y	E	E	L	M	D	K	Q	G	M	D	K	Q	M	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	
UniRef90_R5JUM5	T	D	T	I	Y	E	E	L	M	D	K	Q	G	M	D	K	Q	M	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	
UniRef90_R7JWW4	T	D	T	V	Y	E	E	G	L	E	Q	G	K	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I					
UniRef90_UPI0001C3706D	T	D	T	I	Y	E	E	L	M	D	K	Q	G	M	D	K	Q	M	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	
UniRef90_R5SAG9	T	D	T	V	Y	E	E	L	M	Q	D	G	S	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I					
UniRef90_D7GWW9	T	D	T	I	Y	D	N	G	L	N	K	Q	K	L	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I				
UniRef90_UPI00046621AF	T	D	T	I	Y	N	G	L	N	K	Q	K	L	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I					
UniRef90_R9MR77	T	D	T	V	Y	D	G	M	K	A	G	L	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I						
UniRef90_R6UDT5	T	D	T	I	Y	E	E	L	M	Q	Q	G	K	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	G	P	N	T	P	R	R	I	A	S	G	I	I					
UniRef90_R6NNA3	T	D	T	I	Y	E	H	M	E	N	G	K	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_R6JSH7	T	D	T	V	Y	D	L	M	S	S	S	S	S	S	S	S	S	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_D4LE66	T	D	T	I	Y	D	L	M	S	S	S	S	S	S	S	S	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_R5P9H9	T	D	T	I	Y	E	E	L	M	D	K	Q	Y	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_R6RZP1	T	D	T	I	Y	E	E	L	L	M	D	K	Q	Y	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_UPI00047EC43B	T	D	T	I	Y	D	L	M	K	E	G	Q	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_N2AGS9	T	D	T	I	Y	A	C	M	D	R	Q	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_R5WHI6	T	D	T	I	Y	D	G	L	D	D	E	L	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_D4L8C4	T	D	T	V	Y	D	L	M	N	E	G	Q	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_D4J327	T	D	T	I	Y	E	Y	E	M	E	K	E	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_R5VT51	T	D	T	V	Y	D	Q	M	L	A	G	K	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_R7MYN2	T	D	T	I	Y	D	G	M	R	N	A	G	L	N	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
UniRef90_D4JUY1	T	D	T	I	Y	E	L	M	A	G	Q	M	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_UPI00047DB1A4	T	D	T	I	Y	D	L	M	E	A	G	Q	S	F	E	A	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_UPI000465BE83	T	D	T	I	Y	E	L	M	Q	A	G	Q	S	F	E	A	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_UPI00047ABA5E	T	D	T	I	Y	D	G	L	K	K	G	K	C	F	A	G	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_I5AW14	T	D	T	I	Y	D	G	M	K	D	G	L	T	F	E	A	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_R5AAF3	T	D	T	I	Y	D	F	M	Q	E	G	K	T	F	E	E	A	A	Q	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_H1C7T8	T	D	T	I	R	E	G	L	A	A	G	K	T	F	E	E	A	A	Q	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_R6C8N5	T	D	T	I	Y	D	F	I	K	D	G	K	T	F	E	E	A	A	Q	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_U1FC78	T	D	T	L	Y	E	G	L	S	N	G	L	T	F	E	Q	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_R5CHA7	T	D	T	I	Y	D	G	L	H	Q	M	L	T	F	E	Q	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_F2NVY1	T	D	T	V	Y	D	G	L	K	N	G	L	S	F	E	K	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_C0E8X3	T	D	T	V	Y	E	F	L	K	E	G	K	R	F	E	D	A	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_UPI0004135CA9	T	D	T	I	Y	D	G	L	S	T	G	K	F	E	E	A	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_UPI0003B517EF	T	D	T	I	Y	M	D	A	L	N	A	H	C	Y	R	H	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_V2Y5F6	T	D	T	V	Y	D	F	L	T	T	G	K	C	F	N	K	A	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_G5GH24	T	D	A	I	Y	D	K	G	M	D	Q	Q	L	T	F	E	Q	C	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D					
UniRef90_R6CQ18	T	D	T	I	Y	D	F	L	K	E	G	K	S	F	E	E	A	Q	S	L	L	R	S	R	E	F	E	P	D	D	D	D	D	D	D	D	D	D	D	D	D						
UniRef90_R5N3Q6	T	D	T	I	Y	E	L	M	D	K	Q	M	T	F	E	Q	S	L	L	R	S	R	E	F	E	P	D	D																			

QUERY	130	140	150	160
UniRef90_R5UGD9	MHL	ENSGT	YNYAMS	SLTKSN
UniRef90_R9JSG4	LHI	ENSGDY	NYAMS	ILKSN
UniRef90_R5JG79	MHI	ENSGDY	NYAMS	ILKSN
UniRef90_R7AGN7	LHI	ENSGDY	NYAMS	ILKSN
UniRef90_D4KZH9	MHI	ENSGDY	NYAMS	ILKSN
UniRef90_R5JUM5	LHV	ENSGDY	NYAMS	ILKSN
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UniRef90_R5SAG9	LHV	ENSGDY	NYAMS	ILKSN
UniRef90_D7GWW9	MHI	ENSGDY	NYAMS	ILKSN
UniRef90_UPI00046621AF	MHL	ENSGDY	NYAMS	ILKSN
UniRef90_R9MR77	MHL	ENSGDY	NYAMS	ILKSN
UniRef90_R6UDT5	VEP	SSND	FDFMS	ILKSN
UniRef90_R6NNA3	LEP	SSND	FDFMS	ILKSN
UniRef90_R6JSH7	MTV	DDGK	YDYAMS	ILKSN
UniRef90_D4LE66	IKH	DKED	FNYAMS	ILKSN
UniRef90_R5P9H9	MHV	ENSGDY	NYAMS	ILKSN
UniRef90_R6RZP1	LHF	ENSGDY	NYAMS	ILKSN
UniRef90_UPI00047EC43B	MNV	QNGK	FDFAMS	ILKSN
UniRef90_N2AGS9	LHI	ENSGDY	NYAMS	ILKSN
UniRef90_R5WIH6	MHI	ENSGDY	NYAMS	ILKSN
UniRef90_D4L8C4	VEP	SSND	FDFMS	ILKSN
UniRef90_D4J327	LHI	ENSGDY	NYAMS	ILKSN
UniRef90_R5VT51	LER	KDGY	QYAL	LSILK
UniRef90_R7MYN2	MKI	KDGY	RYAL	LSILK
UniRef90_D4JUY1	VHI	LDND	DMFA	MSILK
UniRef90_UPI00047DB1A4	MNV	KDGE	YDFAL	LSILK
UniRef90_UPI000465BE83	MNV	KDGE	YDFAL	LSILK
UniRef90_UPI00047ABA5E	MHI	ENSGDY	NYAMS	ILKSN
UniRef90_I5AW14	LEI	ENSGDY	NYAMS	ILKSN
UniRef90_R5AAF3	VSR	KEGS	FTYK	LSILK
UniRef90_H1C7T8	VKK	NGDY	LSILK	AD
UniRef90_R6C8N5	VEG	CNGY	LSILK	AD
UniRef90_U1FC78	LHV	ENSGDY	NYAMS	ILKSN
UniRef90_R5CHA7	LHI	ENSGDY	NYAMS	ILKSN
UniRef90_F2NVY1	LVE	ENSGDY	NYAMS	ILKSN
UniRef90_C0E8X3	VNS	SEKG	LNFS	LSILK
UniRef90_UPI0004135CA9	MHV	LTGD	FDFMS	ILKSN
UniRef90_UPI0003B517EF	MLP	NTGA	YKLS	LSILK
UniRef90_V2Y5F6	VDI	EKEK	LHFR	MSILK
UniRef90_G5GH24	IKL	DATG	QHYAL	MSILK
UniRef90_R6CQ18	VEG	GFYK	LSILK	AD
UniRef90_R5N3Q6	IHI	DNGE	MNYAMS	ILKSN
UniRef90_B0PHR3	LHG	FDYR	LSILK	AD
UniRef90_R6N5V7	VR	LKDG	FSYQ	LSILK
UniRef90_C4GAD4	LEL	EEDG	CAL	LSILK
UniRef90_C4Z6H6	LHV	ENSGDY	NYAMS	ILKSN
UniRef90_V2YEA4	MKP	DGNT	YLSILK	LD
UniRef90_E3GXU2	INN	KKGY	IGLV	TKDF
UniRef90_G4KW19	LKP	PD	F	SYN
UniRef90_R9M7V1	LS	PDG	SFK	LSILK
UniRef90_H7EIT9	LT	VDDG	GKFD	YAL
UniRef90_H1HRP3	LY	FADR	DFSY	EL
UniRef90_A6P0Y0	VR	ADG	SYR	LSILK
UniRef90_U6E9L3	IT	LDEA	YIGLV	THEK
UniRef90_R6PXX4	LT	FGEK	DFAY	KMS
UniRef90_R6I513	LT	FENK	DFAY	KMS
UniRef90_L0EHN7	VQ	PGDK	SAAY	KLA
UniRef90_E7MKS7	VNG	FDYQ	MSLS	LSILK
UniRef90_G8QYA6	VKM	MGK	PF	FGYS
UniRef90_F0T6L3	T	LGD	SYIGLV	THEDL
UniRef90_R6TF04	LS	PDG	SFK	LSILK
UniRef90_R6ERK4	MT	FGE	TLSY	QMS
UniRef90_F6D1M6	V	S	PRE	GYIGLV
UniRef90_R5X933	V	K	P	NGD
UniRef90_J1H146	M	N	A	ST
UniRef90_U2Q800	L	G	P	NG
UniRef90_R5AJT2	L	T	F	A
UniRef90_R6X6N9	L	T	F	A
UniRef90_R6YAN4	L	S	P	D
UniRef90_UPI00047CDDF3	L	Q	A	D
UniRef90_V2BWA4	V	D	I	E
UniRef90_F4XE04	V	E	K	D
UniRef90_R6S0D9	V	N	R	H
UniRef90_W0FR28	L	T	F	G
UniRef90_R5HE74	L	S	P	D
UniRef90_R9M0U9	L	E	G	F
UniRef90_UPI00037D8177	V	D	I	E
UniRef90_R8VYV1	M	N	E	D
UniRef90_J3JGB6	V	G	A	D
UniRef90_UPI00047C8B59	V	D	L	N
UniRef90_Q2NEI3	I	N	K	G
UniRef90_W3AS71	V	S	L	D
UniRef90_F6BE15	L	D	R	E
UniRef90_UPI0003B3B54B	L	D	L	E
UniRef90_R9SLR1	V	D	K	Y
UniRef90_R6H2P0	L	F	P	C
UniRef90_R7IE27	V	R	V	A
UniRef90_X8K482	V	E	H	A
UniRef90_R6NA57	L	H	L	D
UniRef90_R5Y4V7	L	T	F	G

QUERY E F K A G S P E E A A E F I L K G G E 170 180 190 200
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UniRef90_R9JSG4 H F I H T Y M G D G N P L P S F E G E P K L V E I P D D M N A S L N D D N K V S
UniRef90_R5JG79 H F I H T Y M H D G N P L P S F E G E P K L V E I P
UniRef90_R7AGN7 H F I H T Y M H D G N P L P S F E G E P K K I E I P
UniRef90_D4KZH9 H F I H T Y M G D G N P L P S F E G E P A P V E I P
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UniRef90_R5SAG9 R F I H T Y M H D G N P L P S F E G E P K L V E I P
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UniRef90_N2AGS9 R F I H T Y V G D G S P L P S F E G E P V R V L G I S G T I D T F
UniRef90_R5WIH6 H F I H T Y M H D G N P L P S F E G E P K E F T D K V W N S L N E D N K V S
UniRef90_D4L8C4 R F I H T Y M S D G N P L P S F E G E P T L V E I I
UniRef90_D4J327 R F I H T Y M G D G N P L P S Y E G E P T P I E I
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UniRef90_D4JUY1 K F I H T Y K C D G N P L P S Y E G E P K T V V I P D T
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UniRef90_R6C8N5 H F I H T Y R C D G N P I P S Y E G E P T P V E G D I D A F T A L N E D N K V S
UniRef90_U1FC78 R F I H T Y R G N G N P L P S F E G E P V P V
UniRef90_R5CHA7 R F I S T Y E N D A D P L P S F G G E P V S F D E D F T A G A A L N E D N K V S
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UniRef90_C0E8X3 R F L H T Y R C D G N P L P S F S G E P T L V E I E N T A I L W L N E D N K V S
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UniRef90_UPI0003B517EF H F I H T Y M G D G N P L P S F Q G E P E L V G I P C D S A S
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UniRef90_R6N5V7 R F I H T Y R C D G S P I P S F E G E P I P V T I A F T S S V W L N E D N K V S
UniRef90_C4GAD4 Y F I H T Y Q S D G D P L P S Y E G E P
UniRef90_C4Z6H6 H F I H T Y M G D G N P L P S Y E G E P
UniRef90_V2YEA4 H F I H T Y Q E N L D P L P S F E G E P
UniRef90_E3GXU2 K F E A K N A K E A A V D F I L N K G I F K K F T H P V T A A A A F K K E K W E
UniRef90_G4KW19 H L I H T Y Q G D G N P L P S F E G E P R P V A L P D A A A D A L D A E N K V A
UniRef90_R9M7V1 R F I H T Y M G D G N P L P S F E G E P E D A P D P E T L A A A L N G E N K V S
UniRef90_H7EIT9 H F I H T Y Q G D G N P L P S F E G E P E P V E I K
UniRef90_H1HRP3 H L I H T Y I G D G T P L Q S F C G E P K S V E L E P F A A K A L D P D N K I S
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UniRef90_U6E9L3 E F T A S N V A E A A Q F I M D Q G K F E E F T N P V T S A A A F G K D N W E
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UniRef90_E7MKS7 H I I H T Y Q N D K N P L P S F E G E P V R F
UniRef90_G8QVA6 H L I H T Y E S D G A P L P P F E G P K K V S L A G S I D T E D L W D
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UniRef90_R6ERK4 H F L H T Y E Q D G N P L P T F C G E P R R I E I P
UniRef90_F6D1M6 K F T A D T A A S A A Q F I I D G G K F V E F T N P V T S A A A F G S G K K W D
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UniRef90_R9SLR1 E Y D A S T S K E A A Q Y I F N Q G I F A D F E H P V S S V A S V Y D G K W D
UniRef90_R6H2P0 H L I H T Y E S D G A P L P S F C G E P R P D V A I T G T L D Q F T
UniRef90_R7IE27 H F I H T Y Q C D G N P I P S F A G E P E K V
UniRef90_X8K482 H L I H T Y V Q D G N P L P S F E G E P T K I E I E D T F A S S L D S E N K I S
UniRef90_R6NA57 H F I H T Y I C D G N P L P T F C G E P E R I A I P D D I D G F
UniRef90_R5Y4V7 H F L H T Y V T D G N P I P T F Q G E P E R V A I P

QUERY A T R E M
 UniRef90_R5UGD9 I E T K
 UniRef90_R9JSG4 L F V R
 UniRef90_R5JG79
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 UniRef90_R5JIM5
 UniRef90_R7JWW4 F T R
 UniRef90_UPI0001C3706D
 UniRef90_R5SAG9 F V R
 UniRef90_D7GWW9 F V R
 UniRef90_UPI00046621AF
 UniRef90_R9MR77 F V R
 UniRef90_R6UDT5 F V R
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 UniRef90_R6JSH7
 UniRef90_D4LE66
 UniRef90_R5P9H9
 UniRef90_R6RZP1
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 UniRef90_N2AGS9
 UniRef90_R5WIH6 F V R
 UniRef90_D4L8C4
 UniRef90_D4J327
 UniRef90_R5VT51 N A V W D
 UniRef90_R7MYN2
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 UniRef90_UPI00047ABA5E
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 UniRef90_R5AAF3 F V R
 UniRef90_H1C7T8
 UniRef90_R6C8N5 F T R
 UniRef90_U1FC78
 UniRef90_R5CHA7 F T R
 UniRef90_F2NVY1
 UniRef90_C0E8X3 F T R
 UniRef90_UPI0004135CA9
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G T I T V A P T A D A P E T D N P Y I S Y N A V R L T D R G A V I G N G G S H
U N I R E F 9 0 _ C 7 N V D 7
D R L T V V P T A D A A D E T D N P Y I S Y N C C V R P V T D R V V I G N G G S H
U N I R E F 9 0 _ M O M F 1 3
G T V T V E P T P D A P E T D N P Y I S Y N G V R V T E R G A V V I G N G G S H
U N I R E F 9 0 _ Q 5 U Z 6 5
D T L T V V P T D E A E P E T D N P Y I S Y N C C A R R A G D G V V V G N G G S H
U N I R E F 9 0 _ V 4 H B 7 6
N A L T V G P T P E A A P E T D N P Y I A Y N C C I R V A G D D A V V I G N G G A H
U N I R E F 9 0 _ U 3 A E E 2
D T L T V V P T S E A A Q T D N P Y I S Y N I R Q G G E V V V I G N G G S H
U N I R E F 9 0 _ U 1 N 1 C 1
D A D M I A I A P F D K N A E I D P T L I I Y Y P V K T N G R N L I V I T T N G G D Q Q
U N I R E F 9 0 _ X 8 I Q 8 6
N N L T V T P T P E A P P T D N P Y I S Y N C C L Q V N D S T A I I V I T T N G G S H
U N I R E F 9 0 _ U 1 Q 5 1 8
T D D G I R T E A H D P A K L E D P L I I Y H P V R K M G D A L V I T T N G G D Q Q
U N I R E F 9 0 _ R 5 B I B 3
D A E A L T V G P T E D A P P T D N P Y I S Y N C C L R V V G E T V A F G N G G S H
U N I R E F 9 0 _ D 3 S V C 2
D L L T V E P T P D A P E T D N P Y I S Y N C C L Q V V S G R W V V I G N G G S H
U N I R E F 9 0 _ U 1 Q B X 8
E G E L R I D P A C P E R L E S D P S L V L Y S P L R S V S G R L I V A N G G D Q Q
U N I R E F 9 0 _ U 2 T E W 7
N T I A I V P K D L J E E M F K N T Y I T Y N C C V K I V N D V I V A T N G G S Q
U N I R E F 9 0 _ D 7 D R R 2
G A V T V L P T A E A E P T D N P Y I S Y N C C V Q E V D T T A V I G N G G S H
U N I R E F 9 0 _ G 2 M H T 1
E N G I L R T E A A D L S I V E D P L I I Y N A M R D L D Y S L V V I G N G K H
U N I R E F 9 0 _ E 0 X U T 3
D S V L V S P V I D P L D L E K N P Y I A Y N C C I R T A G K A A V V A N G G T H
U N I R E F 9 0 _ G 7 W R A 6
G D V F I V N Q E E T D N P Y I S Y P V V K L L E G Y V V I G N G G L Q
U N I R E F 9 0 _ F 8 A I 8 5
N K V Y I L P K D P E E V L K E D P Y I S Y C C I R R V E D K T V V V A G N G S H
U N I R E F 9 0 _ D 5 V R Q 5
K S I T V M P L D P A D L A R N P Y I S Y N C C I R V A D D V A V V I T T N G G T H
U N I R E F 9 0 _ F 4 B T C 3
N G V Y I L N Q T E T E N P Y I S Y P V V R L M E D Y A V V I T T N G G L H
U N I R E F 9 0 _ Q 5 J D 2 9
G R L T V G P T P D A P E T D N P Y I S Y N C C A R A V R T P T V V I G N G G S H
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D E D T T L T V G P P D A P E T D N P Y I S Y N C C L R T V G E A A A I G N G G S H
U N I R E F 9 0 _ L 0 I G 6 0
G T L T V G P T P D A P P T D N P Y I S Y N C C V R P V E S P T V L G N G G S H
U N I R E F 9 0 _ V 4 X W S 9
D R V S I V P T A A A P N S D P Y I S Y H C I Q R T D S G V V I G N G G A H
U N I R E F 9 0 _ U 1 P 7 J 3
N S V R I V P R A G S S D A A S D S P Y I A Y E C C L V W N E R F A V V I G N G T H
U N I R E F 9 0 _ U P I 0 0 0 4 6 E 6 9 2 F
G S L T V V P T A A A D E T D N P Y I S Y N C C V R S T D R G A V L I G N G G S H
U N I R E F 9 0 _ M O N C 1 9
D E V Y I V N L T E T E N P Y I S Y P V V K I L P D Y A V V I G N G G S H
U N I R E F 9 0 _ H 3 Z M 8 4
D G E V I R T E A F D A Q K V V D P L I I Y P V Y G R H K D T H V L I T T N G G D Q Q
U N I R E F 9 0 _ K 9 E F K 0
E G E T R T K A L D E S K L V D P S L I I Y R A M D R Q G S A V V I G N G D Q Q
U N I R E F 9 0 _ F 0 R S S 1
E G E G I R T Q A F P S S K L E D P S L I I Y A P V R V L G N K T I V I T T N G G D Q Q
U N I R E F 9 0 _ K 1 U 3 V 0
G A F V V P E D P S Y I T E N P Y I T Y T C A R I V D E F L V L I T T N G G A Q Q
U N I R E F 9 0 _ Q 8 T Z 5 2
E G E K I H P V N A E K V T D P S L I I Y R P L V D L G N T V V I T T N G G D Q Q
U N I R E F 9 0 _ C 7 G Y U 1
S G N V L K T E P V D A S L V J A D P L I I Y E A M L E L P G I Y L V I T T N G G S Q
U N I R E F 9 0 _ D 6 T J W 6
E G F S I L R N K A F D P A L V E D P S L I I Y Y P I R H W D N V H I V S N G G D Q Q
U N I R E F 9 0 _ C 6 C Z Z 5
D G A T L S T E P F D P S K V E D P L I I Y E A M L E L P G Q F L V I T T N G G D Q Q
U N I R E F 9 0 _ B 5 J E U 5
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D E V A V L N L R E T T N P Y V S Y T A V K I F R D Y A V I S N G G S H
U N I R E F 9 0 _ W 0 1 5 G 5
N V A Y I I N Q G E S N P Y I S Y P A V R V P G E Y A V I V I T T N G G L H
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U N I R E F 9 0 _ W 4 L 4 Q 3
E G D N I K I S L L E P T T Q D T T L I L Y P P L V H V G D R Q I V S N G G S Q
U N I R E F 9 0 _ F 8 K R T 3
E G K N L Q I A F V D P Q S V A D P S L I I F Y P I R V Q Q N N H I I T T N G S Q
U N I R E F 9 0 _ E 7 A A Q 9
N A V Y I E N L T E T D N P Y I S Y P V V R L D E Y A V I V I T T N G L Q
U N I R E F 9 0 _ I 3 Z R C 2
E G D I L R T E P I D A S L V E D P L I I Y E A I M V L P R C H L I G N G D Q Q
U N I R E F 9 0 _ W 4 M 4 M 0
K D G G I I T E A A D P S K L E D P S L I I Y A P V R V L G K T T I V I T T N G D Q Q
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G R V A V P R Q T P T R R T T R T S P T T V W R C S A A G G S R V V A G N G S H
U N I R E F 9 0 _ V 4 Y 5 X 1
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U N I R E F 9 0 _ U P I 0 0 0 2 6 2 7 E C 5
D T A W V R P V D D E I L N K G N I D L L L Y P A L T S G G I A V I G N G K Q
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V S Y N C A R T V G D A V I G N G S H
U N I R E F 9 0 _ U 1 P S E 7
A G D S V Y A R S R S A G A H D P L R H Y R A V A V G S K W C V I G N G D Q Q
U N I R E F 9 0 _ F 5 X J 1 8
D A V W A T P T D E E T L K K G N T D L L V Y P A L L F S N G I A V I G N G K Q
U N I R E F 9 0 _ X 1 S 9 2 5
A A D G T L I V A P S E P G E H D H L R H Y V A A R R S G R W L V Y I G N G G Q Q
U N I R E F 9 0 _ U P I 0 0 0 3 8 0 0 D 6
E G E L I V A P T G E A E H D P L R H Y V A A R E R D G W L V F G N G E Q
U N I R E F 9 0 _ U P I 0 0 0 2 8 8 E 1 B 9

		90	100	110	120
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UniRef90_Q0W6S4	T D A I	W E K L T H C G G Y P	R D A L A L S L L L A M D Y E K	D S L D N T P R I	A A I
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UniRef90_F8AKH2	T D V I	A D K I K L L G L P	I R D A L A Y S L L I T M D Y E K	D D Y N T P R I	A V V
UniRef90_R6FKU5	T D T V	A R F M A E G K S S	R Q A L L E T M D Y E K	D A P N T P R I	S G V
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UniRef90_Q3ITS6	V D P I	A E K L S I L G Y P	P R D A L A E S L L L A L D Y E K	D D Y N T P R I	A G V
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UniRef90_E4NSU3	V D P I	A E K L H F G K P	A R D A L T Y V L L A V M D Y E K	D D Y N T P R I	A G V
UniRef90_C9RE12	T D F I	A E K L S L G Y P	A R D A L V A E S L L A L D F E E K	D D Y N T P R I	A G I
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UniRef90_U2TEW7	S D T I	H D F L E A G K S F	E E A L F T R S F E E K	D R P N T P R I	S G I
UniRef90_D7DRR2	T D I I	A D K I R L G L P	L R D A L S L T M I A M D Y E K	D D Y N T P R I	S V A
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UniRef90_E0XUT3	T D T I	A E K G L E D G S F	E A Y T A L H S E K H E E K	D A P N T P R I	S G L
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UniRef90_F0RSS1	S D T I	L E G L G R G L T	M Q A S L F A S R T F E E P	D E P N T P R I	S A L
UniRef90_K1U3V0	T D T I	Y E G M D K Q S L T	F E Q S L R T R E F E P	D G P N	
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UniRef90_C7GYU1	T D T I	V N C L N E G G D F	E T A L S T R E Y E P	D A P N T P R I	S G L
UniRef90_D6TJW6	T R T I	Y Q S L Q A G L S	F D A A L A T R E R E P	D A P H T P R I	S G M
UniRef90_C6CZZ5	T E T I	Y E G L K N Y R	S F Y E S L M L R E F E E P	D A P H T P R I	S G I
UniRef90_B5JEU5	T R T L	C D G L A A G K S M	R Q A L S L V R D R E P	D A P H T P R I	T G M
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UniRef90_UPI00029B4BC0	T D F I	F A Q A L E W E K P	R K A L V H V L D A M D Y E R D E	H G N T P R I	A G V
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UniRef90_F8KRT3	T G A I	V Q A L L Q E G G S	F E G A L R K E T F E E P	D A P H T P R I	S A L
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UniRef90_I3ZRC2	T D F I	A Q A L E W E S P	K K A L V H V L D A L D Y E R D D Y S T	P R I A G I	
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UniRef90_G9RTC6	T D T I	Y D H L A A G K S F	A K A L R T R T F E E P	D F P	
UniRef90_Q6SHX7	T D T I	C E G F I Q G E S F	Y D S L H K E K H E P	D D V P N T P R I	S G M
UniRef90_E0XUE7	T D T I	C K G I E R G K S F	E A Y T S L Q N E K H E P	D D V P N T P R I	S G I
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170 180 190 200

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T Q L S L E D D V R E I J A Q R A Y E L A Y E H P V C A A A V T R Q D D A G S
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D L I G E T P D E T A R R V L R L D Y E H P V C A G A V H R S Q E E F E
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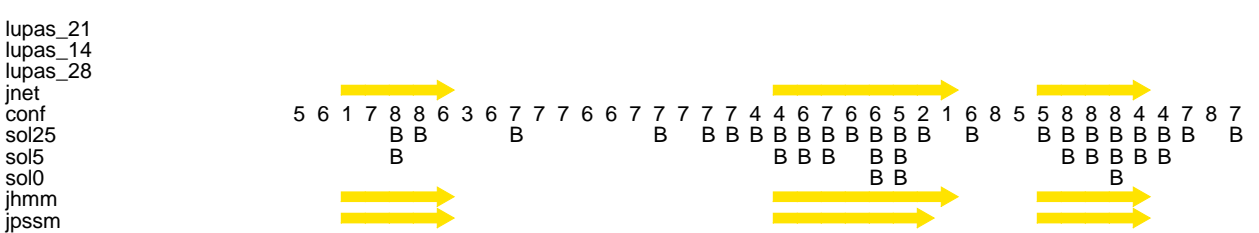
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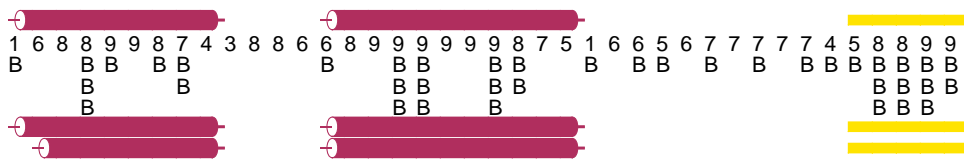
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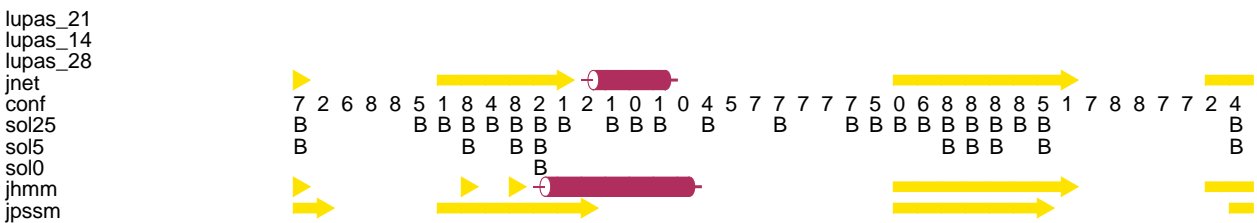


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