

QUERY	1	10	20	30	40																																									
UniRef90_B9S7H9	A	M	K	V	A	V	I	M	G	S	S	S	D	W	K	I	M	Q	E	S	C	N	M	L	D	Y	F	E	V	I	P	Y	E	K	Q	V	V	S	A	H	R	R				
UniRef90_E4RKL3	A	P	R	V	G	I	I	M	G	S	S	S	D	D	L	P	V	M	K	E	A	A	R	E	I	L	N	D	M	F	G	V	P	N	E	E	V	I	V	S	A	H	R	R		
UniRef90_L2F7H8		K	V	A	I	I	M	G	S	S	S	S	D	D	L	P	V	M	K	E	A	A	R	E	I	L	N	D	M	F	G	V	P	N	E	E	V	I	V	S	A	H	R	R		
UniRef90_F4Q311		P	K	V	G	I	I	M	G	S	S	S	D	W	D	V	M	K	L	A	S	N	T	L	T	Q	L	G	I	P	H	E	T	K	I	V	V	S	A	H	R	R				
UniRef90_F4HMJ9	A	G	R	V	G	I	I	M	G	S	S	S	D	D	L	P	V	M	K	D	A	A	K	I	L	T	E	E	S	F	G	V	P	E	Y	E	E	M	T	I	V	S	A	H	R	R
UniRef90_W1PRE9		S	V	G	I	I	M	G	S	S	S	D	D	L	P	V	M	K	D	A	A	K	I	L	T	E	E	S	F	G	V	P	E	Y	E	E	M	T	I	V	S	A	H	R	R	
UniRef90_R6PK13		Q	V	G	I	I	M	G	S	S	S	D	D	L	P	V	M	S	E	A	A	K	V	L	D	T	S	F	G	V	P	E	Y	E	E	L	T	I	V	S	A	H	R	R		
UniRef90_F0SG74		L	V	G	I	I	M	G	S	S	S	D	W	P	T	M	E	Q	A	S	L	M	L	N	T	E	L	G	V	P	H	E	E	C	R	I	V	V	S	A	H	R	R			
UniRef90_UPI0002C30551		L	V	G	I	I	M	G	S	S	S	D	W	P	T	M	E	K	A	V	E	M	L	N	T	E	L	G	V	P	H	E	E	V	A	H	E	V	K	V	V	S	A	H	R	R
UniRef90_Q31EL2		L	V	G	V	I	M	G	S	S	S	D	W	P	T	M	E	K	A	V	E	M	L	N	T	E	L	G	V	P	H	E	E	V	A	H	E	V	K	V	V	S	A	H	R	R
UniRef90_D3EF24		V	V	G	V	I	M	G	S	S	S	D	W	T	M	S	H	A	C	Q	V	L	D	E	T	L	G	V	P	Y	E	E	V	K	K	V	V	S	A	H	R	R				
UniRef90_E8PM97		L	V	G	V	I	M	G	S	S	S	D	W	T	M	S	H	A	C	Q	V	L	D	E	T	L	G	V	P	Y	E	E	V	K	K	V	V	S	A	H	R	R				
UniRef90_K6DDT5		L	V	G	V	I	M	G	S	S	S	D	W	P	T	M	E	H	A	C	V	I	L	D	E	C	Q	V	P	Y	E	E	K	K	V	V	S	A	H	R	R					
UniRef90_G7QG70		V	A	I	I	M	G	S	S	S	S	D	W	T	M	R	H	A	E	L	L	K	N	E	F	G	V	S	I	H	K	V	V	S	A	H	R	R								
UniRef90_UPI00046EB97F	A	K	V	A	I	I	M	G	S	S	S	D	W	T	M	R	H	A	E	L	L	K	N	E	F	G	V	S	I	H	K	V	V	S	A	H	R	R								
UniRef90_UPI00025592ED	S	K	V	A	I	V	M	G	S	S	S	D	W	P	T	M	E	E	A	A	G	L	L	D	T	L	G	V	P	E	Y	D	A	E	I	V	S	A	H	R	R					
UniRef90_O74197		L	V	G	V	I	M	G	S	S	S	D	W	P	T	M	S	A	A	C	K	M	L	K	E	Q	F	E	V	P	F	E	V	K	V	V	S	A	H	R	R					
UniRef90_W0DB68		L	V	G	V	I	M	G	S	S	S	D	W	E	T	M	K	Y	A	C	E	E	L	K	E	V	G	V	P	Y	E	E	K	K	V	V	S	A	H	R	R					
UniRef90_UPI0002F17AA9		Q	V	G	V	I	M	G	S	S	S	D	W	T	M	K	Y	A	C	E	E	L	K	E	V	G	V	P	Y	E	E	K	K	V	V	S	A	H	R	R						
UniRef90_UPI00037A9125	S	Q	V	A	V	I	M	G	S	S	S	D	W	T	M	K	H	A	C	E	L	L	K	S	R	F	G	V	A	V	K	K	V	V	S	A	H	R	R							
UniRef90_M3TUF6	S	L	V	S	I	V	M	G	S	S	S	D	W	P	T	M	K	H	A	A	N	L	L	K	S	L	K	V	P	C	E	V	K	V	V	S	A	H	R	R						
UniRef90_UPI0004719D33		K	V	A	I	I	M	G	S	S	S	D	W	P	V	M	R	L	A	A	Q	M	L	A	D	F	G	L	K	E	Y	E	A	R	V	V	S	A	H	R	R					
UniRef90_W0TNF0		L	V	G	V	I	M	G	S	S	S	D	W	T	M	R	H	A	T	E	T	L	D	E	E	L	G	V	P	Y	E	E	K	V	V	S	A	H	R	R						
UniRef90_F5L5B5		L	V	G	V	I	M	G	S	S	S	D	W	E	T	M	R	E	A	C	V	I	L	D	E	E	L	G	V	P	Y	E	E	K	V	V	S	A	H	R	R					
UniRef90_W4QZV8		E	I	G	V	I	M	G	S	S	S	D	W	E	T	M	K	A	A	C	D	V	L	D	E	L	E	I	S	Y	E	K	K	V	V	S	A	H	R	R						
UniRef90_D8SNZ6		L	V	G	V	I	M	G	S	S	S	D	L	R	V	M	K	D	A	A	D	V	L	D	D	S	F	G	V	A	Y	E	E	M	T	I	V	S	A	H	R	R				
UniRef90_Q5FNC2		V	V	G	V	I	M	G	S	S	S	D	W	R	T	M	R	H	A	C	E	I	L	D	D	D	L	G	V	A	H	E	K	R	I	V	S	A	H	R	R					
UniRef90_G2E1D4		K	V	G	I	I	M	G	S	S	S	D	L	P	V	M	Q	E	A	A	I	L	L	K	E	E	F	G	V	P	Y	E	E	M	T	I	V	S	A	H	R	R				
UniRef90_U1LLX7		L	V	S	I	I	M	G	S	S	S	D	W	E	T	M	R	H	A	C	D	I	L	L	K	E	E	L	S	I	P	Y	E	E	K	T	I	V	S	A	H	R	R			
UniRef90_A8MLI5	S	V	V	G	I	I	M	G	S	S	S	D	L	P	V	M	K	E	A	A	K	L	L	L	E	E	D	F	G	V	D	Y	E	I	T	I	V	S	A	H	R	R				
UniRef90_Q5JDF5		K	V	G	I	I	M	G	S	S	S	D	L	P	V	M	K	A	A	A	E	V	L	L	E	E	F	G	V	D	Y	E	I	T	I	V	S	A	H	R	R					
UniRef90_R7BEP3		V	L	V	G	V	I	M	G	S	S	S	D	L	P	V	M	S	K	A	A	E	M	L	L	K	E	F	G	V	D	Y	E	I	T	I	V	S	A	H	R	R				
UniRef90_P55195		L	V	G	F	I	M	G	S	S	S	D	L	P	V	M	S	A	A	E	M	M	L	L	K	E	F	G	V	P	H	E	V	A	I	V	S	A	H	R	R					
UniRef90_K9FMU5	S	L	V	G	T	I	M	G	S	S	S	D	L	P	T	M	E	A	A	I	T	V	C	E	D	F	G	V	P	H	E	V	A	I	V	S	A	H	R	R						
UniRef90_Q1NMA2		L	V	V	G	V	I	M	G	S	S	S	D	W	E	T	M	E	A	A	V	K	L	L	E	E	E	F	A	I	A	H	E	V	R	V	V	S	A	H	R	R				
UniRef90_UPI00037FAEB4		V	V	G	V	I	M	G	S	S	S	D	W	E	T	M	Q	H	T	C	E	A	L	L	K	E	F	N	V	P	F	E	T	K	V	V	S	A	H	R	R					
UniRef90_UPI000404FDE5		L	V	G	V	I	M	G	S	S	S	D	W	E	T	M	S	D	A	V	K	L	L	K	E	F	G	V	P	H	E	V	D	I	V	S	A	H	R	R						
UniRef90_K0RBF6		L	V	G	V	I	M	G	S	S	S	D	L	P	V	M	S	G	A	V	K	L	L	K	E	F	G	V	P	H	E	V	D	I	V	S	A	H	R	R						
UniRef90_I2EPM9		V	V	G	I	V	M	G	S	S	S	D	M	P	I	M	A	K	A	A	D	I	L	D	D	Q	L	G	V	S	Y	E	M	R	I	V	S	A	H	R	R					
UniRef90_C4GBU6		A	I	I	M	G	S	S	S	S	S	D	L	P	L	M	S	G	A	A	K	V	L	D	D	D	F	K	V	P	Y	E	L	T	I	V	S	A	H	R	R					
UniRef90_K2BA52		A	I	I	M	G	S	S	S	S	S	D	W	P	T	M	K	H	A	A	D	A	L	D	D	R	L	G	V	A	H	D	D	R	V	V	S	A	H	R	R					
UniRef90_D9QFS9		T	V	G	V	I	M	G	S	S	S	D	W	P	V	M	Q	H	A	A	D	L	L	D	E	L	G	V	P	Y	E	E	K	K	V	V	S	A	H	R	R					
UniRef90_UPI0003701A85		T	V	G	V	I	M	G	S	S	S	D	W	P	V	M	Q	H	A	A	D	L	L	D	E	L	G	V	P	Y	E	E	K	K	V	V	S	A	H	R	R					
UniRef90_UPI00037F3D9D		K	V	G	I	I	M	G	S	S	S	D	L	P	V	M	Q	D	A	A	D	L	L	L	L	L	G	V	P	F	E	F	E	I	T	V	V	S	A	H	R	R				
UniRef90_R9H3T3																																														

QUERY	T	P	K	M	M	V	Q	F	A	S	S	E	A	R	E	R	G	N	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	L	T	T	L		
UniRef90_B9S7H9	T	P	E	M	M	F	S	Y	A	S	S	E	A	R	E	R	G	N	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	L	T	T	L		
UniRef90_E4RKL3	T	P	E	R	R	L	F	Y	E	N	S	A	K	A	K	R	N	F	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	S	L	T	D	L		
UniRef90_L2F7H8	T	P	D	R	L	F	Y	E	A	K	S	A	K	A	K	R	N	F	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	S	L	T	D	L		
UniRef90_F4Q311	T	P	D	R	M	F	E	Y	A	K	S	A	K	A	K	R	N	F	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	L	T	S	L		
UniRef90_F4HMJ9	T	P	E	R	R	L	H	E	Y	V	K	S	A	K	R	D	K	G	L	I	I	A	G	A	G	G	A	A	H	L	P	G	V	I	A	S	L	T	S			
UniRef90_W1PRE9	T	P	E	R	M	V	S	Y	A	S	H	A	H	K	E	R	G	V	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	L	T	P	L		
UniRef90_R6PK13	T	P	D	K	M	Y	E	Y	A	S	T	A	A	Q	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	S	L	T	T	L	
UniRef90_F0SG74	T	P	D	E	M	F	R	Y	T	K	E	A	A	D	R	K	L	I	E	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	Q	S	T	L	
UniRef90_UPI0002C30551	T	P	D	W	M	H	S	Y	A	L	S	A	H	K	R	G	L	I	E	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	Q	S	T	P	L
UniRef90_Q31EL2	T	P	D	L	M	F	E	Y	A	E	A	E	A	E	A	R	G	L	Q	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	V	
UniRef90_D3EF24	T	P	D	L	M	F	R	Y	A	E	E	A	E	A	E	G	R	G	L	R	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	V
UniRef90_E8PM97	T	P	D	L	M	A	D	Y	A	K	E	A	K	E	R	G	L	M	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	A	H	T	P	L		
UniRef90_K6DDT5	T	P	D	L	M	F	E	Y	A	E	T	A	K	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T	L	
UniRef90_G7QG70	S	P	E	L	M	L	E	F	S	R	T	A	K	E	K	G	Y	S	L	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	W	T	T		
UniRef90_UPI00046EB97F	T	P	D	R	L	A	D	Y	A	R	K	T	A	A	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	C	A	A	S	M	T	R	
UniRef90_UPI00025592ED	T	P	D	K	M	F	R	F	A	E	Q	A	A	E	N	G	Y	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	A	K	T	L	V		
UniRef90_O74197	T	P	Y	R	M	N	K	Y	A	S	E	T	A	R	S	R	G	I	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	M	T	P	V
UniRef90_W0DB68	T	P	E	L	M	F	E	Y	A	K	T	A	R	E	R	G	I	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	S	A	M	T	T		
UniRef90_UPI0002F17AA9	T	P	D	L	M	F	E	Y	A	E	S	A	R	E	R	G	I	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T		
UniRef90_UPI00037A9125	T	P	E	L	M	A	E	F	A	T	T	A	R	D	K	N	I	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	A	S	Q	T	T		
UniRef90_M3TUF6	T	P	K	R	M	F	E	Y	A	V	N	A	K	K	N	N	I	G	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	S	L	T	E	V		
UniRef90_UPI0004719D33	T	P	D	L	M	F	E	F	A	E	T	A	A	D	R	G	I	Q	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T		
UniRef90_W0TNF0	T	P	D	K	L	F	S	Y	A	E	Q	A	A	E	R	G	L	E	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T		
UniRef90_F5L5B5	T	P	D	E	M	F	R	Y	A	E	Q	A	R	E	R	G	L	E	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	I	A	S	K	T	E			
UniRef90_W4Q2V8	T	P	D	L	M	F	D	Y	A	E	Q	A	R	S	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T		
UniRef90_D8SNZ6	T	T	E	R	M	N	A	F	S	R	T	A	H	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T		
UniRef90_Q5FNC2	T	P	D	R	L	V	E	Y	A	K	T	A	R	Q	R	G	L	H	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	C	S	A	S	A	T			
UniRef90_G2E1D4	T	P	K	R	L	Y	D	Y	A	E	T	A	V	A	R	G	L	Q	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	A	A	A	I	T	T			
UniRef90_U1LLX7	T	P	D	L	M	F	E	Y	A	E	N	A	A	R	G	I	Q	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	K	T	T			
UniRef90_A8MLI5	T	P	E	R	L	F	E	F	A	K	E	N	A	R	A	R	G	I	Q	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	I	T		
UniRef90_Q5JDF5	T	P	E	R	M	F	E	Y	A	K	T	A	E	E	R	G	L	E	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	T	A	S	I	T	T			
UniRef90_R7BEP3	M	P	D	V	F	F	D	Y	A	S	K	A	E	E	K	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	C	A	A	I	F	P			
UniRef90_P55195	T	P	E	L	M	F	C	Y	A	S	S	A	H	E	R	G	Y	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	I	T			
UniRef90_K9FMU5	T	P	K	R	M	V	S	Y	A	Q	T	A	V	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	L	T	P			
UniRef90_Q1NMA2	T	P	E	L	L	F	D	Y	A	G	S	A	R	R	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	K	R				
UniRef90_UPI00037FAEB4	T	P	E	D	M	F	E	Y	A	E	T	A	R	D	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	K	R				
UniRef90_UPI000404FDE5	T	P	D	L	L	F	R	Y	A	E	T	A	A	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	M	A	A	K	T				
UniRef90_K0RBF6	T	P	E	K	L	M	T	Y	S	R	S	A	A	G	R	G	L	Q	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	A	M				
UniRef90_I2EPM9	T	P	Q	K	M	L	D	Y	A	H	S	A	R	R	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	S	S	S	T	T			
UniRef90_C4GBU6	E	P	D	V	F	F	D	Y	A	K	S	A	E	E	R	G	L	K	V	I	I	A	G	A	G	K	A	A	H	L	P	G	M	C	A	A	L	F				
UniRef90_K2BA52	T	P	K	R	M	Y	D	Y	A	K	K	A	H	E	R	G	L	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	L	T				
UniRef90_D9QFS9	T	P	A	R	L	F	D	F	A	T	T	A	R	A	T	G	Y	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	A	S	M	T	P				
UniRef90_UPI0003701A85	T	P	D	R	L	V	D	F	A	K	S	A	R	D	Q	G	F	K	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	C	A	A	M	T				
UniRef90_UPI00037F3D9D	T	P	E	M	M	M	N	Y	A	K	H	A	K	S	E	R	D	G	L	D	V	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	M				
UniRef90_R9H3T3	T	P	E	R	M	F	Q	Y	A	K	T	A	S	S	E	R	G	I	G	V	I	V	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	I				
UniRef90_C1EH10	T	P	E	R	M	F	E	Y	A	R	S	A	S	R	G	L	R	C	V	I	I	A	G	A	G	G	A	A	H	L	P	G	M	V	A	S	M	T				
UniRef90_H2C7K8																																										

QUERY	90	100	110	120
UniRef90_B9S7H9	P	V	V	G
UniRef90_E4RKL3	P	V	V	G
UniRef90_L2F7H8	P	V	V	G
UniRef90_F4Q311	P	V	V	G
UniRef90_F4HMJ9	P	V	V	G
UniRef90_W1PRE9	P	V	V	G
UniRef90_R6PK13	P	V	V	G
UniRef90_F0SG74	P	V	V	G
UniRef90_UPI0002C30551	T	V	V	G
UniRef90_Q31EL2	P	V	V	G
UniRef90_D3EF24	P	V	V	G
UniRef90_E8PM97	P	V	V	G
UniRef90_K6DDT5	P	V	V	G
UniRef90_G7QG70	P	V	V	G
UniRef90_UPI00046EB97F	P	V	V	G
UniRef90_UPI00025592ED	P	V	V	G
UniRef90_O74197	P	V	V	G
UniRef90_W0DB68	P	V	V	G
UniRef90_UPI0002F17AA9	P	V	V	G
UniRef90_UPI00037A9125	P	V	V	G
UniRef90_M3TUF6	P	V	V	G
UniRef90_UPI0004719D33	P	V	V	G
UniRef90_W0TNF0	P	V	V	G
UniRef90_F5L5B5	P	V	V	G
UniRef90_W4Q2V8	P	V	V	G
UniRef90_D8SNZ6	P	V	V	G
UniRef90_Q5FNC2	P	V	V	G
UniRef90_G2E1D4	P	V	V	G
UniRef90_U1LLX7	P	V	V	G
UniRef90_A8MLI5	P	V	V	G
UniRef90_Q5JDF5	P	V	V	G
UniRef90_R7BEP3	P	V	V	G
UniRef90_P55195	P	V	V	G
UniRef90_K9FMU5	P	V	V	G
UniRef90_Q1NMA2	P	V	V	G
UniRef90_UPI00037FAEB4	P	V	V	G
UniRef90_UPI000404FDE5	P	V	V	G
UniRef90_K0RBF6	P	V	V	G
UniRef90_I2EPM9	P	V	V	G
UniRef90_C4GBU6	P	V	V	G
UniRef90_K2BA52	P	V	V	G
UniRef90_D9QFS9	P	V	V	G
UniRef90_UPI0003701A85	P	V	V	G
UniRef90_UPI00037F3D9D	P	V	V	G
UniRef90_R9H3T3	P	V	V	G
UniRef90_C1EH10	P	V	V	G
UniRef90_H2C7K8	P	V	V	G
UniRef90_S0L2M4	P	V	V	G
UniRef90_E2MY24	P	V	V	G
UniRef90_D5SV87	P	V	V	G
UniRef90_UPI000476C56C	P	V	V	G
UniRef90_UPI000412E9B8	P	V	V	G
UniRef90_K0J688	P	V	V	G
UniRef90_R5QPJ2	P	V	V	G
UniRef90_M7NFP2	P	V	V	G
UniRef90_Q0G4H8	P	V	V	G
UniRef90_S0KVX7	P	V	V	G
UniRef90_U5L495	P	V	V	G
UniRef90_Q04ET8	P	V	V	G
UniRef90_G4TPA6	P	V	V	G
UniRef90_A5WB52	P	V	V	G
UniRef90_V5V8C7	P	V	V	G
UniRef90_F9DT57	P	V	V	G
UniRef90_UPI00031BDFAF	P	V	V	G
UniRef90_A4BD69	P	V	V	G
UniRef90_I7JW60	P	V	V	G
UniRef90_UPI0003B42718	P	V	V	G
UniRef90_D3PR16	P	V	V	G
UniRef90_UPI000370E3C8	P	V	V	G
UniRef90_L8MXN9	P	V	V	G
UniRef90_UPI000225E29B	P	V	V	G
UniRef90_A0A023D217	P	V	V	G
UniRef90_UPI00047A5B87	P	V	V	G
UniRef90_UPI000381812E	P	V	V	G
UniRef90_D4W6F6	P	V	V	G
UniRef90_F0WDU1	P	V	V	G
UniRef90_UPI00047E1784	P	V	V	G
UniRef90_E6LFM8	P	V	V	G
UniRef90_W8L8N8	P	V	V	G
UniRef90_UPI000373EFA5	P	V	V	G
UniRef90_UPI00030F28A9	P	V	V	G
UniRef90_B4WJ07	P	V	V	G
UniRef90_Q44679	P	V	V	G
UniRef90_I3Z2S7	P	V	V	G
UniRef90_H1X6W8	P	V	V	G
UniRef90_A4XJY5	P	V	V	G
UniRef90_M5S486	P	V	V	G
UniRef90_X0SXL5	P	V	V	G
UniRef90_T0BM48	P	V	V	G
UniRef90_M7P3W7	P	V	V	G
UniRef90_UPI000375F8FA	P	V	V	G

QUERY UniRef90_B9S7H9 UniRef90_E4RKL3 UniRef90_L2F7H8 UniRef90_F4Q311 UniRef90_F4HMJ9 UniRef90_W1PRE9 UniRef90_R6PK13 UniRef90_F0SG74 UniRef90_UPI0002C30551 UniRef90_Q31EL2 UniRef90_D3EF24 UniRef90_E8PM97 UniRef90_K6DDT5 UniRef90_G7QG70 UniRef90_UPI00046EB97F UniRef90_UPI00025592ED UniRef90_O74197 UniRef90_W0DB68 UniRef90_UPI0002F17AA9 UniRef90_UPI00037A9125 UniRef90_M3TUF6 UniRef90_UPI0004719D33 UniRef90_W0TNF0 UniRef90_F5L5B5 UniRef90_W4Q2V8 UniRef90_D8SNZ6 UniRef90_Q5FNC2 UniRef90_G2E1D4 UniRef90_U1LLX7 UniRef90_A8MLI5 UniRef90_Q5JDF5 UniRef90_R7BEP3 UniRef90_P55195 UniRef90_K9FMU5 UniRef90_Q1NMA2 UniRef90_UPI00037FAEB4 UniRef90_UPI000404FDE5 UniRef90_K0RBF6 UniRef90_I2EPM9 UniRef90_C4GBU6 UniRef90_K2BA52 UniRef90_D9QFS9 UniRef90_UPI0003701A85 UniRef90_UPI00037F3D9D UniRef90_R9H3T3 UniRef90_C1EH10 UniRef90_H2C7K8 UniRef90_S0L2M4 UniRef90_E2MY24 UniRef90_D5SV87 UniRef90_UPI000476C56C UniRef90_UPI000412E9B8 UniRef90_K0J688 UniRef90_R5QP02 UniRef90_M7NFP2 UniRef90_Q0G4H8 UniRef90_S0KVX7 UniRef90_U5L495 UniRef90_Q04ET8 UniRef90_G4TPA6 UniRef90_A5WB52 UniRef90_V5V8C7 UniRef90_F9DT57 UniRef90_UPI00031BDFAF UniRef90_A4BD69 UniRef90_I7JW60 UniRef90_UPI0003B42718 UniRef90_D3PR16 UniRef90_UPI000370E3C8 UniRef90_L8MXN9 UniRef90_UPI000225E29B UniRef90_A0A023D217 UniRef90_UPI00047A5B87 UniRef90_UPI000381812E UniRef90_D4W6F6 UniRef90_F0WDU1 UniRef90_UPI00047E1784 UniRef90_E6LFM8 UniRef90_W8L8N8 UniRef90_UPI000373EFA5 UniRef90_UPI00030F28A9 UniRef90_B4WJ07 UniRef90_Q44679 UniRef90_I3Z2S7 UniRef90_H1X6W8 UniRef90_A4XJY5 UniRef90_M5S486 UniRef90_X0SXL5 UniRef90_T0BM48 UniRef90_UPI00047M7P3W7 UniRef90_UPI000375F8FA

130 140 150 160

K N A G L L A A R M L S I Q N P S L V E K L N Q Y E S S L Q K V E D M Q N E R L
T N A G L L A A V R M L S I Q N P S L V E K L N Q Y E S S L Q K V E D M Q N E R L
K N A G L L A A V Q M L A R K G D D D P P E L W A E R K M T Q Y K E S D T R D K E V L K K A S
Y N A G L L A A V Q Q M L A R K Y D D D R E K K Q N Q Y R R T K K Q K N Q A V L K A N T A S S
T N A A L L A A S V L S P F Y P P E A I E S S S L E T F R K N Q T Q D A V V A D S K P S D
K N A A L L A A T A I L G I T K Y P P E I A K Q R R M I Q Y R K E D M K K D T V E E T K A E K L
U N I R E F 9 0 _ W 1 P R E 9 T N A G L L A A V R I L A T A F D P P E Q L Q E K V K T Y K R Q D L K N S V V E E K A E K L
U N I R E F 9 0 _ R 6 P K 1 3 K N A G L L L T V Q M L A T A F D P P E Q L Q E K V K T Y K R Q D L K N S V V E E K A E K L
U N I R E F 9 0 _ F 0 S G 7 4 K N A A L L A A C V R I L A T A H S R D P P E L R A R A R I I Q Y Q Q E D I K N E V V L A K A E K L
U N I R E F 9 0 _ U P I 0 0 0 2 C 3 0 5 5 1 T N A G L L L A A V R I L A T A H S R D P P E L R A R A R I I Q Y Q Q E D I K N E V V L A K A E K L
U N I R E F 9 0 _ Q 3 1 E L 2 K N A G I M A A Q I V L G N Q N D A T V R E R K V R A F R E A Q T Q F V L L E N S P D D
U N I R E F 9 0 _ D 3 E F 2 4 T N A G L L L A A S I V L G T S D A G I V M E R R L V L E A Y R R K A Q T R E D E V L L A S S D D N L
U N I R E F 9 0 _ E 8 P M 9 7 V N A A L L L A A S I V L G L S H P E I L S E K R L E A Y R R K A Q T R E D E V L L A S S D D Q L
U N I R E F 9 0 _ K 6 D D T 5 M N A G L L L A A Q I L G T Q F P P E I L S E K R L E A Y R R K A Q T R E D E V L L A S S D D Q L
U N I R E F 9 0 _ G 7 Q G 7 0 K N A A G L L L A A V R I L A L L Q N P P E L L S E A R L E A Y R R K A Q T R E D E V L L A S S D D Q L
U N I R E F 9 0 _ U P I 0 0 0 4 6 E B 9 7 F K N A A L L L A T S I L M A L Q N S P P E L L S E A R L E A Y R R K A Q T R E D E V L L A S S D D Q L
U N I R E F 9 0 _ U P I 0 0 0 2 5 5 9 2 E D F N A G L L L A A Q M L A T E D S E L L A Q R L S E D W R Q A Q T Q T V L D N K P D
U N I R E F 9 0 _ O 7 4 1 9 7 T N A G L L L A A V R M L G I H N Y P P E Y V E K K M E Q E F L N K K Q E E V L L Q M K A E K L
U N I R E F 9 0 _ W 0 D B 6 8 T N A G L L L A A E I I L S T F F E Q E V L E A E K L E Q M R K E T R E K V L E S S N E Q L
U N I R E F 9 0 _ U P I 0 0 0 2 F 1 7 A A 9 T N A G L L L A A V S I L G L S S D P E L L A E V L D Q N Y R N E L Q T K M V V E E S N A K L
U N I R E F 9 0 _ U P I 0 0 0 3 7 A 9 1 2 5 T N A G L L L A A V S I L G L S S D P E L L A E V L D Q N Y R N E L Q T K M V V E E S N A K L
U N I R E F 9 0 _ M 3 T U F 6 I N A A L L L A T S I L G L S S N S P P E L L A Q K L L A D F R A A Q T G R V L L E M S P
U N I R E F 9 0 _ U P I 0 0 0 4 7 1 9 D 3 3 A N A G L L F A A I L A T T E P A L L A Q K L L A D F R A A Q T G R V L L E M S P
U N I R E F 9 0 _ W 0 T N F 0 V N A A L L F A A S I L G N K Y D D D L R L A L D E R R A R A R Q Q R V L L D E A D P D
U N I R E F 9 0 _ F 5 L 5 B 5 R N S A L L L A A E I L G L K Y P P S I L Q A K L K E R R E A L Q R Q V L L A D P D
U N I R E F 9 0 _ W 4 Q 2 V 8 T N A G L L L A A Q I L L G A T S S D I L A E R L E N R R E K T R L A V I L E S S D T L
U N I R E F 9 0 _ D 8 S N Z 6 T N G G L L L A A V R M L A L T N D K Q V L L Q R M I D T Y Q Q T E M E A A V L E K A
U N I R E F 9 0 _ Q 5 F N C 2 I N A G L L L A A S I L S V N D K Q V M A R D A W R A Q T A A V L A D
U N I R E F 9 0 _ G 2 E 1 D 4 K N A G I L L A A Q I I L G A S D P A M C E R V D A N Y K R Q D L E A M V M E K V A R L
U N I R E F 9 0 _ U 1 L L X 7 T N A A L L L A A V Q I I L S L Q F P A L V E R L D T Y R Q A K R D M A V L Q A T E E R L
U N I R E F 9 0 _ A 8 M L I 5 G N A G L L L A A Q I I L S L L Q F P E E V L V G K L I D Y K E H L N R T V I E K A K E R L
U N I R E F 9 0 _ Q 5 J D F 5 K N A A L L L A A L S I L G V K Y P E I R E K L K E Y R R R M R E E V E E K A E R L
U N I R E F 9 0 _ R 7 B E P 3 A N A G L L L A A V R I L A T S D A E N L L D K K A Y K D D K A G V M A K E K L
U N I R E F 9 0 _ P 5 5 1 9 5 T N A G L L L A A V R M L G V A N D N L L S R M S Q Y K E D D Q K A V L R E K G D K L
U N I R E F 9 0 _ K 9 F M U 5 K N A G L L L A A V Q I T L A T C D L K L L E R T Q V Y R K S L E D S V L E K Q T R L
U N I R E F 9 0 _ Q 1 N M A 2 K N A A L L L A A V S I L A G D D P A L A T A L D E H H R R R Q T E S V L A D P D
U N I R E F 9 0 _ U P I 0 0 0 3 7 F A E B 4 K N A G I L L A A Q I I L G T T D Q E T A A R L V D H Q N Q L K D K V A E M R
U N I R E F 9 0 _ U P I 0 0 0 4 0 4 F D E 5 V N A G L L F A V A L L L A V H D A D L A V Q L Q A Y R L R Q T E T V L A
U N I R E F 9 0 _ K 0 R B F 6 T N A G L L L A A V R S L C A S R D E G L R A K M E A Y S L E K M K E A V D A N S S T E L
U N I R E F 9 0 _ I 2 E P M 9 K N A G I L L L A A Q I I L G A S D D E E I A K K L R E A Y S L E K M K E A V D A N S S T E L
U N I R E F 9 0 _ C 4 G B U 6 A N A G I L L L A A K I L A T S D P Q L L S R L K K Y A E D L K N Q V V E E K D R R R L
U N I R E F 9 0 _ K 2 B A 5 2 K N A G I L L A A S I V L G S N H K K G L L N K Q R Y K N K L K K E A V T Q T K A K T
U N I R E F 9 0 _ D 9 Q F S 9 K N A G I L L L A A Q I I L A L S N D P E L L A G R L D A W R A A Q T E A R V A E S P S D
U N I R E F 9 0 _ U P I 0 0 0 3 7 0 1 A 8 5 I N A A L L L A A V S I L A L S N D P E L L A G R L D A W R A A Q T E A R V A E S P S D
U N I R E F 9 0 _ U P I 0 0 0 3 7 F 3 D 9 D K N A G I L L A A A R I L E A V G S A P E I Y E R L N A Y Q K S E L E E K V E E S M S A R E H D L
U N I R E F 9 0 _ R 9 H 3 T 3 K N A G I L L L A A Q I I L A L S N S E I L T K R L K S F K E L K L K V E E S M S A R E H D L
U N I R E F 9 0 _ C 1 E H 1 0 T N A G L L L A A A R I V L G A Y Q P E V L V I Q M E E Y Q A D M K T V V T D K A E K M
U N I R E F 9 0 _ H 2 C 7 K 8 K N A A L L A L R I F S L K H P L R E K L R T S Y M E E L V R S E V L E S S T E L R Q L
U N I R E F 9 0 _ S 0 L 2 M 4 I N A G L L L A A V Q I F S L I Q D R T I A E K L T S Y R N E L M Q I V E E S S D D Q L
U N I R E F 9 0 _ E 2 M Y 2 4 K N A G L L L A A V R I L S A G Y P E L I V A M E N Y Q A N M R D E V L V K D E R L
U N I R E F 9 0 _ D 5 S V 8 7 R N A A L L L A A I R I L A I Y D S S L A E R L H Q F H H E Q R T K V L
U N I R E F 9 0 _ U P I 0 0 0 4 7 6 C 5 6 C A N A G L L F A V A I L A N H D A V L A E K L K V F R E T Q R Q A A L N M
U N I R E F 9 0 _ U P I 0 0 0 4 1 2 E 9 B 8 K N A G L L F A A Q I L A L S N E T L Y E K L K T F R K C Q T E N V L A D S
U N I R E F 9 0 _ K 0 J 6 8 8 T N A G I L L A A Q I L A T N D Q V I L A E K L T K Y E Q S L K G K V A E M R D Q H L
U N I R E F 9 0 _ R 5 Q P 0 2 T N A G L L L A A K I L A T S D A A L L D R L K A Y S Q S L K E S V Q K K D A H L
U N I R E F 9 0 _ M 7 N F P 2 K N A G I L L A A Q I L G S T D K A V A K K L D A Y K D E L R Q K V E E M V E K V
U N I R E F 9 0 _ Q 0 G 4 H 8 V N A A L L M A A S V L A L S D D K G I A E K L D A Y R M A Q S E G V A E
U N I R E F 9 0 _ S 0 K V X 7 V N A A L L L A A V E M L S M Y D L K V A E K L L E K R Q L T E K I V I E S S D Q L
U N I R E F 9 0 _ U 5 L 4 9 5 V N A A L L L A A Q M L G A F D Q N I A G R I E D L R L H T K Q E V M E S S D E L
U N I R E F 9 0 _ Q 0 4 E T 8 K N A A Y L L A L S I V L S R Q D Q E I E N K L I M F R R E Q T K K S V D A Q R L
U N I R E F 9 0 _ G 4 T P A 6 T N A G L L L A A R I V A T A Q V L P S L A T Y S A R L E T E V M G K V D R L
U N I R E F 9 0 _ A 5 W B 5 2 V N A A L L L S A S I L G A K Y P Q Y H A A L K Q F R T E Q T D T V L D N P D P R
U N I R E F 9 0 _ V 5 V 8 C 7 Q N A G L L L A A V Q L L A S H D P T L R E Q V L A Y R Q E L A A T V S A K N E K L
U N I R E F 9 0 _ F 9 D T 5 7 T N A G L L L A A Q M L S V Q D A E L L E K K L Q Q R R D E M R Q V S L E S S G E L
U N I R E F 9 0 _ U P I 0 0 0 3 1 B D F A F T N A A L L L A A R F L S A F D V S I A D K L N D Y R D S L V K K V K D S D
U N I R E F 9 0 _ A 4 B D 6 9 V N A A L L M A A S I L S L Q D D D G V K E R L M E N Y Q A T Q T D Q S V L A R P
U N I R E F 9 0 _ I 7 J W 6 0 K N A G L L L A A V R I L A A G D E E L L A E R M E N Y Q A E M A R S V E E K D E R L
U N I R E F 9 0 _ U P I 0 0 0 3 B 4 2 7 1 8 R N A G L L F A V Q I L A L Q F P E L E E K L L A Y K T K L S D G V A E K A A R L
U N I R E F 9 0 _ D 3 P R 1 6 I N A A L L L S A S I L A N K Y P R C Y R A A L E R F R K T Q M E A V L A E P D
U N I R E F 9 0 _ U P I 0 0 0 3 7 0 E 3 C 8 I N A A L L L S A S I L G N K H S E Y R A A L Q D Y R Q K Q T D S V L D H P D
U N I R E F 9 0 _ L 8 M X N 9 D N A G L L L A A V Q M L A S H N T E L L E R V I T Y R Q S L A D M V M E K Q S K L
U N I R E F 9 0 _ U P I 0 0 0 2 2 5 E 2 9 B T N A A L L L A A S I L G A H D S R I S M Q G L V A W R T R R S E A V A E K P S E
U N I R E F 9 0 _ A 0 A 0 2 3 D 2 1 7 I N A G I L L A A S I L S L S D P S A R L E T W R A M Q T A A V A D T P E
U N I R E F 9 0 _ U P I 0 0 0 4 7 A 5 B 8 7 K N A G I L L A A E I L A L S D L N V R E K L K A Y K Q K Q T V L D D A Q
U N I R E F 9 0 _ U P I 0 0 0 3 8 1 8 1 2 E K N A G L L L A A Q I L A L S D P Q V I A V H L E N Y R K E M T D S V L
U N I R E F 9 0 _ D 4 W 6 F 6 K N A G L L A A S M L S T S Y Q E I A V H L E N Y R K E M T D S V L
U N I R E F 9 0 _ F 0 W D U 1 T N A A M L A A V R I L G H C E K T R N F M E N Q R V S V L E K A E A L
U N I R E F 9 0 _ U P I 0 0 0 4 7 E 1 7 8 4 R N A G L L L A A V R I L A A S D E A G I R E E R M S N Y Q V D L E R M V S E K D A N L
U N I R E F 9 0 _ E 6 L F M 8 I N A A L L L A T Q I L S I L Q D D D G V K E R L M E N Y Q A T Q T D Q S V L A R P
U N I R E F 9 0 _ W 8 L 8 N 8 A N A G L L F A V S M L A S D H P G L A E E Q L A R F R A E Q R D T V L A M Q
U N I R E F 9 0 _ U P I 0 0 0 3 7 3 E F A 5 R N A A L L L A A V S I L A L E N P E L A E L L R Q F R S A Q T Q R V L D
U N I R E F 9 0 _ U P I 0 0 0 3 0 F 2 8 A 9 F N A G L L L A A Q M L A T H N S E L L O S K V K A W R K E Q T A S I
U N I R E F 9 0 _ B 4 W J 0 7 K N A G L L L A A V Q M L A A H D Q T L Q A K I L D Y R Q Q L A L M V N D K Q N H L
U N I R E F 9 0 _ Q 4 4 6 7 9 K N A G L L L A A R M L G V Q Y S E L V E R M A D Y Q E N M A D
U N I R E F 9 0 _ I 3 Z 2 S 7 K N A G L L L A S T M I G A F D P K V A E N M D N F K K D K Q K V E D S A R E L
U N I R E F 9 0 _ H 1 X 6 W 8 K N A A Y Y A L Q M L S I T N Q T L A T Q L E T F R E Q Q A Q K A R E S E E Q L
U N I R E F 9 0 _ A 4 X J Y 5 K N A G L L L A A E I L G V K Y P E I R K K
U N I R E F 9 0 _ M 5 S 4 8 6 K N A G I L L A A R I L A L S D D A L A D R L A E F V K K Q T A A V L E S A E
U N I R E F 9 0 _ X 0 S X L 5 K N A G V L L A A Q I L A L K Y P A V A E R L K G Y R A G I T K K A K E K A D A
U N I R E F 9 0 _ T 0 B M 4 8 T N A A G L L F A A R L L A V S D D A L A S R Y A A R R E T Q E E Q V L D G G E
U N I R E F 9 0 _ U P I 0 0 0 4 7 M 7 P 3 W 7 A N A A L F A I A Q L A V Q D D A L R Q K L E A S F R Q Q L E R Q V L A M
U N I R E F 9 0 _ U P I 0 0 0 3 7 5 F 8 F A K N A G L L L A I R M L G M N D E S L A E K L E A Y H R E M A E E S M K K T D N L

QUERY	Q
UniRef90_B9S7H9	Q
UniRef90_E4RKL3	E
UniRef90_L2F7H8	
UniRef90_F4Q311	
UniRef90_F4HMJ9	E
UniRef90_W1PRE9	E
UniRef90_R6PK13	E
UniRef90_F0SG74	
UniRef90_UPI0002C30551	Q
UniRef90_Q31EL2	
UniRef90_D3EF24	
UniRef90_E8PM97	
UniRef90_K6DDT5	
UniRef90_G7QG70	
UniRef90_UPI00046EB97F	
UniRef90_UPI00025592ED	
UniRef90_O74197	E
UniRef90_W0DB68	K
UniRef90_UPI0002F17AA9	K
UniRef90_UPI00037A9125	
UniRef90_M3TUF6	
UniRef90_UPI0004719D33	
UniRef90_W0TNF0	
UniRef90_F5L5B5	
UniRef90_W4QZV8	
UniRef90_D8SNZ6	E
UniRef90_Q5FNC2	
UniRef90_G2E1D4	E
UniRef90_U1LLX7	
UniRef90_A8MLI5	E
UniRef90_Q5JDF5	E
UniRef90_R7BEP3	E
UniRef90_P55195	E
UniRef90_K9FMU5	
UniRef90_Q1NMA2	Q
UniRef90_UPI00037FAEB4	
UniRef90_UPI000404FDE5	
UniRef90_K0RBF6	
UniRef90_I2EPM9	K
UniRef90_C4GBU6	Q
UniRef90_K2BA52	E
UniRef90_D9QFS9	
UniRef90_UPI0003701A85	
UniRef90_UPI00037F3D9D	
UniRef90_R9H3T3	E
UniRef90_C1EHIO	E
UniRef90_H2C7K8	
UniRef90_S0L2M4	E
UniRef90_E2MY24	R
UniRef90_D5SV87	
UniRef90_UPI000476C56C	
UniRef90_UPI000412E9B8	
UniRef90_K0J688	
UniRef90_R5QPU2	Q
UniRef90_M7NFP2	E
UniRef90_Q0G4H8	
UniRef90_S0KVX7	
UniRef90_U5L495	
UniRef90_Q04ET8	
UniRef90_G4TPA6	E
UniRef90_A5WB52	Q
UniRef90_V5V8C7	Q
UniRef90_F9DT57	E
UniRef90_UPI00031BDFAF	
UniRef90_A4BD69	
UniRef90_I7JW60	R
UniRef90_UPI0003B42718	E
UniRef90_D3PR16	
UniRef90_UPI000370E3C8	
UniRef90_L8MXN9	
UniRef90_UPI000225E29B	
UniRef90_A0A023D2I7	
UniRef90_UPI00047A5B87	
UniRef90_UPI000381812E	
UniRef90_D4W6F6	
UniRef90_F0WDU1	
UniRef90_UPI00047E1784	R
UniRef90_E6LFM8	
UniRef90_W8L8N8	
UniRef90_UPI000373EFA5	
UniRef90_UPI00030F28A9	
UniRef90_B4WJ07	
UniRef90_Q44679	
UniRef90_I3Z2S7	E
UniRef90_H1X6W8	H
UniRef90_A4XJY5	
UniRef90_M5S486	
UniRef90_X0SXL5	
UniRef90_T0BM48	
UniRef90_M7P3W7	
UniRef90_UPI000375F8FA	K

UniRef90_D4M267
UniRef90_T5ADY3
UniRef90_V5XPZ8
UniRef90_R5W7S4
UniRef90_R7GJ19
UniRef90_C7XXZ1
UniRef90_F8C5V3
UniRef90_UPI0004779D4C
UniRef90_T0MZC2
UniRef90_F3LDX4
UniRef90_S2YTN0
UniRef90_A3UH72
UniRef90_E1YFH8
UniRef90_W6T6X5
UniRef90_D8MG93
UniRef90_W0ETV7
UniRef90_H1HBQ1
UniRef90_B9L665
UniRef90_I4A756
UniRef90_UPI0002DC1957
UniRef90_X5KUR3
UniRef90_D7UUB4
UniRef90_UPI00029A4726
UniRef90_L7NKE5
UniRef90_D3QDU7
UniRef90_M2U4R3
UniRef90_E3GKU4
UniRef90_K1YMR3
UniRef90_R9AEV3
UniRef90_A8IJJ8
UniRef90_B1CAZ8
UniRef90_Q1MXY4
UniRef90_I7IIC5
UniRef90_Q1LTX3
UniRef90_UPI0003124C2E
UniRef90_N1ZVM4
UniRef90_Q73FM3
UniRef90_E3I3V4
UniRef90_UPI0003B5D83F
UniRef90_J4U651
UniRef90_UPI00041F8C35
UniRef90_B4UJ63
UniRef90_A0P7X1
UniRef90_I0IDT7
UniRef90_E5XUZ6
UniRef90_UPI0003706591
UniRef90_UPI000051020F
UniRef90_W2UT77
UniRef90_K9E8E1
UniRef90_UPI000475DBB6
UniRef90_U1R3Z6
UniRef90_UPI0004708412
UniRef90_Q38XX3
UniRef90_UPI000378FDAC
UniRef90_UPI0003828B4A
UniRef90_E8NCA2
UniRef90_UPI00036388F6
UniRef90_W2BWB6
UniRef90_G2TE95
UniRef90_W2V088
UniRef90_U4TKZ6
UniRef90_R7YPJ4
UniRef90_B2WMY8
UniRef90_M4FSX1
UniRef90_C6VY51
UniRef90_UPI00040421A4
UniRef90_Q1GQK1
UniRef90_D9TR94
UniRef90_UPI0003819213
UniRef90_M4XJB9
UniRef90_A9WU74
UniRef90_UPI0004726E53
UniRef90_Q8X117
UniRef90_M1LAS1
UniRef90_G9WKE3
UniRef90_A0A024K8C3
UniRef90_UPI0002E05428
UniRef90_UPI0003B36790
UniRef90_J5XBY1
UniRef90_E3H5S2
UniRef90_UPI000368E10A
UniRef90_UPI0003B58AF7
UniRef90_Q9HLC6
UniRef90_D0KXA9
UniRef90_C1FAF7
UniRef90_UPI00046CEF11
UniRef90_UPI0003716807
UniRef90_D1CBZ6
UniRef90_F5SIY6
UniRef90_UPI00037440B1
UniRef90_S7ZYH6
UniRef90_K1ZIN7

UniRef90_D4M267 M P D V F F D W A K A A E G K G I K V I 60 A G A G M A A H L P G M C A A L F P M
UniRef90_T5ADY3 T P A R M A S E L G R D A A E A R K G V K V L I A G A G G G A A H L P G M L A A S E T T V
UniRef90_V5XPZ8 T P D L M F S E Y A E E T A A E R K G I K V I A G A G G G A A H L P G M V A A S A M T T L L
UniRef90_R5W7S4 T P D L L A E Y A K E T A A K E R G I E E V I A G A G G G A A H L P G M V A A S A M T T L L
UniRef90_R7GJ19 T P E L L Y Q Y A K E A P E R N G I E E V I A G A G G G A A H L P G M V A A S A M T T L L
UniRef90_C7XXZ1 M P N E M F A F A Q N A A V K N G T A V I A C A G G G A A H L P G M I A A S A N T P L
UniRef90_F8C5V3 T S E K A L E Y A K T A E E R G I E E V I A G A G G G A A H L P G V I A S L T L I
UniRef90_UPI0004779D4C T P D W M A E Y A K G A I D R G I E E V I A A G A G G G A A H L P G M V A A S H T T L L
UniRef90_T0MZC2 T P Q Y M Y E F A K S A A S S R G I K V I A G A G G G A A H L P G M T A A S L T T L L
UniRef90_F3LDX4 T P E R L V E F T Q A A H S T R G V K V I A G A G G G A A H L P G M A A A S L T T H L L
UniRef90_S2YTN0 T P D R M L D Y A R T A A H T R G L K V I A C A G G G A A H L P G M T A A A T T P L L
UniRef90_A3UH72 T P D R L V A F S K S A A D R G V K V I A G A G G G A A H L P G M V A A S H T T L L
UniRef90_E1YFH8 T P E K A A G L J A S G T K Q R G V K V I A G A G G H A A H L L A G V L A A S M T T L L
UniRef90_W6T6X5 M P D K L Q T Y G E Q A A K R N G L Q V I A G A G G G A A H L P G M L A A A N T T L L
UniRef90_D8MG93 M P E Q L Q T E Y A Q A A K K N G L K V I A G A G G G A A H L P G M I A A S L T L V
UniRef90_W0ETV7 T P L R M I E Y A T K A K E R G L K V I A G A G G G A A H L P G M V A A S L T T L L
UniRef90_H1HBQ1 T P E K L V D F S S N A A H K R G I N V I A G A G G G A A H L P G M V A A S M S P L
UniRef90_B9L665 T P D R T H S Y V K E E E E R G C K V F I C A G A G M A A H L L A G V V A G A T T R
UniRef90_I4A756 T L E R T L N W V K E F E E G Q G K V I A G A G G M A A H L L A G V V A G A T T L
UniRef90_UPI0002DC1957 T P L K M V D Y A K S A T K N N I D I V I A G A G G G A A H L P G M V A S L T T A
UniRef90_X5KUR3 T P E R M F E Y A K S A K R N G L K V I A G A G G G A A H L P G M V A S C T T L
UniRef90_D7UUB4 T P D L M F R Y A E S A R D R G I K V I A G A G G G A A H L P G M V A A K T T L L
UniRef90_UPI00029A4726 M P A E M F D F A Q K S A E R G I K V I A G A G G G A A H L P G M L A A A N T T L L
UniRef90_L7NKE5 T P H L L A E Y A Q N A Q R R D T V I A G A G G G A A H L P G M T A A A Y T S L L
UniRef90_D3QDU7 T P K L M V E D F A N Q A R A N D Y D I V I A G A G G G A A H L P G M V A S M T T L L
UniRef90_M2U4R3 T P D R L Y D Y A R S A K E S R G L K V V I G G A G G G A A H L P G M T A A L T P L L
UniRef90_E3GKU4 N P D K I F S Y V R S T E E N G L E L V I G A A G K A A H L L A G V I A A G L T P L L
UniRef90_K1YMR3 L P D K T S E Y A G T A R E R G L E V I A G A G G M A A H L L A G V I A A H T T L L
UniRef90_R9AEV3 T P Q R M A Q F A H S A R A R G V R C V A G A G G G A A H L P G M I A A A M T P L L
UniRef90_A8IJJ8 T P E R M F E Y A R T A H Q R G L K A I V A G A G G G A A H L P G M V A A A M T P L L
UniRef90_B1CAZ8 T P K Q A E D F A R N A K E N G F D V I A A A G G K A A H L L G V V L A A M T T P L L
UniRef90_Q1MXY4 T P D L L F E Y S E T A A E R G I Q V I A G A G G G A A H L P G M V A S K T H L L
UniRef90_I7IC5 T P H R M T N Y A T E A A S R G L K A I V A G A G G G A A H L P G M V A S K M T S V
UniRef90_Q1LTX3 T P D K L F S F A E Q A I I N G Y K V I A G A G G G A A H L P G M L A S K M T L V
UniRef90_UPI0003124C2E T P D L L F E Y A D T A E L R G I E V I A G A G G G A A H L P G M A A A K T A L L
UniRef90_N1ZVM4 M P E E M M A F A K D A V D N G I E V I A G A G G G A A H L P G M V A S A N T V L L
UniRef90_Q73FM3 T P E R L M F A F A K S A Q E E G F K V I A G A G G G A A H L P G M V A S L T C L L
UniRef90_E3I3V4 T P E R L Y S F A K S A R E E G F K V I V A G A G G G A A H L P G M T A A L T T L L
UniRef90_UPI0003B5D83F M P H E M I E F Y A R T A E E R G L S V I A G A G G G A A H L P G M L A S T T S L L
UniRef90_J4U651 T P D R M V K Y A R S A A S R G L R A V I A G A G G G A A H L P G M V A A S E T S V L
UniRef90_UPI00041F8C35 T P L R M V E Y A T V A R E R G L R V I A G A G G G A A H L P G M V A A L T S L L
UniRef90_B4UJ63 T P E R T G K L A R E N A S K N G F K V I C A G G S A A H L L A G V C A S E T E L L
UniRef90_A0P7X1 T P D L M F E F A E N A S K N G F K V I A G A G G G A A H L P G M V A A S K T L L
UniRef90_I0IDT7 T P E R M N R Y A A D A A G R G L R A I A G A G G G A A H L P G M L A A A Q T A V L
UniRef90_E5XU26 T P V G M L Q Y A A E A E G R G L R V I A G A G G G A A H L P G M V A S A T P L L
UniRef90_UPI0003706591 T P E R M V E Y A Q A A K E R G I K T I A G A G G G A A H L P G M V A S L T T L L
UniRef90_UPI000051020F M P E D M V E W A K T A A D R G L R V I A G A G G G A A H L P G M I A S M T S L L
UniRef90_W2UT77 T P E K M F E F G K A H E K I S V I A G A G G G A A H L P G M V A S L S P L L
UniRef90_K9E8E1 M T D E M N S F S K E A R D K G V K V I A G A G G G A A H L P G M V A A S T T L L
UniRef90_UPI000475DBB6 T P D R M F Q Y A A T A H L R G I R V I A C A G G A A H L P G M I A S A T P L L
UniRef90_U1R3Z6 M P V E M I E Y G R Q A S E R G L R V I A G A G G G A A H L P G M L A A V S E L L
UniRef90_UPI0004708412 T P D L L F E Y A E Q A A D R G L Q V I A G A G G G A A H L P G M C A A K T W L L
UniRef90_Q38XX3 M P I E M I A F A Q S A A E E G Y Q V I A G T G G A A H L P G M L A A N T V L L
UniRef90_UPI000378FDAC T P E E V R D F A M N A D Q E R G C Q A V I A A A G M A A H L C G V I A S M T A L L
UniRef90_UPI0003828B4A T P E A T H N Y V T D A D K R G C A F I C A A G M A A H L L A G A V I S A T L K L
UniRef90_E8NCA2 T P D K L V R Y G R E A R A R G L R A I A G A G G G A A H L L A G M L A S V T A L L
UniRef90_UPI00036388F6 T P E R M Y E F A K T A K E E G F S V I A G A G G G A A H L P G M T A A L T T L L
UniRef90_W2BWB6 T P V E A K E F S K N A R N N G F G V I A A A G G K A A H L L A G S V A A N T T L L
UniRef90_G2TE95 T P A R L V D Y A T T A R A R G L R A I V A G A G G G A A H L P G M V A A M T T L L
UniRef90_W2V088 T P N R L Y R F A Q S A Q D N I L E I I A G A G G G A A H L P G M I A S L T T L L
UniRef90_U4TKZ6 M P Q E L A Q F A S T A R A A G Y A V I A G A G G G A A H L P G M L A A N T T L L
UniRef90_R7YPJ4 T P D R M F D F A K R A E G E G F R V I A A A G G G A A H L P G M T A S D T V L L
UniRef90_B2WMY8 T P D W L R E F S K S A E S T S V Q V I G A A G G G A A H L P G M C A S W T T L L
UniRef90_M4FSX1 T P N L M L D V J A E A A A G R G I K V A I A A A G G G A A H L P G M F A S H C P I
UniRef90_C6VY51 T P E R M L L E Y G A S A R S R G L R V I A G A G G G A A H L P G M V A S L T S L L
UniRef90_UPI00040421A4 T P Q R M M N Y A S S A A K R G L K V I A G A G G G A A H L P G M V A S V T L L L
UniRef90_Q1GQK1 T P D R L V N Y A K G A A D R G L K A I A G A G G G A A H L P G M V A A M T R V L
UniRef90_D9TR94 T P D I A H D F A K K A V E N G Y E V I A A A G K A A H L L A G V I A S M T P L L
UniRef90_UPI0003819213 T P D R L V E Y A K T A E E R G L K V I A G A G G G A A H L P G M L A S M T I V L
UniRef90_M4XJB9 T P D K L F S F A E T A E T N G Y K V I A G A G G G A A H L P G M I A S K M T L V
UniRef90_A9WU74 M P L E M I E Y G R L A Q E R G L R V I A G A G G G A A H L P G M L A S V T T L L
UniRef90_UPI0004726E53 T P L E M V D Y G R T A A E R G L K V I A G A G G G A A H L P G M V A S L T V L L
UniRef90_Q8X117 T P S R M Y S A I N G V N R G L R V I A G A G G G A A H L P G M V A S L T P L L
UniRef90_M1LAS1 M P K E M F D Y A S E A H N R G L K A I A G A G G G A A H L P G M I A A L T E V L
UniRef90_G9WKE3 S L N L V L D Y V E S M E Q N K D I I A F A G K A A H L L A G V I A G L S I K L
UniRef90_A0A024K8C3 T P D R M V E F A K S A K A D G F K V I A G A G G G A A H L P G M I A S M T T L L
UniRef90_UPI0002E05428 T P D A L F D Y L Q S A E P R G V E L F I A A A G G A A H L P G V V A A K T V L L
UniRef90_UPI0003B36790 A P H D M V A Y G T G A H E R G L Q V I A G A G G G A A H L P G M L A S T T P L L
UniRef90_J5XBY1 T P E K L I S F G K N A H L Q G I D V I A G A G G G A A H L P G M L A A V S P L L
UniRef90_E3H5S2 M P E D M I A Y G Q Q A H Q R G I R V I A G A G G G A A H L P G M L A S V T A L L
UniRef90_UPI000368E10A S P H R M V D Y A S G A T A R G L S V I A G A G G G A A H L P G M V A S M T R L L
UniRef90_UPI0003B58AF7 T P E K M I A F G K E A A A R G I R V I A G A G G G A A H L P G M I A S V T T L L
UniRef90_Q9HLC6 T P E Y M F Q F A S S A R D Q G I E V I A G A G G G A A H L P G M V A S M T T L L
UniRef90_D0KXA9 T P D R L F Y Q A E T A I E R G L R V I G G A G G A A H L P G M L A A K T R L L
UniRef90_C1FAF7 T P D L L Y E Y A E Q A Q A R G L R V I A G A G G G A A H L P G M L A A K T L V L
UniRef90_UPI00046CEF11 S P E R T R R L V A E A E A Q G V E V F V C A A G M A A H L L A G V V A A E T V R L
UniRef90_UPI0003716807 T P E R T K D L I R N F E E S G G E I F I A V A G K A A H L L A G V V A S Y T C L
UniRef90_D1CBZ6 Q P N K L R E Y L I S Q A T A N G V E L F I A G A G A A H L P G V I A S L T T K L
UniRef90_F5SIY6 T P D E M F R Y A E S A Q E R G L E V I A G A G G G A A H L P G M V A A K T V L L
UniRef90_UPI00037440B1 T P K R L Y E F C D D A A D R G I E V I A G A G G S A H L L A G M A A A M T W L L
UniRef90_S7ZYH6 T P V R M S E L A K S A A D R G I R V I A A A G G G A A H L P G M L A S E T P I L
UniRef90_K1ZIN7 T P D A L F E Y L K K A E T D G I E V I G A A G G A A H L P G V I A S K T V L L

UniRef90_D4M267 P V I G V P M S G K N L E G M D A L Y S I 100 V Q M P P G I P P 110 T V A D G G 120
UniRef90_T5ADY3 P V I G V P V V K A S T H L D N G N D S L L S S I V V Q M P P R G G I V P P A T T T A V G G N G S
UniRef90_V5XPZ8 P V I G V P V V K S K A L L N G L L D D S L L S S I V V Q M P P A G G G V V P P V A T T T A V G G K A G G A
UniRef90_R5W7S4 P V I G V P V V K S K A L L N G G L L D D S L L S S I V V Q M P P A G G G V V P P V A T T T A V G G N G G A
UniRef90_R7GJ19 P V I G V P V V K S K A L L N G G L L D D S L L S S I V V Q M P P A G G G V V P P V A T T T A V G G V P G G A
UniRef90_C7XXZ1 P V I G V P V V K S K A L L N G G L L D D S L L S S I V V Q M P P A G G G V V P P V A T T T A V G G V P G G A
UniRef90_F8C5V3 P V I G V P V V K S K A L L N G G L L D D S L L S S I V V Q M P P A G G G V V P P V A T T T A V G G V P G G A
UniRef90_UPI0004779D4C P V L G V P V I K S S T L L N G G L L D D S L L S S I V V Q M P P A G G G V V P P V A T T T A V G G N A G G A
UniRef90_T0MZC2 P V I G V P V I S T S K S Q L K G M D S L L S S I V V Q M P P A F G G V V A V A T T V A I G G N A G G S
UniRef90_F3LXD4 P V I G V P V I S T S K S Q L K G M D S L L S S I V V Q M P P A F G G V V A V A T T V A I G G N E A G G A
UniRef90_S2YTN0 P V I G V P R A L K D L L D G L L D D S L L S S I V V Q M P P S G G V V P T A T T V S I G G E A G G A
UniRef90_A3UH72 P V I G V P V I Q S S R A L L S G L L D D S L L S S I V V Q M P P P G G G V V P V A T T V A I G G E A G G A
UniRef90_E1YFH8 P V I G V P V I Q S S R A L L S G L L D D S L L S S I V V Q M P P P G G G V V P V A T T V A I G G K A G G A
UniRef90_W6T6X5 P V I G V P V I K T R A L L N G G L L D D S L L S S I V V Q M P P G G G V V P V A T T M A I G G D A G G A
UniRef90_D8MG93 P V I G V P M Q S S H A L L D G M D S L L S S I V V Q M P P A G G G V V P V A T T V A I G G D A G G A
UniRef90_W0ETV7 P V I G V P V V K S S N I L D G M W D S V L S S I L L Q M P P N G G V V P V A T T V A I G G D A G G A
UniRef90_H1HBQ1 P V I G V P V V K S S N I L D G W D S V L S S I L L Q M P P G G G V V P V A T T V A I G G N A G G A
UniRef90_B9L665 P V I G V P M P T G M M D G L L D A L Y A T V V Q M P P P G G G M P V A T T A V G G K A G G A
UniRef90_I4A756 P V I G V P I R S G A L E G V L D A L Y A T V V Q M P P P G G G I V P V A T T A V G G K A G S
UniRef90_UPI0002DC1957 P V I G V P I E S K S L L K G V L D D S L L S S I V V Q M P P G G G I V P V A T T A V G G K A G S
UniRef90_X5KUR3 P V I G V P I L S S N I L D G W D S V L S S I L L Q M P P A G G G V P V A T T V A I G G N A G G A
UniRef90_D7UUB4 P V I G V P V V Q S S K A L L N G G L L D D S L L S S I L L Q M P P A G G G V P V A T T V A I G G S S G A
UniRef90_UPI00029A4726 P V I G V P V V Q S S H A L L N G G M D S L L S S I V V Q M P P A G G G V V P V A T T T A I G G K A G G A
UniRef90_L7NKE5 P V I G V P V V Q S S R A L L N G G L L D D S L L S S I V V Q M P P A K G G V V A V A T T A I G G E A G G A
UniRef90_D3QDU7 P V I G V P V I E S K S L L K G L L D D S L L S S I V V Q M P P G G G I V P V A T T T A I G G K S G A
UniRef90_M2U4R3 P V I G V P V V Q T S K A L L S G G Q L L D D S L L S S I L L Q M P P G G G V V P V A T T L A I G G K A G G A
UniRef90_E3GKU4 P V I G V P V I A S G F L Q G L L D D S L L S S I L L Q M P P S G G V V P V A T T V A I G G N A G G A
UniRef90_K1YMR3 P V I G V P V L A S G F L H G L L D A L Y A T V V Q M P P P G G V V P V A T T V A I G G D A G G A
UniRef90_R9AEV3 P V I G V P V L K G S S L L D G V L D D S L L H S I V V Q M P P R G G V V P V A T T V A I G G N G G A
UniRef90_A8IJJ8 P V I G V P P S S G A H L L D G L L D A L L S S I V V Q M P P K G G I V P V A T T V A I G G N A G G A
UniRef90_B1CAZ8 P V I G V P I K T S L M G M D S L L S S I V V Q M P P K G G I V P V A T T V A I G G V D A G G A
UniRef90_Q1MXY4 P V I G V P V V K S K A L L N G G I V D S L L S S I A Q M P P A G G I V S G T T L A I G G P A G A
UniRef90_I7IC5 P V I G V P V I K G S T L D G G V D S L L H S S I V V Q M P P P R S G I V P V A T T V A I G G N A G S
UniRef90_Q1LTX3 P V I G V P M Q S T A L L N G G I V D S L L S S I V V Q M P P S A G G I V P V G T T L A I G G K S G A
UniRef90_UPI0003124C2E P V L G V P V V E S A V L L R G V L D D S L L S S I V V Q M P P A G G I V P V G T T L A I G G K A G G A
UniRef90_N1ZVM4 P V I G V P V V Q S S R A L L N G G L L D D S L L S S I V V Q M P P A G G V P V A T T A I G G V A G G A
UniRef90_Q73FM3 P V I G V P V H S K Q L L N G L L D D S L L S S I V V Q M P P K G G V P V A T T M S I G G V A G G A
UniRef90_E3I3V4 P V I G V P V I A T T A L L K G Q D D S L L S S I V V Q M P P A G G V V P V A T T L A I G G E P G A
UniRef90_UPI0003B5D83F P V I G V P V V Q L K T L L D G M D S L L S S I V V Q M P P A G G V V P V A T T L A I G G E P G A
UniRef90_J4U651 P V I G V P V V K A S V L L D G V D S L L Y S S I V V Q M P P A G G I P C A T T V S I G G N G S
UniRef90_UPI00041F8C35 P V I G V P V I K S S N I L D G W D S V L S S I L L Q M P P N G G V V P A T T V A I G G N A A
UniRef90_B4UJ63 P V I G V P V I A A S D L L K G L L D A L L S S T A Q M P P A G G V P V A T T L A I G G K A G G A
UniRef90_A0P7X1 P V I G V P V I P T K H L L Q G Q D D S L L S S I V V Q M P P K G G I V P V A T T F A I G G E A G G A
UniRef90_I0IDT7 P V I G V P V V Q S R A L L Q G L L D D S L L S S I A Q M P P G G G I V P V A T T F A I G G E A G G A
UniRef90_E5XUZ6 P V I G V P V V P L E R L L D G L L D D S L L S S I V V Q M P P P G G I V P V A T T V A I G G V G A G A
UniRef90_UPI0003706591 P V I G V P V V K S S N I L D G M W D S V L S S I L L Q M P P G G G V V P V A T T V A I G G D A G G A
UniRef90_UPI000051020F P V I G V P V V P L K Y L L D G M D S L L S S I V V Q M P P G G G V V P V A T T V A I G G A G G A
UniRef90_W2UT77 P V I G V P V V K S R N I L N G W L D D S V L S S I L L Q M P P G G G V V P V A T T V A I G G D A G G A
UniRef90_K9E8E1 P V I G V P V L K S S T L N G G L D D S V L S S I V V Q M P P K G G V V P V A T T M A I G G P S G A
UniRef90_UPI000475DBB6 P V I G V P R A L P N L L D G M D S L L S S I V V Q M P P A G G V V P V A T T V S I G G D A G G A
UniRef90_U1R3Z6 P V I G V P V V P L K Y L L D G M D S L L S S I V V Q M P P A G G V P V A T T V S I G G R A G G A
UniRef90_UPI0004708412 P V L G V P V V K S S T L L S G M D S L L S S I V V Q M P P A G G V P V A T T L A I G G K A G G A
UniRef90_Q38XX3 P V I G V P V V K S K A L L N G M D S L L S S I V V Q M P P S G G V V P V A T T V A I G G K A G G A
UniRef90_UPI000378FDAC P V I G V P V I D A S L L K G M D A L L A L V A T T V A I G G I N A A
UniRef90_UPI0003828B4A P V I G V P V I N A S L L L D G L D A L L S T V V Q M P P G G G I V P V A T T V A I G G K A G A
UniRef90_E8NCA2 P V I G V P V V Q L A T L L D G L L D D S L L S S I V V Q M P P A G G I V P V A T T V A I G G N A G A
UniRef90_UPI00036388F6 P V I G V P V I K S K A L L S G Q L L D D S L L S S I V V Q M P P A G G I V P V A T T L A I G G K A G A
UniRef90_W2BWB6 P V I G V P V I K S S T L L D G L L D A L L S T V V Q M P P G G G I V P V A T T V A I G G D A G A
UniRef90_G2TE95 P V I G V P V V E S K A L L S G M D S L L S S I V V Q M P P G G G V V P V A T T L A I G G K A G A
UniRef90_W2V088 P V L G V P V I N S A S L L S G L L D D S L L S S I V V Q M P P A G G I V P V A T T L A I G G K A G A
UniRef90_U4TKZ6 P V I G V P V I Q S H A L L S G M D S L L S S I V V Q M P P S A G G I V P V A T T L A I G G T A G A
UniRef90_R7YPJ4 P V I G V P V R A S H L L D G L L D D S L L S S E V Q M P P R G G V V C A T T V V G G I N N S
UniRef90_B2WMY8 P V I G L P V V K A T H L L D G M D S L L S S M T Q M P P R G G E V V A T T V V G G I N N S
UniRef90_M4FSX1 P V I G V P V V K A T H L L D G M D S L L S S I V V Q M P P K G G V V P V A T T V V G G I N N S
UniRef90_C6VY51 P V I G V P V L S S N I L D G W D S V L S S I L L Q M P P A G G V V P V A T T V A L D N G A
UniRef90_UPI00040421A4 P V I G V P V I K S S N I L D G W D S V L S S I L L Q M P P N G G V V P V A T T V A L N G A A
UniRef90_Q1GQK1 P V L G V P V V Q S A A L L S G V D S L L Y S S I L L Q M P P G G G V P V A T T F A I G G K A G A
UniRef90_D9TR94 P V I G I P V I K S S T L L D G L L D D S L L S S T V V Q M P P Q G G I V P V A T T V A I D D A G S
UniRef90_UPI0003819213 P V L G V P V V Q S R A L L S G V D S L L Y S S I V V Q M P P K G G I V P V A T T L A I G G E A G A
UniRef90_M4XJB9 P V I G V P V V K S S M L L S G V D S L L Y S S I V V Q M P P K G G I V P V A T T L A I G G P A G A
UniRef90_A9WU74 P V I G V P V V P L K T L L D G M D S L L S S I V V Q M P P T G G V V P V A T T L A I G G A G A
UniRef90_UPI0004726E53 P V I G V P V V R S K A L L A D G V D S L L Y S S I A Q M P P A G G V V P V A T T V A I G G N G A
UniRef90_Q8X117 P V I G V P V V K G S T L L D G M D S L L H S S I V V Q M P P R G G V P V A T T V A I G G N A
UniRef90_M1LAS1 P V I G V P V P S K Y L L S G E D S L L S S I V V Q M P P K G G I V P V A T T F A I G E A G A
UniRef90_G9WKE3 P V I G V P V V Q S S K A L L D G M D A L L S S T V V Q M P P K G G I V P V A T T V A I G N A G A
UniRef90_A0A024K8C3 P V I G V P V V R S K A L L L D G Q D S L L S S I V V Q M P P G G G V P V A T T L A I G E P G A
UniRef90_UPI0002E05428 P V L G V P M P S S T F L N G L L D A L L S S I V V Q M P P A G G I V P V G T L A V G G K A G A
UniRef90_UPI0003B36790 P V I G V P V V P L K R N I L D G M D S L L S S I V V Q M P P A G G V P V A T T V N G N A
UniRef90_J5XB1 P V I G V P V I K S R N I L D G W D S V L S S I L L Q M P P A G G V P V A T T V A L N G A
UniRef90_E3H5S2 P V I G V P V V R L K N L L E G M D S L L S S I V V Q M P P A G G V P V A T T V S I N G A
UniRef90_UPI000368E10A P V I G V P V V P S K H L L S G E D S L L S S I V S M P P A G G V P V A T T M A I G N G A
UniRef90_UPI0003B58AF7 P V I G V P V V Q L A R L L D G L L D D S L L S S I V V Q M P P A G G I V P V A T T M A I G N G A
UniRef90_Q9HLC6 P V I G V P V V P S R N L L N G L L D D S L L S S I V V Q M P P S G G I V P V A T T V A I G G N S
UniRef90_D0KXA9 P V L G V P V V Q S K S L L S G W D S M L S S I V V Q M P P A G G I V P V A T T L A I G R A G A
UniRef90_C1FAF7 P V I G V P V V P A T M L N G L L D D S L L S S I L V Q M P P K G G V P V A T T L A I G K P G A
UniRef90_UPI00046CEF11 P V I G I P V D A G A L R G M D A L L S S T V V Q M P P P G G I V P V A T T L A I G K A G A
UniRef90_UPI0003716807 P V I G V P V V G G S T V L N G Y D A L L S S T V V Q M P P E G G V P V A T T C M G I G K S G A
UniRef90_D1CBZ6 P V I G I P V L P T S D L L K G Q D S L L Y A L V V Q M P P A G G V P V A T T V A I G K A G A
UniRef90_F5SIY6 P V I G V P V I K S S A L L N G L L D D S L L S S I L V Q M P P A G G V P V A T T V A I G E A G A
UniRef90_UPI00037440B1 P V I A V P M S S K Q L L D G M D S L L S S M V V Q M P P K G G V A V A T T C Q A G G D A G A
UniRef90_S7ZYH6 P V I G V P V V K A T H L L K D G Q D S L L S S I V V Q M P P R G G C A T T V A I G G I N N S
UniRef90_K1ZIN7 P V I G V P M L S A L L N G L L D S L L S S I V V Q M P P G G G I V P A T T M A I G K A G A

UniRef90_D4M267	
UniRef90_T5ADY3	E
UniRef90_V5XPZ8	
UniRef90_R5W7S4	
UniRef90_R7GJ19	
UniRef90_C7XXZ1	
UniRef90_F8C5V3	Q
UniRef90_UPI0004779D4C	
UniRef90_T0MZC2	
UniRef90_F3LDX4	
UniRef90_S2YTN0	R
UniRef90_A3UH72	
UniRef90_E1YFH8	E
UniRef90_W6T6X5	
UniRef90_D8MG93	
UniRef90_W0ETV7	R
UniRef90_H1HBQ1	K
UniRef90_B9L665	E
UniRef90_I4A756	Q
UniRef90_UPI0002DC1957	
UniRef90_X5KUR3	
UniRef90_D7UUB4	E
UniRef90_UPI00029A4726	
UniRef90_L7NKE5	
UniRef90_D3QDU7	Q
UniRef90_M2U4R3	
UniRef90_E3GKU4	Q
UniRef90_K1YMR3	E
UniRef90_R9AEV3	E
UniRef90_A8IJJ8	E
UniRef90_B1CAZ8	Q
UniRef90_Q1MXY4	
UniRef90_I7IIC5	E
UniRef90_Q1LTX3	
UniRef90_UPI0003124C2E	
UniRef90_N1ZVM4	
UniRef90_Q73FM3	
UniRef90_E3I3V4	
UniRef90_UPI0003B5D83F	
UniRef90_J4U651	
UniRef90_UPI00041F8C35	K
UniRef90_B4UJ63	Q
UniRef90_A0P7X1	
UniRef90_I0IDT7	
UniRef90_E5XUZ6	Q
UniRef90_UPI0003706591	E
UniRef90_UPI000051020F	R
UniRef90_W2UT77	K
UniRef90_K9E8E1	
UniRef90_UPI000475DBB6	K
UniRef90_U1R3Z6	
UniRef90_UPI0004708412	
UniRef90_Q38XX3	
UniRef90_UPI000378FDAC	K
UniRef90_UPI0003828B4A	Q
UniRef90_E8NCA2	K
UniRef90_UPI00036388F6	
UniRef90_W2BWB6	E
UniRef90_G2TE95	
UniRef90_W2V088	
UniRef90_U4TKZ6	
UniRef90_R7YPJ4	K
UniRef90_B2WMY8	
UniRef90_M4FSX1	Q
UniRef90_C6VY51	K
UniRef90_UPI00040421A4	K
UniRef90_Q1GQK1	
UniRef90_D9TR94	Q
UniRef90_UPI0003819213	
UniRef90_M4XJB9	
UniRef90_A9WU74	R
UniRef90_UPI0004726E53	
UniRef90_Q8X117	
UniRef90_M1LAS1	
UniRef90_G9WKE3	
UniRef90_A0A024K8C3	
UniRef90_UPI0002E05428	
UniRef90_UPI0003B36790	
UniRef90_J5XBY1	Q
UniRef90_E3H5S2	R
UniRef90_UPI000368E10A	
UniRef90_UPI0003B58AF7	
UniRef90_Q9HLC6	E
UniRef90_DOKXA9	
UniRef90_C1FAF7	
UniRef90_UPI00046CEF11	
UniRef90_UPI0003716807	K
UniRef90_D1CBZ6	
UniRef90_F5SIY6	
UniRef90_UPI00037440B1	
UniRef90_S7ZYH6	Q
UniRef90_K1ZIN7	

UniRef90_UPI0002DF4DF9
UniRef90_U7Q2N7
UniRef90_X7Z6H0
UniRef90_C4GG76
UniRef90_B4U5F4
UniRef90_Q2LR92
UniRef90_UPI00047CD283
UniRef90_G7VM31
UniRef90_UPI000468C2B0
UniRef90_I9KUM0
UniRef90_Q6KYZ3
UniRef90_A3ZRL1
UniRef90_W8YSA2
UniRef90_D5MG08
UniRef90_M4S1S4
UniRef90_C7MM40
UniRef90_R6Z6E3
UniRef90_UPI00028899C5
UniRef90_F7YV09
UniRef90_C7M090
UniRef90_E8UEM9
UniRef90_UPI00047AC439
UniRef90_A0Q1J5
UniRef90_K7RQ77
UniRef90_D3DFB8
UniRef90_V5SE10
UniRef90_E8T7B0
UniRef90_C3XAE4
UniRef90_UPI0004760199
UniRef90_J5KCF0
UniRef90_N1PIU0
UniRef90_B7ID41
UniRef90_X1SVG1
UniRef90_K0C6H2
UniRef90_R9M0U4
UniRef90_R5ES36
UniRef90_F4AMJ0
UniRef90_C0R0J3
UniRef90_UPI0003B6BE7E
UniRef90_R6UJ12
UniRef90_R7ML61
UniRef90_W9DT36
UniRef90_UPI0003A2488C
UniRef90_E6UD19
UniRef90_A5N0Q5
UniRef90_R4V5K3
UniRef90_Q47IX5
UniRef90_L7U9J2
UniRef90_G2Y0K8
UniRef90_R8VYV6
UniRef90_F2E6R6
UniRef90_K2JJ04
UniRef90_C8PL81
UniRef90_UPI000420C125
UniRef90_Q892W9
UniRef90_R6NA47
UniRef90_K9U9F0
UniRef90_H0UMH1
UniRef90_V7HZP3
UniRef90_F4H541
UniRef90_R6ME63
UniRef90_E3HCJ0
UniRef90_K1E2B0
UniRef90_L8GN82
UniRef90_S6GPA0
UniRef90_UPI0004770E8E
UniRef90_J0Y167
UniRef90_UPI0004638A43
UniRef90_U6B425
UniRef90_R9AIZ2
UniRef90_D2AN43
UniRef90_A1SMF4
UniRef90_A6Q757
UniRef90_H8GTW6
UniRef90_Q3J6U5
UniRef90_UPI0003811ABE
UniRef90_R6AH72
UniRef90_A4SFX3
UniRef90_B8I494
UniRef90_F8EQI6
UniRef90_W7SNG0
UniRef90_A0A059FMV5
UniRef90_V8CFD1
UniRef90_W6S4M4
UniRef90_V4QZL9
UniRef90_I0GNW7
UniRef90_D5ZX55
UniRef90_L0FVV3
UniRef90_I7J542
UniRef90_M5JCV6
UniRef90_UPI00047736E2
UniRef90_D1VVH9

1 10 20 30 40

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

	50	60	70	80
UniRef90_UPI0002DF4DF9	T P E K M F T Y A D Q A Y E Q G L K V I I I	A G A G G G A A H L P	G M V A A K T V L	
UniRef90_U7Q2N7	T P A K M G Q V A D T D A A A R G G I K V I I I	A G A G G G A A H L P	G M L A A Y T P L	
UniRef90_X7Z6H0	T P A L M F D Y A R K T A A D R G L E L I I I	A G A G G G A A H L P	G M V A A S A Q T T L	
UniRef90_C4GG76	T P D L M F T Y A E K A A R E R E R N G V K V I I I	A G A G G G A A H L P	G M V A A S K T T T L	
UniRef90_B4U5F4	T P D L M F T Y A E K A A R E R E R N G V K V I I I	A G A G G G A A H L P	G M V A A S K T T T L	
UniRef90_Q2LR92	S P D R T S D F S R K G A A E A N G V K V I I I	A G A G G G A A H L P	G M V A A S Q T T T L	
UniRef90_UPI00047CD283	T P E R L Y P I D F A R R G A E A A G F K V I I I	A G A G G G A A H L P	G M V A A S L T T R L	
UniRef90_G7VM31	M P Q E L Q A F G T Q A R S D N K L Q V I I I	A G A G G G A A H L P	G M L A A S T T T L	
UniRef90_UPI000468C2B0	T P Q E M L D F A K T A R S D N N F K V I I I	A G A G G G A A H L P	G M I A A S S Y T L	
UniRef90_I9KUM0	T P F E T Q E F A V N A D K Y I I I I I	A G A G G G A A H L P	G V I A A S S Y T L	
UniRef90_Q6KYZ3	T P D F M Y E F A K G A L N N G I E V I I I	A G A G G G A A H L P	G M V A A S M T T T L	
UniRef90_A3ZRL1	T P H V V G E Y A M T A V D R G L K V I I I	A A A G G G A A H L P	G V V A A A K T T L	
UniRef90_W8YSA2	T P D L M F H Y A M T A V E R G L K V I I I	A G A G G G A A H L P	G M V A A K H T T L	
UniRef90_D5MG08	S L D A T L D Y I R K A E T R G I Q V I I I	A G A G G G A A H L P	G V I A A G Q T T R L	
UniRef90_M4S1S4	T P E R L Y D Y A K S A A S E R G R G L R V I I I	A G A G G G A A H L P	G M A A A S M T T L	
UniRef90_C7MM40	K P L E V H E W A S A S E R G L R V I I I	A A A G G G A A H L P	G V V A A A Y T P L	
UniRef90_R6Z6E3	N P D K V H E W A G T A H E R G L K V I I I	A A A G K A A H L P	G V V A A A F T P L	
UniRef90_UPI00028899C5	V P E K L E E V L K Q L E E D G C E C V I I	A G A G L A A H L P	G V I A A S K T V I	
UniRef90_F7YV09	T P D L M Y E Y A K T A E A R G L K V I I I	A G A G G G S A H L P	G M V A A S L T H L	
UniRef90_C7M090	T P D D M L J A F A R D A R D L G F H V I V	A G A G G G A A H L P	G M I A A A T T T L	
UniRef90_E8UEM9	M P Y D M A E F G S T A Y D N G F R A I I	A G A G G G A A H L P	G M L A A L L S E V	
UniRef90_UPI00047AC439	T P H R M F E Y A Q T A R D K G L K V I I I	A G A G G G A A H L P	G M V A A A L T T L	
UniRef90_A0Q1J5	I P E E L S K V V K K L E K E D Y E C I I	A G A G L A A H L P	G V I A A S Q T T L	
UniRef90_K7RQ77	M P E Q M V E F G R G A H E R G I Q V I I I	A G A G G G A A H L P	G M L A A L T T P L	
UniRef90_D3DFB8	T P E V M Y E F A K S A K E D N G I E V I I I	A G A G G G A A H L P	G M T A A S L T T L	
UniRef90_V5SE10	T P D R L Y D Y A R S A A A E R G I K V I I I	A G A G G G A A H L P	G M T A A S M T T L	
UniRef90_E8T7B0	T P D R L Y D F A K G A K A A G Y G V I I	A G A G G G A A H L P	G M T A A M T P L	
UniRef90_C3XAE4	T P E E L A E W M T S M E K R G C R A F I	A G A G G G A A H L P	G V V A A H T T L	
UniRef90_UPI0004760199	T P E A I R N Y V K D A D Q R G A A A F I	A C A G M A A H L P	G V V S S L T I K	
UniRef90_J5KCF0	T P H E V M E L I K T S E N N G K V I I I	A A A G M A A H L P	G A V A A A Y S T R	
UniRef90_N1PIU0	T P S W M A E F A S T A K N T T V R V I I	A A A G G G A A H L P	G M T A A Y T P L	
UniRef90_B7ID41	T P D L L D E Y I Q S C E K K G T K V F I	A I A G G A A H L P	G V I A S K T I K	
UniRef90_X1SVG1	A P D L L F E Y I A Q L E E K G F K V I I	A G A G G G A A H L P	G V V A A K T I L	
UniRef90_K0C6H2	T P V E T H A Y V T D A D E K G C A V F I	A A A G L A A H L P	G A V A A N T V K	
UniRef90_R9M0U4	T P A T A C Q F A A N A R E K G F A V I	A A A G K A A H L P	G V L A A H T T L	
UniRef90_R5ES36	T P D V V S E Y V K E A E N R G C A V F I	G A A G L A A H L P	G A I A A A R T T R	
UniRef90_F4AMJ0	T P T L L T E F S E T A A D K G Y V I I	G G A G G G A A H L P	G M I A A A H T H L	
UniRef90_C0R0J3	V P E H L E K T I K H I E E N N Y E V I I	A G A G L A A H L P	G V I A S K T I L	
UniRef90_UPI0003B6BE7E	T P D R L Y D Y A K T A E S R G L Q A I I	A G A G G G A A H L P	G M A A A M T R L	
UniRef90_R6JUJ2	T P N E V I K L J A E G A K D R G I K V I I	A A A G G G A A H L P	G V I A A S S T T L	
UniRef90_R7ML61	T P V E A A D F A D K A K A E G F G V I I	C A A G M A A H L P	G V I A G H T T L	
UniRef90_W9DT36	T P Q R M Y E Y A A K L E A Q N N I G V I I	A G A G G S A H L P	G M V A S A L T H V	
UniRef90_UPI0003A2488C	T P D R L S A F A K G A E A E G F E V I V	A G A G G G A A H L P	G M T A A H T T L	
UniRef90_E6UD19	T P A L A A D F A D K A K A E G F G V I I	C A A G M A A H L P	G V I A G H T T L	
UniRef90_A5N0Q5	V P E E L L Q T I E K L E R E N G C E C I I	A G A G L A A H L P	G V I A S K T V I	
UniRef90_R4V5K3	T P E R M N D Y A A T A R E R G L R A I I	A G A G G G A A H L P	G M V A A A Q T T V	
UniRef90_Q47IX5	T P D L L F D Y A A M A G E R E R G L R A I I	A G A G G G A A H L P	G M L A A K T T V	
UniRef90_L7U9J2	T P D W M M E Y A S T A E S R G L S I I I	A A A G G G A A H L P	G M V A S S K T L L	
UniRef90_G2Y0K8	T P Q L M A D F A R D A A S N G F K V I I	A A A G G G A A H L P	G M I A A S Q T P L	
UniRef90_R8VYV6	T P A A A E T L A K N A R A D G F G V I I	A A A G K A A H L P	G V I A A Y T T L	
UniRef90_F2E6R6	T A E R M Y A T A S S A K E R G L E V I I	A G A G G G A A H L P	G M V A S L T T L	
UniRef90_K2JJ04	T P D L L A T T M Q S A E Q D G V V V I	A G A G G G A A H L P	G M L A A F T T L	
UniRef90_C8PL81	S P A R T A K Y V A D A E K K G A Q V F I	C A A G M A A H L P	G A V A A N T T K	
UniRef90_UPI000420C125	T P D R L V I E F S K S A S D E D Y E V I I	A G A G G G A A H L P	G M A A A S M T C L	
UniRef90_Q892W9	V P E K L E E T L K K L E E D N Y E C I I	A G A G L A A H L P	G V I A A S K T L V	
UniRef90_R6NA47	T P E Q A K E F S A D A R R N G F G A I I	A A A G M A A H L P	G A I A A N T T L	
UniRef90_K9U9F0	T P E R M V E Y A Q S A H R G L K V I I	A G A G G G A A H L P	G M V A A A L T P L	
UniRef90_H0UMH1	T P V D A Q R Y A Q N A R R R G L K A L I	A V A G L S A A H L P	G V L A S H T T L	
UniRef90_V7HZP3	V P E R L E A L L E E K E N E G F E V V I	A G A G L A A H L P	G V I A S K T L L	
UniRef90_F4H541	Q P E K M L D Y G R S A A G R G L R V V V	A G A G G G A A H L P	G M L A S V T T L	
UniRef90_R6ME63	T P E L V K D Y A E G A R D R G V D V I I	S A A G A A A H L P	G V V A A Y T T L	
UniRef90_E3HCJ0	T V D K M Y E Y A K T A D E R G I D V I I	A G A G G G A A H L P	G M V A A Y T S V	
UniRef90_K1E2B0	M P T E M L E Y Y G R G A A D R G L Q V I I	A G A G G G A A H L P	G M L A S V T T L	
UniRef90_L8GN82	T P A R L C A Y A R S A K R G L K V I I	A G A G G G A A H L P	G M T A A S M T P L	
UniRef90_S6GPA0	T P A Y T H D Y V K D A D Q R G A V A F I	C A A G M A A H L P	G A V A A A T T K	
UniRef90_UPI0004770E8E	T P I G M V E F A Q G A E E N G F D V I I	A G A G G G A A H L P	G M I A A I T T L	
UniRef90_JOY167	T P E R L Y Q F A K G A K T A G F K I I I	A G A G G G A A H L P	G M L A A L T S L	
UniRef90_UPI0004638A43	T P D K L F Y F A E Q A K H R G F K V I I	A G A G G G A A H L P	G M L A A K T T L	
UniRef90_U6B425	T P N R L I E F S N N A R F E G F K I I I	A G A G G G A A H L P	G M L A A S M T S I	
UniRef90_R9AI22	T P D R L F E Y A E T A R D R G I Q V I I	A G A G G G A A H L P	G M C A A K T D L	
UniRef90_D2AN43	T P D K M F D Y A E T A K E R G L K V I I	A G A G G G A A H L P	G M V A A K T T L	
UniRef90_A1SMF4	M P E E M L J A Y G R E A A D R G L S V I V	A G A G G G A A H L P	G M L A A S T P L	
UniRef90_A6Q757	S P E R T K N Y I K E A E E K G A Q V F I	A A A G M A A H L P	G A L A A S T I K	
UniRef90_H8GTW6	T P G L L A S Y G A R A E R L N L A C V I	A G A G G A A H L P	G M L A A F T R V	
UniRef90_Q3J6U5	T P E A T A H Y G K E A D A R G L G V F I	A A A G L A A H L P	G A V A A N T L K	
UniRef90_UPI0003811ABE	T P Q G M I D Y G T S A A S R G L K V I I	A G A G G G A A H L P	G M V A A S V T P L	
UniRef90_R6AH72	T P K K L A D F V A A E E K G V G A F I	A G A G M A A A L P	G V V A S L T L K	
UniRef90_A4SFX3	T P R D L E A Y A S S A R E R G L K A I I	A G A G G G A A H L P	G V T A A M T E L	
UniRef90_B8I494	T P D K A Q F A K N A E A D G F D V I I	A A A G K A A H L P	G V L A A Y T P L	
UniRef90_F8EQI6	T P E K M V E Y G K S A R S R G L K V I I	A G A G G G A A H L P	G M I A S L T S L	
UniRef90_W7SNG0	T P Q R M L D Y A R D A A G R G L R V I I	A G A G G G A A H L P	G M V A A S A T V L	
UniRef90_A0A059FMV5	T P D R L D Y A K S A A G R G L K V I I	A G A G G G A A H L P	G M T A A M T A L	
UniRef90_V8CFD1	S P D R T K L Y V K E A E S K G A Q V F I	C A A G M A A H L P	G A V A A Q T T K	
UniRef90_V6S4M4	V P E K L S E V I K N L G E E T G C E A I I	A G A G L A A H L P	G V I A S M T T L	
UniRef90_V4QZL9	T P Q R L Y E F A T G A K A A G Y K V I I	A G A G G G A A H L P	G M T A A S M T T L	
UniRef90_I0GNW7	T P A K V R E F V L S A P E K G I G V F I	V A A G A A A H L P	G V V A S Y T T L	
UniRef90_D5ZXX5	M P R E M I A Y G E S A A D R G L K V I I	A G A G G G A A H L P	G M L A S V T P L	
UniRef90_L0FVV3	T P R R M L D Y A E S A R Q R G L K V I I	A G A G G G A A H L P	G M V A S L T S L	
UniRef90_I7J542	T P E K M F C F A K E A E D R G T K V I I	A A A G G G A A H L P	G M V A S L S N L	
UniRef90_M5JCV6	M P D E L A H F G K Q A R E N G V G V I I	A G A G G G A A H L P	G M L A A N T T L	
UniRef90_UPI00047736E2	T P D R L F A Y A E T A A S R G L K V V V	A G A G G G A A H L P	G M I A S K T N L	
UniRef90_D1VVH9	A L D L L K N Y V E N A Q E E S E V F I	G I A G K A A H L P	G V I A G I T T R	

UniRef90_UPI0002DF4DF9 P V I G V V P V V Q S K T L N D G M L D S L L S I V Q M P A R G V P P V A T T V A I G K A G N S
UniRef90_U7Q2N7 P V I G V V P V V K A T H L D D G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I N G G A G A
UniRef90_X7Z6H0 P V I G V V P V V P S L A R Y L R D R G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A G A
UniRef90_C4GG76 P V I G V V P V V V S V S K S R A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A G A
UniRef90_B4U5F4 P V I G V V P V V K S S T A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A G A
UniRef90_Q2LR92 P V I G V V P V V D S S K A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A G A
UniRef90_UPI00047CD283 P V I G V V P V V K S S K A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A G A
UniRef90_G7VM31 P V I G V V P V V M Q S S R A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G D A G A
UniRef90_UPI000468C2B0 P V I G V V P V V I P S S R Y L K D G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A
UniRef90_I9KUM0 P V I G L V P V V I K S S I L L N G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_Q6KYZ3 P V I G L V P V V P T S R R H L N G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G N A
UniRef90_A3ZRL1 P V I G L V P V V V K S S A E S L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G P
UniRef90_W8YSA2 P V I G V V P V V L A S S S S L L K S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G H A G A
UniRef90_D5MG08 P V I G V V P V V L A S S S S L L K S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A G A
UniRef90_M4S1S4 P V I G V V P V V L A S S S K A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G R A G A
UniRef90_C7MM40 P V I G V V P V V M K T S D L L G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_R6Z6E3 P V I G V V P V V M K T S D L L G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_UPI00028899C5 P V I G V V P V V I K T A E L L N G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_F7YV09 P V I G V V P V V I K T K S A L L E G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_C7M090 P V I G V V P V V R L A A L L E G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_E8UEM9 P V I G V V P V V I P S S K Y L K D G G E D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E S G A
UniRef90_UPI00047AC439 P V I G V V P V V I K S S N I L K D G G W D S V L L S I V Q M P P A G G V V P P V A T T V A I G G L N N S
UniRef90_A0Q1J5 P V I G V V P V V I E A A V S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G L N N S
UniRef90_K7RQ77 P V I G V V P V V P S L A H L D S G M D S L L L S I V Q M P P A G G V V P P V A T T V A I G G I G N G
UniRef90_D3DFB8 P V I G V V P V V P S V S K H L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G I G N G
UniRef90_V5SE10 P V I G V V P V V I K T S T L L S S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A G A
UniRef90_E8T7B0 P V I G V V P V V I E S K A Y K G G Q D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_C3XAE4 P V I F G V P V V I P S S K Y M K G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E G A
UniRef90_UPI0004760199 P V I G V V P V V I D T G P L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E D G A
UniRef90_J5KCF0 P V I G L V P V V I E S G G M G D G T D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A
UniRef90_N1PIU0 P V I G L V P V V I K S P S I G D G T D S L L L S I V Q M P P A G G V V P P V A T T V A I G G N S
UniRef90_B7ID41 P V I G V V P V V K S N D L L G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G I D R G
UniRef90_X1SVG1 P V I G V V P V V I E T K A S L L Q G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G I G N G
UniRef90_K0C6H2 P V I G V V P V V L D A G S L L Q G Q D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K P
UniRef90_R9M0U4 P V I G I P V V L K S S T L L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_R5ES36 P V I G I P V V L K S S T L L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_F4AMJ0 P V I F G V P V V I R S S Q L L S G V D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A G A
UniRef90_C0R0J3 P V I G V V P V V I S A S N L L D G M D A L L S I V Q M P P A G G V V P P V A T T V A I G G I N N S
UniRef90_UPI0003B6BE7E P V I G V V P V V L Q S R A L L D G G M D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A G A
UniRef90_R6UJ12 P V I G V V P V V I Q T S A L L S G M D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_R7ML61 P V I G I P V V M K S S V L L D G M D A L L S I V Q M P P A G G V V P P V A T T V A I G G I N G A
UniRef90_W9DT36 P V I G V V P V V I E S K K L L K S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E D G A
UniRef90_UPI0003A2488C P V I G V V P V V I E S A A L L K S G M D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A
UniRef90_E6UD19 P V I G I P V V C K S S N L L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G D A G A
UniRef90_A5N0Q5 P V I G V V P V V L N A A A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G D A G A
UniRef90_R4V5K3 P V I G V V P V V L Q S R A L L K S G L D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G D A G A
UniRef90_Q47IX5 P V I G V V P V V Q S S K A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A
UniRef90_L7U9J2 P V I G V V P V V M P T T L L N G G L D D S L L L S I V Q M P P A G G V V P P V A T T Q A I G G K P
UniRef90_G2Y0K8 P V I G V V P V V K G S T L L N G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_R8VYV6 P V I G V V P V V I K T S M M G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_F2E6R6 P V I G V V P V V I L T K S Q L Q G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_K2JJ04 P V I G V V P V V L S S K Q L L K S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_C8PL81 P V I G V V P V V L G S S A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_UPI000420C125 P V I G V V P V V I E S K A L L S G M D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_Q892W9 P V I G V V P V V I N A S L L S G M D A L L S I V Q M P P A G G V V P P V A T T V A I G G I N S
UniRef90_R6NA47 P V I G I P V V I K S G D L L G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G D A G A
UniRef90_K9U9F0 P V I G V V P V V I A S R H L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_H0UMH1 P V I G V V P V V A S G G A L L T G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G I D G A
UniRef90_V7H3P3 P V I G V V P V V L K G A L L E G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G I G
UniRef90_F4H541 P V I G V V P V V P L R H L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_R6ME63 P V I G V V P V V I N A T A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_E3HCJ0 P V I G V V P V V K S S T A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_K1E2B0 P V I G V V P V V P L K H L D G G M D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_L8GN82 P V I G V V P V V K T S T L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G D A G A
UniRef90_S6GPA0 P V I G V V P V V I E S S L L N G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_UPI0004770E8E P V I G V V P V V C K S S A L L N G G Q D S L L L S I V Q M P P A G G V V P P V A T T F A I G G P A G A
UniRef90_J0Y167 P V I F G V P V V M H S Q S L S G Q D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_UPI0004638A43 P V I G V V P V V I H T S A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G Q T S G A
UniRef90_U6B425 P V I G V V P V V I M S Q A L L R G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K S G A
UniRef90_R9AI22 P V I G V V P V V I K S S L L L R G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G P S G A
UniRef90_D2AN43 P V I G V V P V V K S S T L L N G G Q D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G M A G A
UniRef90_A1SMF4 P V I G V V P V V P L K N L L D G G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_A6Q757 P V I G V V P V V M E S G P L L R G G E D A L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_H8GTW6 P V I G V V P V V Q S S R A L L S G Q D D S L L L S I V Q M P P A G G V V P P V A T T F A I G G E A G A
UniRef90_Q3J6U5 P V I G V V P V V M E G G Y L K D G M D A L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_UPI0003811ABE P V I G V V P V V P L K Y L L K D G M D S L L L S I V Q M P P A G G V V P P V A T T V A I G G A
UniRef90_R6AH72 P V I G V V P V V L S G A K L L D G M D A L L F S I V Q M P P A G G V V P P V A T T V A I D G T
UniRef90_A4SFX3 P V I G V V P V V I F N K K L L S G Q D D S L L L S I V Q M P P A G G V V P P V A T T V A I V D D
UniRef90_B8I494 P V I G V V P V V I K S S T L L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I V D N G A
UniRef90_F8EQI6 P V I G V V P V V K S S N I L D G G W D S V L L S I V Q M P P A G G V V P P V A T T V A I V L N G A
UniRef90_W7SNG0 P V I G V V P V V P L K Y L L D G G M D S L L L S I V Q M P P A G G V V P P V A T T V A I V S G A
UniRef90_A0A059FMV5 P V I G V V P V V Q S K A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A G A
UniRef90_V8CFD1 P V I G V V P V V L S G G V L L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G K A G A
UniRef90_W6S4M4 P V I G V V P V V K G A V L E G M D A L L F S I V Q M P P A G G V V P P V A T T V A I G G I N N S
UniRef90_V4QZL9 P V I G V V P V V P L V R D L K G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A
UniRef90_I0GNW7 P V I G V V P V V I N A T A L L N G G M D A L L S I V Q M P P A G G V V P P V A T T V A I N A G A
UniRef90_D5ZX5 P V I G V V P V V P L K H L L D G G M D S L L L S I V Q M P P A G G V V P P V A T T V A I A G A
UniRef90_L0FVV3 P V I G V V P V V I K S S N I L D G G W D S L L L S I V Q M P P A G G V V P P V A T T V A I N A G A
UniRef90_I7J542 P V I G V V P V V I K G K S L L D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I N G A
UniRef90_M5JCV6 P V I G V V P V V I Q S K A L L S G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A
UniRef90_UPI00047736E2 P V I G V V P V V I R S A A L L S G W D S L L L S I V Q M P P A G G V V P P V A T T V A I G G E A
UniRef90_D1VWH9 P V I G I P V V K S S L M D G L D D S L L L S I V Q M P P A G G V V P P V A T T V A I V N G G

UniRef90_UPI0002DF4DF9 K N A G L L A A Q Q L A A F D S S L 130 140 150 160
UniRef90_U7Q2N7 T N A A L L L A T R L G A S F T P S S L L A R K M E A Y Q R D M E Q Q V T D K A E R L
UniRef90_X7Z6H0 R N A A G L L L A V S M L G S S D P N Q L L R A R L V A D F Q D R R L A Q T S V L R A K D A E L
UniRef90_C4GG76 A N A A L L F A V S L L A N Q S D N Q L L R A Q K L M A D F R A R R L A Q T S V L R A K D A E L
UniRef90_B4U5F4 I N A A L L T A L R I L S L I E D E T L A E Q L S H F H K E Q Q G R T A E E E S T N E L
UniRef90_Q2LR92 R N A A G L L L A R I L S L I T S D A E E L H A Q R R L T V Y I D N Q M A H E S V A E K K H D D D L
UniRef90_UPI00047CD283 A N A A G L F A A A I L S L S D D A D L A A R L K E W R Q S E S V A E R P H D D D
UniRef90_G7VM31 K N A A I L L A A Q I L A L S N D N D V L Q A L N E Y R E R Q T K T S I E S E A E L
UniRef90_UPI000468C2B0 K N A A I M A T K H C A L S L Q N Q D Y E L S L N G Y T K A M H D K E S L E S G K N L
UniRef90_I9KUM0 E N A A L L L A C H I L S L K Y T Y L K K T L A D Y R E K M A E E V L N N
UniRef90_Q6KYZ3 K N A A L L L A R I L S L I K Y D K I R S Y L E K Y N N D E R N R V L N N
UniRef90_A3ZRL1 R N A A G L F A V Q I L S L S D A D L L A A K F A A F K T G L A D K I A A K D A K E L
UniRef90_W8YSA2 S N A A G L L A A Q I L G A F D P G I L R R L V E E R R E A I R L Q V L E S G A K E L
UniRef90_D5MG08 K N A A I L L A V R I L A L S D D A L R H K L Q S F K E A L A S E V E E K D R T E L
UniRef90_M4S1S4 V N A A L L L A A A L A T T D E A L A A R L D A W R A R Q T A D V A E T P E
UniRef90_C7MM40 K N A A I L L A L Q M L G I G D K T Y R D Q M A A Y K K E M A D A
UniRef90_R6Z6E3 K N A A I Y A T Q T L G A T M P E Y R D V T S K M K Q E M A E A
UniRef90_UPI00028899C5 Y N A A M L A V Q I L S N K Y P E I K E K L I D Y R K N M K K N F I K E N E
UniRef90_F7YV09 R N A A L L L A A R I L G V L K D P K V L K E K L Q
UniRef90_C7M090 T N A A G L L L A A R L L A I G E P G L A D R L L Q A Y Q A A N A E
UniRef90_E8UEM9 I N A A L L H A A A N L A M T D S S L R D K L I K Y R D N Q T S K A R S M E L P E L
UniRef90_UPI00047AC439 A N A A G L L L A A Q I L S T S S P E I T A N L I K F R E A I R L Q V L E S G A K E L
UniRef90_A0Q1J5 F N A G M L V T E I L A L K Y P E L R E K L K N Y R K N M K E K F I K E N S K
UniRef90_K7RQ77 K N A A G L L L A V R I L A S G D P E L T E K M V N Y Q T Q L R E I A T V K G E K V
UniRef90_D3DFB8 V N A A G L L L A R I L S I K Y P H I
UniRef90_V5SE10 T N A A G L L L A A Q I L A L S D A A L A A R V A D W R A D Q T A S V A E V P K
UniRef90_E8T7B0 A N A A L L L A A A L A L N D D S L A V R L D A W R A A Q T A K V A A E P T D
UniRef90_C3XAE4 A N A A L L A V I S V L A L N D D S L K D K A F R V K Q S E K V R Q A
UniRef90_UPI0004760199 T N A G Y L L A A Q I L A L S N D K D L A N R L R M D R Q A S A E A V L A K D A V L
UniRef90_J5KCF0 K N S A I L L A V Q I L A T S N A D L A R Q K L L D Y K S N M R D E V L K K D T A L
UniRef90_N1PIU0 V N A A L L L A A R I L G S A D M E I R R R V E T Y M S D S E K E V R A K D E R L
UniRef90_B7ID41 K N A A L L L A I E I L A L S D E S L S K K L K D Y R S K L
UniRef90_X1SVG1 K N A A G L M A A H I L A I E N S K I R E R L K D Y R E D M V Q K I K D
UniRef90_K0C6H2 K N A A Y L L A A Q I L G L F D E S G I V A Q R V R A D R K A S G E A V I K K N Q A L
UniRef90_R9M0U4 K N A A G L L L A A Q I L G V F D A E V A Y R L T V R K D Q M E Q A V L E K D A K I
UniRef90_R5ES36 K N A A Y L L A A Q I L A L T D K D I R D A K V K A D R E K A A K A V M D D A A L
UniRef90_F4AMJ0 A N A A G L L L A A Q V V A L H D H E R D A I I Q F R Q K Q A T A D V L A Q P A
UniRef90_C0R0J3 Y N A G M L A V E M L A L K Y S D I K N K L I A Y R Q K M K E D F I A D N E K
UniRef90_UPI0003B6BE7E K N A A I L F A A A M L A T T D P A L A E K H A F R K A Q T D S V A E E P Q
UniRef90_R6JUJ2 K N A A I L L A A Q M L A L S D E A M A E K M V A F K A S M A E K V I K D S
UniRef90_R7ML61 K N A A I L L A V Q T L A L S D E A L A E K L A E S K N A M A E G V K A K D A A L
UniRef90_W9DT36 I N A A L L L A A A I L A N N S D V D D K L K E N F R T S Q T K S V K K S P K
UniRef90_UPI0003A2488C I N A A L L L A A S L L A R G D A D L D A R V K E W R R R Q T E Q V A E T P S D
UniRef90_E6UD19 K N A A L L L A T Q M L A L S D E G L A E K L E K A K A D M I D G V K A K D A A L
UniRef90_A5N0Q5 Y N G G M L A V Q I L A L K Y P E I R E K L V E Y R K A M K K K I M E N G E G V
UniRef90_R4V5K3 R N A A L F A I A M L A A D D A A L A E R L A A F R K A Q A N K V I E D E
UniRef90_Q47IX5 A N A A L F A V A M L A N E N P A L N A K L Q A F R Q A Q T E K V L A M
UniRef90_L7U9J2 A N A A L H A A S I L A L K Y P E L R E R L A A W R K A R T D E V L A H R K
UniRef90_G2Y0K8 V N A A L L L A A R I L G A S D S A V F A K M E D Y M K M E D E V V G K K G R L
UniRef90_R8VYV6 D N A A I L L A V Q M L A I E D A A L S D Q L T K F K A D M A D E V A A K D E K V L
UniRef90_F2E6R6 E N A A G L L L A V R M L A S R D P E L S S D R V N E Y Q Q D L E D S V L V K A R L L
UniRef90_K2JJ04 A N A A G L L L A A Q I L G S S Q P D V L R Q R V Q A F R Q Q D K V M A N A
UniRef90_C8PL81 K N A A Y L L A V Q I L A L S D E V L S S K L K V D R A A K A E A L K K D S E Q I
UniRef90_UPI000420C125 K N A A G L L L A A A I L A L S D E R I S E N L E A W R E A Q T A A V A H D P R
UniRef90_Q892W9 Y N A G M L A A Q I L S L K Y E D I K I K M I D Y R I N I K E K F I N E N E Q
UniRef90_R6NA47 V N A A L L L V E I L S L S D D G L A A K L E A K R K A D A Q K V L D K D S D I
UniRef90_K9U9F0 K N A A G L L A V Q I L A A H Q P L L T K V Q K Y R Q S L A N T V M E K Q A K L L
UniRef90_H0UMH1 S N A A L L L A V R L V A L S D R D V A R L V E Y R D K N A Q K T R D S R A K L
UniRef90_V7HZP3 Y N A G I L L A A E M L A I K Y P E I R N R L I A F R K D M K E K F L E E N
UniRef90_F4H541 R N A A G L L A V R I L S A E A A R L R E A M A A F Q V G L R A Q A D A K G E R L
UniRef90_R6ME63 K N A A I F A V E I L S L K Y P L V R K L A T Y R A K M K E E V E T K A E K V
UniRef90_E3HCJ0 K N A A G I L L A A K I I S I R D K A V K E T V K K Y M A D M K E E V E T K A E K V
UniRef90_K1E2B0 R N A A G L M A A R I L A A G E G E E A A R L R E F A A D L G A Q A H A K G E R L
UniRef90_L8GN82 A N A A I L L A A S I L A A H Y A D V A A Q A L H F F R S K Q T L A V A E P
UniRef90_S6GPA0 K N A A Y L L A A Q I L M A V A D P A L A E R V R L D R A T S A Q A V I A K D K A L
UniRef90_UPI0004770E8E A N A A G L L F A V S M L A G R S P E L N A K R L K A Y R E E M V E M V A Q M
UniRef90_J0Y167 I N A A L L L A A A V M A I Y D D N L A K R L Q D W R Q Q T S S V A Q T P
UniRef90_UPI0004638A43 I N A A L L L A A Q I L A I N D D K I H I A L T Q W R N Q Q T S S V L A N S N
UniRef90_U6B425 I N A A L L L A I A L L S D E N T E R L D D W R N Q Q T S S V S N Y P K D
UniRef90_R9AI22 T N A A I M A A Q I L G L T P E I A E N V A N F R A A Q T E K V A S N N
UniRef90_D2AN43 K N A A L F A A S I L Q H T D I N I A K A L A E F R A E Q T R F V L E N P D
UniRef90_A1SMF4 R N A A G L L A V R I L A A T D P E L Q D K M R A F Q A E L A R T T A H K G S E A V
UniRef90_A6Q757 V N A A Y L L A I Q I M A L Q D D E L K V K L Q E D R I S K A K V E L D S S E I
UniRef90_H8GTW6 R N A A L F A A A L L A T T D P D V R G R L E A F R Q A Q T R A V L D D P
UniRef90_Q3J6U5 K N A A Y L L A A Q I L G I T D T A L A Q R L L S D R Q S A M A D A I L A K A N V L
UniRef90_UPI0003811ABE K N A A G L L A A R I L G A D A G L Q T K L V A Y Q A S L A E M V A E K D A G L
UniRef90_R6AH72 K N A A F L A V E I G A V S D P D L F Q K Y K A Y R E K A A K E I F E K D A K L
UniRef90_A4SFX3 R N A A L L L A V Q I M A L S D E K L M D A L V A D Y R G K L A D A S R Q K T A K I
UniRef90_B8I494 E N A A L L L A I Q I L S V A Y H E R H K M I D Y
UniRef90_F8EQI6 R N A A G I L L A A Q I I G T S N E T M G T I L D R Y
UniRef90_W7SNG0 R N A A G L L L A V R I L L A A A D P A L Q A R M A R F Q A D L E Q L V L E K D D A L
UniRef90_A0A059FMV5 V N
UniRef90_V8CFD1 V N A A Y L A M Q I L A L A N T D I A E K L L A D R A V K I E Q I E K D S K S I
UniRef90_W6S4M4 Y N A G M I A A Q I L G V K A D P E I K D K L E K Y R K D M K V N F I R D N E E
UniRef90_V4QZL9 K N A A G L L A A Q I L A L A D P A L A E R L E A L R Q A Q T D S V P D T V E D
UniRef90_I0GNW7 K N A A I F A V Q I F A V S N Q E L A G K L A A Y R E K M V E D V E K K A A R V
UniRef90_D5ZXX5 R N A A G L L A V R M L A A H D E E L L G R M R D F Q Q D L N D Q A T E K G K R L
UniRef90_L0FVV3 K N A A G I L L A A S M V G A Y D A K V
UniRef90_I7J542 A A I L L A V K I L A T F D E D L M N K L K D Y K R E L E E D V F N M S K R L
UniRef90_M5JCV6 K N A A G Y L A G Q M L S I Q D S I L T E K I E A F R L A Q R Q A A I E S E A R
UniRef90_UPI00047736E2 A N A A G L L A V Q I L A A F D S S G R L A L W R A E Q T A S V P E T V E D
UniRef90_D1V1VH9 E N A A I L L A V Q M L S L K D Q E L Q R K L D N F K K T M A E K I K N

UniRef90_UPI0002DF4DF9	
UniRef90_U7Q2N7	R
UniRef90_X7Z6H0	Q
UniRef90_C4GG76	
UniRef90_B4U5F4	
UniRef90_Q2LR92	
UniRef90_UPI00047CD283	
UniRef90_G7VM31	
UniRef90_UPI000468C2B0	
UniRef90_I9KUM0	
UniRef90_Q6KYZ3	
UniRef90_A3ZRL1	Q
UniRef90_W8YSA2	
UniRef90_D5MG08	Q
UniRef90_M4S1S4	
UniRef90_C7MM40	
UniRef90_R6Z6E3	
UniRef90_UPI00028899C5	
UniRef90_F7YV09	
UniRef90_C7M090	
UniRef90_E8UEM9	
UniRef90_UPI00047AC439	E
UniRef90_A0Q1J5	
UniRef90_K7RQ77	R
UniRef90_D3DFB8	
UniRef90_V5SE10	
UniRef90_E8T7B0	
UniRef90_C3XAE4	
UniRef90_UPI0004760199	Q
UniRef90_J5KCF0	
UniRef90_N1PIU0	
UniRef90_B7ID41	
UniRef90_X1SVG1	
UniRef90_K0C6H2	Q
UniRef90_R9M0U4	Q
UniRef90_R5ES36	Q
UniRef90_F4AMJ0	
UniRef90_C0R0J3	
UniRef90_UPI0003B6BE7E	
UniRef90_R6UUI2	
UniRef90_R7ML61	Q
UniRef90_W9DT36	
UniRef90_UPI0003A2488C	
UniRef90_E6UD19	Q
UniRef90_A5N0Q5	E
UniRef90_R4V5K3	
UniRef90_Q47IX5	
UniRef90_L7U9J2	
UniRef90_G2Y0K8	E
UniRef90_R8VYV6	R
UniRef90_F2E6R6	E
UniRef90_K2JJ04	
UniRef90_C8PL81	E
UniRef90_UPI000420C125	
UniRef90_Q892W9	
UniRef90_R6NA47	E
UniRef90_K9U9F0	E
UniRef90_H0UMH1	
UniRef90_V7HZP3	
UniRef90_F4H541	R
UniRef90_R6ME63	
UniRef90_E3HCJ0	E
UniRef90_K1E2B0	R
UniRef90_L8GN82	
UniRef90_S6GPA0	Q
UniRef90_UPI0004770E8E	
UniRef90_J0YI67	
UniRef90_UPI0004638A43	
UniRef90_U6B425	
UniRef90_R9AIZ2	
UniRef90_D2AN43	
UniRef90_A1SMF4	R
UniRef90_A6Q757	E
UniRef90_H8GTW6	
UniRef90_Q3J6U5	E
UniRef90_UPI0003811ABE	Q
UniRef90_R6AH72	Q
UniRef90_A4SFX3	R
UniRef90_B8I494	
UniRef90_F8EQI6	
UniRef90_W7SNG0	R
UniRef90_A0A059FMV5	
UniRef90_V8CFD1	E
UniRef90_W6S4M4	
UniRef90_V4QZL9	
UniRef90_I0GNW7	
UniRef90_D5ZXX5	R
UniRef90_L0FVV3	
UniRef90_I7J542	
UniRef90_M5JCV6	
UniRef90_UPI00047736E2	
UniRef90_D1VVH9	

UniRef90_A4A7Q6
UniRef90_R5XZ56
UniRef90_R4X882
UniRef90_F2I376
UniRef90_L1M1LS1
UniRef90_UPI0003602348
UniRef90_UPI00037C5C3A
UniRef90_A4X3F8
UniRef90_J0L755
UniRef90_Q7NL75
UniRef90_C7RD69
UniRef90_D2PKN8
UniRef90_Q0F114
UniRef90_W0SHD2
UniRef90_N9Y136
UniRef90_C5RAY3
UniRef90_UPI000363DDE4
UniRef90_C9LRY0
UniRef90_A9AFV4
UniRef90_UPI0002624C63
UniRef90_Q83H35
UniRef90_W7QBW5
UniRef90_E4TWK9
UniRef90_R7L9C0
UniRef90_R7PUE1
UniRef90_R7DED7
UniRef90_U2RX57
UniRef90_E6U6P2
UniRef90_F8IBX9
UniRef90_D7JFA7
UniRef90_F4NZ40
UniRef90_R6MT95
UniRef90_UPI000377BA52
UniRef90_UPI0003686058
UniRef90_D1AW68
UniRef90_X0VRU1
UniRef90_UPI0003B5692B
UniRef90_I6XYC4
UniRef90_UPI00036D39C5
UniRef90_A9AYG0
UniRef90_UPI0003B5945B
UniRef90_UPI000372A48F
UniRef90_I3IIW3
UniRef90_UPI000372ADA1
UniRef90_K2ENK8
UniRef90_UPI0003A64C1D
UniRef90_A6DT41
UniRef90_Q2KW02
UniRef90_UPI00036C384B
UniRef90_F6BAH5
UniRef90_C6CQB2
UniRef90_E3DMB7
UniRef90_K0B962
UniRef90_K2QFG9
UniRef90_F3YU09
UniRef90_E8WRV1
UniRef90_V9KJU9
UniRef90_L8G464
UniRef90_A3Z362
UniRef90_UPI000370FB4F
UniRef90_A0Z8A2
UniRef90_A6P0X5
UniRef90_F2NE16
UniRef90_UPI0001926A10
UniRef90_T1A6A5
UniRef90_G1UVC5
UniRef90_C8S315
UniRef90_I5AS14
UniRef90_K1L186
UniRef90_H0E2L2
UniRef90_K0CAG5
UniRef90_K1LFW0
UniRef90_W7Q9V2
UniRef90_D0J8W2
UniRef90_T1CLY6
UniRef90_F5TB41
UniRef90_C7QZV1
UniRef90_K6QFB9
UniRef90_E5Y7W8
UniRef90_K11WWJ7
UniRef90_G7W7X0
UniRef90_A8EW80
UniRef90_L7W7D9
UniRef90_C9RB42
UniRef90_H7EHA4
UniRef90_F4MMW9
UniRef90_B3V646
UniRef90_A0A011SPL5
UniRef90_UPI0003B33736
UniRef90_W1TS31
UniRef90_M2MWC3
UniRef90_E1WQP1

1 10 20 30 40

V R V G I I M G S D S D L P V M R A A R D L L D M L E V A C E M E I V S A H R R
K V G I I M G S D S D L P I V Q K A I D T L K A F N V P Y E V H I F S A H R R
V K V L V C M G S T S D G P S M Q A C C D T L K K E F G V G Y H K E V L I S A H R R
P L V S I I M G S T S D L P V M E K A A Q L L D E L L Q E I P F E I N A L L S A H R R
G V V M G S T S D Y W A T M E R A V D V L L K E F G V P F E A R V V S A H R R
M K V A V I M G S K S D D Y P K L E E G I N F L D K R R H S V E V I V R V L S A H R R
V G L I M G S D S D D W P T M R A A A E A L L D E F G V A Y E V E V L S A H R R
V S I L M G S K S D D Y E V M K N A S D V L Q T K F G V K F E I V I S S A H R R
V G I I M G S D S D D P T M K A A A E V C T T E F G V P C G S V A I V S S A H R R
D V R I I M G S A S D D V E I A K K V T S I L K D F D I D Y Q V S V I S A H R R
M T V G I V M G S D S D D W P V M K A A A E V C D E F G V P F E A D V L S A H R R
S L K V L I L M G S K S D D M P I M Q K A A E A V L L D E F G V T Y K T L V R S A H R R
P L V G I V M G S D S D D W P V M Q A A A A M L K E F G V P F E A K V V S A H R R
M K V A I F F G S K S D D T D V M K G A A S A L K E F G V D Y K A F V L S A H R R
E V A V L M G S I S D D W S T M K L T C E Q L E N L G I S Y E K H V I S A H R R
P L V G I I M G S D S D L P V M K P A A D I L R D F E I E F E L T V V S A H R R
M K A A A L F M G S D S D D W P I M K P A V E L L K E F G V E V D V L V A S A H R R
A P L V G V L M G S S D S D W D V M K P H A V A I L L K E F G V P Y E A K V V S A H R R
P L V G V L M G S S D S D W E V M V A A T E Q L Q A L N I P H E K R V V S A H R R
V W L L M G S D S D D W P V M S G A A D I L Q Q M N I S F R V N V S A H R R
P R V G V I M G S K S D D W P V M E H A V A M L E R R L G V P Y E T R V V S A H R R
V S I I M G S K S D D F D V M K S C S Q T L E E F G V Q Y E L I S S A H R R
P L V S I V I G S M S D D W D V M K N C A S T L E K F G V P Y E R N V A S A H R R
M H V A I V M G S D S D L S V M K K A V E I L L N Q F E V T Y D V A L A S A H R R
P I V S I I M G S T S D L P I M E K A A Q L L N D F E I P F E M N A L S A H R R
P L V S V V M G S D S D D W S V M K G A S R L L T E F G V A H E V E V S A H R R
K V A V I M G S D S D L P V V M Q G C L T T L K E F G V P F E V H V C S A H R R
V A I A M G S R S D D W E T M K H T A E I L R D L A V P H T V H V L S A H R R
P K V S I I M G S T S D L P V M E K V A K I L K E F E V P F E M N A L S A H R R
S P L V G V I M G S D S D L P A M R A A A L I L K D E F G V P F E L T I V S A H R R
P K V A L I M G S D S D F E K L K S C V A K L K E F K I E V D V N V I S A H R R
P L V G I I M G S K S D D W P T M E H A A Q M L D N L G V A Y E T Q V V S A H R R
P L V G I L M G S D S D F S V M E A S K V L E N F S I N H E V I V S S A H R R
M Q V A I I F G S R S D D L N V M K G A S N V L K E F D I K Y E A F I L S A H R R
A P L V G I L M G S K N D W E T M K A A A M L N E F G V P N E S R A I S A H R R
U P I 0 0 0 3 B 5 6 9 2 B A P L V G V I M G S D S D F S V M S D A L Q A L R E F N V P C E E V R V V S A H R R
D V A I L M G S D S D D W P T M Q A A A E A L L E E F G V S Y R A D V V S A H R R
P L V S I I M G S T S D L P T M E N A A Q F L N E M E I P F E M N A L S A H R R
P L V G I V M G S D S D L L T T M Q A A A T I C Q N E F G I G Y E M R V V S A H R R
A P L V G V V M G S R N D W D T M Q H A V A R L E Q L G V P H E V Q V V S A H R R
A P L V G V V M G S D S D L P T I M K E A V D A L R E F G I P H E V V I S S A H R R
K I I V M G S D S D L L T I M R E A I N I L K E F G I D F D V N I S S A H R R
V G I I M G S Q S D D W P T L K G A A D V L D E L Q V P W E A R I V S A H R R
P L I C A I I M G S G S D D K P T M L K A A K V L D K L G I G Y E V R I T S A H R R
V R I A I I V G S K S D L P T I V E G A R P Y W E Y F G L E C D L K I T S A H R R
P L V G I I M G S D S D L P V M D A A R E I M K E F D V P Y E I T I V S A H R R
G V I F M G S S D D W E V M K N A V A M L E S F G V P F E A R V V S A H R R
P Q V A I I M G S A S D E E T M R P C T Q L L D Q K I S Y I F T V S S A H R R
I C A I I M G S E S D L K I A E K A V N V L K E F G V E F E V R V A S A H R R
K I A I V M G S K S D D W A T M Q F A A E I L T T L N L P Y E H V E V V S A H R R
K I G I I M G S D S D L P V M K E A A E I L D H F K I E Y E L T V V S A H R R
P L V G I I M G S S D S D S R I M Q G A A E I L D E Y K I K H E D Q I V S A H R R
P K V M I I L G S A S D D F K L A E K A T A I L D E K L G I Y Y D L V A S A H R R
K V A I F M G S I S D E E T V R P C K D V L D E K L G I E C V Y T V T S A H R R
S P T V L I L M G S D S D L T T M E E T A R V L T E F G V P Y E M H I S S A H R R
S G R V V I M G S T S D D L K H S Q K K Q A C G N Y G I P C E L R V S S A H R R
P T V G V I M G S D S D L K T L P G L R L L D Y F G I A P E V E I T S A H R R
A V I M G S D S D L P T L Q P A V E V L E R L G V A V E V R V L S A H R R
V G V I M G S R N D Y A V M R G T V E V L K E F G I T H E V K V V S A H R R
S K K V A V I M G S D S D L E T M R P C V K R L K S F G I P C A V R V I S A H R R
V Q V G I V L G S A S D D W P E V E P A V Q L L H N W G I T Y E V L V A S A H R R
R V V I I M G S S D L P H A Q K I E A K L K T L G V N C E L R I S S A H R R
P W V G L V M G S Q S D W T V M E E A A Q M L T R F E V P F E A Q V T S A H R R
V V I L M G S K S D D E E K V S P C V D V L K S L G I D Y V F T V S A H R R
K V G I V M G S D S D M G A M S K A A A Q L E E F G I E Y E M R I V S A H R R
M R V S I I M G S L S D K E V A D K V V R K L I E F G V D Y D V R V V S A H R R
A P R V G I I M G S K S D L P E M E K A G A V L K E H N A F E I R V M S A H R R
V S V V M G S D S D W E Q M K S C C Q L L D Q L G I P Y D K A V V S A H R R
M K V A I F C G S I S D K S T M Q I A E E V L N K F N I N N K T Y V I S A H R R
P L V S I I M G S T S D L P I M E K K A A K R L E E M E I P F E M L A L S A H R R
M K V A V I M G S I S D D K D I A K K T C D I L L K F F G I K Y D A R V I S A H R R
P V V G I V M G S D S D D W P T M E A A A S A L D E F E I P Y E V D V V S A H R R
A P R V G I L M G S D S D D L P T L R E T F A V L D E E L D I P F E A T V A S A H R R
K V A V F I G S A S D D E A T V A P C A D I L K E K L G I P F R F T V T S A H R R
P L V A V T M G S D S D L P I L K P G I A L L K A L G I P Y L V T I T S A H R R
Q I G V I M G S D S D L N V M E D A I K I L R Q F E L D Y E V K I S S A H R R
V S I I M G S K S D D Y E I M K N C A D T F A K F N V K Y E M I S S A H R R
M G S T S D L P V M Q D A I D V L L K E L E I E I Q V D V V S A H R R
P L V G I V M G S D S D L P V M K G A A E A L L K E L Q I P F E L R I V S A H R R
M K V A I F F G S K S D D T E V M K K A A D V L R E F G V D F K A Y I S A H R R
M G S T S D M P V M K K A A E F F N E M E I P F E I N A L S A H R R
S K K V A V I S G S K S D S N I T D S I G K I F S D D F G I A H E I V V S A H R R
V G V I M G S R S D W E T M E H A A R M L G E L G V P Y E T R V V S A H R R
M D V A V I F G S A S D D K E K M A G A A K C D E F G L E Y K A Y I A S A H R R
P P V A V I M G S D S D L N E L R P G A L L K D T F N I P H A V R L S A H R R
P I V S I I M G S T S D L P V M E K A A Q L L N D L H V P F E M N A L S A H R R

UniRef90_A4A7Q6 T P D K L Y T Y A R E A E E R G L R V I I A G A G G A A H L P G M V A S L S V 80
UniRef90_R5XZ56 T P G E A A K F A Q N T A Q E N G G F G V V L I A A A G G M A A H L P G M I A A A Q T S V L
UniRef90_R4X882 T Q P A K L R E F A W A T T A H E K E N G Y S V V I A A A G G G S A H L P G M I A A S M S T S L
UniRef90_F2I376 T P D R M Y A F A K T S A E K E N G Y S V V I A A A G G G S A H L P G M I A A S M S T S L
UniRef90_L1MLS1 T P A E V E K F A R E A K E R G E R G L R V I I A A A G G M A A A L P G G V I A A A N T T L
UniRef90_UPI0003602348 T P D L L E F E Y A E N A R E D N E V D V I I A A A G G G A A H L P G G M L A A A N T P V I
UniRef90_UPI00037C5C3A T P R E L L E F A F I G G I D N E V D V I I A A A G G K A A H L P G V I A A A N T L I
UniRef90_A4X3F8 T P D R M I D Y G R V A A D Q G L K V I I A A A G G G A A H L P G M V A S V T P L
UniRef90_J0L755 S P D R T K K Y V R D A E E K R G L K V I I A A A G G M A A H L P G M V A A I T T K
UniRef90_Q7NL75 T P E R M F E F A A T A H S R G L K V I I A A A G G G A A H L P G M V A A I T T P L
UniRef90_C7RD69 A L D L L E E T I K K D D C S V Y I G I A G M A A H L P G V M A G M T I K
UniRef90_D2PKN8 M P V E M L D S V K R S A H E R A G L K V I I A A A G G G A A H L P G M L A A A V T P L
UniRef90_Q0F114 T P E A T M Q S V K D A E A A A G C G V F I A G A G M A A H L P G V V C S K T V R
UniRef90_W0SHD2 T P D L L F D Y A A M A Q E R D L R A I I A A A G G G A A H L P G M L A A A K T I V
UniRef90_N9Y136 V P E K L E E T I K E I E K E G C E V I I A A G G L A A H L P G V I A S A N T V L
UniRef90_C5RAY3 M P N E L Q E F I G K E N A R E R G G Y K V I I A A A G G G A A H L P G M I A A A N T T L
UniRef90_UPI000363DDE4 T P L R M V D Y A K S A K E R G L K V I I A A A G G G A A H L P G M V A A I T T P L
UniRef90_C9LRY0 T P A K V H E Y A E N A R E R G L G V I I A A A G G G A A H L P G V I A A S Y T T L
UniRef90_A9AFV4 M P D E M F D Y A E A K A R E R G L R A I I A A A G G G A A H L P G M L A A A L T T V
UniRef90_UPI0002624C63 T P D L L F D Y A A T A A S R G L R C I I A A A G G G A A H L P G M L A A A K T T L
UniRef90_Q83H35 Q P E K M L S C A K S A R D M G F K V I I A A A G G G A A H L P G M L A S S Q T T L
UniRef90_W7QBW5 T P D L L F D Y A K R S A A E R G L K V I I A A A G G G A A H L P G M V A S S Q T A L
UniRef90_E4TWK9 S P E R T K D Y I A K A E A K G A Q V F I A A A G M A A H L P G V L S S K T V K
UniRef90_R7L9C0 T P E K A C Q I S S T A Q E S R G I K V M I A A A G G M A A H L P A G V I A A H T Q L
UniRef90_R7PUE1 T P E K L I D F V E T S Q E K G V A V F I A A A G G M A A H L P G V V A S L T T K
UniRef90_R7DED7 T P V E V E Q F A K N A E S R G I K V I I A A A G M A A H L P G V I A S M T T T L
UniRef90_U2RX57 T P V K M L D F G T A A A G R N G V I I A A A G G A A H L P G M L A A A V T T L
UniRef90_E6U6P2 T P G K A A A F A K S A A E N G F G V L I A A A G M A A H L P A G A M A A Q S V L
UniRef90_F8IBX9 T P D R M L D F A R E A A D H G Y R V I V A A A G G A A H L P G M M A T V T L L
UniRef90_D7JFA7 T P D Q V A E F A A S A D K R G I E V I I A A A G G M A A H L P G V I A A S T S L
UniRef90_F4NZ40 T P D R M M E Y A K S A H E R G L K V I I A A A G G G A A H L P G M V A A I T T P L
UniRef90_R6MT95 T P D K A A E F A K N A E K N G I E V I I C A A G M A A H L P G V I A A H T T V
UniRef90_UPI000377BA52 T P D K L T F E Y A K T A E D K L K V I I A A A G G A A H L P G M V A A S Q T A L
UniRef90_UPI0003686058 S P E R T R K Y V V G A S K R G I K I I A A A G G A A H L P A G V I A A E T T L
UniRef90_D1AW68 V P E L L E E T I K E I E K G C E V I I A A A G L A A H L P G V I A S K T I L
UniRef90_X0VRU1 S P D L V A D Y A K T A E S R G V E V I I A A A G M A A H L P G V V A A A M T P L
UniRef90_UPI0003B5692B T P E G M L D Y A R A A A D R G L K V I I A A A G G G A A H L P G M V A S L T P L
UniRef90_I6XYC4 M P E E M V A F G R S A H E Q G F K V I I A A A G G A A H L P G M L A A L T P L
UniRef90_UPI00036D39C5 T P A E E V E K F A K S A K D R G I K V I I A A A G M A A H L P G V I A S M T T L
UniRef90_A9AYG0 T P A L M A E Y G Q T A H E R G L K V I I A A A G G G A A H L P G M L A A S Y T P L
UniRef90_UPI0003B5945B T P D L L F Q Y A E T A A A R G L R A I I A A A G G G A A H L P G M I A A A K T V V
UniRef90_UPI000372A48F V P E K T A E Y A R T A A A Q R G L E V I I A A A G G A A H L P G V I A A L T P L
UniRef90_I3IHW3 S P E R A H A Y S T E A E K N Y E I I I A G A G G A A H L P A G V I A S L T P I P
UniRef90_UPI000372ADA1 T P D R L W S Y A P E A A A R G V R V I V A A A G G A A H L P G M M A S K T R M
UniRef90_K2ENK8 T P E R T Q G L I T E M L G K G I K I I A A A G G M A A H L P A G T V A A Q T V L
UniRef90_UPI0003A64C1D Q P T E L S A Y I L Q E A E A Q G I E I F I A C A G M A A H L P G V I A A A Q T H R
UniRef90_A6DT41 T P D K L Y K Y S E S A V E R G L E V I I A A A G G A A H L P G M V A A I S P L
UniRef90_Q2KW02 M P Q D M A E Y G A V A R Q R G L R A I I A A A G G A A H L P G M M A A L T E V
UniRef90_UPI00036C384B T P E R T E H L V D T L E A D G C Q V F I C A A G M A A H L P A G A V A A R T L K
UniRef90_F6BAH5 T P E L V E E L V K N S N A K V F I A I A G L A A H L P G V I A S L T T K
UniRef90_C6CQB2 T P D K L F S F A E Q A D N G F D V I I A A A G G G A A H L P G M L A A K T L V
UniRef90_E3DMB7 T P K R L N D Y A Q T A A K N G L K V I I A A A G G G A A H L P G M V A A V S N L
UniRef90_K0B962 T P A R L A E Y A K H A E K M G F K I I I A A A G G A A H L P G M I A S H T T I
UniRef90_K2QFG9 T H E K R V K N I V L T A T K S G V E V F I G I A G L S A H L P G I M A G I T H K
UniRef90_F3YU09 T P D R T A E L V D D L E S Q G C Q V Y I C A A G M A A H L P A G A V A A R T I R
UniRef90_E8WRV1 S P A K T S K L A G E A A S R G I Q L I I A A A G M A A H L P A G V I A A E T P L
UniRef90_V9KJU9 G P D E T L R L K A E Y E G D Y P T V F V A V A G R S N G L P V L S G N T T Y
UniRef90_L8G464 T P E Y M A T Y S S T A A G R G I K V I I A A A G G A A H L P G M A A A Y T A L
UniRef90_A3Z362 T P L E M V D F A S Q A A R D R G L R V I V A A A G G A A H L P G M V A S L T T L
UniRef90_UPI000370FB4F T P D L L F E Y A A D T A A A R G L R V I I A A A G G G A A H L P G M I A A A K T V V
UniRef90_A0Z8A2 T P D R L Y A Y A R E A R G R G L K A I I A A A G G G A A H L P G M C A A M T P V
UniRef90_A6P0X5 T P A A A E D F A S H A E E N G F G V I I A A A G K A A H L P A G V L A A Y T T L
UniRef90_F2NE16 S P V R V Q T Y A S Q A A G R G L Q V I I A V A G A A H L P A G V L A S E T T L
UniRef90_UPI0001926A10 T E K T I D V I R Y E S D V P T V F I A V A G R S N G L P V L S G N T T Y
UniRef90_T1A6A5 T P D R M F R Y A E E A R D R G L N C L I A A A G G A A H L P G M L A S K T T L
UniRef90_G1UVC5 T P E R T E A L G V R D E E A K G A R V F I C A A G M A A H L P A G A V A A R T S R
UniRef90_C8S315 T P D R L Y G Y G K T A V D R G L K V I I A A A G G G A A H L P G M M A S K T R L
UniRef90_I5AS14 Q P D E L V I E W A R S A E D R G I K V I I A A A G M A A A L P G M C A A L F S L
UniRef90_K1L186 A I N T L Q D Y V K E A E K T S Q V F I G I A G K A A H L P S G V I A G L T T R
UniRef90_H0E2L2 D P E V V A D Y C K N A R M R G L R V I I A A A G L S A A H L P G V I A A H T D L
UniRef90_K0CAG5 T P E R L F E F S R N A A D E G Y R I I I A A A G G A A H L P G M I A S M T P L
UniRef90_K1LFW0 M P D E M I Q H A K T A Q K G Y Q V I I A A A G G A A H L P G M L A S Q T L L
UniRef90_W7Q9V2 T P D L L F D Y A R S A A E R G L Q V I V A A A G G G A A H L P G M V A S Q T P L
UniRef90_D0J8W2 L P D I L S N T I K K I E S K G M E L I I A A A G L S A H L P G V I S S K T I L
UniRef90_T1CLY6 T P L E V E Q Y A R L A H E R G I R L I I V A A A G M A A H L C G V I A A Q T A
UniRef90_F5TB41 S L D F A I D F V N K M E E N N I E L I I A F A G K A A H L P A G V L A G I S T V
UniRef90_C7QZV1 M P T E M V D Y G T T A H E R G L E V I I A A A G G A A H L P G M L A S V T P V
UniRef90_K6QFB9 T P E R V A H Y A T T A S E R G L E V I I A A A G S A A H L P A G V V A A H T L L
UniRef90_E5Y7W8 T P E R T A E L V D S L E A A G C E V F I C A A G M A A H L P A G A V A A R T M K
UniRef90_K11WWJ7 T P H R M I E F A E T A A D K G F K V I I A A A G G A A H L P G M V A S S T Q L
UniRef90_G7W7X0 A L E R T V D V W K G F A E A Q G G K V I I A A A G L A A H L P G V V A A G A T L
UniRef90_A8EW80 S P E R T K E Y V K E A E E K G A V A F I A A A G M A A H L P A G A L A A T T T K
UniRef90_L7W7D9 T P E K M F E F G K T A H E K G I A V I I A A A G G A A H L P G M V A S L S P L
UniRef90_C9RB42 S P A Q A L E Y A R T A A E R G L K V I I A A A G G A A H L P G L L A A L T P L
UniRef90_H7EHA4 A G A L L A R T V R Q V E S D G C E V I I A A A G L A A H L P G V I A S E T V L
UniRef90_F4MMW9 T P N L V E V F A T N A K K N G I K V I I A A A G G A A H L P G V V A A F T S V
UniRef90_B3V646 N D D E L Q E Y V S N S D A D I F I G V A G L S A H L P G V L S A L T T K
UniRef90_A0A011SPL5 T P D K L L R Y G R E A R E R G L K I I I A A A G G G A A H L P G M L A S V T A L
UniRef90_UPI0003B33736 T P D L L F D Y A G N A A A R G L K V I I A A A G G A A H L P G M A A S K T R L
UniRef90_W1TS31 V P E L L E N L L K E A V D S G A K A I I A A A G L A A H L P G V I A S K V T I
UniRef90_M2MWC3 T P T W M A D F A S T A A N G V Q V I I A A A G G A A H L P G M A A H T T L
UniRef90_E1WQP1 T P E A V E F A K N A A S R G I K V I I A A A G M A A H L P G V I A A S T P L

UniRef90_A4A7Q6
UniRef90_R5XZ56
UniRef90_R4X882
UniRef90_F2I376
UniRef90_L1MLS1
UniRef90_UPI0003602348
UniRef90_UPI00037C5C3A
UniRef90_A4X3F8
UniRef90_J0L755
UniRef90_Q7NL75
UniRef90_C7RD69
UniRef90_D2PKN8
UniRef90_Q0F114
UniRef90_W0SHD2
UniRef90_N9Y136
UniRef90_C5RAY3
UniRef90_UPI000363DDE4
UniRef90_C9LRY0
UniRef90_A9AFV4
UniRef90_UPI0002624C63
UniRef90_Q83H35
UniRef90_W7QBW5
UniRef90_E4TWK9
UniRef90_R7L9C0
UniRef90_R7PUE1
UniRef90_R7DED7
UniRef90_U2RX57
UniRef90_E6U6P2
UniRef90_F8IBX9
UniRef90_D7JFA7
UniRef90_F4NZ40
UniRef90_R6MT95
UniRef90_UPI000377BA52
UniRef90_UPI0003686058
UniRef90_D1AW68
UniRef90_X0VRU1
UniRef90_UPI0003B5692B
UniRef90_I6XYC4
UniRef90_UPI00036D39C5
UniRef90_A9AYG0
UniRef90_UPI0003B5945B
UniRef90_UPI000372A48F
UniRef90_I3IHW3
UniRef90_UPI000372ADA1
UniRef90_K2ENK8
UniRef90_UPI0003A64C1D
UniRef90_A6DT41
UniRef90_Q2KW02
UniRef90_UPI00036C384B
UniRef90_F6BAH5
UniRef90_C6CQB2
UniRef90_E3DMB7
UniRef90_K0B962
UniRef90_K2QFG9
UniRef90_F3YU09
UniRef90_E8WRV1
UniRef90_V9KJU9
UniRef90_L8G464
UniRef90_A3Z362
UniRef90_UPI000370FB4F
UniRef90_A0Z8A2
UniRef90_A6P0X5
UniRef90_F2NEI6
UniRef90_UPI0001926A10
UniRef90_T1A6A5
UniRef90_G1UVC5
UniRef90_C8S315
UniRef90_I5ASI4
UniRef90_K1L186
UniRef90_H0E2L2
UniRef90_K0CAG5
UniRef90_K1LFW0
UniRef90_W7Q9V2
UniRef90_D0J8W2
UniRef90_T1CLY6
UniRef90_F5TB41
UniRef90_C7QZV1
UniRef90_K6QFB9
UniRef90_E5Y7W8
UniRef90_K1WVJ7
UniRef90_G7W7X0
UniRef90_A8EW80
UniRef90_L7W7D9
UniRef90_C9RB42
UniRef90_H7EHA4
UniRef90_F4MMW9
UniRef90_B3V646
UniRef90_A0A011SPL5
UniRef90_UPI0003B33736
UniRef90_W1TS31
UniRef90_M2MWC3
UniRef90_E1WQP1

P V I G V P V A A T K L Q G Q D S L L S T V Q M P A S G V P P 110 T V A I D N A
P V I G V P V I C K N S T S L L D D G G L I D D A L L S S T V Q M P P A S G V P P 110 T V A I D N A
P V I G V P V I I E N A S T S L L K G L L D D S L L S S I V Q M P P R K G V P P 110 T V A I D N A
P V I G V P V I K S T S L L K G L L D D S L L S S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I A K S S R H T K K G L L D D S L L S S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I V I A S S T M D G G L L D D S L L S S M V Q M P P S K G I P P 110 T V A I D N A
P V I G V P V I P L K Y L L D G G M D S L L S S I V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I M D A S S L L Q G G N D A L L S S I V Q M P P A G G M P P 110 T V A I D N A
P V I G V P V I V V T A S L L L Q G G V D A L L Y S S I V Q M P P A G G M P P 110 T V A I D N A
P V I G V P V I V G G S N T A G G L D D A L L S S M V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I P L K Y L L D Q G G M D S L L S S I V Q M P P A G G M P P 110 T V A I D N A
P V I G V P V I A S G P L P L N G G L D D S L L S S I V Q M P P K G S I P P 110 T V A I D N A
P V I G V P V I P S K H L N G G L D D S L L S S I V Q M P P K G S I P P 110 T V A I D N A
P V I G V P V I K K A A T L V L N G G L D D S L L S S I V Q M P P K S G L P P 110 T V A I D N A
P V I G V P V I I K T R T L N G G V D S L L S S I V Q M P P A G G L P P 110 T V A I D N A
P V I G V P V I K S S N I L D G G W D S L L S S I V Q M P P A N G V P P 110 T V A I D N A
P V I G V P V I V A S T P L N G G L D D A L L S S I V Q M P P S G G V P P 110 T V A I D N A
P V I G V P V I V A S T P L N G G V D S L L S S I V Q M P P K G G V P P 110 T V A I D N A
P V I G V P V I V P S R R H L N G G M D S L L S S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I V G Q K N L L D D S L L S S I V Q M P P S G G V P P 110 T V A I D N A
P V I G V P V I V E S K A L L K G L D D S L L S S I V Q M P P G G L A V A G T T V A I D N A
P V I G V P V I M S A S A L L N G G L D D A L L S S T V Q M P P A G G M P P 110 T V A I D N A
P V I G V P V I M V G W A T T D D G M D S L L S S T V Q M P P R G G M P P 110 T V A I D N A
P V I G V P V I L S G N T L L D G G M D A L L S S I V Q M P P S S G M P P 110 T V A I D N A
P V I G V P V I I K S S L L E G G I D A L L Y A I V Q M P P S G G I P P 110 T V A I D N A
P V I G V P V I V K S A A F F L D G G L D D A L L S S I V Q M P P A G G I P P 110 T V A I D N A
P V I G V P V I L S A A L L Q G G L D D S L L S S I V Q M P P S G G I P P 110 T V A I D N A
P V I G L P V I S A S A L L Q G G M D S L L S S I V Q M P P R A I V P P 110 T V A I D N A
P V I G V P V I I S L K V L L D G G V D S L L S S I V Q M P P R A I V P P 110 T V A I D N A
P V I G V P V I I K S T L L E G M D A L L A T V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I I N S K A L L K G L D D S L L S S I V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I V I N S S A L L N G G L D D A L L S S T V Q M P P G G V P P 110 T V A I D N A
P V I G V P V I I N A S L L G G L D D S L L Y S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I M E G K L L D G G L D A V L S S M V Q M P P G G V P P 110 T V A I D N A
P V I G V P V I V P L K Y L L D D G M D S L L S S I V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I V A L R H F L D G G M D S L L S S I V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I I K S S L L D Q G G M D A L L S S I V Q M P P P G G V P P 110 T V A I D N A
P V I G V P V I V P I G H L L D G G V D A L L M S I V Q M P P A G G I P P 110 T V A I D N A
P V I G V P V I V Q S K A L L N G G L D D S L L S S I V Q M P P A G G I P P 110 T V A I D N A
P V I G V P V I I K S G A L L G G L D D A L L Y A I V Q M P P A G G I P P 110 T V A I D N A
P V I G V P V I M L T S G L L D D S L L S S M V Q M P P S R G V P P 110 T V A I D N A
P V I G V P V I I E T R A L L G G L D D S L L Y S I V Q M P P R G G F P P 110 T V A I D N A
P V I G V P V I S D S S P L L N G G Q D A L L A T V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I L E A S S L L N G G M D A L L S S I V Q M P P P G G T P P 110 T V A I D N A
P V I G V P V I L R S S N L L Q G G L D D S L L S S I V Q M P P G G G V P P 110 T V A I D N A
P V I G V P V I V T A S N L L R G G E D S L L S S I V Q M P P K G G Y P P 110 T V A I D N A
P V I A V P V I V E S K L L D G G M D A L L S S V V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I Q S A A L L S G L D D S L L Y S I V Q M P P R G G V P P 110 T V A I D N A
P V I G V P V I I K T S A K L L S G L D D S L L Y S I V Q M P P P G G V P P 110 T V A I D N A
P V I G V P V I I K F S A F F G G L D D S L L S I T E M P P S G S P P 110 T V A I D N A
P V I G V P V I V D V K V A G L D A L E A S V M M P L G A F P P 110 T V A I D N A
P V I G I P V I T A S A L L G G M D A L L S S T V Q M P P P G G F P P 110 T V A I D N A
P V I A V P V I M P G A L L N G G V D A L L Y A M V Q M P P G G I P P 110 T V A I D N A
P V I N C P P L S A D W G A E D I W S S L R M P S G L G C S T V L F P E A 110 T V A I D N A
P V I G V P V I V K G S A L L D G G V D S L L Y S I V Q M P P R G G I P P 110 T V A I D N A
P V I G V P V I V Q S R A L L S G V D D S L L H S I V Q M P P G G I P P 110 T V A I D N A
P V I G V P V I P A A T A L L Q G L D D S L L S S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I P A A T V L L N G G A D A M L S S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I I K T S M M G G L D D S L L S M V Q M P P K G G L P P 110 T V A I D N A
P V I G V P V I I A S A S A L L H G M D S L L A T V Q M P P A G G T P P 110 T V A I D N A
P V I N C P P V I D Y K S W P E D I W S S L R L P S S L G C T T T 110 T V A I D N A
P V I G V P V I P T P Y F Q G Q D S L L S I V Q M P P K G G I P P 110 T V A I D N A
P V I G I P V I S G G S L A G M D A L L F S T V Q M P P K G G F P P 110 T V A I D N A
P V I G V P V I V Q T K A L L S G V D S L L Y S I V Q M P P K G G Y P P 110 T V A I D N A
P V I G V P V I L S T G K L L N G G T D A L L Y S T V Q M P P S G G I P P 110 T V A I D N A
P V I G V P V I L S G S A A F F L D D A L L S S T V Q M P P S G G I P P 110 T V A I D N A
P V I G V P V I L S S S A A G G L D D A L L S S V V Q M P P P G G V P P 110 T V A I D N A
P V I G V P V I L Q S R A L L S G L D D S L L S S I V Q M P P K G G V P P 110 T V A I D N A
P V I G V P V I I K T S T L N G G M D S L L S S I V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I V E S K A L L K G L D D S L L S S I V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I I H H S N L L G G L D A L L F S M I Q M P P K D V P P 110 T V A I D N A
P V I G V P V I A A T L D G G V D A L L S S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I V K A S T L L D G G L D A L L S S T V Q M P P K G G V P P 110 T V A I D N A
P V I G V P V I P L K Y L L D G G M D S L L S S I V Q M P P A G G V P P 110 T V A I D N A
P V I G V P V I L K G G A A G G L D A L L A T A Q M P P R G G V P P 110 T V A I D N A
P V I G I P V I V A A S P L L G G M D A L L A T V Q M P P P G G F P P 110 T V A I D N A
P V I G V P V I V K C S T L L D G G M D S L L S S I V Q M P P R G G V P P 110 T V A I D N A
P V I G V P V I M R S G A L L E G V D A L L Y A I V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I M K G G A M D G M D A M L S S T V Q M P P A G G M P P 110 T V A I D N A
P V I G V P V I V K S S N T L D G G W D S L L S S I V Q M P P G G G V P P 110 T V A I D N A
P V I G I P V I V A A G T L L G G L D A L L S S I V Q M P P R G G I P P 110 T V A I D N A
P V I G V P V I V G S N G L L A G G M D S L L S S I V Q M P P P Q I P P 110 T V A I D N A
P V I G V P V I C R S S I L L D G G W D S L L S S I V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I V E A K L L D G G L D D S L L S S I V Q M P P P G G I P P 110 T V A I D N A
P V I G V P V I V Q L A T L L D G G L D D S L L S S I V Q M P P A G G I P P 110 T V A I D N A
P V I G V P V I V Q S R M L L S G G V D D S L L S S I V Q M P P A G G I P P 110 T V A I D N A
P V I G V P V I L D A A L L G G Q D A L L Y S I V Q M P P K G G I P P 110 T V A I D N A
P V I G V P V I V K P S L L G D G D S L L S S I V Q M P P N G G V P P 110 T V A I D N A
P V I G V P V I I K S S L L D G M D A L L A I V Q M P P P G I P P 110 T V A I D N A

UniRef90_A4A7Q6 A N A G I L A A Q M L A T G D E A L R E R L R R Y K E N L R D K V L A K 130 140 150 160
UniRef90_R5XZ56 V N A A L L S I Q I L A L C P E L S E K L S E K R A S D S A A V L E K D K N I
UniRef90_R4X882 T N A A L L L A L R I L G I A A D D
UniRef90_F2I376 I N A G I L M A A S L I A L E N D S V K K N L V L W R N K Q T N S V K K N
UniRef90_L1MLS1 L N A A L L A V Q M L A L S D S E T V A Q K L A A Y K E G L K K K I V K A N E E L
UniRef90_UPI0003602348 A N A A L F A A A M L A N S D S D L R E R L D A F R Q A Q C A V L
UniRef90_UPI00037C5C3A L N A V L M A M Q I M S I S D S Y P K L K E D L K L Y R K E M A E K V L N D D E N L
UniRef90_A4X3F8 R N A G L L A V R I L G V E D Q S L R D R M A A Y Q S D L E Q V V A K K N A A L
UniRef90_J0L755 K N S A Y L A M Q I L A V S D K A L S Q E K L R E D R I L Q S K K V E E D S K S R I
UniRef90_Q7NL75 R N A G L L A V Q I L A T A D P V L S Q K I V A Y R E R L R T A V E K K Q A R L
UniRef90_C7RD69 N N A A L L A I Q I L A L K D E E L A S R L K A Y K K E M L E K V L A D D K N L
UniRef90_D2PKN8 R N A G L L A V R I L A A H D P K L L E Q M T T F Q E S L A D L A R A K G G T V
UniRef90_Q0F114 K N A G L L A V Q M L A Q T D A A L T E R L A D R R T Q A E A I L A
UniRef90_W0SHD2 A N A A L T A I A I A T G N D D L A L K L V D F R A R Q S E K V M A M S
UniRef90_N9Y136 Y N A G M L A L Q M L S L K Y P D L K N R L D F R K D M K R K F I E E N A E
UniRef90_C5RAY3 K N A A I L A A Q I L A V T Q L D M Q E K L V A F K Q M Q R Q E S I E S E A R
UniRef90_UPI000363DDE4 K N A G I L A A K M I A L S D E Q L S G K I T A F M Q T Q E K A V Q E K
UniRef90_C9LRY0 K N A A V F A L E I E G A G D A A V A K Q L E G Y R E K L R E G V A K K A A R V
UniRef90_A9AFV4 A N A A L F A V S I L S G T S V D Y A N R L A A F R V R Q N E A A H A M
UniRef90_UPI0002624C63 A N A A G L F A V S L L A A S D P M L A R R L Q D F R Y Q Q E A A V L A M
UniRef90_Q83H35 K N A A L L A A R I L G V Q S A D I A D S L S A Y Q Q S L F D Q S N E K D R
UniRef90_W7QBW5
UniRef90_E4TWK9 I N S A Y L A M Q I L A L N N E E L S M K L Q E D R I A K A K K V E M D S L E I
UniRef90_R7L9C0 V N A A I L A V Q I L S L S D Q A L A E K L A D F R K S Q T E E V L
UniRef90_R7PUE1 K N A A L L A V Q M G A L S D A V L C D Q Y K A Y R N N M A K S I Y E K D K T I
UniRef90_R7DED7 L N A A I L A T Q M L A L G D E K I N A R L K A Y K Q G L A Q K I V D A N Q Q L
UniRef90_U2RX57 R N A G L L A S I Q I L A T S D P E L T A A L E R F A A D L E A S V E E K K M A L L
UniRef90_E6U6P2 K N A A F L S I Q I L A L G N A E E L T A Q K L L D Y K Q S M A D G V E K K D M A L L
UniRef90_F8IBX9 I N A G L L A A E I L A L Q D D G I R E R L A A Y R E N L R R T V I Q S E E A V
UniRef90_D7JFA7 Q N A G L L A V Q I L A V G N S E L R A K L Q Q Y K S E L K T K I V K A N Q R L
UniRef90_F4NZ40 T N A A L L A I R L G A H M P S Y L A Q L Q Q E Y S K L Q E E V L N K V N R L
UniRef90_R6MT95 T N A A I L A A Q M L A I K Y D Y L K D A L K D A K V K M V E G V E K K D E K I
UniRef90_UPI000377BA52 A N A G L L A A Q I L G T N D L T V R A A I K T F R Q Q Q T D R I L S E P D
UniRef90_UPI0003686058 K N A G M L S V Q I L A L S D K N L Q Q K K L
UniRef90_D1AW68 Y N A G M L A V Q I L S V K H L E I K E M L I R F R K E M K E K F K L D N E
UniRef90_X0VRU1 K N A A L L A I R I L A N S R P E L R R E R L R Q Y H A K M A E Q I A K E A E L
UniRef90_UPI0003B5692B R N A G L L A V R I L A A S D V L R R G R V Q E F Q R A L A E S A L S K D A A L L
UniRef90_I6XYC4 R N A G L L A V R L L A A G D E K L R A Q M V Q F Q T N L R D T A R A K G E V V
UniRef90_UPI00036D39C5 L N A A I L A L Q M I A T G D E S A Q K K L S D Y K I S L K N K I T K A N Q E L
UniRef90_A9AYG0 K N A G L L A I Q I L A T A D A A L I E Y K Q T M A E S Q A K N E R L
UniRef90_UPI0003B5945B A N A G L F A A A L L A P E H P A I R A K L L E A F R A K Q T Q D V L D
UniRef90_UPI000372A48F R N A A I L A A Q M L G I S K Y E E I R Q K L L A Y K E K L A R Q V Q A K S E R L
UniRef90_I3I1W3 I N A A L L A V Q I L S I S N E E Q L R Q K M V L Y K K N L S D E V A R K D K K T
UniRef90_UPI000372ADA1 V N G G L M A A A L L A V S D E A L A G R L D A W R A A L S A S I P E A P Q D V
UniRef90_K2ENK8 A G W A A A Q M L A I S D S E L R M R I S Q E R E M A K G V F D A D E R L
UniRef90_UPI0003A64C1D I N A V V Y A A R I L G L R D Q Q L A R R L Q E F A Q
UniRef90_A6DT41 K N A G L L A V Q M L G G K F P E Y R K K M I A Y K K G M D E M V L E K A A K M
UniRef90_Q2KW02 A N A A L H A L A T L A T T D D A L H A K L L A F R A S Q T E A A R N M
UniRef90_UPI00036C384B K N A A W L A A Q M I A L T D T S I A A N L K A A R E E G K A A V I K S A E E L
UniRef90_F6BAH5 E N A A I L A L E T I A L Q D E K I A E K L V E Y R K K Q K E K V M K S D E K V
UniRef90_C6CQB2 A N A A L L A A Q I L A R H D S A L A L R L A A W R Q A Q T D D V L N H P D
UniRef90_E3DMB7
UniRef90_K0B962 G N A G I Y A M K M L A N E F P D L K N K L Q Q H K S N Q H D S V V K E S D Q L
UniRef90_K2QFG9 D N A A L L A A Q I L G I L G N A D V I R E R L S S F R K D F Y S K I A G D E E K L
UniRef90_F3YU09 R N A A W L A A Q I L A L S D D E I A S A I R K A R G E F R I D V A K A A E K L
UniRef90_E8WRV1 K N A G L F A V Q V L S L A N P E L R D R F I A Y
UniRef90_V9KJU9 A A L F A A Q I E A Q S N H L V W A K L R A N M L N T W V S L K K A D K Q T
UniRef90_L8G464 I N A A L L A A R I L G A F N D A G V Q A K V E A Y A K A K E E N L D
UniRef90_A3Z362 A G L L A A Q I L A T T D G E L T Q R L A D Y R H E L H A T V V A K D A R L
UniRef90_UPI000370FB4F M N A G L L A V A M L A T T D A A L Q K R L V E W R E A R R D E V L A
UniRef90_A0Z8A2 A N A A L F A A A M L A N N D S T I A A A L D R F R E E Q T A S V P E S
UniRef90_A6P0X5 D N A A I L A A Q M L A L S D A S L A A A L K D F K A A M A D E V A E K D R K L
UniRef90_F2NE16 Q N A A I F A V Q I L A R Q D P A L Q A R L T H Y K Q E L A G K V E E S S L H L
UniRef90_UPI0001926A10 E G A A L N A A Q I L A L T D H C I W S R I H A C R L N T I L S L M R A D K D L
UniRef90_T1A6A5 A N A A L F A V S L L A A Q H P H L T G R L N A Y R A E L V A Q V T A M
UniRef90_G1UVC5 R N A A W L A A Q I L A V A D P A L H G K I E A A R A K M R A D V E K A G E E I
UniRef90_C8S315 A N A G L M A A A I L A L S D A A L A Q R L Q A W R D A L T A S I P D E P Q D
UniRef90_I5AS14 K N A A I L A A R I L S V A D P E M L S K I K E F G A K G K E A V I A K D A R L
UniRef90_K1L186 E N A A I L A V I E L A V A D E Q L R E K L V E M K H N M E E K I R N T S
UniRef90_H0E2L2 R N A A H L A I R L G S G D
UniRef90_K0CAG5 Y N A G L L A A Q M L G S H D D A L R Q R I A E W K A A R A D E V L A N A D
UniRef90_K1LFW0 K N A A L T A A R I V G L Q E K A I L E N L T A Y M E E Q H Q K A L K G S D R L
UniRef90_W7Q9V2 T N A G L L A A Q I V G L Q D G R V R A A V E A F R A E E Q T Q A V L D N P D
UniRef90_D0J8W2 Y N A A L L A T H L A I K Y N E I K K L L L K F R M E R R E K L
UniRef90_T1CLY6 D N A A I L A V Q M M A T G D E T L Y A K L V E Y K E S L K E K V V K A N Q E L
UniRef90_F5TB41 E N A G I L A T Q I L S I K
UniRef90_C7QZV1 R N A G L L A A R I V G S G H G R V R E A M L K F Q Q S L R D Q A Y A K G A A L
UniRef90_K6QFB9 A A L L A A R I L A L K H D P E L R R R L E A Y R Q R M Q A R V E E A D R R L
UniRef90_E5Y7W8 R N A A W L A A Q I L A L K H D P E L A H K I R I S R E R F M Q S D V A V A G A E I
UniRef90_K11WWJ7 I N A A L L A A R I L A T N D S I L Q G K L E K Y T E K M S D E V V E K A T R L
UniRef90_G7W7X0 R N A A L L A V Q I L A A H D P E L S N K V K N Y R A K M L K L E A K D E A L
UniRef90_A8EW80 V N A A Y L A M Q I L A I T D P K E L A K L K E D R I V K A K A V E S D S K D I
UniRef90_L7W7D9 K N A G I L A A Q I I G A T Q E D V R A R I I S Y K L G L K E K V T Q A A A Q M
UniRef90_C9RB42 F N A G L L A A Q I I G A G D P E L Q K R V A A Y K E R L A A E V G E K D A R L
UniRef90_H7EHA4 K N A A Y L A V E I L A V K Y P E L R A K L A D F R K L A D A V E K N
UniRef90_F4MMW9 V N A A I L A C Q I L S T G D E K I S D K M D E Y K R N L K S K V E K A N K D L
UniRef90_B3V646 K N A A L L A L A L C L N D E A L H N K L V E Y R K S
UniRef90_A0A011SPL5 K N A G L L A A R L G A D D A R L
UniRef90_UPI0003B33736 T N A A L L A C A I L A T A D P V L A A K L D A F R A A Q T A K V L N D G A
UniRef90_W1TS31 Y N A A M A A V Q I I G T S N D Q V A A Q L K E Y R A N M K Q K F T A D P
UniRef90_M2MWC3 V N A A L L A A R L G V R D E R R E V E V K D G R L
UniRef90_E1WQP1 L N A A I L A V Q M L S L E D K E L E T K F I A Y

UniRef90_A4A7Q6
UniRef90_R5XZ56
UniRef90_R4X882
UniRef90_F2I376
UniRef90_L1MLS1
UniRef90_UPI0003602348
UniRef90_UPI00037C5C3A R
UniRef90_A4X3F8 R
UniRef90_J0L755 E
UniRef90_Q7NL75 E
UniRef90_C7RD69
UniRef90_D2PKN8 R
UniRef90_Q0F114
UniRef90_W0SHD2
UniRef90_N9Y136
UniRef90_C5RAY3
UniRef90_UPI000363DDE4
UniRef90_C9LRY0
UniRef90_A9AFV4
UniRef90_UPI0002624C63
UniRef90_Q83H35
UniRef90_W7QBW5
UniRef90_E4TWK9 E
UniRef90_R7L9C0
UniRef90_R7PUE1 Q
UniRef90_R7DED7
UniRef90_U2RX57 Q
UniRef90_E6U6P2 Q
UniRef90_F8IBX9 R
UniRef90_D7JFA7 Q
UniRef90_F4NZ40
UniRef90_R6MT95 K
UniRef90_UPI000377BA52
UniRef90_UPI0003686058
UniRef90_D1AW68
UniRef90_X0VRU1 R
UniRef90_UPI0003B5692B
UniRef90_I6XYC4 R
UniRef90_UPI00036D39C5
UniRef90_A9AYG0 Q
UniRef90_UPI0003B5945B
UniRef90_UPI000372A48F
UniRef90_I3IIW3 R
UniRef90_UPI000372ADA1
UniRef90_K2ENK8 Q
UniRef90_UPI0003A64C1D
UniRef90_A6DT41 E
UniRef90_Q2KW02
UniRef90_UPI00036C384B E
UniRef90_F6BAH5 K
UniRef90_C6CQB2
UniRef90_E3DMB7
UniRef90_K0B962 K
UniRef90_K2QFG9
UniRef90_F3YU09
UniRef90_E8WRV1
UniRef90_V9KJU9 R
UniRef90_L8G464
UniRef90_A3Z362 Q
UniRef90_UPI000370FB4F
UniRef90_A0Z8A2
UniRef90_A6P0X5 Q
UniRef90_F2NEI6 Q
UniRef90_UPI0001926A10
UniRef90_T1A6A5
UniRef90_G1UVC5
UniRef90_C8S315
UniRef90_I5ASI4 Q
UniRef90_K1LI86
UniRef90_H0E2L2
UniRef90_K0CAG5
UniRef90_K1LFW0 E
UniRef90_W7Q9V2
UniRef90_D0J8W2
UniRef90_T1CLY6
UniRef90_F5TB41
UniRef90_C7QZV1 R
UniRef90_K6QFB9 R
UniRef90_E5Y7W8 Q
UniRef90_K1WWJ7 E
UniRef90_G7W7X0 E
UniRef90_A8EW80 R
UniRef90_L7W7D9 Q
UniRef90_C9RB42 Q
UniRef90_H7EHA4
UniRef90_F4MMW9
UniRef90_B3V646
UniRef90_A0A011SPL5
UniRef90_UPI0003B33736
UniRef90_W1TS31
UniRef90_M2MWC3 Q
UniRef90_E1WQP1

	1	10	20	30	40
UniRef90_Q7U3Z2		M	G	S	S
UniRef90_UPI00047BA467	M	F	V	S	R
UniRef90_D4YF80		V	R	I	V
UniRef90_K9RVZ6		A	I	V	M
UniRef90_R7NPB0	K	V	A	I	V
UniRef90_R5ENB4		K	V	G	I
UniRef90_Q28997	M	K	A	V	I
UniRef90_X4QXZ5		K	V	G	I
UniRef90_B1ZUF7		V	S	V	I
UniRef90_R5ARC1	P	K	V	S	I
UniRef90_H5WKS5	P	E	V	A	V
UniRef90_D7DV58		V	A	V	I
UniRef90_A0A023HY77		V	A	V	I
UniRef90_H5SSP9	P	L	V	S	V
UniRef90_A0A031GYE2	P	L	V	G	V
UniRef90_D8LZN9		M	G	S	S
UniRef90_E5AKX6	P	L	V	G	V
UniRef90_V4TYB5	S	P	L	V	G
UniRef90_I3ZB79	S	P	L	V	A
UniRef90_X1LFH1	S	P	L	V	A
UniRef90_K8F0U5	P	S	I	S	I
UniRef90_E1GU60	P	L	I	S	I
UniRef90_E7QRE7	P	E	V	G	I
UniRef90_C0VZR7		K	V	G	I
UniRef90_A7IER2		D	V	A	V
UniRef90_Q3A5S4	P	K	V	L	I
UniRef90_E7NS55	M	K	A	T	I
UniRef90_W0K1M7	P	D	V	G	V
UniRef90_Q2NEA3		R	V	L	I
UniRef90_T0Y1U6		M	R	V	I
UniRef90_E0NLY7	M	R	V	I	S
UniRef90_UPI0002D7A3BA		I	G	V	V
UniRef90_Q2G374	P	L	V	A	I
UniRef90_UPI0002191856		Q	V	A	I
UniRef90_R9BWU5		K	V	A	I
UniRef90_R5BAS4	A	P	L	V	G
UniRef90_D1A1Z3		V	E	V	G
UniRef90_A0RWQ1		K	V	A	I
UniRef90_E0SQP4	S	A	Q	V	V
UniRef90_C3ZBE4	P	F	V	V	V
UniRef90_UPI00047038B0		V	V	V	L
UniRef90_B4JK15		V	V	V	L
UniRef90_UPI00036030CB		L	P	I	S
UniRef90_J0S6D3	P	D	V	A	V
UniRef90_F4KMW6	P	L	V	S	V
UniRef90_C9LEP2	P	L	I	S	I
UniRef90_R5LYP6	P	K	V	G	I
UniRef90_H0US77	P	D	V	L	I
UniRef90_A0A023FMG7		Q	V	A	V
UniRef90_W5JMN1		V	V	L	L
UniRef90_U5Q3V3		M	G	S	S
UniRef90_A6UT73		I	T	I	I
UniRef90_M1V4C9	P	L	V	P	I
UniRef90_A8F817	M	K	V	A	I
UniRef90_A0A031LMU7	P	K	V	G	V
UniRef90_M0ZKC2	A	P	R	V	G
UniRef90_UPI00035F2A90		K	V	L	L
UniRef90_M1Z532		K	V	L	L
UniRef90_C7P4K7	P	D	V	G	I
UniRef90_F2LVE5	M	K	V	A	I
UniRef90_UPI00026593AC		Q	V	V	I
UniRef90_Q2J4S5	P	Q	V	A	I
UniRef90_A3CRJ0		D	V	S	I
UniRef90_C7NFG1		D	V	S	I
UniRef90_G1LHX0	P	D	V	S	I
UniRef90_A0B543		V	V	L	L
UniRef90_D6X4R1		M	K	V	S
UniRef90_UPI000304DE29	P	D	I	G	I
UniRef90_W0JPA1		R	V	V	L
UniRef90_Q6GLT0		R	V	I	V
UniRef90_E4U460	P	E	L	G	V
UniRef90_U1MG60					
UniRef90_J9H4Z4		D	V	C	V
UniRef90_E3GVY5		V	I	L	M
UniRef90_R4FNG8		V	I	L	M
UniRef90_UPI00037BC608	S	P	L	V	G
UniRef90_F9ZSK3	S	P	L	L	G
UniRef90_U2LA12		M	K	V	A
UniRef90_Q57629		K	V	G	I
UniRef90_R5KA17	M	R	V	A	I
UniRef90_T0YUA8	S	P	L	V	A
UniRef90_UPI0003B75048	A	P	L	V	A
UniRef90_R9SPM3		P	K	V	M
UniRef90_F9KSC0		V	K	V	A
UniRef90_Q0W7D4		V	D	V	A
UniRef90_V5GWK5		V	V	I	V
UniRef90_R6X282	P	L	I	S	I
UniRef90_A2SCG8		V	A	I	F
UniRef90_H2YX05		V	A	I	F
UniRef90_X8A9Q5					
UniRef90_E2AK80	S	P	L	V	V
UniRef90_B8DYW9		M	L	V	V

UniRef90_Q7U3Z2 T P L E M V A F A Q A A R T E G F G V I V A G A G G A A H L P G M V A A L T T L L
UniRef90_UPI00047BA467 T P D R L F A F A K G A K A N G A K V L I V A G A G G A A H L P G M T A A L T T E L L
UniRef90_D4YF80 A L D D L Q A L V G Q A N D A D L K Y I G I A G G K A T A H L P G G V I A A G M T V K
UniRef90_K9RVZ6 T P Q R M V E F A T Q Q A H Q S T D L K V I I A G A G G A A H L P G M I A A L T T P L
UniRef90_R7NPB0 T P D E A S E F A K N A R I K N G F G V I I A A A G M A A H L L G G V L A A N T T L L
UniRef90_R5ENB4 T P E E A R D F A V S A R A N G F G V L I A A A G M A A H L L A G A I A A N T T L L
UniRef90_Q28997 T P E K V L E I I K E Y E K E D V V F V T V I A A A G R S N A H L L A G A V A A N T T L L
UniRef90_X4QXZ5 T P D Q A A E F T R N A R D N G N G I G V I I A A A G M A A H L L A G A V A A N T T L L
UniRef90_B1ZUF7 T P D L V I T D W A R G A D A R G I K V I I A A A G G A A H L L A G V I A A L T T P L L
UniRef90_R5ARC1 T P A E V E K F A R T A K E R G I E V I I A A A G M A A H L L P G V I A A A M T T V V
UniRef90_H5WKS5 M P D D M F A F A E G A A A R G L K A I I A G A G G A A H L L P G M L A A K T T C V
UniRef90_D7DV58 T P A L V E K V V K S A N S E V F F T A I A G L A A H L L P G V V A S M T T K
UniRef90_A0A023HY77 T P E R L F N F A K S A H E T G F K V I I A G A G G A A H L L P G M V A A L T H I
UniRef90_H5SSP9 T P E A L R E Y I K S A E G R G V E V F I A A A G G A A H L L A G V I A S Q T L V V
UniRef90_A0A031GYE2 M P D E M Y A Y A K S A R A R G L R A I I A G A G G A A H L L P G M V A A M T I V
UniRef90_D8LZN9 T P A R L L E L L E R Y E A K Q P K V Y I T V A G R S N A H L L P G V I A A N T T L L
UniRef90_E5AKX6 M P D E M F D Y A Q A A R A R G L R A I I A G A G G A A H L L P G M L A A K T T V
UniRef90_V4TYB5 N R K E A L S Y A L S A K E R G I K I I V I G D G V E A H L L P G V I A A N T S R V
UniRef90_I3ZB79 T P D L L W M Y A T E A R G R G L R A I I A G A G G A A H L L P G M L A A K T T L V
UniRef90_X1LFH1 N P E K V R Q Y G L T A R E R G I E V I I A A A G G A A H L L P G V L A S W T T L L
UniRef90_K8F0U5 T P Q E M F D Y S K K A H T R G I R A I I A G A G G A A H L L P G M V A A M T P L L
UniRef90_E1GU60 T P A A V E N F A K R A K E R G I K V I I A A A G M A A H L L P G V I A A S T T L L
UniRef90_E7QRE7 T P E L M Y S Y A K T A E A R G L D V I I A G A G G S A D L L P N M T A S A Y P L L
UniRef90_C0VZR7 M P E E M I A Y G K T A H E K G I G V I V A G A G G A A H L L P G M L A A V T T P L L
UniRef90_A7IER2 T P E R M Y A F A R S A K A D G F K V I I A G A G G A A H L L P G M V A A L T T L L
UniRef90_Q3A5S4 T P Q K T A A L V E G A A D R G I Q V I I A A A G L A A H L L P G V V A A G T I L L
UniRef90_E7NS55 S I D E L T P Y V Q S F A E R G I D V I I A I A G K A A H L L A G A G K A A L T L L
UniRef90_W0K1M7 T P D L M Y A Y A E T A A E R G L D V I I A G A G G S A D L L P N M T A S A Y P L L
UniRef90_Q2NEA3 S P D K L E K Y M K T V D N Q I D L Y I V V S G L S T I L L S G A V V S H T T K
UniRef90_T0Y1U6 T P D L L F E Y A A T A R E R G L K A I I A G A G G A A H L L P G M T A A K T T L L
UniRef90_E0NLY7 A T K L L E E Y V K S A E E E S K V F I G I A G K A A H L L S G V I A A M T T R
UniRef90_UPI0002D7A3BA M P D D M F A Y A Q S A A E E R G L Q A I I A G A G G A A H L L P G M I A A K T V V
UniRef90_Q2G374 T P D R L V S F A K G A H E E G F K V I I A G A G G A A H L L P G M V A S M T H L
UniRef90_UPI0002191856 M P A Q L Q D F G Q Q A V T R G I D V I I A G A G G A A H L L P G M L A A N T V R
UniRef90_R9BWU5 T P E L M F E Y T K G A K E R G F G V I I A G A G G A A H L L A G V A A G L T T L L
UniRef90_R5BAS4 M P H D M I A Y G A Q A K A R G R G L R V I I A G A G G A A H L L P G M L A S V T P L
UniRef90_D1A1Z3 T P E R L G D Y A R H A E I I G L R V I I A G A G G A A H L L P G M I A S Y T V V
UniRef90_A0RWQ1 N P K E L L E E Y I N V A D V D L F I A M A G L A A H L L P G F I A S R T Q K
UniRef90_E0SQP4 G T E E T I R L L R E Y E G E I P D C V F V A I A G R S N G L L P G V L S G N T S Y
UniRef90_C3ZBE4 T P E S T H N Y V V I D A E S R G C Q V F I C A A G L A A H L L A G A V A A I T T K
UniRef90_UPI00047038B0 A P E E T L R I V R E Y E S V M T N L I V A V A G R S N G L L P V L S G S T N Y
UniRef90_B4JK15 S P E E T A K F A K D A E S K R G I K V I I A A A G G A A H L L A G V L A A H T I L L
UniRef90_UPI00036030CB D P D R L D D Y M R T S D A K V F I A I A G M A A A L L P G V V A S K T K R
UniRef90_J0S6D3 T P D E V A E F A R G A E E R G V R V I I A A A G M A A H L L C G V I A S M T T L L
UniRef90_F4KMW6 T P S E V E A F A Q G A A R G L K V I I A A A G M A A A L L P G V I A A S T T
UniRef90_C9LEP2 T P E K A I E F S K N A E K N G F G V I I A A A G M A A H L L A G V I A A N T I I
UniRef90_R5LYP6 T P D R V A H M A S R A S E L G F K V I I A M A G L S A A L L P G S V A A H T D L
UniRef90_H0US77 N T D Q T L D L I A E Y E G E I P T V F V S V A G R S N G L L P G V I A A N T V Y
UniRef90_A0A023FMG7 G T D T T L Q I V R E Y E G V L S K V F I T V A G R S N G L L P V L S G N T Y
UniRef90_W5JMN1 V P E M V A Q F A K N A Y G R G V R V I I A G A G G A A H L L P G V I A A F T P V
UniRef90_U5Q3V3 T P E L V E E I M K N S Q A K V F I A I A G L A A H L L P G V V A A L T T K
UniRef90_A6UT73 V P T R L L E V V G R L E A D P P K V Y I S V A G R S N A L L S G L L D G S V A S
UniRef90_M1V4C9 T P L E V M D F A K N A E K E F S V I I A M A G K A A H L L P G V I A S M T S L L
UniRef90_A8F817 T P D L M A E Y A K T A K S K G I D V I I A G A G G A A H L L P G M T A S M T T L L
UniRef90_A0A031LMU7 T P E A T V Q T V K S A E A A G C Q V F I C A G A G M A A H L L A G I V A A H T V R
UniRef90_M0ZKC2 T P E R T A Q I V K E A E A K G V K V I I A G A G L A A H L L P G V V A A Y T T L L
UniRef90_UPI00035F2A90 T P E R T A Q I V K E A E A K G V K V I I A G A G L A A H L L P G V V A A Y T T L L
UniRef90_M1Z532 T P E R T A Q I V K E A E A K G V K V I I A G A G L A A H L L P G V V A A Y T T L L
UniRef90_C7P4K7 T P E L M Y A Y A E T A E A R G L D V I I A G A G G S A D L L P N M T A S I Y P L
UniRef90_F2LVE5 S P N L T K E V A I E T E D E F D V A I V T A G L S A A L L P G V I A A Y T N K
UniRef90_UPI00026593AC N T D Q A L N I A E I Y E G L G V V F I A V A G R S N G L L P G V I A S G N I N A
UniRef90_Q2J4S5 A P R T L A D Y V G Q L R A R D I S V V I A G A G L A A A L L P G T I A A L T T L L
UniRef90_A3CRJ0 D P E R L D E Y V K A S T A R V F I A I A G S A A L L P G V I A S K T K R
UniRef90_C7NFG1 M P H E M L Q H G V D A A A A G Y R V V I A G A G G A A H L L P G M L A S V T P L
UniRef90_G1LHX0 G P E E T R I K A E Y E G D G I P T V F V A M A G R S N G L L P M M S G N T A H
UniRef90_A0B543 N P K E L D Q Y I E S S N A R V F I A V A G M S A A L L P G A V A A R T E R F
UniRef90_D6X4R1 G T E E T I K I R Y Y E S L P L K V F I A V A G R S N G L L P G V V S G N S P F
UniRef90_UPI000304DE29 A L S S L E N Y V K N S E N E S E V Y I G I A G K A A H L L S G V I A A L T T R
UniRef90_W0JPA1 T P D L M T A Y A E T A E A R G M L E V I A G A G R S A D L L P N M T A S I Y P L
UniRef90_Q6GLT0 G P D E T L R I K S E Y E G D M A T V F I A V A G R S N G L L P V M S G N S A Y
UniRef90_E4U460 T P A R L L E V L A E H E R R G A R V Y L T I A G R S N A L L S G L A D A Q V A A
UniRef90_U1MG60 T P D L M Y A Y A E T A A D R G L E V I A G A G G K A A L L P G M V A A N T Y P L
UniRef90_J9H4Z4 T P E A V E E F A K N A A D R G L K V I I A A A G M A A H L L P G V I A A N T T L L
UniRef90_E3GVY5 R P D K F E E L I K N M N T K I F I S V T G V A S H I T G M L A S L T L S
UniRef90_R4FNG8 G T E E T L K L L A E Y E G C R D V V L I A V A G R S N G L L P G V L S G N T V L
UniRef90_UPI00037BC608 T P E R T T T F V R Q A K T N G I K V I I A G A G A A H L L A G A I A A E T T L L
UniRef90_F9ZSK3 T P D L L F Q Y A E T A A Q R G L T A I I A G A G G A A H L L P G M L A A K T V V
UniRef90_U2LA12 A G N L L R S T V E K V E R E G V E V I I A G A G L A A A L L P G V I A G M T V L L
UniRef90_Q57629 L F P A L K R M I E E D V C C I V V A G M E G A L L P S V I A S M V D I
UniRef90_R5KA17 A H A G L S E F I E E A N N N G T Q V I I T A A G M A A A L L P G V V A S Q T V I
UniRef90_T0YUA8 S P R A L V E Y V E A A P G R G V E V F I A A A G G A A H L L P G V V A A H T L L L
UniRef90_UPI0003B75048 T P E K M I A F G K Q A A S R G I K V I I A G A G G A A H L L P G M L A A S T T L L
UniRef90_R9SPM3 T Y K K V K H D V L Q G T K N G I E V F I A I A G M A A H L L P G V I A S F T H K
UniRef90_F9KSC0 T P K M M V Q F A S E R A R E K L N I I A G A G G A A H L L P G M V A S L T T L L
UniRef90_Q0W7D4 N P D E L D A Y V R G S D A K T I A G L A A A L L P G V V A A R T K K
UniRef90_V5GWK5 T T Q Y T L I E V S Y Y E G N L P V F I A V A G R S N G L L P V I S G N T D F
UniRef90_R6X282 T P D A M E T F A H G A K E R G I R V I I A A A G M A A H L L P G V I A A S T T L L
UniRef90_A2SCG8 M P D E V F A Y A E A K E R G R G L R A I I A G A G G A A H L L P G M L A A K T P V
UniRef90_H2YX05 S T T D T L K I L S K I E D E T A T V I V A V A G R S N G L L P V I S G N T V L
UniRef90_X8A9Q5 M I A S A T P L
UniRef90_E2AK80 G T L E T L N I V A E Y E G S G E N V V I A V A G R S N G L L P V L S G N T V L
UniRef90_B8DYW9 I P L K V L E L I K E Y E E K D V V Y I T I A G R S N A L L S G F T D A N T T K

UniRef90_Q7U3Z2 P V I G V P V R S L S G V D S L H 100 V Q M P G G I V P V A T V A I G G G 120
UniRef90_UPI00047BA467 P V L G V P V I E T S K A L L H Q G D S L Y S I V Q M P A K G V P V G T L A I G K A G A G
UniRef90_D4YF80 P V I G V P V I K S R H L S Q G L D D A L L Y S I V Q M P A K G V P V A T T V A I G D G G A
UniRef90_K9RVZ6 P V I G I P C K G P C F D D G M D A L L A T V V M M P T S G I P V A T T V A I V N G A N G
UniRef90_R7NPB0 P V I G I P C K G P C F D D G M D A L L A T V V M M P T S G I P V A T T V A I V N G A N G
UniRef90_R5ENB4 P V I G I P C K G P C F D D G M D A L L A T V V M M P T S G I P V A T T V A I V N G A N G
UniRef90_Q28997 P V I A S P C Y S S K F G A D I F S S I R M M P S G V A P M L V L L E A G A
UniRef90_X4QXZ5 P V I G I P L T S S H L D G M D A L L S T V Q M P P G G M P V A T T V A I N G A
UniRef90_B1ZUF7 P V L G V P M E S A S L L K G L D D S L L S M V Q M P P G G I P V A T T F A I G K P G G A
UniRef90_R5ARC1 P V L G V P I N S T S L L E G R D A L L S I V Q M P P G G I P V A T T F A I G I N G G A
UniRef90_H5WKS5 P V L G V P V A S K H L G V D S L L H S I V Q M P P K G I P V A T T F A I V G T A G A
UniRef90_D7DV58 P V I A V P V E S E C L K G L D D A L L S A V Q M P P K G I P V A T T F A I C V G I D R G A
UniRef90_A0A023HY77 P V I G V P V M S E C L K G M D S L L S I V Q M P P K G I P V A T T M A I G P A G A
UniRef90_H5SSP9 P V L G V P M E S K L S R G L D D S L L S M V Q M P P A G V P V G T L A I G R A G A
UniRef90_A0A031GYE2 P V L G V P V P S S K Y L R G E D S M L S I L R M P P S K G V P V A T T F A I G E A G A
UniRef90_D8LZN9 P V I I C P Y S S S F N G A D L Y S I R M P P S K G V P V A T T F A I C P M L V L D P
UniRef90_E5AKX6 P V L G V P V A S K Y L R G V D S L L H S I V Q M P S K G V P V A T T F A I G E
UniRef90_V4TYB5 L V I R V P L L S E E L S E D D V I N S I R M Q S H I Q V A S T L A I P R N N A
UniRef90_I3ZB79 P V I F G V P V N A T S L N G L D D A L L S I V Q M P P K G I P V A G T L A I G I N G A
UniRef90_X1LFH1 P V I G V P V L A N S D L K G V D A L L Y S I V Q M P P A G I P V A G M A I G N A G A
UniRef90_K8F0U5 P V I G V P V P L K Y L D D G M D S L L S I V Q M P P K G I P V A T T V A I G N A N G
UniRef90_E1GU60 P V I G V P I K G M L D G L D A M L S I V Q M P P K G I P V A T T V A I V G I N G A
UniRef90_E7QRE7 P V V G V P V Q E K S V S L S I V I G M P T G A P I V A V D A G K S
UniRef90_C0VZR7 P V I G V P V P L K Y L D G M D S L L S I V Q M P P A G V P V A T T V S I G V A G A
UniRef90_A7IER2 P V I F G V P V Q S K A L L N G G L D D A L L Y A I V Q M P P A G V P V A T T L A I G V A G A
UniRef90_Q3A5S4 P V I G V P M G G G P L L N G G L D D A L L Y A I V Q M P P S G G I P V A T T L A I G K A G A
UniRef90_E7NS55 P V I A V P V K T S V M G M D S L L S I V I G M P T G A P V A T T V A I D G G S
UniRef90_W0K1M7 P V V G V P V Q E K S V D G L D S L L S I V I G M P T G A P L T A V D A G K S
UniRef90_Q2NEA3 P V I G V P C N T G K L G L D S L L S M V E M P P G V P T A T M A G V D A G
UniRef90_T0Y1U6 P V L G V P V Q S S K A L L S G L D D S L L S I V Q M P P A G V P V A T T F A I I G E
UniRef90_E0NLY7 P V I G V P V K S S T L L S G L D D A L L S I V E M P S A G V P V A T T V A I N G G
UniRef90_UPI0002D7A3BA P V L G V P V Q T K A L L S G V D S L L H S I V Q M P K G V P V A T T F A I N G A A G A
UniRef90_Q2G374 P V I G V P V E S K A L L K G M D S L L S I V Q M P P G G I P V A T T L A I G V P G A
UniRef90_UPI0002191856 P V I G V P I E S H A L H K G L D D S L L S I V Q M P P A G V P V A T T M A I G V A G A
UniRef90_R9BWU5 P V I G V P V Q S K A L L N G G L D D S L L S I V Q M P P A G V P V A T T V A I G K A G S
UniRef90_R5BAS4 P V I A V P M A T K N L D G L D D S L L S M V Q M P T G I P V A T T V A I G A G A
UniRef90_D1A1Z3 P V I G V P V P L K H L G G L D D S L L S I V Q M P A G V P V A T T V A I V G A A
UniRef90_A0RWQ1 P V V G V P I M T S A F G G L D D S L L S M S E M P A G S P V A T T C V G V N K A
UniRef90_E0SQP4 P V I G V P L N V A L G G L D D A L L S I V Q M P P R G V P V A T T V G V I D N A
UniRef90_C3ZBE4 P V I N C P V P V K A D W G A Q D I W S S L R L P S G G L P V C C A S T V G V L S P
UniRef90_UPI00047038B0 P V I G I P I D G G P L K G Q D A L L S T V M M P S G G V P V A T T V A I G K A G A
UniRef90_B4JK15 P V I N C P P L K S D N M Q V D A W S S L N L P S G G L P V C C A S T V F Y P E A
UniRef90_UPI00036030CB P V I G V P M D T K L D G I D S L L S T V Q M P S G V P V A T T V S I G R A G A
UniRef90_J0S6D3 P V I G V P V S G K L M G G L D D A L L S I V Q M P P K G V P V A C V A V D G G
UniRef90_F4KMW6 P V I G V P I D A S L E G L D D A L L A I V Q M P P G I P V A T T V G V
UniRef90_C9LEP2 L P V I G V P I K G M L D G L D A L L S I V Q M P P G I P V A T T V A I V G V N G A
UniRef90_R5LPP6 P V I G I P C K S Q N L E G I D A L L S T V Q M P P S G I P V A T T V A I N G G
UniRef90_H0US77 P V I G V P L S G G V M G G L D A L L S V A Q M P P G G I P V A T T V G V D G A
UniRef90_A0A023FMG7 P V I N C P P V S G E W G A H D V W S S L R L P S G G L P V C C A S T V I F P E A A
UniRef90_W5JMN1 P V I N C P P V R P D N V A Q D V W S S L N L P S G L P V C C A S T V L Y P E A A
UniRef90_U5Q3V3 P V I G V P I K S S N M D G W D S V L S L Q M P A G I P V A T T V A L D G A
UniRef90_A6UT73 P V I A V P V E S K L D G M D A L L S C V Q M P P G I P V A T T A T V G I D R G
UniRef90_M1V4C9 P V I A C P P S D A F G G A D I F S S L R M P P G G I A P V V S L D P
UniRef90_A8F817 P V I G V P L S A S I N S G I D S L E S I V Q M P P D G I P V A T T M G V D S A
UniRef90_A0A031LMU7 P V I G V P I P S R N L N G L D D S L L S I V Q M P P F G I P V A T V A I G G S
UniRef90_M0ZKC2 P I V F T M K Y L P K N L V M M Q M P R G V P V A T T V A I N A
UniRef90_UPI00035F2A90 P V I G V P I A S G G P M E G R D A L Y S T I M M P P G G I P V A T T V G I
UniRef90_M1Z532 P V I G V P I Q G G A L S G V D A L Y A I V Q M P P K G I P V A T T V A I V N G A
UniRef90_C7P4K7 P V I G V P V Q E K S V D S I V I G M P P Q G A P I T A V D A G K S
UniRef90_F2LVE5 P V I G V P V A S D L M G L D A L L F S I A Q M P P R G I P V A T T F G I G K K G A
UniRef90_UPI00026593AC P V I N C P P V S A D W G A E D I W S S M R V P S G L P V C C A T T V L F P E A A A
UniRef90_Q2J4S5 P V I G V P I S G G A L D G M D S L L A I A Q M P P G V P V A T V G L N N S
UniRef90_A3CRJ0 P V I G V P V S G T L M G L D A L L S I A Q M P P K G V P V A C V G V D N G A
UniRef90_C7NFG1 P V I G V P P L K Q L D G L D S L L S I V Q M P A G V P V A T V S V G G A
UniRef90_G1LHX0 P V I S C P L L T P D W G A Q D P W L F N I L S P
UniRef90_A0B543 P V I G V P V S G K L L G I D A L L S I V Q M P P G V P V A C V G I D A G
UniRef90_D6X4R1 P V I N C P P L K A E N V D R D V W S S L N V P S G L P V C C A S T V L Y P E A
UniRef90_UPI000304DE29 P V I G I P A K S S H L G G L E A L L S T V E M P S G V P V A T V S I G G
UniRef90_W0JPA1 P V I G V P V Q E K S V D S V I G M P T G A P L V A V D A G K S
UniRef90_Q6GLT0 P V I N C P P L T A D W A A Q D V W S S L A R M P S G L P V C C A S T V L S P E A A A
UniRef90_E4U460 P V I A C P P L G G P W A P Y D L A S S L R M P S G V A P L V V L D P
UniRef90_U1MG60 P V I G V P I Q E K S V D S I V I G M P T G A P L L A V D A G K S
UniRef90_J9H4Z4 P V I G V P I K G S V L D G V D A L Y S I V Q M P P G I P V A T T V A I N G A
UniRef90_E3GVY5 P V I G V P C T S Q L Q G L D D S L L S M V N M P P G V P V A T V A I V G I N R G
UniRef90_R4FNG8 P V I N C P P V N S S N I N G Q D I W S S L N V P S G L P V C C A T T V A Y P E A A A
UniRef90_UPI00037BC608 P V V A V P I D A T A M R G L D A L L A M V Q M P P A G I P V A T T M A I G K A G A
UniRef90_F9ZSK3 P V L G V P V P S R H L Q G L D D S L L S I V Q M P P K G V P V A T T F A I G R A G A
UniRef90_U2LA12 P V I E S V E G S N G L A G F D A L L S I V Q M P P Q I P V A T V G I G N A
UniRef90_Q57629 P V I G V P T S T S Y G I K I T P L L T M L H S C P A V V N I D N G F G A G
UniRef90_R5KA17 P V I G V P I S G S V L D G M D A L L S I V Q M P S G L P V A T V A I N G S
UniRef90_T0YUA8 P V L G V P V E T Q A F G G L D D S L L S I V Q M P P A G I P V A T V A I G G A
UniRef90_UPI0003B75048 P V V G V P V P L A K L D G L D D S L L S I V Q M P A G I P V A T V A I G G A
UniRef90_R9SPM3 P V I G V P V E A K L D G L D A L Y A S L Q M P F A P V A T V G I D R G
UniRef90_F9KSC0 P V I G V P I E T K
UniRef90_Q0W7D4 P V I G V P V S A K L G G L D A L L S I V Q M P K G V P V A C V G I D N G
UniRef90_V5GWK5 P V I N C P P G P K D D L S R D V W S S L N V P S G L P V C C A T T V V Y P E T A A
UniRef90_R6X282 P V L G V P I K G M L D G L D A M L S I V Q M P P G I P V A T V G V N A A Q N
UniRef90_A2SCG8 P V L G V P P S K H L Q G L D D S L L H S I V Q M P P K G V P V A T T F A I G V A G A
UniRef90_H2YX05 P V I N C P P P S P Q W C T A D I W S S L R L P S G L P V C A T T L D P
UniRef90_X8A9Q5 P V I G V P V P L A R L D G L D S L L S I V Q M P P A G V P V A T V S I G G A
UniRef90_E2AK80 P V I N C P P L R S D N I E R S I W S S L D V P S G L P V C C A T T V I Y P E A A
UniRef90_B8DYW9 P V I A C P P Y S E R F G G V D I F S T L R M P S G V A P L T I

UniRef90_Q7U3Z2 L N A G L L A A Q I L S V A D E A L A A R L A D Y R R R L H D A V A A K D A R L
UniRef90_UPI00047BA467 V N A A L L A A A I L A L A N D P A L L E A R L S S W R A A Q T E A V A E R P A R
UniRef90_D4YF80 E N A A V L L A V I Q I L A V A D N Q A L L T E K L N D Y K K E L S G Q V R D M Q N A R E
UniRef90_K9RVZ6 Q N A A L L A I Q I L A S H Q R E L L T Q V I T Y R Q S L A Q G V Q T K Q A R L
UniRef90_R7NPB0 A A I L L A I Q M L A L S D E T L A Q K L V D N R K K M A E T V V S K D K A D I
UniRef90_R5ENB4 V N A A L L S A Q I L A V E D A E L A A R L D A R R A A D A A K V L E K D A A A L
UniRef90_Q28997 E N A A L A V A K I F A L K D E G V L A R E K V V Q F Q E N K R A E I Y K A D E E L
UniRef90_X4QXZ5 K N A A I L A A Q I L A L T D P E L A A R I E A D R E A T R A S I L E K N A E V
UniRef90_B1ZUF7 V N A A L F A A Q T L A L S D A K I K R A L E N D Y R A A Q S K K V A E A
UniRef90_R5ARC1 L N A A I L A V Q I L A L S D P E L A G R F N A Y R A G L S E K I V K A N S Q L
UniRef90_H5WKS5 N A A L F A V A M L A N E R P A L R A K L E A F R A K Q T E A A R A M S Q E L
UniRef90_D7DV58 E N A A I L A L Q M L A V S D E E I A K K L K E Y R E S Q K N K V Y N D N L E I
UniRef90_A0A023HY77 F N A A V L A S I I G L W D E N V S L R L Q N W K Q K I T D S V
UniRef90_H5SSP9 I N A A L L A T A L L A N K Y P Q Y R E T L K R Y R E A Q A K A I L L E H P D
UniRef90_A0A031GYE2 A N A A L T A V A M L A A N D D A L A E R L E A F R A T Q T A A A K A M
UniRef90_D8LZN9 E N A G M A A A K I L A L S D E S I A R R I R K I Q K E N Q Q T L F V A D S D I
UniRef90_E5AKX6 K N A A L L C A L K V L G I A D E D L L E R I R K Y A E E Q W
UniRef90_V4TYB5 V N A A L L A I A V L A T T D P A L G D K L E R W R A A R E Q L V L J A
UniRef90_I3ZB79 K N A A Y L L A E I L G L K H S E I Q K A Y D K H R S D L Q G E I
UniRef90_X1LFH1 A G L L A A R L V G A Y E P E V L K K M E E Y Q D N M T E V V L G K A D K L
UniRef90_K8F0U5 Q N A A I L A A E M I A L G N E E I A R K L E L W K L S L G E K I E K A N K E L
UniRef90_E1GU60 F N A A L S A V I Q I L A R E H D D L R K R L V T Y H D E L Q M D V G A V S R R L
UniRef90_E7QRE7 R N A G L L A A R I L G A S E E R I R K Q M L E F Q A D L K R L A Q E K G E R L
UniRef90_C0VZR7 T N A A L L A A S V L A L S D P A L S Q R L E A W R A S R T A V A E R P A
UniRef90_A7IER2 K N A A L L A A Q I L A L G D A E L S G K L L A Y R Q Q M A T E V E A K D R K L
UniRef90_Q3A5S4 E N A G I L L A A Q I F S L K D S A I K K R L H E Y
UniRef90_E7NS55 Y N A G L S A A Q M L A T D D P D L A D R L R D L H A E R R D G V A A V S Q S L
UniRef90_W0K1M7 E N A A L Y V A R I L S V Y D E N L E E S L Y K Y M K T L H R
UniRef90_Q2NEA3
UniRef90_T0Y1U6 E N A A I L L A A E I L A V S D E N L R N K L K Q M K L D M E K K I K E
UniRef90_E0NLY7 A N A A L F A V A M L A N N D P A L R A K L E A F R A E Q T A M A R A M
UniRef90_UPI0002D7A3BA T N A G I L L A A S L A T S D E A L A K R L I D F R T A Q T E S V A E R P
UniRef90_Q2G374 K N A A L Q A A S M L A L Q D D Q L Q Q R L D Y R A A Q T Q K A I E S E A Q L
UniRef90_UPI0002191856 T N A G L L A A Q T I G T T D L G L A E R L F S M R E R T K K E V M E S S D E L
UniRef90_R9BWU5 K N A A I L A A E I L A L Q D T A I S D K L D D Y R K A Q A E K I Y K
UniRef90_R5BAS4 R N A G L L A V R I L A A S D P E L Q A K M R D F Q Q D L Y R Q A K A K G A R L
UniRef90_D1A1Z3 A N A G I L Y A A M V L A G S Y P D L A D A L H E Y R H K K H D A V L J E E S E E L
UniRef90_A0RWQ1 E N A A Y L L A A R I L R L
UniRef90_E0SQP4 D A A V L A A A Q I L S L S D H M I W S R L R C K Q L Y T Y L G L K D S D K E V
UniRef90_C3ZBE4 K N A G Y L J A A Q M L A L G D S T L A A R V K H E R Q Q Q A E A V J A K D A A L
UniRef90_UPI00047038B0 N A A L H A A T I L G L S N F M I W S K L R C K Q L N N F V T L K K A D K E L
UniRef90_B4JK15 V N A A I L L A A Q I L A I E N S S L E K K L K T H K S E L I R K I D V K N K K I
UniRef90_UPI00036030CB E N A A H L L A A R L L G V
UniRef90_J0S6D3
UniRef90_F4KMW6 Q N A A I L L A L E M L A L S D A D L A E R L C R H K S G L K N K I V K A N E A L
UniRef90_C9LEP2 V N A A L L S I E T L A V N D K E L S K K L K E K R I K D S E A I L K K D
UniRef90_R5LVP6 R N A A I L L A A R I L A L S N P E V R S A L E A M K A D N A R K A V D G T N K K I
UniRef90_H0US77 L A A A Q I L L A M S D H V I W A K L R A S Q L N T W V S L K L A D K K I
UniRef90_UPI00023FMG7 A A L N A A Q I L G L D N F L I W S R L R V R Q L D N F C T L V I A D K K L
UniRef90_W5JMN1 K N A A I L A V I Q M L A T G D E Q L M N K L S V F K S E L A A K I S K A N D E L
UniRef90_U5Q3V3 D N A A I L A A E I I A I S D E E V S K K L V E F R E K Q K E V I K S D E K V
UniRef90_A6UT73 G N A A L T A A K I L G I H D P L V R D R V R A F Q K A N R D R L V V D D A E V
UniRef90_M1V4C9 K N A A L F A A V E I L S L N N S K L R E K L K E Y R E D L R R G V L Q K N E D L
UniRef90_A8F817 K N A A L L A
UniRef90_A0A031LMU7 T N A G L L L A V R L L G I S D I N L Q A R M A Q Y Q E D R R D E V L V K G E R L
UniRef90_M0ZKC2
UniRef90_UPI00035F2A90 Y N A G L L L A A E M L A I
UniRef90_M1Z532 F N A A L T A V I Q V L S R K H P E L R E R L Q A Y H D E L Q N E V G T V S R D L
UniRef90_C7P4K7 K N A A L F A A R I L S L K N P T L
UniRef90_F2LVE5 L A A A Q I L L A G L K H D V I W S T L R C E Q M N T W I A L K K S D M K I
UniRef90_UPI00026593AC T N A A I L L A T Q I L A L A D P D L G L K L J A A F K D E F E Q
UniRef90_Q2J4S5 V N A A L L L A R I L
UniRef90_A3CRJ0 R N A G L L L A A R I L A A G T D E L R S R I E A F Q E S L R D A A H A K G Q A L
UniRef90_C7NFG1 E G S A Q F A T Q I F G L N N H L V W A K L R A S L N T W I S L K Q A D K K I
UniRef90_G1LHX0 E N A A L L L A L R M L
UniRef90_A0B543 A A L S A A N I I G L G N Y V V W S R L R V R Q L D N Y V T L A K A D K G V
UniRef90_D6X4R1 E N A A I L L A
UniRef90_UPI000304DE29 F N A A L S A A Q I L A R Q H D D V R D R L V A Y H E S L Q S E V G T V S R A L
UniRef90_W0JPA1 Q F A A Q I F G L N N H L V W S K L R S C T L N T W I S L K Q A D M K L
UniRef90_G6GLT0 E N A A L L A A V K I L A L A E P G L A E A V R S Y Q A A Q R E K L E
UniRef90_E4U460 Y N A A L S A A Q L L A R E H Q V L R Q R L T A L R A N R R S E V A A V S R A L
UniRef90_U1MG60 M N A A L L L A V I Q M L A L G D A E L A A R F A D Y K T G L K N K I V K A N E E L
UniRef90_J9H4Z4 D N A A M L L A
UniRef90_E3GVY5 L A A V I Q I H A L H D H L L W S R L R L K A L N T F V S L K K S D K S I
UniRef90_R4FNG8 R N A G I F A A Q I I A T S D E T L A L K L E A Y K Q E M V A G V I K K A D A L
UniRef90_UPI00037BC608
UniRef90_F9ZSK3 K N A A Y L L A L L E I L A L K Y P E I K T K L I E F R K K L A E E A A
UniRef90_U2LA12 V F A G L I A
UniRef90_Q57629 K N A A Y L L A L Q I I G N S N A E V
UniRef90_R5KA17
UniRef90_T0YUA8
UniRef90_UPI0003B75048 K N A G I L L A A R I L A T G D D A L A A R L A G Y A A G L I D L V E Q K N E D L
UniRef90_R9SPM3 D N A A I L L A G Q I I A T Y D K N M R A N I H D L R S G Y K N K V Y N S E K E L
UniRef90_F9KSC0
UniRef90_Q0W7D4 D N A A H L L A I R I L
UniRef90_V5GWK5 L A A A Q S I A L T N Y I V W S K L R V R R L G F F R S L T K A D Q E
UniRef90_R6X282 A A I L L A A E M I A L S D E R V A Q V V A D W K A G L G A K I E K A N K E L
UniRef90_A2SCG8 A N A A L F A V A L L A H D D Q S L R E Q L D A W R A R Q T E A A R A Q S A A L
UniRef90_H2YX05 Q N A A L C S A Q I L A Q R N P A V W A R L R V K Q M K N F L D L K Q S N A E L
UniRef90_X8A9Q5 R N A G L L L A V R I L G S S D P A L R A R I V D F Q Q Q L A E T V R A K D E A L
UniRef90_E2AK80 F A A A Q I H A M H N H L V W A H L R V K Q L D N F L S L K R G D S K L
UniRef90_B8DYW9

UniRef90_Q7U3Z2	
UniRef90_UPI00047BA467	
UniRef90_D4YF80	
UniRef90_K9RVZ6	
UniRef90_R7NPB0	Q
UniRef90_R5ENB4	Q
UniRef90_Q28997	R
UniRef90_X4QXZ5	E
UniRef90_B1ZUF7	
UniRef90_R5ARC1	
UniRef90_H5WKS5	K
UniRef90_D7DV58	Q
UniRef90_A0A023HY77	
UniRef90_H5SSP9	
UniRef90_A0A031GYE2	
UniRef90_D8LZN9	R
UniRef90_E5AKX6	
UniRef90_V4TYB5	
UniRef90_I3ZB79	
UniRef90_X1LFH1	
UniRef90_K8F0U5	
UniRef90_E1GU60	
UniRef90_E7QRE7	H
UniRef90_C0VZR7	K
UniRef90_A7IER2	
UniRef90_Q3A5S4	Q
UniRef90_E7NS55	
UniRef90_W0K1M7	H
UniRef90_Q2NEA3	
UniRef90_T0Y1U6	
UniRef90_E0ONLY7	
UniRef90_UPI0002D7A3BA	
UniRef90_Q2G374	
UniRef90_UPI0002191856	
UniRef90_R9BWU5	
UniRef90_R5BAS4	
UniRef90_D1A1Z3	R
UniRef90_A0RWQ1	R
UniRef90_E0SQP4	
UniRef90_C3ZBE4	R
UniRef90_UPI00047038B0	Q
UniRef90_B4JK15	R
UniRef90_UPI00036030CB	K
UniRef90_J0S6D3	
UniRef90_F4KMW6	
UniRef90_C9LEP2	
UniRef90_R5LYP6	
UniRef90_H0US77	
UniRef90_A0A023FMG7	K
UniRef90_W5JMN1	R
UniRef90_U5Q3V3	K
UniRef90_A6UT73	R
UniRef90_M1V4C9	
UniRef90_A8F8I7	K
UniRef90_A0A031LMU7	
UniRef90_M0ZKC2	E
UniRef90_UPI00035F2A90	
UniRef90_M1Z532	
UniRef90_C7P4K7	H
UniRef90_F2LVE5	
UniRef90_UPI00026593AC	R
UniRef90_Q2J4S5	
UniRef90_A3CRJ0	
UniRef90_C7NFG1	
UniRef90_G1LHX0	R
UniRef90_A0B543	
UniRef90_D6X4R1	K
UniRef90_UPI000304DE29	
UniRef90_W0JPA1	H
UniRef90_Q6GLT0	R
UniRef90_E4U460	
UniRef90_U1MG60	H
UniRef90_J9H4Z4	K
UniRef90_E3GVY5	
UniRef90_R4FNG8	
UniRef90_UPI00037BC608	Q
UniRef90_F9ZSK3	
UniRef90_U2LA12	
UniRef90_Q57629	
UniRef90_R5KA17	
UniRef90_T0YUA8	
UniRef90_UPI0003B75048	K
UniRef90_R9SPM3	
UniRef90_F9KSC0	
UniRef90_Q0W7D4	
UniRef90_V5GWK5	
UniRef90_R6X282	
UniRef90_A2SCG8	
UniRef90_H2YX05	K
UniRef90_X8A9Q5	Q
UniRef90_E2AK80	R
UniRef90_B8DYW9	

1 10 20 30 40
UniRef90_K2E3P2 K L V I I A G S E S D R E F V E P A L E L A K N L N I D V E F E L Y S A H R R
UniRef90_G1WEM7 P I V S I I M G S T S D L P V M E K A Q W L N D H K I A F E V N A L S A H R R
UniRef90_A714B5 D V S I I C G S A S D A A I A D K A K K I L D E F H K I T W D Y Q V L S A H R R
UniRef90_R7A891 K V A V C T G G T A D I P V A E E A K K T A E F F G C R V E R Y V A G I H R R
UniRef90_F6BB87 K I G L L A A G T S D I P V A E E A K E T A E I M G C E Y D V G L A G V H R R
UniRef90_UPI00046FDDAB V A V C T G G T A D I P V A E E A A Q T A E Y F G C I F D V G V A G I H R
UniRef90_R5FH40
UniRef90_X1AMS7
UniRef90_D7CP89 A G K V A V V T A G T S D L P V A E E A A V T A E L M G N I Y D V G V A G I H R R
UniRef90_I7J4X0 K I A V V T G G T A D I P V A E E A A V T A E L M G N I Y D V G V A G I H R R
UniRef90_R9N8U1 K I A V C T A G T A D I P V A E E A A Q T A E Y F G S N V E R G V S G L H R R
UniRef90_U5UNG6 M K V S V L C A G T S D L P V A E E A A T A E V M G V Q Y D V G V S G L H R R
UniRef90_W1WUX0 R V G I I M G S K S D L D T M K K A S A V L D E F M N I P Y E M V I A S A H R R
UniRef90_I4EEK8 R V G I V M G S K S D L P Y L E Q T T K V L D D L G L D Y E M H I M S A H R R
UniRef90_UPI00046F29C7 V V S A G T S D L P I A M E A A T T L E V M G C R V E V G V A G I H R R
UniRef90_S5ZB16 I A V I C A G T S D L G V A E E A A T A E M F D C E Y D V G V A G I H R R
UniRef90_UPI000474D5A9 P Q V L I I L G S K S D A P V A K K A V G V L K E L G I S S G T V V A S A H R R
UniRef90_W2TXU2 C R A V I I M G S P A D L S H C E K I A A S C K S L G I T P I L R V S S A H K
UniRef90_AOA031J8Z9
UniRef90_I3VVF4 I G V V A A G T S D L P V A E E A A V T A E L M G N I Y D V G V A G I H R R
UniRef90_L5MWR6 V A V V A A G T S D W Q V A Q E A A W T A R C F G V I V D V G V A G I H R R
UniRef90_X1LSW2 P L V G V I L G S K T D A D M I Q P A I D I L E E L G I D Y Q L S V I S A H R R
UniRef90_B2A311 K V A L V S A G T S D L A V A E E A F E T A Q V M G A P V E K F V A G I H R R
UniRef90_B8DKQ5 E I G I I T A G T S D L P V A E E A R V T C E M L G V I S D V G V A G V H R R
UniRef90_X1KSK3 S Q K V V I L F G S K V D V D F A K P L R R M L K E F G I N F D Q R I T S A H K
UniRef90_UPI0002EF710D V G I I T A G S S D W P I A E E A Q L V V R H M G C A R D V G V A G I H R R
UniRef90_D1CCR8 V A L I M G S E S D R A I A E N R V I N V L D N T D Y S Y D V G V A G I H R R
UniRef90_D5EBI9 R V A A L S A G T S D L P V L E E A V A V A R E M G V E N D V G V A G V H R R
UniRef90_AOA023X0G5 M F V S I I M G S K S D S A H A D K I D Q K L K N F G I K C E K H V A S A H K
UniRef90_K1ZVG6 I A V I C A G T G D I P V A E E C A V T C E T Y G S H V E R G V A G I H R R
UniRef90_UPI00037B22B I T I L T A G T A D I P V A E E A A A T L S G F E V K R D V G V A G I H R R
UniRef90_UPI0003FDDF1A E I A V V T A G T S D M Y V A E E A A T A E F L G N I Y D A G V A G I H R R
UniRef90_E3PUT7
UniRef90_T1BB79 P I V S I I M G S T S D L P V M E K A A Q L L N D M H V P F E M N A L S A H R R
UniRef90_Q8A4S9 I A V I T A G T A D I P V A E E A A V T A E L C G F Q W D V G V A G I H R R
UniRef90_D8FUX2 V G V I T A G T A D I P V A E E A R V V A S E M G C E Y D V G V A G I H R R
UniRef90_Q8TTK3 K V A I I M G S E S D R A V A D K A V A V L A E Y N V P Y E V K M I S A H R R
UniRef90_Q64A93 K V L I I C G S K S D L E I A K K A E E V L A N N I K Y E V V A S A H R R
UniRef90_UPI000379D53E K V G I L T A G T S D I N I A E E A R V I V E E G C E Y D I G V A G I H R R
UniRef90_A5UM82 R I A I T T A G T S D I P V A E E A F V T C D I L G N E Y D I G V A G I H R R
UniRef90_UPI0003B3F954 E I L I V S G G T S D L P V A D E A Y Y T A K F M G N K V E R G V A G I H R R
UniRef90_UPI000465E95A R V V V L M G S T N D M E Y A S R I C D G C K T L G I A A I K R V S S A H K
UniRef90_U1NV47 R V T V I C A G T S D L P V A E E A A V T A E I F G A E T D V G V A G I H R R
UniRef90_G8NRX8 V V C S A G T A D I P S V A E E A A K T A E F F G S N Y D V G V S G I H R R
UniRef90_H1PT41 V V V L S A G T S D L P V A E E A E V T A R Y L G R R T E V G V A G I H R R
UniRef90_UPI0003B73F70 K T A V F T A G T S D K P V A E E A C V T A M F L G L E Y D V G I A C I Y R
UniRef90_D2RHE9 E V L I L S G G T S D L P V A E E A Q L A L Q W H G I S C D V G V A G I H R R
UniRef90_UPI0002002086 P S V V V A C A G T S D L P V A E E A A L T L S C G I R V E C G V A G I H R R
UniRef90_K0S4K9
UniRef90_UPI000371A43B P T M K S A V D I L E E I G L K T E V C I L S A H R R
UniRef90_UPI00046C8047 T S D L P V A E E A A V T A E L S G F E W D V G V A G I H R R
UniRef90_U5DKT5 I G I L T A G T S D I P V A E E A A V T A E L S G F E W D V G V A G I H R R
UniRef90_UPI00038C3C6C C R V V V L M G S A S D L G H C E K I K K A C G N F G I P C E L R V T S A H K
UniRef90_B1L8M4 K V G V I T A G T S D V P F A E E T S L I L E E L G V S Y D A G V A G I H R R
UniRef90_U5WSQ3 V A V V T A G T S D I P V A E E A C R T L E F L G F I A D V G V A G I W R
UniRef90_J3A2T9 V G I V T G G T S D A P V A G E A A V I A R E M G A T V E F V V A H L G R
UniRef90_Q3AX12 A P E V A V I S G G S D R T V V S E A T L A L Q C H G I V M D V G V A G I H R R
UniRef90_E1RDT2 V A V I A A G T S D A R V A E E A K V I A E E M G C A Y D V G A G I H R R
UniRef90_K2E8T8 V I S A G T A D L H V A E E A L I T L K A A G I R T E C G V A G A H R R
UniRef90_F2NC81 I L V M S A G T S D L P V A E E A L L T A R I M G N R V E P G V A G A H R R
UniRef90_UPI00044CW50 V R V G V I S G G T S D R R V A E E A E L S L K V I H G V A T D V G V A G I H R R
UniRef90_F3YYK7 A G Q A M V I A A G A S D L P V A L I E V L G C A M F F G L D C D V G V A G I H R R
UniRef90_D7BNM1 K I G I T A G T S D L P I E K A E I D Y L Q R V N A Q F T V I N V Y S A H R R
UniRef90_C7MAY4 V I V A C A G T S D L P V A R E A E L T A R H L G R P T D I G V A G I H R R
UniRef90_Q12TU9 V A I I S A G T A D I D V A E E A R M A A S E M G C I Y D V G V A G F H R R
UniRef90_A6DMK0 K L L I I S A G T S D E S V K E A H Y C A K A F G L I Q D L G V A G I H R R
UniRef90_HOBML0 R I A V L S A G T S D A P V A E E A V T F V A R A M G A E P D V G V A G I H R R
UniRef90_C7NV11 D V G I V T A G T S D A V P A G E A A A I V G E M G A R V D V G V A G I A R
UniRef90_E5Y9C4 R V A V I S A G T A D G F V A W E A A R T L G A Y L G I G H D C G V A G L W R
UniRef90_UPI0003336654 C G N F G I P C E L R V T S A H K
UniRef90_AORXX9 K V G I I C A G T S D I G I A E E A R L M C R A M N C S Y D V G V A G M H R R
UniRef90_Q03DK8 I A I V T A G T S D I G V A E E A A L T A E T F G N I Y D V G V A G I H R R
UniRef90_MORB58 E I V V L M G S T S D V G H C E K I K V S G N F G I P R E L R V T S T H K
UniRef90_D8PAP8 V L I V T A G T A D I P V A E E A R V T A D I M G S K Y D V G V A G I H R R
UniRef90_K0YIE7 V V V A A A G T S D L R V S E E A A L T A E M M G S R Y D V G V A G I H R R
UniRef90_C7LP57 D V I V T A G S S D L P V S R E A L G T A R F L G L S T D V G V A G I H R R
UniRef90_UPI000360865E K I A I T A G T S D I P I A E E A A V T C D L L G N N Y E K G V A G I H R R
UniRef90_T2GA50 V V V T A G T S D L P V A L E A F G T A R F L G L A P D V G V A G I H R R
UniRef90_G3IFL2
UniRef90_R6PJZ1 A G K I V I A T G G T S D M P V A E E A A L T A E I Y G N E Y D V G V A G M H R R
UniRef90_L0LTD9 A P D I A V V T A G T S D M P Q A D E A V L R T L A Y L G A P I D I G V A S G L W A R
UniRef90_L9ZSA2 P I V G I V T G G T V D E P V A D E A E V V C L D A G A T V D R V A S L A R
UniRef90_I3D0L0 K V G I L T A G T S D I G V A E E S R L M C E A M N C R C D V G V A G I Q R R
UniRef90_V7HXP4 I A I V T A G T S D L S V A E E A A V T A Q Q F G N R V E K V G V A G I H R R
UniRef90_V2RRH2 Q V C I A T A G T S D I P V A E E A A V I L E A F G S K Y D V G V A G I H R R
UniRef90_M0J4X1 V T I V T G G T S D A E A A G E A A V V L R E M G A N V E R G V A H L G R
UniRef90_C0GGE3 K V L V A A G T A D L P V A E E A A L T V E V M G S R V E R G V A G I H R R
UniRef90_E9UPW0 R V C V V A A G T S D G P V A E E A A L T A R V H M G A G V E R G V A G I H R R
UniRef90_K9Z748 K I S I V T A G T A D L P V A E E A A T G E L C G F T W D V G V A G I H R R
UniRef90_UPI00047AF9E9 V A V V C A G T A D I P V A E E A A Q T A E Y F G T K V E R G V S G I H R R
UniRef90_M1Z191 Q I L V V T A G T S D I P V A E E A A T A E L L G S K V D K G V A G I H R R
UniRef90_R5QNZ3 A G K I A V C T G G T A D I P V A E E A A R T I E F F G R F Y D V G V A G I H R R

UniRef90_K2E3P2 N L E E L L E Y L D K I E K N Q T K I I A V A G L A A A L P G L V I A A R V K V
UniRef90_G1WEM7 T P D A V E R F A K G A Q A R G I Q V I I A A A G M S A A L P G V I A A S T T
UniRef90_A714B5 D P D K L D A Y I K N C P S G I Y L A I A A G L S A A L P G T V V I A S K T D K
UniRef90_R7A891 L L S K R E A I A R A N C V I A V A G M E G A L P G T V V I A S G L V E N
UniRef90_F6BB87 L F K P L K K M I E E D V C C I I V V A G M E G A L P S L V V T S L V D V
UniRef90_UPI00046FDDAB L L A Q R E R L D K A S C I V A V A G M E G A L P G T V I A G L V E C
UniRef90_R5FH40 M P N K T R E F A K S V K D K G I E V I I A G A G K A A H L P G V I A S Y T T V
UniRef90_X1AMS7 L F D R L E D I N E A R V L I V V A G M E G A L P S V V A G G L T R R
UniRef90_D7CP89 L F S N M D K I K G S S C I V A V A G M E G A L P S V V A G L V D V
UniRef90_I7J4X0 L L S K L D G I Q E A N C V I A V A G M E G A L P S V I G G L V S R
UniRef90_R9N8U1 L L E Y M Q E L R S G R V S I V I A G M E G A L P S V V A G G L V D H
UniRef90_U5UNG6 T P E A V K D F V T R L E D E S G A I A F I A G A G A A H L P G V V A S F T T L
UniRef90_W1WUX0 T P D L V Q Q F A A G A R D R G V K V I I A A A G G A A H L P G V V A A W T T L
UniRef90_I4EEK8 L F D K L P K I R S G L V T V V A G M E G A L P S V I G G L V S H
UniRef90_UPI00046F29C7 L F H H I E A I R A A T V S I V V A G M E G A L P S V I S G L V S H
UniRef90_S5ZB16 T P D R V K E L V A G S D A E V F I A I A G L S A A L P G A V A A A T V R
UniRef90_UPI000474D5A9 T T R E T L E I L L A E Y E D D I P T V V V A V A G R S N G L P G V L A G N T C
UniRef90_W2TXU2
UniRef90_UPI000474J8Z9 L M S K V D E L R S F R V I I C I A G M E G A L P T V V G G L V A C
UniRef90_I3VVF4 L F Q R L E E L R G A S V I V C V A G M E G A L P S V L A G L V D K
UniRef90_L5MWR6 N P E K V R E Y G L E A E K R G T E V I I A A A G Y A A H L P S V L A S W T P I
UniRef90_X1LSW2 L L N F Y D Q L T E A S C V I V V A G M E G A L P S V V G G L V D V
UniRef90_B2A311 L F D R L D E L R K A R V L I V V A G M E G A L P S V V G G L V S Q
UniRef90_B8DKQ5 T P K K V L E L L R E Y E K R E D E V Y I T V A G R S N A L P S G V V D A N T K Y
UniRef90_X1KSK3
UniRef90_UPI0002EF710D M S A Y S T Q A E E R G L Q I I I A G A G G A A H L P G M V A A Q T L L
UniRef90_D1CCR8 L F P D L R E M L G Q G V V D V I I V V A G M D G A L P S V I S G L V D V
UniRef90_D5EBI9 N P D E L E E Y V G K D D A F V Y I A A G L S A A L P G V I A S K T G K
UniRef90_A0A023X0G5 L A R P L E E V R K F D P D C V L V A A G M E G A L P T L V C A L V D V
UniRef90_K1ZVG6 V P E K V L D I A K N E K K N E A T C Y I T I A G R S N A L P S G F V A A N T A Y
UniRef90_UPI00037FB22B L F D Q L P K I R S A V A V I V C A G M E G A L P S V V A G L V D K
UniRef90_UPI0003FDDF1A L L S N W P I I A D A D V L I V A G M E G A L P T V V G G L A D C
UniRef90_E3PUT7 L L S K Q D E L R R G C R V V I A V A G M E G A L P S V V A G G L V E V
UniRef90_T1BB79 T P D L L F A Y A E Q A P A R G L A V I I A G A G G A A H L P G M L A A K A W L
UniRef90_Q8A4S9 T P E A V E E F A K N A R S R G I K V I I A A A G M A A A L P G V I A A N T T L
UniRef90_D8FUX2 L L P E L Q K L S Q R H V I T Y E A D V L I A V A G M E G A L P S V V A G L A N C
UniRef90_Q8TTK3 L L P E L Q K L I R N P G A I V V A A G R E G T L P T I V S G L V D V
UniRef90_Q64A93 N P D E L D R Y L K E S E D V S V I A I A G L S A A L P G V I A S K T E K
UniRef90_UPI000379D53E E P E R V K D L V T K S D A D V F I A I A G L S A A L P G F I A S Y T N K
UniRef90_A5UM82 L F P Q I A H M I K E G V E V L I V C A G M E G A L P S V V A G L V D I
UniRef90_UPI0003B3F954 L L D K K E L L D R A R V I T V A G M E G A L P S V I A G I T N V
UniRef90_UPI000465E95A L L D K K E L L D R A R V I T V A G M E G A L P S V I A G I T N V
UniRef90_U1NV47 T T E N V L E I I A E Y E D S I P T V F V A T A G R S N G L P L V I A G N S A N L
UniRef90_G8NRX8 L L A Q L D K L R V A D V I V C C A G M E G A L P S V V G G L V E A
UniRef90_H1PT41 L L S K L D I I Q S A N C V I A V A G M E G A L P S V V A G L V N K
UniRef90_UPI0003B73F70 V L G H L E L L I R T A R A V V V A A G M D G A L P S V V A G L V P S
UniRef90_D2RHE9 L V E P L K R V K E E D V D S I I A I A G M E G A L P S V L A G L V D V
UniRef90_UPI0002002086 L L D Q L E R L R Q A R V L I A C A G M E G A L P T V L A G L L P Q
UniRef90_K0S4K9 I G A L P R L R D P A V G C V I V C A G M D G A L P S V V A G L V D V
UniRef90_UPI000371A43B T P I E M M N Y A R E A E F N N V K V I I A G A G G S A H L P G M I A A L T I I
UniRef90_UPI00046CB047 L L F A S H A D T L R R V N C V V A V A G M E G A L P S V I A G L V D V
UniRef90_U5DKT5 L L F A S H A D T L R R V N C V V A V A G M E G A L P S V I A G M A C C
UniRef90_UPI00038C3C6C G P D E T L R L K A E Y E G D I P T V F V A V A G R S N G L P T R S C A S T C
UniRef90_B1L8M4 S F Y A L S K T K D S D L L I V E A G M E G I L P S L T A S L T D L
UniRef90_U5WSQ3 L L E R V D E I L R D A D V L V I A A G R E G A L P T V V A G G L T G Q
UniRef90_J3A2T9 V L D H L E T L R Q T A R V L I A C A G M E G A L P T V V I T G L V P Q
UniRef90_Q3AX12 L L D Q L P R L Q T A R V L I A C A G M E G A L P T V V I T G L V P Q
UniRef90_E1RDT2 L F P A L K E V S D A N V Y V V C A G R E G T L P T I V A G L V D K
UniRef90_K2E8T8 I F N E T E K I L N A S A I I V I A G M E G A L P S F V G G L S G C
UniRef90_F2NC81 L L A Y Q E K L Q E A S V F I V V A G M E G A L P S V V A G G L V K R
UniRef90_A4CW50 L L A V L P S L Q Q L D V I A C A G M E G A L P T V L A G L V P Q
UniRef90_F3YYK7 L L Q R G E S L A K A R L H I V V A G M E G A L P S V V A G L Y G K
UniRef90_D7BNM1 A P D H T L E F A R S V R D N G Y E V I I A A A G M S A H L A G V L A A H T T G
UniRef90_C7MAY4 L Q S R L P E L R E A A C V V V A A G M D G A L P T V V A G Q I S A
UniRef90_Q12TU9 L I S E M K S F E K N R P D A I V V A A G R E G T L P T V V S S L I D V
UniRef90_A6DMK0 L L T Y R E E I S Q A D C I I I A A G M E G A L P S V I G G L T T A
UniRef90_HOBML0 L L D R L D D I L A I A P E F D T Y D C L V V V A G M E G A L P S V I G G L T G V
UniRef90_C7NV11 L A E R L E E I N T F D A V I V V A G L D A A L V S V M G L T P K
UniRef90_E5Y9C4 G P D E T L R I K A E Y E G D I P T V F V A V A G R S N G L P V L S G N T A Y
UniRef90_UPI0003336654 L F P V L K E M V A G D V D V I V A V A G M E G A L A T I V S S M V D L
UniRef90_AORXX9 L F A N L D D I K N A S V V I V I A G M E G A L V S V V G G L V D K
UniRef90_Q03DK8 G P E E T L R I K A E Y E G D V L P T V I A V A G R S N G L P V M S G N T A Y
UniRef90_MORB58 L L G Q Q E R L H D A R A L V V A G M D G V L P S V V G G L V R Q
UniRef90_D8PAP8 L L A H A D E I A R A R A I V A V A G M E G A L P S V I G G M A S C
UniRef90_K0YIE7 L Q P H L P S L R Q A K V V I A V A G M E G A L P S V I G G L V K A
UniRef90_C7LP57 L F G E Y K R I K E A N V I I T V A G M E G A L P S V I A G L I N V P L I
UniRef90_UPI000360865E L T P H L S L L G N A R L L I V V A G M E G A L P S V L A G L T G R
UniRef90_T2GA50
UniRef90_G3IFL2 L M D H V E E I M S A R V I V A I A G M E G A L P S V I G G M A D C
UniRef90_R6PJZ1 L L E R V E E L R T F P V I V A V A G M D G A L P S V L G G L V P G
UniRef90_L0LTD9 T L D Q V D R F R G A D V L I V A A G M D G A L P T V V A G L V D T
UniRef90_L9ZSA2 I F P V L K K M I K E D V D C I I V A A G M E G A L A T L V S T M V D I
UniRef90_I3D0L0 L F N H L T L I Q K A R V V L I V A G M E G A L A S V V G G L V S A P V I
UniRef90_V7HXP4 L M D N M D L I R S S N C I I A V A G M E G A L P S V I A G L V S I P V I
UniRef90_V2RRH2 V L D H L D S L R D A D V L I V A A G R E G A L P T V V A G L V D T
UniRef90_M0J4X1 L F D N H D K L M S A N V L V V A G M E G A L A S V V G G L V D K
UniRef90_C0GGE3 L M A V R D R L D D A D C L I V V A G M E G A L P S V V G G L V G V
UniRef90_E9UPW0 L L N H R H L I T Q A D I L I V V A G M E G A L P S V V A G L A N C P V I A V P
UniRef90_K9Z748 L L S K T D I L Q K A N C I I A I A G M E G A L A S V I G G L V S N
UniRef90_UPI00047AF9E9 L L D K V D R L R E A R V I V V A G M D G A L P S V V G G L V S C
UniRef90_M1Z191 L L S K I E E I R T S D V I A V A G M E G A L A S V V A G L V R S P V I A V
UniRef90_R5QNZ3

UniRef90_K2E3P2 P V I G V P N D V G P L H G V D A L L S M V Q M P K G V P V A C M A V G K P G M
UniRef90_G1WEM7 L P V T G V P T K G M L D G L D A M L S I I Q M P P G V P V A T V G V N A A
UniRef90_A714B5 P V I G V P V T Y G S G T F L N G L D A L L S I L V Q M P P K G V P V A C V G V D N G
UniRef90_R7A891 P V I G V P T Y G A S F H N G L S A L L T M I N S C P A G V I S V V A V N I D N G
UniRef90_F6BB87 P V I G V P T S V G Y G V K I T P I L T M L H C A P G L A I V N I D N G F G A G
UniRef90_UPI00046FDDAB P V I G V P V E S K T F K G L D S L L T S I V Q M S P A G I P V A T V A I N I D N G G
UniRef90_R5FH40 P V V A V P T Y G A S F H N G L S A L L T M L N S C P A G I S V V A V N I D N G
UniRef90_X1AMS7 P V I G V P I K T S D L G G L D S L L S I V Q M P C S G V V P V A C V S I I D G A
UniRef90_D7CP89 P V I G V P T Y G A N F G G L S A L L T S M L N T S C A G I S V V A V N I D N G
UniRef90_I7J4X0 P V I G V P T Y G A N F K G L S A L L T M L N S C A G I S V V N I D N G F G A G
UniRef90_R9N8U1 P V I G V P T Y G A S L N G L S A L L T M I N S C A G I S V V A V N I D N G
UniRef90_U5UNG6 P V Y A V P T Y G A N L K G V S L L A M I N S C P G T S V L N I D N G F G A G
UniRef90_W1WUX0 P V I G I P L N A T A L L K G I D S L L A I V Q M X X X V Q R P T Y
UniRef90_I4EEK8 P V I G V P L P A T D L Q G W D A L L A I V Q M P A G V P V A T V A V G T P G A
UniRef90_UPI00046F29C7 P I A V P T Y G T N F N G L A A L L S M L N A S C C A G I S V V N I D N G F G A G
UniRef90_S5ZB16 P V I G V P T Y G A H F Q G L S A L L T M L N S C P G G I S V V N I D N G F G A G
UniRef90_UPI000474D5A9 P V I G V P V S G K V N L D A V L S V Q M P G G I P V A A V G L D R G
UniRef90_W2TXU2 P V I N C P P V I T E N N V L T D L W S S L R M P S G I G C S T V M
UniRef90_A0A031J8Z9 P V L G V P V E S K A L K G M D S L L S I V Q M P G G I P V G T L A I G K P G A
UniRef90_I3VVF4 P I A V P T Y G A N F H G L S A L L A M L N S C S G V S V V N I D N G F G A A
UniRef90_L5MWR6 P I A V P T Y G A S F G G V S A L L T M L N S C A G V A V N I D N G F G A G
UniRef90_X1LSW2 P V I G V P L P T Y G S K L K G I D A L L S I V Q M P A G V P V A C V G I N A A
UniRef90_B2A311 P V I A C P T Y G A N F N G L S S M L T M L N S C A G V S V V N I D N G F G A G
UniRef90_B8DKQ5 P L I A V P S V G Y G A N F A G L S A L L G M L T S C A S G I T V V N I D N G
UniRef90_X1KSK3 P V I A C P C S E K L S I D I Y S S L R M P R G V A P
UniRef90_UPI0002EF710D P V I G V P V K S S T L N G Q D S L L S I V Q M P R G V P V G T V A I G G A G A
UniRef90_D1CCR8 P V V G I P T S T A G G Q G W G A L L S M L Q T C P G L V V N I D N G I G G G
UniRef90_D5EBI9 P V I G V P V G A K L G G L D A L L S T A Q M P P G L P V A A V G I D N G
UniRef90_A0A023X0G5 P V I G L P T S T G Y G D G T A A I L G M L Q T C P G L T V V N V D N G V G A G
UniRef90_K1ZVG6 P V I A C P P F A D K T D M M L N I N S T L Q M P S
UniRef90_UPI00037FB22B P V I G V P T Y G A N F K G V S A L L G M L N T C A S G L T V V N I D N G
UniRef90_UPI0003FDDF1A P V I A V P T Y G A N F N G L S A L L T M L N S C A G V G V G L S V V N I D N G
UniRef90_E3PUT7 P V I A V P T Y G A N F G G L S A L L T M L N S C A S G L S V V N I D N G
UniRef90_T1BB79 P V L G V P V Q S Q A L N G M D S I V Q M P A G V P V G T L A I G R A G A
UniRef90_Q8A4S9 P V I G V P V K G S V L D G V D A L Y S I I Q M P P
UniRef90_D8FUX2 P V I G L P T Y G A N F G G L A P L L T M L N S C A G I G V V N I D N G
UniRef90_Q8TTK3 P V I G L P V S T A G G G G K A A L L S M L Q S T L A V V N I D A G F V A G
UniRef90_Q64A93 P V I G V P V S G K L L G M D A L L S M V Q M P G V P V G V V G I D S G
UniRef90_UPI000379D53E P V I G V P V S A K L N G L D A L L S M V Q M P S G V P A T V G I D
UniRef90_A5UM82 P V I G V P T S V G Y G V G E G V A L N A M L Q S C A P G I A V V N I D N G
UniRef90_UPI0003B3F954 P I A V P T Y G T S L N G M A A L F A M L N S C S G I S V V N I D N G F G A A
UniRef90_UPI000465E95A P V I A V P T Y G A N F G G L S A L L G M L N S C A S G L S V V N I D N G
UniRef90_U1NV47 P V I N A P L D A D W A K D I W S S V H T P S G L G C S T V
UniRef90_G8NRX8 P V I A V P T Y G A A F E G V A A L L G M L N A C P N I T V V N I D N G F G A G
UniRef90_H1PT41 P V I A V P T Y G A N M K G L S A L L T M I N S C C P G V A V V N I D N G
UniRef90_UPI0003B73F70 P V V A V P T Y G A S L K G I A A L L T M L N S C P G V A V V N I D N G
UniRef90_D2RHE9 P I A V P T S V G Y L G G I T T L F S M L S C P A G V A V V N I D N G F G A G
UniRef90_UPI0002002086 P V I G V P V S V G Y G G Q A S L H G M L A S C A P G L S V V N I D N G
UniRef90_K0S4K9 P T V A C P T Y G A S F N G V A S L L T M L N S C P G V S V V N I D N G F G A A
UniRef90_UPI000371A43B P V I G V P V E S K S L K G I D S L L S I V Q M P A G V P V A T V A I N
UniRef90_UPI00046CB047 P V I A V P T Y G A S F G G I T A L L A M L N S C A G I S V V N I D N G F G A A
UniRef90_U5DKT5 P V I A V P T Y G T S F G G I A P L L T M L N S C A G I G V M N V D N G F
UniRef90_UPI00038C3C6C L L H A T P
UniRef90_B1L8M4 P V I A V P T P V G Y G F G G E G L G A L S T M L Q T C V P G L V V V N I G N T
UniRef90_U5WSQ3 P M I A V P T S T G Y G D G E T A L R S M L T S C A G V I T N I D N G F
UniRef90_J3A2T9 P V I G L P V P T G Y G E S H A A L D G M L Q S C T I I S V V N I G A G F V A G
UniRef90_Q3AX12 P V I G V P V S V G Y G I S Q G G R T A L E G M L A S C A P G L L V T N I D N G
UniRef90_E1RDT2 P V I G V P V Y G F M G R G E A A L A S M L Q S C A V I T V V N I D S G F T A G
UniRef90_K2E8T8 P V I A V P T Y G A H F E G I T A L L G M L N S C A S V S V V N I D N G F G A A
UniRef90_F2NC81 P V I A V P T Y G A S F G G I A A L L G M L N S C A G V A V V N I D N G F G A G
UniRef90_A4CW50 P V I G V P V S V G Y G V S A G G R A A L D G M L A S C A P G L T V V N I D N G
UniRef90_F3YYK7 P V I G V P T S V G Y G T G L G G I A A L L S M L N A C A P G I A V V N I D N G
UniRef90_D7BNM1 P
UniRef90_C7MAY4 P V V A L P T S L G Y G V A S G G V T A A L T M L S A C A P G I G V V N I D N G
UniRef90_Q12TU9 P V I G L P V S T G Y G K G E A A L L S M L Q S C S I L S V V N I D A G F V A G
UniRef90_A6DMK0 P I A I P T S V G Y G A N M E G V T T M M A M L S S C A S G L S V V N I D N G
UniRef90_HOBML0 P V V A V P T Y G A S F E G L T A L F A M L N S C P G V V V C N I D N G F G A A
UniRef90_C7NV11 P V I G L P V S T G Y G D G E A A A L G M L Q S C T A L T T V N V D A G F T A G
UniRef90_E5Y9C4 P I E G V P T S V G Y G G G R A A L A S M L S S C A P G V G I M N I D N G
UniRef90_UPI0003336654 P V I S C P P L T P D W G A Q D V W S S L R L P S P S G L G C S T D P I S P
UniRef90_A0RXX9 P V I G V P S S A Y G G D G I G A L A A M L Q S C T G V S V V N I D N G I G A G
UniRef90_Q03DK8 P V I A V P T Y G T N L D G I T A L F S M L N S C S G V S V V N I D N G F G A A
UniRef90_MORB58 P V I S C A P
UniRef90_D8PAP8 P V I A V P T Y G A S H F G G L T A A L L T M L N S C A G V G V M N I D N G F
UniRef90_K0YIE7 P V I A V P T Y G A S F F G G L T A L L A M L N S C C A G V G V V N I D N G F G G
UniRef90_C7LP57 P I A A V P T S T G Y F A G L T P L L A M L N S C P G G V G V V N I D N G F
UniRef90_UPI000360865E A V P S S V G Y G A S F N G L T A L L A M L N C C P G G V A V V N I D N G F G A A
UniRef90_T2GA50 P I L A V P T Y G A S F G G L A A L L A M L N C C P G G A V L N I D N G F G A A
UniRef90_G3IFL2 P V I S C P P I T P D W G A Q D V W S S L R L P S P S G L G C S T I F L S P
UniRef90_R6PJZ1 P V I A V P T Y G A N F G G L S A L L S M L N S C A G I S V V N I D N G F G A G
UniRef90_L0LTD9 V I C L P T S T G Y G G E T A A L H A A L A S C C A P G L T V V N I D N G
UniRef90_L9ZSA2 P V I A V P V D S Y G G N G D A A L A G M L Q S C C T V L S V V N I D A G F V A G
UniRef90_I3D0L0 P I I G I P T S A G Y G K G I A A L A S M L Q S C C S G L S V V N I D
UniRef90_V7HXP4 A V P T S I G Y G T N F G G L T A A L L S M L N S C A G V S V V N I D N G F G A A
UniRef90_V2RRH2 A V P T S V G Y G A N L G G I A A L L G M L N S C C A G V S V V N I D N G F G A A
UniRef90_M0J4X1 P V I G L P V S T G Y G D G E A A V L G M L Q S C C T V L S V V N V D A G F I A G
UniRef90_C0GGE3 P I I A V P T Y G A N F G G L S A L L T M L N S C C A G V S V V N I D N G F G G G
UniRef90_E9UPW0 P M I G V P T Y G A S F G G L A A L L A M L N S C C A G V I S V V N I D N G Y G A G
UniRef90_K9Z748 T S I G Y G T S F G G L S A L L T M L N S C A G I G V V N I D N G
UniRef90_UPI00047AF9E9 P V I A V P T Y G A N M G G L S A L L T M L N S C C A N G V T V V N I D N G
UniRef90_M1Z191 P V I G V P T Y G A S F G G V A A L L T M L N S C C A N G V G A V V N I D N G
UniRef90_R5QNZ3 P T S V G Y G A S F A G V S A L L S M L N S C A E G V C T V N I D N G

	130	140	150	160
UniRef90_K2E3P2	L N A V H F A A R I L G L			
UniRef90_G1WEM7	Q N A A I L L A A Q I I A L L	S N K D V A A Q V A E W K A S	L G Q K I E K A N A D L	
UniRef90_A714B5	D N A A H L L A I R I L K L			
UniRef90_R7A891	Y G A A Y L L A A Q I L A V R E P K			
UniRef90_F6BB87	A F A G L I A S M I			
UniRef90_UPI00046FDDAB	Q N A G L L A I E I I S L F D E S	I K K N L K E F R E N L H T Q V R N K N N K L		
UniRef90_R5FH40	Y G A G Y L A T Q I			
UniRef90_X1AMS7	K N A A L L A I Q I L A L K Y			
UniRef90_D7CP89	F G A A A L A F S I L L			
UniRef90_I7J4X0	Y I A S M I			
UniRef90_R9N8U1	Y G A G Y I A T Q I N R L G Y			
UniRef90_U5UNG6	Y N A S M I			
UniRef90_W1WUX0				
UniRef90_I4EEK8	R N A A F L S A Q I I G L S E P E F A D A Y Q A Y R D R Q A E A I R A			
UniRef90_UPI00046F29C7	Y N A A L I			
UniRef90_S5ZB16	Y S A A L I			
UniRef90_UPI000474D5A9	D N A A L L L A A Q I I A L H D S A V S G K L L K H R Q A M A D A V L R D S E E V			
UniRef90_W2TXU2				
UniRef90_A0A031J8Z9	I N A A L L L A A A I L A T T D E A L A Q R L D A W R E K Q T S D V A E T P E			
UniRef90_I3VVF4	Y S A S L I			
UniRef90_L5MWR6	Y L A G M I H R Q			
UniRef90_X1LSW2	K N A A L L L A A Q I L G I K Y D K I K Q A Y A E Y K Q R L A			
UniRef90_B2A311	Y Q A A L I			
UniRef90_B8DKQ5	F G A A C A A C R I			
UniRef90_X1KSK3				
UniRef90_UPI0002EF710D	H N A G L L L A A Q I L A N N D P			
UniRef90_D1CCR8	A V A G M L A R Q V L			
UniRef90_D5EBI9	A N A A H M A I R I L K L K			
UniRef90_A0A023X0G5	A S A A M I A N Q			
UniRef90_K1ZVG6				
UniRef90_UPI00037FB22B	F G A A T F A V T I I			
UniRef90_UPI0003FDDF1A	F G A A I L L A C Q I L R L G E R L K R K I K			
UniRef90_E3PUT7	F G A G Y L A S T I			
UniRef90_T1BB79	I N A A L L L A A S I L A L H D A V L R Q R L I D F R R A Q T D A V L A A			
UniRef90_Q8A4S9				
UniRef90_D8FUX2	F G A A I L L A C Q I L			
UniRef90_Q8TTK3	A Y A A R I A N M I A A A S			
UniRef90_Q64A93	K N A A L L L A L R M L N V K			
UniRef90_UPI000379D53E				
UniRef90_A5UM82	F G A G V F A L T I I			
UniRef90_UPI0003B3F954	C T A S L I			
UniRef90_UPI000465E95A	F G A G Y L A S M I			
UniRef90_U1NV47				
UniRef90_G8NRX8	Y V A T L I A			
UniRef90_H1PT41	F G A G Y I A T Q I			
UniRef90_UPI0003B73F70	Y G A G H L L A A Q I A A			
UniRef90_D2RHE9	V F A Y L			
UniRef90_UPI0002002086	Y G A A M A A L R I L			
UniRef90_K0S4K9	V F A			
UniRef90_UPI000371A43B				
UniRef90_UPI00046CB047	Y Q A D M I			
UniRef90_U5DKT5	G A A M L A G K I L			
UniRef90_UPI00038C3C6C				
UniRef90_B1L8M4	V G A A A A A V R I L			
UniRef90_U5WSQ3	G A A C A A N R I L			
UniRef90_J3A2T9	A Q A G L V A			
UniRef90_Q3AX12	Y G A A M A A L R I L			
UniRef90_E1RDT2	A F A A R I A			
UniRef90_K2E8T8	N I A S L I V K Q			
UniRef90_F2NC81	Y V A A L I N R R			
UniRef90_A4CW50	Y G A A M A A L R I L			
UniRef90_F3YYK7	Y G A A M A A K L L G			
UniRef90_D7BNM1				
UniRef90_C7MAY4	Y G A G H L L A A Q I			
UniRef90_Q12TU9	A F A A R I A N S I			
UniRef90_A6DMK0	F G A A Y A A L R M I			
UniRef90_H0BML0	V F A A R L A R R			
UniRef90_C7NV11	A Q A G L I A R Q L D A A			
UniRef90_E5Y9C4	Y G A A C A A A R V V			
UniRef90_UPI0003336654	A G A T V L V T Q F I T Q S A A D I R K K L K K			
UniRef90_A0RXX9	A V A A S I C R R V			
UniRef90_Q03DK8	Y N A S I I			
UniRef90_M0RB58				
UniRef90_D8PAP8	G A G C L A H R I			
UniRef90_K0YIE7	Y Q A A L I			
UniRef90_C7LP57				
UniRef90_UPI000360865E	Y M A S L I			
UniRef90_T2GA50	T M A A K L			
UniRef90_G3IFL2	E G S A Q F A A Q I F G L Y N H L V W A K L R A S I L N T W I S L K Q A D Q K I			
UniRef90_R6PJZ1	Y L A S M I			
UniRef90_L0LTD9	Y G A A C A A F R A L S M			
UniRef90_L9ZSA2	A Q A V L I S R A I			
UniRef90_I3D0L0				
UniRef90_V7HXP4	Y N A S L I			
UniRef90_V2RRH2	N Q A H L I N M L A V K			
UniRef90_M0J4X1	S Q A G L I A R A V A G A			
UniRef90_C0GGE3	Y S A A L I			
UniRef90_E9UPW0				
UniRef90_K9Z748	F G A A M L A G Q I L R L A N			
UniRef90_UPI00047AF9E9	Y G A G Y V A T Q I L A V G R E D			
UniRef90_M1Z191	F G A G C L A H R I			
UniRef90_R5QNZ3	F G A G V S A L R M L R I G			

UniRef90_K2E3P2
UniRef90_G1WEM7
UniRef90_A7I4B5
UniRef90_R7A891
UniRef90_F6BB87
UniRef90_UPI00046FDDAB
UniRef90_R5FH40
UniRef90_X1AMS7
UniRef90_D7CP89
UniRef90_I7J4X0
UniRef90_R9N8U1
UniRef90_U5UNG6
UniRef90_W1WUX0
UniRef90_I4EEK8
UniRef90_UPI00046F29C7
UniRef90_S5ZB16
UniRef90_UPI000474D5A9
UniRef90_W2TXU2
UniRef90_A0A031J8Z9
UniRef90_I3VVF4
UniRef90_L5MWR6
UniRef90_X1LSW2
UniRef90_B2A311
UniRef90_B8DKQ5
UniRef90_X1KSK3
UniRef90_UPI0002EF710D
UniRef90_D1CCR8
UniRef90_D5EBI9
UniRef90_A0A023X0G5
UniRef90_K1ZVG6
UniRef90_UPI00037FB22B
UniRef90_UPI0003FDDF1A
UniRef90_E3PUT7
UniRef90_T1BB79
UniRef90_Q8A4S9
UniRef90_D8FUX2
UniRef90_Q8TTK3
UniRef90_Q64A93
UniRef90_UPI000379D53E
UniRef90_A5UM82
UniRef90_UPI0003B3F954
UniRef90_UPI000465E95A
UniRef90_U1NV47
UniRef90_G8NRX8
UniRef90_H1PT41
UniRef90_UPI0003B73F70
UniRef90_D2RHE9
UniRef90_UPI0002002086
UniRef90_K0S4K9
UniRef90_UPI000371A43B
UniRef90_UPI00046CB047
UniRef90_U5DKT5
UniRef90_UPI00038C3C6C
UniRef90_B1L8M4
UniRef90_U5WSQ3
UniRef90_J3A2T9
UniRef90_Q3AX12
UniRef90_E1RDT2
UniRef90_K2E8T8
UniRef90_F2NC81
UniRef90_A4CW50
UniRef90_F3YYK7
UniRef90_D7BNM1
UniRef90_C7MAY4
UniRef90_Q12TU9
UniRef90_A6DMK0
UniRef90_H0BML0
UniRef90_C7NV11
UniRef90_E5Y9C4
UniRef90_UPI0003336654
UniRef90_AORXX9
UniRef90_Q03DK8
UniRef90_M0RB58
UniRef90_D8PAP8
UniRef90_K0YIE7
UniRef90_C7LP57
UniRef90_UPI000360865E
UniRef90_T2GA50
UniRef90_G3IFL2
UniRef90_R6PJZ1
UniRef90_L0LTD9
UniRef90_L9ZSA2
UniRef90_I3D0L0
UniRef90_V7HXP4
UniRef90_V2RRH2
UniRef90_M0J4X1
UniRef90_C0GGE3
UniRef90_E9UPW0
UniRef90_K9Z748
UniRef90_UPI00047AF9E9
UniRef90_M1Z191
UniRef90_R5QNZ3

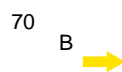
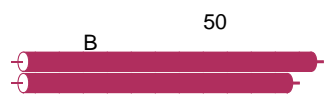
R

UniRef90_T0CWF3
UniRef90_M0CZA5
UniRef90_A6NR77
UniRef90_F2MNJ6
UniRef90_K9VZ71
UniRef90_Q1IS01
UniRef90_B9XSS8
UniRef90_S7U423
UniRef90_C1E1Z5
UniRef90_UPI00046FFAE1
UniRef90_UPI0004706277
UniRef90_UPI00037FD264
UniRef90_U3ABN5
UniRef90_A0A016X167
UniRef90_C8VZ38
UniRef90_F7JP26
UniRef90_I3L27
UniRef90_Q7MAN0
UniRef90_W2BQ41
UniRef90_G7V936
UniRef90_E9LKM0
UniRef90_K9SU17
UniRef90_U7UBH4
UniRef90_J2PCS7
UniRef90_MOD8L7
UniRef90_K9YBD5
UniRef90_UPI0004728108
UniRef90_K9D366
UniRef90_V4FH45
UniRef90_UPI000346B03D
UniRef90_E6S744
UniRef90_E7QP51
UniRef90_R5EX35
UniRef90_D1Y238
UniRef90_Q2JUA8
UniRef90_V4JI05
UniRef90_B5YFE6
UniRef90_A5CYW5
UniRef90_A2SS81
UniRef90_Q10VP0
UniRef90_M0DSU9
UniRef90_A8ZWH1
UniRef90_B1I251
UniRef90_UPI0004733CA7
UniRef90_UPI000470036A
UniRef90_UPI0004257C64
UniRef90_M0MVC8
UniRef90_K8DZY8
UniRef90_R6LXX9
UniRef90_M1XK42
UniRef90_M3F9V0
UniRef90_D9PM65
UniRef90_UPI0002E1819A
UniRef90_K1JK44
UniRef90_I4D7T2
UniRef90_UPI000375A0A2
UniRef90_D5SMJ4
UniRef90_E6VTU9
UniRef90_G7WBJ1
UniRef90_R7Y2I4
UniRef90_D5XDT3
UniRef90_I2CRT9
UniRef90_K9UBD3
UniRef90_UPI00037803A4
UniRef90_F4BVH6
UniRef90_A1HPZ0
UniRef90_K5DZ73
UniRef90_E1YJA2
UniRef90_G1UV18
UniRef90_A0A024G9G2
UniRef90_UPI0003797E7C
UniRef90_UPI000469D411
UniRef90_W4LRF3
UniRef90_X1F1Y5
UniRef90_A7NJQ0
UniRef90_D6V8J3
UniRef90_K9P6S7
UniRef90_UPI0004785283
UniRef90_UPI000476D671
UniRef90_D3L498
UniRef90_D2SCP9
UniRef90_A0A014NXX1

Q

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5

sol0
jhmm
jpssm

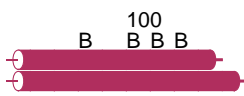


80

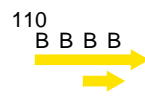
sol0
jhmm
jpssm



90



100



110

120
B

