

QUERY	1	10	20	30	40																																												
UniRef90_E2FB12	H	Q	R	K	Q	A	L	G	E	R	L	L	Y	P	R	V	Q	A	M	Q	P	E	L	A	S	K	I	T	G	M	L	L	L	E	L	S	P	A	Q	L	L	L	L	M	L				
UniRef90_T1FZT6	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	H	R	M	Y	P	E	Q	Q	A	G	K	I	T	G	M	L	L	L	E	I	D	N	C	A	T	E	L	L	L	L	M	L
UniRef90_UPI00033163A6	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	S	A	M	Y	T	T	R	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	Q	L	L	L	L	L	M	L	
UniRef90_H0XHQ7	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	S	A	M	Y	T	T	R	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	Q	L	L	L	L	L	M	L	
UniRef90_UPI0003F10853	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	N	Y	R	Q	P	H	L	A	T	K	I	T	G	M	L	L	L	E	I	D	N	S	S	Q	L	L	L	L	L	M	L	
UniRef90_M2XW36	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	Q	A	R	H	P	A	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	I	M	L
UniRef90_UPI0003F0B507	Q	K	H	M	L	G	E	R	R	L	F	P	P	L	I	Y	Q	A	T	H	P	A	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	L	M	L	
UniRef90_J9KAC6	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	Q	R	Y	P	K	F	T	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	L	M	L	
UniRef90_S2JTK0	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	Q	R	Y	P	K	F	T	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	L	M	L	
UniRef90_UPI00046B1DF4	Q	K	E	M	L	G	E	W	L	F	P	P	L	I	Q	A	T	R	P	T	L	A	S	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	L	M	L			
UniRef90_A7SSV8	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	Q	E	N	H	P	D	M	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_T2MGJ0	Q	K	Q	K	Q	M	L	G	E	R	R	L	Y	P	P	L	I	Q	E	N	H	P	D	M	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_G3VBL8	Q	K	R	V	L	G	E	R	L	F	P	P	L	I	Q	D	L	H	P	T	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	L	M	L			
UniRef90_L0P802	Q	K	Q	K	Q	M	L	G	E	V	L	Y	P	P	L	I	Q	E	N	H	P	D	M	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_T1GCU7	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	Q	E	R	M	Y	A	Q	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_T0S113	Q	K	N	M	I	G	E	R	L	F	P	P	L	I	E	K	S	Q	P	Q	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	L	M	L			
UniRef90_K2QU85	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	H	A	M	Q	F	E	D	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_D8QMI1	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	R	T	H	Q	F	E	D	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_R7QQX6	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	A	E	L	Q	P	T	L	S	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_J5R3Y8	Q	R	Q	K	Q	M	L	G	E	A	I	Y	P	P	L	I	H	E	S	R	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_U9STY5	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	S	D	R	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_D8U5R4	Q	K	M	M	I	G	E	R	L	F	P	P	L	I	A	E	L	Q	S	P	D	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L			
UniRef90_F7E640	Q	K	R	L	L	G	E	R	L	F	P	P	L	I	Q	Q	T	M	H	S	P	T	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_UPI000332F067	Q	K	Q	K	Q	M	L	G	E	W	L	F	P	P	L	I	Q	Q	T	M	H	S	P	T	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L
UniRef90_M7WXP8	Q	K	Q	K	Q	M	L	G	E	A	L	Y	P	P	L	I	H	A	S	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_G3WD81	Q	K	Q	K	Q	M	L	G	D	R	L	Y	P	P	L	I	Y	G	N	V	H	A	Q	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_R9AAA6	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	F	G	N	V	H	A	Q	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_N6TR22	Q	K	Q	I	I	G	E	Q	L	F	S	T	V	E	K	L	K	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L					
UniRef90_I1C6C0	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	N	A	Q	H	S	F	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L			
UniRef90_L9JD26	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	Q	T	M	H	S	N	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_R1DHz4	Q	K	Q	L	L	G	E	R	L	F	P	P	L	I	Q	A	Q	E	P	A	M	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_V4Sj94	R	M	L	G	E	R	L	F	P	P	L	I	E	N	D	L	E	H	A	S	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L							
UniRef90_S8CAL8	Q	R	T	M	L	G	E	N	L	Y	P	P	L	I	V	E	N	D	L	E	H	A	S	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_Q4RjX8	Q	K	Q	L	L	G	E	R	L	Y	P	P	L	I	S	A	L	H	P	N	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_M2NGA1	Q	K	Q	K	Q	M	L	G	E	A	L	Y	P	P	L	I	H	A	Q	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_V2XNW9	Q	K	Q	K	Q	M	L	G	E	V	I	Y	M	K	I	A	T	T	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L			
UniRef90_I1FUZ2	K	Q	T	I	G	E	H	L	Y	R	A	I	S	A	S	H	P	D	K	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L						
UniRef90_D8SVF1	Q	R	I	M	L	G	E	Q	L	Y	P	P	L	I	D	C	I	E	H	N	H	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_E9C1R9	Q	K	R	V	L	G	E	T	L	F	P	P	L	I	A	A	T	Q	A	D	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_R8BWL4	Q	K	Q	K	Q	M	L	G	E	A	I	F	P	P	L	I	Q	A	A	M	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_Q62029	K	Q	M	L	G	E	R	L	F	P	P	L	I	Q	A	A	M	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_C5KVD1	Q	K	Q	K	Q	M	L	G	E	R	L	Y	P	P	L	I	Q	R	I	H	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L	
UniRef90_M0T1G9	Q	R	L	M	L	G	E	Q	L	Y	P	P	L	I	V	E	R	I	E	Q	E	Q	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L			
UniRef90_B9FG07	Q	R	T	L	G	E	S	L	Y	P	P	L	I	E	L	S	M	A	A	D	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L				
UniRef90_E4X3W0	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	Q	S	M	A	A	D	L	A	G	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L		
UniRef90_G3U2H0	Q	K	Q	T	L	G	E	R	V	P	P	F	I	Q	A	A	M	H	P	T	L	A	G	E	I	T	G	I	L	L	E	T	D	N	S	S	E	V	L	L	L	L	M	L					
UniRef90_UPI00032A7D54	Q	K	D	L	G	E	H	L	Y	M	L	V	Q	K	L	K	P	E	N	L	A	A	K	I	T	G	M	L	L	L	E	I	D	N	S	S	E	V	L	L	L	L	M	L					
UniRef90_U6MXC6	Q	K	Q	K	Q	M	L	G	E	R	L	F	P	P	L	I	A	R	H	Q	P	E	L	A	G	K	I	T	G	M	L	L	L	E	I														

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UniRef90_K1QF11
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UniRef90_M4FAT8

		50	60																			
UniRef90_D6X547	N	E	G	S	L	K	A	K	V	E	E	A	V	A	V	L	Q	A	H	N		
UniRef90_Q39953	D	L	L	R	Q	L	K	A	K	V	E	E	A	M	D	V	L	R				
UniRef90_UPI00032A8321	E	S	P	E	D	L	K	L	K	V	S	E	E	A	L	Q	V	L	H	E	A	A
UniRef90_B6K033	Q	D	I	E	A	L	N	G	K	V	D	E	A	L	S	V	L	K	E			
UniRef90_K9HU53	D	S	E	E	A	M	N	A	K	V	Q	E	A	N	T	V	L	Q	E			
UniRef90_W4VRF3	A	S	E	E	S	L	R	Q	K	A	N	E	A	L	E	L	I	M	S			
UniRef90_UPI000332FC44	E	T	P	V	S	L	A	N	K	A	D	E	A	V	T	A	L	Q	E			
UniRef90_E4Z1K3	D	N	P	G	L	L	Q	E	K	V	Q	E	A	V	T	V	L	T	Q	H		
UniRef90_UPI000443623B	E	S	P	E	S	L	H	S	K	V	K	E	A	L	A	V	L	Q	A	H		
UniRef90_A8P4D9	E	N	E	E	L	L	Q	S	K	V	S	E	A	A	S	V	L					
UniRef90_UPI0004410B8B	E	N	N	E	A	L	T	G	K	V	D	E	A	T	A	V	L	N	E	Y		
UniRef90_S9V989	D	T	P	S	N	L	D	A	K	V	K	E	A	L	D	V	L	N	R	H	A	
UniRef90_K7VF25	C	S	S	E	M	L	S	V	K	V	D	E	A	L	Q	V	L	Q	A			
UniRef90_Q5YBC0	E	T	P	E	A	L	A	D	K	V	A	E	A	V	E	V	L	R	A	H	N	
UniRef90_Q7RDM4	E	N	E	D	Q	L	K	K	K	I	D	E	A	L	A							
UniRef90_L5JXN7	E	S	P	E	S	L	N	A	K	V												
UniRef90_R0FV08	K	S	P	E	D	L	A	G	K	V	H	E	A	F	E	V	L	K	S			
UniRef90_Q7PY72	A	S	D	E	N	L	R	Q	R	I	G	E	A	V	E	L	I					
UniRef90_M1AZP8	K	S	P	E	S	L	A	A	M	V	Q	K	A	V	E	M	L	N				
UniRef90_T1MW81	N	S	Q	D	T	L	S	A	K	V	N	E	Y	Q	V	A	L	Q				
UniRef90_H2KSS8	E	S	K	E	S	L	R	A	K	L	E	E	G	I	S	V	L	K				
UniRef90_G2WSN3	E	D	D	N	A	M	K	L	K	V	D	E	A	L	G	V	Y	E	E	Y		
UniRef90_K5W880	A	S	H	D	A	L	D	G	K	V	S	E	A	L	N	V	L	Q	E			
UniRef90_A0A023F324	A	S	E	D	A	L	R	A	K	V	S	E	E	A	M	Q	I	L	L	A	R	G
UniRef90_I1NH63	E	S	P	E	D	L	K	T	K	V	S	E	A	M	Q	V	L	H	E			
UniRef90_H3FCZ6	Q	D	P	D	L	F	R	S	K	V	E	E	A	A	Q	V	L	K	S			
UniRef90_R7TG72	T	C	E	D	Q	L	R	Q	R	V	Y	E	A	E	E	I	I	M	S	H	G	
UniRef90_K3Y3K6	E	S	P	E	A	L	R	A	K	V	R	E	A	V	V	V	L	Q	R			
UniRef90_A0A022QL58	E	V	P	D	A	L	R	A	K	V	D	E	A	M	E	T	L	R	R	H		
UniRef90_G4U2X7	K	D	T	P	S	L	D	M	K	I	N	E	A	L	A	V	L	H	E	Y	A	
UniRef90_M4E0W6	E	S	F	V	A	L	E	S	K	V	A	E	A	T	A	I	L	R				
UniRef90_G7DZ99	D	S	R	E	A	L	D	V	K	I	A	E	A	L	A	V	L	E	Q	Y		
UniRef90_T1KLA9	A	S	D	E	S	L	R	A	K	V	N	E	A	V	D	I	I	L	T	H	G	
UniRef90_I1H6W4	C	S	P	D	M	L	S	A	K	I	N	E	A	C	A	Q	L	L	Q			
UniRef90_J9K4E9	A	S	E	E	A	L	R	M	R	V	N	E	A	T	A	L	L	M	Q			
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UniRef90_X6M1C4	N	N	E	G	Q	L	R	N	K	I	N	E	A	L	S	V	L	K	E	H		
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UniRef90_H9MDG8

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UniRef90_V9KYV4 T D R L A L Q T A V E Q A Q T A L

