

QUERY	1	10	20	30	40																																										
UniRef90_H8LF50	M	P	V	I	T	L	P	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	P	G	L	A	K	K	A	L	A	G	K	V				
UniRef90_Q0BXC2	M	I	N	V	T	L	P	D	D	G	N	V	K	R	E	Y	A	E	G	A	T	T	L	P	M	D	V	A	L	D	I	G	S	K	S	L	A	K	K	A	L	A	A	K	V		
UniRef90_G8THU4	M	I	K	I	T	F	P	D	D	G	N	V	R	E	F	Y	A	E	G	T	T	L	P	M	D	V	A	L	D	I	G	S	S	E	S	L	A	K	K	A	L	A	A	K	V		
UniRef90_D3HEV7	M	V	K	I	T	F	P	D	D	G	A	V	R	E	F	Y	A	E	G	T	T	L	P	M	D	V	A	L	D	I	G	S	S	N	S	L	A	K	K	A	L	A	A	G	K	F	
UniRef90_E3IF64	M	L	R	I	T	F	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	S	N	S	L	A	K	K	A	L	A	A	G	K	F
UniRef90_K8Z7G6	M	L	R	I	T	F	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	S	N	S	L	A	K	K	A	L	A	A	G	K	F
UniRef90_B6BWY4	M	I	K	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	E	G	L	G	R	A	A	L	A	A	G	H	V	
UniRef90_T1AUY3	M	I	K	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	G	P	G	L	A	K	A	A	L	A	A	G	R	V
UniRef90_R7BYJ1	M	I	T	V	T	L	P	D	D	A	S	V	R	E	F	Y	A	E	G	V	T	T	L	P	M	D	V	A	L	D	I	G	G	P	G	L	A	K	A	A	L	A	A	G	R	V	
UniRef90_A0A014QAC2	M	L	K	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	P	G	L	A	K	A	A	L	A	A	G	R	V	
UniRef90_UPI00047C702B	M	I	N	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	T	G	L	A	K	A	A	L	A	A	G	K	V	
UniRef90_UPI000370DB6B	M	I	Q	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	T	G	L	A	K	A	A	L	A	A	G	K	V	
UniRef90_L0WH31	M	V	A	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	A	G	L	A	K	A	A	L	A	A	G	R	V	
UniRef90_B9L100	M	L	Y	V	F	T	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	H	T	E	V	G	A	K	A	A	L	A	A	G	K	V
UniRef90_E1SSM0	M	P	V	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	P	G	L	A	K	A	A	L	A	A	G	R	V	
UniRef90_I2EZP3	M	I	K	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	E	G	L	A	R	N	V	L	A	A	G	K	V	
UniRef90_M5E103	M	V	K	V	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	G	S	L	G	R	A	V	L	A	A	G	K	V	
UniRef90_UPI00037BE5F2	M	P	V	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	P	G	L	A	K	A	A	L	A	A	G	K	V	
UniRef90_R2PY02	M	I	Q	I	T	F	P	D	D	G	A	Q	K	E	F	A	A	G	I	T	T	K	E	I	A	A	S	S	I	S	N	S	L	A	K	K	A	L	A	A	G	K	F				
UniRef90_S6BT66	M	P	V	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	P	G	L	A	K	A	A	L	A	A	G	K	L	
UniRef90_R5FXP9	M	I	T	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	P	P	R	L	A	K	E	V	L	A	A	T	V	
UniRef90_F8FCG0	M	V	K	V	T	F	P	D	D	G	A	V	R	E	F	Y	A	E	G	T	T	V	E	I	A	A	G	S	I	S	S	S	G	L	K	K	N	A	V	L	A	A	G	K	V		
UniRef90_A0A023NN66	M	I	E	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	A	G	L	A	K	A	T	L	A	A	G	K	V	
UniRef90_W4ERF1	M	I	N	L	K	F	P	D	D	G	A	V	K	E	F	S	K	G	T	T	E	I	A	A	Q	S	I	S	S	P	G	L	R	K	A	I	V	L	A	A	G	K	F				
UniRef90_U5C301	M	L	K	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	E	G	L	A	R	N	V	L	A	A	G	K	V	
UniRef90_D3SG47	M	P	A	V	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	P	G	L	A	K	A	T	L	A	A	G	K	V	
UniRef90_F6IGA1	M	F	K	I	S	L	P	D	D	G	S	V	R	E	F	Y	A	E	G	T	T	V	E	I	A	A	G	S	I	G	P	G	L	A	K	A	T	L	A	A	A	R	I	V			
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UniRef90_I4CUJ6	M	P	T	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	A	G	L	A	K	A	T	I	A	A	G	K	V	
UniRef90_X0U1V8	M	V	F	V	F	T	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	H	T	D	L	G	H	K	A	I	G	A	K	V		
UniRef90_A6FFS4	M	P	V	I	T	L	P	D	D	G	A	Q	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	S	S	S	G	L	A	K	A	A	L	A	A	G	R	I	V
UniRef90_UPI0003FECDAF	M	I	A	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	T	G	L	A	K	A	T	L	A	A	G	E	V	
UniRef90_Q472N7	M	I	A	I	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	T	G	L	A	K	A	T	L	A	A	G	K	V	
UniRef90_Q4K3E1	M	I	R	I	T	L	P	D	D	G	A	Q	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	S	G	L	A	K	A	A	L	A	A	G	R	V		
UniRef90_UPI0002378513	M	I	R	I	T	L	P	D	D	G	A	Q	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	S	G	L	A	K	A	A	L	A	A	G	R	V		
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UniRef90_UPI000468103E	M	L	K	L	T	F	P	D	D	S	V	K	E	F	D	E	G	T	T	L	D	V	A	K	S	I	S	T	S	L	G	K	K	A	V	L	A	A	G	K	L						
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UniRef90_A5G6A3	M	V	Y	V	F	T	P	D	D	N	S	V	K	E	Y	P	K	G	S	T	P	I	D	F	A	Y	S	H	T	D	V	G	H	R	C	V	G	A	K	V							
UniRef90_R5DI62	M	L	K	I	T	F	P	D	D	N	S	V	K	E	Y	A	E	G	T	T	A	M	Q	I	A	E	S	S	S	S	R	L	A	Q	E	V	L	A	A	S	I	V					
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UniRef90_L1QLC0	M	I	K	I	T	L	P	D	D	G	S	V	R	E	F	Y	A	E	G	S	S	V	L	D	A	A	K	S	S	E	G	L	A	R	A	V	A	Y	A	A	G	K	I				
UniRef90_U2EPR8	M	I	K	I	S	L	K	D	D	G	S	V	K	E	Y	A	E	G	S	S	V	I	E	V	A	K	D	L	S	E	G	L	A	R	A	V	A	C	A	G	S	V					
UniRef90_R7J001	M	I	K	I	T	F	P	D	D	N	S	V	K	E	Y	A	K	G	T	T	P	L	E	I	A	K	S	S	E	R	L	A	A	D	V	L	A	A	G	T	V						
UniRef90_A7H9X3	M	I	V	F	V	F	T	P	D	D	G	A	V	K	S	L	P	R	G	A	T	P	V	D	F	A	Y	S	H	S	E	V	G	E	H	T	V	L	A	A	G	K	V				
UniRef90_R6GH55	M	I	N	V	T	L	P	D	D	G	S	V	K	R	E	F	Y	D	H	A	G	V	S	P	M	D	V	A	L	D	I	G	G	M	G	L	Y	K	A	A	C	A	A	K	L		
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