

QUERY	1	10	20	30	40																																							
UniRef90_I0QYQ2	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_D4GLJ5	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_R1GWH1	M	H	V	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L
UniRef90_G9QHJ3	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_I3E978	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_E5WMD3	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_E3I9G8	MK	V	I	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_R1AYN1	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_W0HVV6	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_UPI00036E078D	MK	I	I	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_F6B8Z2	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_G4NZ01	MK	I	I	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_V5BTG4	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_B8D188	MK	V	L	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_C4LAJ8	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_D5DHM8	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_UPI0004689298	MR	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_L0MBT2		K	V	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L
UniRef90_B7R7I7	MK	V	L	I	A	P	D	K	F	K	G	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L		
UniRef90_UPI0003AB21FA	MK	L	V	L	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_UPI000427661F	MK	F	V	L	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_W8QT35	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_F3MC06		L	V	L	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_F4A7C8	MK	F	V	L	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_UPI00035C5A21	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_M4XIL0	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_A4WDX3	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_B8K3F4	MK	V	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_F5LAF0	S	H	I	V	L	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L
UniRef90_D3VJ12	MR	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_R6GIG7	MK	V	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_S6F3I9	MK	I	L	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_E1SML9	MK	I	V	V	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_C5QMR8	L	K	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L
UniRef90_Q630A0	MK	L	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_U5S6M4	MK	F	V	V	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_Q7N004	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_U3A235	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_L0K8X3	MK	V	L	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_J0MKV1	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_B9CXD6	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_I2B604	MK	I	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_B5FAP0	MK	L	V	I	A	P	D	S	S	F	K	E	S	L	S	A	L	D	V	A	K	A	I	E	E	Q	G	F	F	R	E	I	F	P	P	H	A	D	E	Y	V	K	L	
UniRef90_U6ET20	MK	F	V	L	A	P	D																																					

QUERY	S	G	D	A	R	S	A	F	I	90	M	A	A	A	S	G	L	E	Q	V	100	P	A	Q	R	D	N	D	P	L	K	110	T	T	S	W	G	T	G	E	L	I	R	120
UniRef90_I0QYQ2	S	G	D	E	K	I	A	F	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_D4GLJ5	S	G	N	E	D	T	A	Y	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_R1GWH1	L	G	D	S	E	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_G9QHJ3	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_I3E978	L	G	N	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_E5WMD3	M	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_E3I9G8	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_R1AYN1	L	G	D	R	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_W0HVV6	L	S	G	D	R	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI00036E078D	M	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_F6B8Z2	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_G4NZ01	M	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_V5BTG4	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_B8D188	L	G	N	S	G	E	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_C4LAJ8	L	T	G	S	G	E	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_D5DHM8	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI0004689298	S	G	D	G	S	C	A	Y	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_L0MBT2	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_B7R7I7	L	R	D	R	N	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI0003AB21FA	L	L	G	D	G	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI000427661F	L	L	G	N	S	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_W8QT35	L	L	G	D	G	Q	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_F3MC06	S	G	D	G	S	T	G	V	L	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_F4ATC8	L	L	G	D	G	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI00035C5A21	L	L	G	D	G	E	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_M4XIL0	S	G	D	G	Q	S	A	F	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_A4WDX3	S	G	D	E	Q	S	A	F	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_B8K3F4	L	G	D	G	S	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_F5LAF0	L	L	P	D	S	H	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_D3VJ12	L	L	G	D	G	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_R6GIG7	L	L	D	D	S	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_S6F3I9	S	G	D	G	E	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_E1SML9	L	S	G	D	G	S	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_C5QMR8	S	N	Q	H	Q	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_Q630A0	L	L	G	D	G	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_U5S6M4	L	L	G	D	C	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_Q7N004	L	L	G	D	G	E	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_U3A235	L	L	G	D	G	K	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_L0K8X3	L	L	G	D	G	Q	N	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R		
UniRef90_J0MKV1	T	G	D	G	E	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_B9CXD6	S	G	D	K	Q	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_I2B604	S	G	D	G	S	S	A	F	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_B5FAP0	F	L	G	D	G	Q	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_U6ET20	L	L	G	N	G	T	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI000466D4C4	M	E	H	T	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_F2FHG2	T	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_UPI0002ECCAA7	S	G	D	G	K	I	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_I7KTQ1	L	L	G	D	G	E	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_V6J1Q9	V	N	D	G	T	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_V5P3M3	L	L	G	N	G	T	T	A	V	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_W8ZVW1	M	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	E	Q	V	P	A	Q	R	D	N	D	P	L	K	T	T	S	W	G	T	G	E	L	I	R			
UniRef90_G7SUR0	S	G	D	K</																																								

QUERY	H	A	L	D	A	G	V	E	H	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	V	Q	A	L	G	A	R	L	R	D	A	Q	G	N	
UniRef90_I0QYQ2	N	A	L	D	H	G	V	E	H	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	V	Q	A	L	G	V	K	L	L	T	K	E	Q	N	
UniRef90_D4GLJ5	N	A	L	D	N	K	G	V	E	H	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	V	K	L	L	D	K	Q	N	
UniRef90_R1GWH1	A	A	L	N	N	G	A	K	H	H	I	V	G	G	G	S	S	T	N	D	G	G	A	G	M	A	Q	A	L	G	V	K	L	L	D	K	Q	N	
UniRef90_G9QHJ3	A	A	L	D	K	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	R	L	L	D	Q	K	Q	
UniRef90_I3E978	A	A	L	E	Q	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	A	R	A	L	G	G	A	K	L	L	D	D	K	N
UniRef90_E5WMD3	A	A	L	D	L	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	R	L	L	D	R	Y	G	
UniRef90_E3I9G8	A	A	L	D	E	G	A	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	R	L	L	D	R	Y	G	
UniRef90_R1AYN1	A	A	L	D	K	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	R	L	L	D	R	Y	G	
UniRef90_W0HWV6	C	A	L	D	H	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	V	Q	A	L	G	V	A	R	L	L	D	D	N	
UniRef90_UPI00036E078D	A	A	L	D	K	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	A	Q	A	L	G	V	K	L	L	D	S	Q	N	
UniRef90_F6B8Z2	A	A	L	D	Y	E	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	A	Q	A	L	G	G	A	K	L	L	N	D	S	
UniRef90_G4NZ01	A	A	L	D	A	G	A	E	R	L	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	R	L	L	D	D	S	G	
UniRef90_V5BTG4	A	A	L	D	Q	G	A	R	N	I	I	L	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	G	A	R	L	L	D	D	N	
UniRef90_B8D188	A	A	L	D	K	G	V	K	E	H	I	I	V	G	G	S	A	T	N	D	G	G	A	G	M	A	Q	A	L	G	G	V	I	F	R	D	D	S	
UniRef90_C4LAJ8	A	A	L	D	L	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	I	H	L	L	D	K	A	
UniRef90_D5DHM8	K	A	L	D	Q	K	V	K	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	A	K	A	L	G	G	A	K	L	L	N	A	N	
UniRef90_UPI0004689298	N	A	L	D	K	G	V	A	H	F	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	V	Q	A	L	G	G	A	K	L	L	D	K	Q	
UniRef90_L0MBT2	A	A	L	D	R	G	V	A	F	I	I	L	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	G	V	K	L	L	D	R	Q	
UniRef90_B7R7I7	D	A	L	D	R	G	C	R	K	F	I	I	L	G	G	S	A	T	N	D	G	G	A	G	M	A	M	A	L	G	V	R	F	Y	N	K	E		
UniRef90_UPI0003AB21FA	A	A	L	D	Q	G	C	R	K	F	I	I	L	G	G	S	A	T	N	D	G	G	T	G	M	A	Q	A	L	G	V	K	F	F	D	K	E		
UniRef90_UPI000427661F	H	A	L	D	L	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	V	Q	A	L	G	G	V	K	F	L	D	V	N	
UniRef90_W8QT35	A	A	L	D	K	G	A	K	H	I	I	V	G	G	G	S	A	T	N	D	G	G	V	G	M	M	Q	A	L	G	A	S	F	L	D	K	A		
UniRef90_F3MC06	A	C	L	D	H	G	V	N	R	L	L	I	G	G	G	S	A	T	N	D	G	G	A	G	V	V	Q	A	L	G	G	R	L	L	D	A	E		
UniRef90_F4A7C8	S	A	L	D	K	G	V	Q	N	L	L	I	G	G	G	S	A	T	N	D	G	G	A	G	M	L	E	A	L	G	G	A	K	F	L	D	A	E	
UniRef90_UPI00035C5A21	S	A	L	D	H	G	I	K	R	M	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	V	K	L	L	D	A	E		
UniRef90_M4XIL0	A	A	L	D	A	G	V	E	K	I	I	L	G	G	G	S	A	T	N	D	G	G	V	G	M	L	Q	A	L	G	G	A	K	F	L	N	A		
UniRef90_A4WDX3	H	A	L	D	L	G	V	K	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	A	K	L	L	N	A	Q	
UniRef90_B8K3F4	A	A	L	D	K	G	V	N	H	I	I	V	G	G	G	S	S	T	N	D	G	G	V	G	M	A	Q	A	L	G	G	A	K	L	V	D	A	E	
UniRef90_F5LAF0	D	A	L	D	R	G	A	N	H	I	I	V	G	G	G	S	A	T	N	D	G	G	V	G	C	L	Q	A	L	G	L	K	C	F	H	G	R		
UniRef90_D3VJ12	A	A	L	E	H	D	I	Q	K	L	L	I	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	G	A	N	L	Q	D	G	D	
UniRef90_R6GIG7	D	A	L	I	N	G	C	R	N	F	I	V	G	G	G	S	A	T	N	D	G	G	I	G	M	L	Q	A	L	G	Y	E	F	R	D	N	N		
UniRef90_S6F3I9	N	A	L	D	N	L	G	V	K	K	I	L	G	G	G	S	A	T	N	D	A	G	V	T	G	M	L	Q	A	L	G	A	R	F	L	N	A		
UniRef90_E1SML9	A	A	L	D	L	G	V	R	H	I	I	V	G	G	G	S	A	T	N	D	G	G	T	G	M	L	Q	A	L	G	A	Q	L	L	D	A	T		
UniRef90_C5QMR8	H	A	L	H	H	G	V	K	K	I	L	L	G	G	G	S	A	T	N	D	G	G	V	G	M	L	Q	A	L	G	V	S	F	K	D	V	D		
UniRef90_Q630A0	D	A	L	E	K	G	V	S	Q	I	I	L	G	G	G	S	A	T	N	D	G	G	A	G	M	A	S	A	L	G	G	V	K	F	L	N	R		
UniRef90_U5S6M4	A	A	L	D	E	G	V	E	K	I	I	V	G	G	G	S	V	T	N	D	G	G	A	G	M	A	E	A	L	G	G	V	K	F	L	D	Q	N	
UniRef90_Q7N004	A	A	L	D	Q	G	V	R	K	I	I	L	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	A	C	L	L	D	S	D		
UniRef90_U3A235	A	V	L	D	R	G	V	E	N	H	I	V	G	G	G	S	A	T	N	D	G	G	L	G	M	V	Q	A	L	G	V	T	R	M	L	D	N		
UniRef90_L0K8X3	Y	A	L	D	K	G	C	R	N	L	I	I	G	G	G	S	A	T	N	D	G	G	C	L	G	M	A	Q	A	L	G	G	V	R	K	F	L	N	
UniRef90_J0MKV1	A	A	L	D	R	G	A	R	K	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	V	R	L	R	D	A	Q		
UniRef90_B9CXD6	K	A	L	D	L	G	V	E	K	I	I	L	G	G	G	S	A	T	N	D	G	G	V	G	M	L	Q	A	L	G	G	M	S	F	L	D	S		
UniRef90_I2B604	Q	A	L	D	Q	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	L	Q	A	L	G	G	A	Q	L	L	D	A	S	
UniRef90_B5FAP0	A	A	L	D	K	G	V	K	H	I	I	V	G	G	G	S	A	T	N	D	G	G	I	G	M	A	Q	A	L	G	I	K	L	L	D	K	S		
UniRef90_U6ET20	H	A	L	D	K	N	V	R	Q	L	I	I	V	G	G	S	A	T	N	D	G	G	A	G	M	I	Q	A	L	G	G	Y	E	F	L	T	K	S	
UniRef90_UPI000466D4C4	D	A	L	T	R	G	C	R	R	F	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	L	Q	A	L	G	G	Y	E	F	L	D	Y	D	
UniRef90_F2FHG2	H	A	L	D	A	G	I	R	H	I	I	L	G	G	G	S	A	T	N	D	V	D	G	G	M	G	V	A	Q	A	L	G	V	R	F	L	D	A	
UniRef90_UPI0002ECCAA7	D	A	L	E	T	G	V	E	E	I	I	L	G	G	G	S	A	T	N	D	G	G	A	G	M	V	V	A	L	G	G	G	Q	F	L	N	K		
UniRef90_I7KTQ1	D	A	L	D	R	G	C	R	K	F	I	I	L	G	G	S	A	T	N	D	G	G	A	G	M	A	M	A	L	G	G	V	K	F	F	D	S	N	
UniRef90_V6J1Q9	S	A	M	D	H	G	A	N	H	I	I	L	G	G	G	S	A	T	N	D	G	G	C	G	M	A	Q	A	L	G	A	R	L	L	D	D	S		
UniRef90_V5P3M3	G	A	L	D	H	Q	V	E	K	I	I	L	G	G	G	S	S	T	N	D	G	G	S	G	M	A	Q	A	L	G	G	V	K	L	L	D	Q	N	
UniRef90_W8ZVW1	A	A	L	E	Q	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	T	G	M	A	Q	A	L	G	G	A	V	Q	L	L	D	N	
UniRef90_G7SUR0	A	A	L	D	L	G	V	K	K	I	I	L	G	G	G	S	A	T	N	D	A	G	V	G	M	L	Q	A	L	G	A	L	F	L	D	Q	H		
UniRef90_R9IY41	D	A	L	K	N	G	C	R	R	F	I	I	L	G	G	S	A	T	N	D	G	G	V	G	M	L	Q	A	L	G	F	G	F	L	D	K	N		
UniRef90_D2TH70	A	A	L	D	H	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	L	Q	A	L	G	V	A	L	L	D	A	N	G	
UniRef90_K8AVS7	A	A	L	D	S	G	V	E	H	I	I	V	G	G	G	S	A	T	N	D	G	G	A	G	M	M	Q	A	L	G	V	R	L	L	D	S	Q		
UniRef90_UPI000373DE07	K	A	L	D	A	G	A	R	H	I	I	V	G	G	G	S	A	T	N	D	A	G	A	G	M	L	Q	A	L	G	V	A	R	L	L	D	A	S	
UniRef90_UPI0004696438	H	A	L	D	Q	G	V	A	H	C	I	I	G	G	G	S	A	T	N	D	G	G	A	G	M	V	Q	A	L	G	G	A	R	L	L	D	A	S	
UniRef90_UPI0003FDEF54	A	C	V	E	Q	G	V	K	K	I	I	V	G	G	G	S	A	T	N																				

QUERY	D	A	Q	G	G	G	G	E	L	E	T	L	A	S	D	D	S	G	L	D	D	K	R	R	L	S	A	C	H	E	V	A	C	D	D	V	T	N	N	P	L	T	T						
UniRef90_I0QYQ2	D	A	Q	G	G	G	G	E	L	E	T	L	A	S	D	D	S	G	L	D	D	K	R	R	L	S	A	C	H	E	V	A	C	D	D	V	T	N <td>N<td>P<td>L<td>T<td>T</td></td></td></td></td>	N <td>P<td>L<td>T<td>T</td></td></td></td>	P <td>L<td>T<td>T</td></td></td>	L <td>T<td>T</td></td>	T <td>T</td>	T						
UniRef90_D4GLJ5	Q	A	G	F	R	G	G	G	A	L	P	D	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_R1GWH1	A	E	I	G	F	G	G	G	A	L	A	S	E	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_G9QHJ3	A	E	I	A	P	G	G	G	H	L	A	S	E	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_I3E978	E	E	E	G	G	Q	G	G	S	L	V	D	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_E5WMD3	E	E	E	G	Q	G	G	G	S	L	V	D	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_E3I9G8	E	E	E	G	P	G	G	G	S	L	S	E	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_R1AYN1	E	E	E	S	F	F	G	G	S	L	I	N	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_W0HWW6	A	E	I	S	G	F	G	G	S	L	A	K	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_UPI00036E078D	A	E	I	S	Y	G	G	G	S	L	D	K	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_F6B8Z2	Q	E	I	G	G	P	G	G	A	L	N	H	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_G4NZ01	E	E	I	A	R	S	G	G	A	L	A	S	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_V5BTG4	E	E	I	A	R	S	G	G	A	L	A	S	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_B8D188	E	E	I	A	R	S	G	G	A	L	A	S	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_C4LAJ8	N	E	I	G	K	G	G	G	S	L	A	R	E	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_D5DHM8	E	E	I	K	E	G	G	G	S	L	N	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_UPI0004689298	E	E	I	K	E	G	G	G	S	L	N	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_UPI0004689298	E	E	I	K	E	G	G	G	S	L	N	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_L0MBT2	P	Q	I	P	P	G	G	G	A	L	A	D	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_B7R7I7	E	E	I	G	F	G	G	G	E	L	A	D	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_UPI0003AB21FA	E	E	I	P	F	F	G	G	G	E	L	G	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_UPI000427661F	E	E	I	P	F	F	G	G	G	E	L	G	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_W8QT35	D	E	L	T	P	G	G	G	S	L	N	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_F3MC06	E	E	I	A	F	F	G	G	A	L	C	R	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_F4A7C8	E	E	I	A	F	F	G	G	A	L	C	R	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_UPI00035C5A21	E	E	I	P	C	G	G	G	A	L	S	K	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_M4XL0	E	E	I	G	F	G	G	G	E	L	S	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_A4WDX3	Q	I	E	G	H	G	G	G	E	L	G	T	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_B8K3F4	D	L	P	F	G	G	G	G	A	L	A	R	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_F5LAF0	L	L	L	K	R	V	G	G	K	L	D	R	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_D3VJ12	L	L	L	P	R	V	G	G	A	L	S	R	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_R6GIG7	P	V	P	F	G	A	N	G	L	S	K	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T		
UniRef90_S6F3I9	S	L	P	G	D	G	G	A	L	I	H	T	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_E1SML9	P	S	L	P	G	R	G	G	A	L	A	D	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_C5QMR8	E	E	I	A	Q	G	G	G	A	L	A	S	S	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T
UniRef90_Q630A0	E	E	I	E	N	G	G	G	A	L	A	E	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_U5S6M4	E	E	I	P	Q	G	G	G	S	L	N	L	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_Q7N004	A	L	P	G	G	G	G	A	L	S	R	L	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_U3A235	L	P	V	H	G	G	G	E	L	E	K	L	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_L0K8X3	E	E	I	G	V	F	G	G	E	L	E	N	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_J0MKV1	E	E	I	C	A	G	G	A	L	A	E	L	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_B9CXD6	E	E	I	Q	W	G	G	G	A	L	A	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_I2B604	Q	I	D	A	F	G	G	G	S	L	A	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_B5FAP0	D	L	E	A	F	G	G	G	S	L	A	Q	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_U6ET20	E	E	I	S	F	G	G	G	A	L	N	K	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R	V	K	I	L	E	V	A	A	D	D	V	T	N <td>N<td>P</td><td>L</td><td>T</td><td>T</td></td>	N <td>P</td> <td>L</td> <td>T</td> <td>T</td>	P	L	T	T	
UniRef90_UPI000466D4C4	E	E	I	P	F	G	A	L	G	L	S	K	L	L	A	D	D	V	T	D	D	P	P	R	L	K	K	Q	R	R																			

QUERY UniRef90_I0QYQ2 UniRef90_D4GLJ5 UniRef90_R1GWH1 UniRef90_G9QHJ3 UniRef90_I3E978 UniRef90_E5WMD3 UniRef90_E3I9G8 UniRef90_R1AYN1 UniRef90_W0HWV6 UniRef90_UPI00036E078D UniRef90_F6B8Z2 UniRef90_G4NZ01 UniRef90_V5BTG4 UniRef90_B8D188 UniRef90_C4LAJ8 UniRef90_D5DHM8 UniRef90_UPI0004689298 UniRef90_L0MBT2 UniRef90_B7R7I7 UniRef90_UPI0003AB21FA UniRef90_UPI000427661F UniRef90_W8QT35 UniRef90_F3MC06 UniRef90_F4A7C8 UniRef90_UPI00035C5A21 UniRef90_M4XIL0 UniRef90_A4WDX3 UniRef90_B8K3F4 UniRef90_F5LAF0 UniRef90_D3VJ12 UniRef90_R6GIG7 UniRef90_S6F3I9 UniRef90_E1SML9 UniRef90_C5QMR8 UniRef90_Q630A0 UniRef90_U5S6M4 UniRef90_Q7N004 UniRef90_U3A235 UniRef90_L0K8X3 UniRef90_J0MKV1 UniRef90_B9CXD6 UniRef90_I2B604 UniRef90_B5FAP0 UniRef90_U6ET20 UniRef90_UPI000466D4C4 UniRef90_F2FHG2 UniRef90_UPI0002ECCAA7 UniRef90_I7KTQ1 UniRef90_V6J1Q9 UniRef90_V5P3M3 UniRef90_W8ZVW1 UniRef90_G7SUR0 UniRef90_R9IY41 UniRef90_D2TH70 UniRef90_K8AVS7 UniRef90_UPI000373DE07 UniRef90_UPI0004696438 UniRef90_UPI0003FDEF54 UniRef90_Q65UR0 UniRef90_R6G372 UniRef90_S6HF69 UniRef90_S9T8L5 UniRef90_A0A023MNV1 UniRef90_D7N0Y3 UniRef90_F3B6I3 UniRef90_K8W192 UniRef90_UPI00030E3116 UniRef90_UPI00037BC782 UniRef90_W8PV72 UniRef90_D9SNG2 UniRef90_UPI0004790538 UniRef90_K8WEE0 UniRef90_UPI0003B6C1BD UniRef90_UPI000375B275 UniRef90_UPI0002E568F0 UniRef90_COZJU0 UniRef90_UPI00047EE638 UniRef90_UPI00037CC32E UniRef90_UPI0003791BA6 UniRef90_C9R6H8 UniRef90_UPI0003942818 UniRef90_E3BHH0 UniRef90_UPI0002FB009D UniRef90_N6YV53 UniRef90_UPI00046EE5A3 UniRef90_F5S7H6 UniRef90_W8UKI9 UniRef90_UPI0002F029E9 UniRef90_R2PUM3 UniRef90_D9QVS9 UniRef90_UPI000474947B

210 220 230 240

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

QUERY UniRef90_I0QYQ2 UniRef90_D4GLJ5 UniRef90_R1GWH1 UniRef90_G9QHJ3 UniRef90_I3E978 UniRef90_E5WMD3 UniRef90_E3I9G8 UniRef90_R1AYN1 UniRef90_W0HVV6 UniRef90_UPI00036E078D UniRef90_F6B8Z2 UniRef90_G4NZ01 UniRef90_V5BTG4 UniRef90_B8D188 UniRef90_C4LAJ8 UniRef90_D5DHM8 UniRef90_UPI0004689298 UniRef90_L0MBT2 UniRef90_B7R7I7 UniRef90_UPI0003AB21FA UniRef90_UPI000427661F UniRef90_W8QT35 UniRef90_F3MC06 UniRef90_F4A7C8 UniRef90_UPI00035C5A21 UniRef90_M4XIL0 UniRef90_A4WDX3 UniRef90_B8K3F4 UniRef90_F5LAF0 UniRef90_D3VJ12 UniRef90_R6GIG7 UniRef90_S6F3I9 UniRef90_E1SML9 UniRef90_C5QMR8 UniRef90_Q630A0 UniRef90_U5S6M4 UniRef90_Q7N004 UniRef90_U3A235 UniRef90_L0K8X3 UniRef90_J0MKV1 UniRef90_B9CXD6 UniRef90_I2B604 UniRef90_B5FAP0 UniRef90_U6ET20 UniRef90_UPI000466D4C4 UniRef90_F2FHG2 UniRef90_UPI0002ECCAA7 UniRef90_I7KTQ1 UniRef90_V6J1Q9 UniRef90_V5P3M3 UniRef90_W8ZVW1 UniRef90_G7SUR0 UniRef90_R9IY41 UniRef90_D2TH70 UniRef90_K8AVS7 UniRef90_UPI000373DE07 UniRef90_UPI0004696438 UniRef90_UPI0003FDEF54 UniRef90_Q65UR0 UniRef90_R6G372 UniRef90_S6HF69 UniRef90_S9T8L5 UniRef90_A0A023MNV1 UniRef90_D7N0Y3 UniRef90_F3B6I3 UniRef90_K8W192 UniRef90_UPI00030E3116 UniRef90_UPI00037BC782 UniRef90_W8PV72 UniRef90_D9SNG2 UniRef90_UPI0004790538 UniRef90_K8WEE0 UniRef90_UPI0003B6C1BD UniRef90_UPI000375B275 UniRef90_UPI0002E568F0 UniRef90_COZJU0 UniRef90_UPI00047EE638 UniRef90_UPI00037CC32E UniRef90_UPI0003791BA6 UniRef90_C9R6H8 UniRef90_UPI0003942818 UniRef90_E3BHH0 UniRef90_UPI0002FB009D UniRef90_N6YV53 UniRef90_UPI00046EE5A3 UniRef90_F5S7H6 UniRef90_W8UKI9 UniRef90_UPI0002F029E9 UniRef90_R2PUM3 UniRef90_D9QVS9 UniRef90_UPI000474947B

250 260 270 280

D V L D V L A G G G A A A G G M G A A A L Y A F C G A Q L R R R G G I E I V T T A A L L H L G L D E
D V L D V L A G G G A A A G G M G A A A L Y A F C G A Q L R R R G G I E I V T T A A L L H L G L D E
D V L D V L A G G G A A A G G M G A A A L Y A F C G A Q L R R R G G I E I V T T A A L L H L G L D E
D V L K N S A P G G A G A A G G M G A A A L Y A F C G A Q L R R R G G I E I V T T A A L L H L G L D E
P I R H V P G G A G A A G G G L G A G L L A F L D A E L K R R G G I E I V T T A A L L H L G L D E
S L A E V P E G G A G A A G G G I L G G S L L L A F L L N A E D L K K K K G G I E I V T T A A L L H L G L D E
S F R H I P G G A G A A G G G I L G G S L L L A F L L N A E D L K K K K G G I E I V T T A A L L H L G L D E
Q V K D I I P G G A G A A G G G L G A G L L A F L L N A E D L K K K K G G I E I V T T A A L L H L G L D E
K V E N I K S G G A G A A G G G M G A G L L Q A F L D G A E L R R K R G G I E I V T T A A L L H L G L D E
K V D R V S P G G A G A A G G G M G A G L L Q A F L D G A E L R R K R G G I E I V T T A A L L H L G L D E
D I K D T P P G G A G A A G G G M G A G L L Q A F L D G A E L R R K R G G I E I V T T A A L L H L G L D E
D V K E I P E G G A G A A G G G L G A G S L L L A F L L N A E D L K K R R G G I E I V T T A A L L H L G L D E
A C R E I E G G A G A A G G G L G A G S L L L A F L L N A E D L K K R R G G I E I V T T A A L L H L G L D E
Q V I D L P P G A G A A G G G M G S A L S G L L M G R L E P G G I E I V T T A A L L H L G L D E
D L V E F P P G A G A A G G G L G A G L L A F L L N A E D L R R S S G G I E I V T T A A L L H L G L D E
D L Q F A P P G A G A A G G G L G A G L L A F L L N A E D L R R S S G G I E I V T T A A L L H L G L D E
H I Q N V P P G A G A A G G G L G G G L L A F L L S A E L K R R G G I E I V T T A A L L H L G L D E
D V I S V P G G G A A G G G M G A A L H A F C Q A E L R R R R G G I E I V T T A A L L H L G L D E
A V I N A P P G A G A A G G G M G A A L L G M L N A E L R R R R G G I E I V T T A A L L H L G L D E
R I I D V P P G A G A A G G G L G A G L L I A F L L N A E L R R S G G I E I V T T A A L L H L G L D E
S V S D L P P G A G A A G G G L G A A M V A F L L G A T L K K R R G G I E I V T T A A L L H L G L D E
D V K D L S G G A G A A G G G L G A A L L A F L L D G K L K R R G G I E I V T T A A L L H L G L D E
S F G D A A G G A G A A G G G L G A S L L G F L L Q A D L Q K K G G I E I V T T A A L L H L G L D E
D V T A D Y P P G S G A A G G G L G A G L L M V F L L N G A D L K K K G G I E I V T T A A L L H L G L D E
N I D N I P P G S G A A G G G L G A G L L A F L L N A D L K K R R G G I E I V T T A A L L H L G L D E
E V E Q Q P P G A G A A G G G M G A A L L A F L L G A E L K R R G G I E I V T T A A L L H L G L D E
E I A E K A G A G A A G G M G A A L L L L L P N V T L R R S S G G I E I V T T A A L L H L G L D E
D V L N L A G G G A A G G G M G A A L Y A F C G A E L R R R R G G I E I V T T A A L L H L G L D E
D V I S Q A G G A G A A G G G L G A A L L G L F D A T L R R P G G I E I V T T A A L L H L G L D E
R L H N E P P G A G A A G G G F G F S L L T F F Q A E M K R S S G G I E I V T T A A L L H L G L D E
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A D P D H P G T G A A G G G L G F A F L S Y T N A I L Q S S G G I E I V T T A A L L H L G L D E
A T A H Q A G A G A A G G G G A A L L L L P K V A T L R K K G G I E I V T T A A L L H L G L D E
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R V K D S P P G S G A A G G G M G T A L L A F L L D A K L Q P G G I E I V T T A A L L H L G L D E
E I D S L P P G S G A A G G G L G A G L L C A F L L K A E L K R R G G I E I V T T A A L L H L G L D E
T I E H L P P G S G A A G G G L G A G L L A F T N A I L K P G G I E I V T T A A L L H L G L D E
K V I D V P P G A G A A G G G M G V P L L G W L D A K L Q P G G I E I V T T A A L L H L G L D E
D V Q H I P P G A G A A G G G L G A A L L G L L N A H L R P G G I E I V T T A A L L H L G L D E
E I N D I P P G A G A A G G G L G A G L L A F L L N A N A L K S S G G I E I V T T A A L L H L G L D E
D V I A V A G A G A A G G G M G A S L L F G L L H A R L Q P G G I E I V T T A A L L H L G L D E
R I L D K A G A G A A G G G M G A A L L L L L P N A Q L K A G G I E I V T T A A L L H L G L D E
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D V K D T A G A G A A G G G L G A A L L G L F S A T L R R P G G I E I V T T A A L L H L G L D E
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D M S Q I P P G G G A A G G G M G I A A I V F L E A E M K P G G I E I V T T A A L L H L G L D E
A V D K V P P G S G A A G G G L G A G L L A F L L G A E S L R R R G G I E I V T T A A L L H L G L D E
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D V K S M A G G A G A A G G M G A A L L G L F K A Q L K R R G G I E I V T T A A L L H L G L D E
N L R D H A G A G A A G G M G G G L L L L P N V S L K A G G I E I V T T A A L L H L G L D E
A D E N Y P P G T G A A G G G M G A A L L T F T N A V L E S G G I E I V T T A A L L H L G L D E
D V M N A P P G A G A A G G M G A A L L G L L N A E L K P G G I E I V T T A A L L H L G L D E
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D I D A T P P G A G A A G G G L G A A F L A F T Q A R L K S S G G I E I V T T A A L L H L G L D E
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D V A D V P P G T G A A G G G L G A G L L A F L L N S K M Q K G G I E I V T T A A L L H L G L D E
D V K D L P P G S G A A G G G L G A A F A G V L L K G E L K S S G I E I V T T A A L L H L G L D E
D V I S K A G A G A A G G L G A G L L M A F L L D V K L K S S G I E I V T T A A L L H L G L D E
S V S Q V S G A G A A G G G I L G A V L L A F F N A E L K P G G I E I V T T A A L L H L G L D E
D V A H M P P G A G A A G G G L G A G V V A F L L N A E L K R R G G I E I V T T A A L L H L G L D E
E V I N A P P G A G A A G G M G A A L L G L L N A E L R A G V I E I V T T A A L L H L G L D E
E V K D L P P G A G A A G G G L G A A F S G V L L G G R L K S G G I E I V T T A A L L H L G L D E
A D G E Y P P G T G A A G G G L G S A F F N F T N S A Q L K A G G I E I V T T A A L L H L G L D E
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D I A Q T D G A G A A G G G L G A G L L A F L L N V R L K K G G I E I V T T A A L L H L G L D E
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A I H D I P P G T G A A G G G V A G A L L A F L L N G Q L R S G G I E I V T T A A L L H L G L D E
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G S L D H H G L D V L F S V V L Y S G A C C C T L D E A L L K N A S E N V R R L L T A R R N V A
G L L K H H G I D A L Y S I V P G I T T P W E T K A V L Q E N A E F Y V L Q E R T S R K N I A
G S N V E H Q G I D A L F S I V P G V V T P L T P E A L I E H A A A E Y M E R T L A R K N I A
G S L N H H G I D A L Y S I V P G V I T P L L E K A L L K N A S E Y F I A Q R T A R R N I A
G S L N H H G I D T M F S I V N Y S P L I T V L D E Q A L L K N A S E F F I A K R M K I E R N I A
UniRef90_W0HWW6 G S L H Q H G L D A V F S V V L Y S L C C T L L E Q A F R D N A A E V N V R M T A R R N I A
UniRef90_UPI00036E078D G S H H H H G L D S V F S V V P G A V T S L L E Q A F R D N A A E V N V R M T A R R N I A
UniRef90_F6B8Z2 G S I E H H G L D A L F S I V P R V T S L L E Q D A M E H A A E E Y M E R T A R K N I A
UniRef90_G4NZ01 G S I Q H H G I D A L F S I V P G S V T P L L E Q D A M E H A A E E Y M E R T A R K N I A
UniRef90_V5BTG4 G V H E H H G L D A V F S I V N R I V T L L P E A M G E A D E N L R V T A R R N V I A
UniRef90_B8D188 G T L E E H G I D A L F S I M E R K P V C S L L K D E A L L K N Y D A A N W L R E S L T A A R N I A
UniRef90_C4LAJ8 G S L E H H G I D A C V F S V L M E R K V C S L L S E E A L L N D N A A E N I V R M T A R R N I A
UniRef90_D5DHM8 G S L E H H G I S A L F S V V L P G A V D L L S E E A L L T D N A A E N I V R M T A R R N I A
UniRef90_UPI0004689298 G S H Q H H G L D A V F S V L Y S R I C C T L L E E A L L T D N A A E N I V R M T A R R N I A
UniRef90_L0MBT2 G S H Q H H G L D A V F S V L Y S R I C C T L L E E A L L T D N A A E N I V R M T A R R N I A
UniRef90_B7R7I7 G S I D E G I T A V F S I I V D K P M G L L E E A M R D A E V L L K K S T E R I F R
UniRef90_UPI0003AB21FA G S I Q H H G V Q S V F S I V N R P M S L L Q N E A M E K D G R K D L L A D A T T E R I V R
UniRef90_UPI000427661F G R I L D G A E S I V F G I V P G V I T S L L A S E A M H D A S V H V E E R T T A R R N I A
UniRef90_W8QT35 G S H D H H G I D A L F S I V P G V T T L L A S E A M H D A S V H V E E R T T A R R N I A
UniRef90_F3MC06 G R I N G D G I D A I E G I L P Q G A V T S L L S E E A L L K P N G S Q N I E K T T A R R N I A
UniRef90_F4A7C8 G R I N H H G I N S I G I L P Q G S V S L L S E E A L L K N G S E E N I T R A T A R R N I A
UniRef90_UPI00035C5A21 G S V E R G I D A L F P I V H G A V P L L S E E A L L K A N G E E N I T R A T A R R N I A
UniRef90_M4XIL0 G S L Q H H G I D A V F P I V Y S V C S L L E E A L L K N A E N V R M T A R R N V I A
UniRef90_A4WDX3 G S H E H H G I D A V F S I V I Y S V C S L L E E A L L K N A E N V R M T A R R N V I A
UniRef90_B8K3F4 G S H D H H G I D A V F S V V L G A T D L L P T A L L K E A A F N V R M T A R R N V I A
UniRef90_F5LAF0 G T V E E G L L L M I P I V D P M T L L S E E A M A H G A P K L I Y R A T A R R N V I A
UniRef90_D3VJ12 G V H Q H H G I D A V F P I L R Q L D S L L S E E A L L R S N G K R P F L R Q T A R R N V I A
UniRef90_R6GIG7 G C N Q H H G I D A F F P I L R Q L D S L L E E A M E N T R K E N L T D T T A R Q N I A
UniRef90_S6F3I9 G C L R E H H G I D A V F P I L R Q L D S L L E E A L L R S N G K R P F L R Q T A R R N V I A
UniRef90_E1SML9 G S L H D H H G I D A V F S I V E H P C D I K E T A L L E N G P K Y L Q R T A R R N I A
UniRef90_C5QMR8 G S L E H H G I D S V F S I V P G I S S L L E E A L L A D G S S N L T R T C C E R N I A
UniRef90_Q630A0 G Y V D E G M T A I F G I M A K A E P L L E E A L L K N G E S S N L T R T C C E R N I A
UniRef90_U5S6M4 G S L E H H G L D A V F S I M S G V C S L L S D A L L V C G H E N L R V T A R R N V I A
UniRef90_Q7N004 G S H Q H H G I D A L F S I V N G A V D L P E T A L A Q A R S N V E L T A R R N V I A
UniRef90_U3A235 G S L Q A G I D A L F S I V N D R P M K L L E T A M K R A P I L L A K T A G E N I A
UniRef90_L0K8X3 G V H Q H H G L D A V F S I V L N R V Q T L L A S E A L L E K A G E N I C V T A R R N V I A
UniRef90_J0MKV1 G C L Q H H G I D A V F P I V R N L G P L L S E E A L L A K Q A E N I T S S A R R N V I A
UniRef90_B9CXD6 G S Y D H H G I D A V F S V L Y S V C T L L D E A L L K E A A I N V E R M T A R R N V I A
UniRef90_I2B604 G C L S D G I D A V F S V V P R S V C S L L E L A L L K E A A I N V E R M T A R R N V I A
UniRef90_B5FAP0 G K I E D G I T S L F G I V P G A V D I K E A L K N S G A V N I S E R T A S E N Q Y R
UniRef90_U6ET20 G S V Q Y G I D A Y F P I L R T I T T L L P E V L A N G E Q N L Y H S A C N I A R
UniRef90_UPI000466D4C4 G V H R H H G L D A V F S I L P R L A P L L E E A L L Q R G S E N L T R T S A R R N I A
UniRef90_F2FHG2 G C I N S G F D A V F S V I P E L T T L L E E A L I V N S S V L L E N T S A R R N I A
UniRef90_UPI0002ECCAA7 G T V E D G V S S V F S I V D K P M S L L N D A I V N S S V L L E N T S A R R N I A
UniRef90_I7KTQ1 G S L S H H G I D A F F S I V P G A V S L L E L A L L H E A K A N L T R T A A N V A R
UniRef90_V6J1Q9 G Y L G E G I D A V F G I V P G A C S D L S E T A F K N G A P S N V A R T A R R N V A
UniRef90_V5P3M3 G C L E H H G I D A V F S V V P A A I N V E L L Q A F K D A A I N V E L T A R R N V A
UniRef90_W8ZVW1 G S L K E G I D A V F P I I R Q V E S L L E A T L K C G R E N L S A A Q N I A R
UniRef90_G7SUR0 G S V Q K G I D A F F P I I R Q V E S L L E E A M E N A K E Y N L A D T A E Q V I A
UniRef90_R9IY41 G V H Q H H G L D A V F S V L T R I A T L P E E A L Q E A A Y N L R V T A R R N V I A
UniRef90_D2TH70 G S H E H H G I D A F S V L D R I A T L L E E A L D D A A R N L R V T A R R N V I A
UniRef90_K8AVS7 G S V S H H G I D A L F S I V H G V C S L L P Q A L L S D A A D N L Y R I A R R N I A
UniRef90_UPI000373DE07 G S H Q H H G L D A V F S V L H H V C T L L E E A L S D A A G D N V R I A R R N I A
UniRef90_UPI0004696438 G S L D K G F D A I F G T I E Q V Q P L L E E V I A A A K E S L I R T A R R N V A R
UniRef90_Q65UR0 G S L G K G I D A V F S V L N K V C S L L P E A L D N A A E N L E I T A R R N I A
UniRef90_R6G372 G R V D K G I D A L F G I M R G V T S L L E E A L V K G P E N V E K T S E N I I R
UniRef90_S6HF69 G C V E E G I D A M F S I V R G V T S L L E S A L A D A E V N L Q H C A R N I A
UniRef90_S9T8L5 G T H E H H G I D M V E T I V P G V T T L L E E A L L Q A A D N M E R T A Y N I G M
UniRef90_A0A023MNV1 G S L Q H H G I D A A L S I L S H I V T L P E A A H H E A E Y N L S L S A R R N V A
UniRef90_D7N0Y3 G S L G W G I D A V F S I L N K C C T F P E A A A E T A E N L S E L T A R R N I A
UniRef90_F3B6I3 G S V T H G I D A F F P I L R R I V T L L Q E A M Q A E A K Q N L T D D A T T E Q V F R
UniRef90_K8W192 G L H Q E G I D A L F S I L P R L C C T L L Q D A M Q A E G A I N L Q Q D A Y N V A K
UniRef90_UPI00030E3116 G S I Q Y G I T G I H S I V N A P M T L L K E A M Q R A P E L L A E R A E Q V L R
UniRef90_UPI00037BC782 G S L G Q E I D E L Y S T V R S P Q P L L Q E V L S E A S R N L T R T E R A Q D I A R
UniRef90_W8PV72 G L Y E H H G I D A F A L A S G P M T L L Q E A C T D A P R L L T S E R A Q D I A R
UniRef90_D9SNG2 G M V G E G L D S V F G I T K G A T S L L K D A L S K G P E N I E K T T A E N I I R
UniRef90_UPI0004790538 G R I N N G F N A L I T G I L K G V T S L L E E A L L K N S G Q E N L A F N T T A R R N I A
UniRef90_K8WEE0 G S L R A D V D A V F S I V L Y R P C T I D E A L L T E G N E N L R R T A R R N I A
UniRef90_UPI0003B6C1BD G Y T M G E G I E A I F G I V P K A A V L L E E L L Q Q A A G P Y N V E R T A M E N I A
UniRef90_UPI000375B275 G T H E H H G I D M V F T I V P G V C S L L D D A M R Q Q A G Y N M E Q T A R R N I A
UniRef90_UPI0002E568F0 G S I G N G I D A V V S I L T N K P M T L L D Q S M L E A A S L L E Q T A E Q V M R
UniRef90_COZJU0 G S I G H G I N A I L S L P S T C S L L D K A L E K G V E N L T R T A E R N V A R
UniRef90_UPI00047EE638 G G L G E G I D A L S T V P P P L S L E E A L K E A R E N L V R R S A E N I A R
UniRef90_UPI0003791BA6 G G V D E G I D A F F P A V Q R Q L A P L L S E E A L L Q Q A G R E N L V S A A Q N I A
UniRef90_C9R6H8 G C L R H H G I D V V F P I T V Q A V M T L D A A L L A Q A A S H L E Q T T V Q V A R
UniRef90_UPI0003942818 G S V K A G I D A A F G T I V Q A V M T L D A A L L A Q A A S H L E Q T T V Q V A R
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UniRef90_UPI0002FB009D G S I G Q G I D S I H S I V N A P M S L L Q E A M K S G A E L I E L L A A R N V L R
UniRef90_N6YV53 G S H E H H G I D A V F S V L H R P C S L L E E A L R S D A A A N V L L T A R N V A
UniRef90_UPI00046EE5A3 G V H H H G I D A I F P I L R E I V T V D D A I Q Y A K K N L S Y T S E Q I F R
UniRef90_F5S7H6 G S H D Y G I D A V F S V L P K C C D L R E Q A L S M A E A N V T Q T A R R N I A
UniRef90_W8UKI9 G S L T H G L D A V F S V I Y N I C C T L R E Q A L S M A E A N V T Q T A R R N I A
UniRef90_UPI0002F029E9 G S L G Q D V E S L F G T V R S P Q S L L D Q V L S E A N Q N L T R T A R R N I A
UniRef90_R2PUM3 G S V K Q G I D A Y F P I L R Q I T T L L E E A M E Q A A Q N L A S D T G E N I M R
UniRef90_D9QVS9 G S L E H H G I D A Y F P I L R Q I T T L L D K A M D K A S I L L A S L G E N I G R
UniRef90_UPI000474947B G S I G E G I I G V F S I I N R P M S L L D E A M R E T K K L L E Q T A E Q V C R

QUERY T L K A G Q Q L R
UniRef90_I0QYQ2 T I R L A Q K L
UniRef90_D4GLJ5 T M K I A
UniRef90_R1GWH1 T L K L G S K
UniRef90_G9QHJ3 T I K M A K H I
UniRef90_I3E978 L F K L A
UniRef90_E5WMD3 S M K M N G S L
UniRef90_E3I9G8 A C K T I G R N M
UniRef90_R1AYN1 L T K L
UniRef90_W0HVV6 T V K L G Q T L R
UniRef90_UPI00036E078D L L M L
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UniRef90_G4NZ01 S I K L A K T M
UniRef90_V5BTG4 V W Q M A E R N K
UniRef90_B8D188 L T K
UniRef90_C4LAJ8 T L R L
UniRef90_D5DHM8 V I R L G
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UniRef90_L0MBT2 V W Q L A E R
UniRef90_B7R7I7 V I K V
UniRef90_UPI0003AB21FA V
UniRef90_UPI000427661F L L
UniRef90_W8QT35 V M T F G R
UniRef90_F3MC06 L M
UniRef90_F4A7C8 L L N I
UniRef90_UPI00035C5A21 T L T L
UniRef90_M4XIL0 L W K I
UniRef90_A4WDX3 T L L A G K G M
UniRef90_B8K3F4 T L A M
UniRef90_F5LAF0 T L K L G K T L
UniRef90_D3VJI2 V W S I S H
UniRef90_R6GIG7 L I Q A
UniRef90_S6F3I9 F S Q L A M K
UniRef90_E1SML9 L Y T L R R
UniRef90_C5QMR8 L I K L
UniRef90_Q630A0 V W S L
UniRef90_U5S6M4 I L Y L A N G I
UniRef90_Q7N004 V W K M G Q
UniRef90_U3A235 V W H M A S Q
UniRef90_L0K8X3 L V K
UniRef90_J0MKV1 V W K I G R
UniRef90_B9CXD6 L L K L S L K L
UniRef90_I2B604 G L R V G M S L
UniRef90_B5FAP0 I Y S M
UniRef90_U6ET20 L I K
UniRef90_UPI000466D4C4 L Y R K G T E
UniRef90_F2FHG2 V I K L G Q D I
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UniRef90_I7KTQ1 L I K A I K A L
UniRef90_V6J1Q9 V W Q M A K N
UniRef90_V5P3M3 L L K
UniRef90_W8ZVW1 M Y C L G R
UniRef90_G7SUR0 F Y L L A K H I
UniRef90_R9IY41 L L K L
UniRef90_D2TH70 I W K L S Q Q
UniRef90_K8AVS7 L W R M A Q N H R
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UniRef90_UPI0004696438 V I K L A Q
UniRef90_UPI0003FDEF54 A I K I
UniRef90_Q65UR0 T L K M
UniRef90_R6G372 L L N I
UniRef90_S6HF69 V W L L G A Q I R
UniRef90_S9T8L5 A L K L G I Q L K
UniRef90_A0A023MNV1 I W R L A R Q
UniRef90_D7N0Y3 L L K M
UniRef90_F3B6I3 L L
UniRef90_K8WI92 V L K I G Q Q L
UniRef90_UPI00030E3116 T Y
UniRef90_UPI00037BC782 T L K L G A Q I
UniRef90_W8PV72 L W R A A H
UniRef90_D9SNG2 L I N L
UniRef90_UPI0004790538 V L K
UniRef90_K8WEE0 T L N I
UniRef90_UPI0003B6C1BD I L S M G L N L
UniRef90_UPI000375B275 L L H L
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UniRef90_COZJU0 I
UniRef90_UPI00047EE638 M I Q V
UniRef90_UPI00037CC32E L L A V G M G L K
UniRef90_UPI0003791BA6 T V R V G Q A L
UniRef90_C9R6H8 L F A L Q G K I
UniRef90_UPI0003942818 L V H I S G K
UniRef90_E3BHH0 T L S L G
UniRef90_UPI0002FB009D T Y S I
UniRef90_N6YV53 G L R I G M
UniRef90_UPI00046EE5A3 L W R
UniRef90_F5S7H6 V L A I S V S L N
UniRef90_W8UKI9 T L A I G M
UniRef90_UPI0002F029E9 T L K L G S Q I
UniRef90_R2PUM3 L V R
UniRef90_D9QVS9 M L K I
UniRef90_UPI000474947B T Y

UniRef90_F4LRC8 MKLIIVA PDSSFKGSSLTSLQAAEALEICGLIKKCKE NVEIKV
UniRef90_R9L4K3 MKFVLA PDSSFKGSSMTAKKEVCEEA MEKGG L R K Q A F P D A H Y V H V
UniRef90_V5FIV6 MKIIVIA PDSSFKGSSLSANKEVCEAQS TIE FGG FFRVF PPA A Q E Y V H L
UniRef90_D1P277 MKIIVIA PDSSFKGSSLSANVAAQS TIE RGF FRV F PPA A E E Y V A L L
UniRef90_C2TRQ2 MKVVIASDSSFKGSSLSKAEVCEEA TIE RGF FRG A I F PPA A E E Y V K I
UniRef90_T0PDB1 MKIIVIA T D S S F K G S S L S S A M E A A N S A I E R G F F K K V F N E P D A I A E V V K V
UniRef90_K9DFP2 MKIIVIA PDSSFKGSSLSA A E V A Q A I E K G F F R E I F P P D A Q E Y V S V
UniRef90_A0A024AJJ3 MKIIVIA PDSSFKGSSLTATAKEVCEEA MRSGG V L D A M P D A E E V V A L
UniRef90_U4JV27 MKVVIASDSSFKGSSLTATA ME V A T A T I E N G F K Q V F P P N A Q E Y L K L
UniRef90_Q67LH1 MKIIVIA PDSSFKGSSLTATA L E V C K A I E K G F T K V F P P E A E Y V L
UniRef90_C9P1D9 MKIIVIA PDSSFKGSSLTATA L E V C K A I E K G F T K V F P P E A E Y V L
UniRef90_UPI00047C66B7 MKIIVIA PDSSFKGSSLTATA L E V C K A I E K G F T K V F P P E A E Y V L
UniRef90_UPI00035D5AB1 MKIIVIA PDSSFKGSSLTATA L Q V A E A I E K G F T H R V F P P D A A I E K I
UniRef90_C2KXF3 MKI L I A D S S F K G S S L S S K E A G E A I K S G I L R V V P D A E E V L I S
UniRef90_A8TA44 MKV V L A P D S S F K G S S L T A K K V S E A A K L G L G L R V D A D A E E V V V R
UniRef90_D4LIJ8 MKV V T A D S S F K G S S M T S M E A G F A A A E G L I H R V D A D A E E V V Q V R
UniRef90_I3DH18 MKI L T A P D S S F K G S S L T A L E A A K A T I E E G F K K V Y P T A T Y T K I
UniRef90_R7V28 MKV V I A P D S S F K G S S M T S L E A G E S A A A G L R R V Y P D A D I R I R
UniRef90_G4CQ11 MKI L I A P D S S F K G S S L T A Q E A A D A V E C G L K K A L P D A E E Y V K V
UniRef90_UPI00046E8236 MKI V I A P D S S F K G S S M S S T E A A N S I E K G I L Q A F P P Q A E T I L L
UniRef90_L1QBY4 MKI V L A P D S S F K G S S M S A K E A C M A M E R G I K K V N S N I K C V H V
UniRef90_U1WSQ6 MKI V I A P D S S F K G S S I S A W E A A V A T E R G I K K V L P E S D T V L V
UniRef90_K4KSF1 MKI V V A P D S S Y K G S S M N A L S A A R A I E R G I R N V E R D I A V K L I
UniRef90_W7Z1W5 MKV V I A P D S S F K G S S L T A V K Q V A N V M E R A I S K A L P N S E A T I C
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UniRef90_W4Q7P5 MKI V V S P D S S Y K G S S L S S I E V S K S M K K G I Q K A I S N A E I K L M
UniRef90_D4MD55 K F V L A P D S S F K G S S M S A K E A C L A M E K G I L A V F K S D A D I Q H V
UniRef90_I8TYQ1 MR I V A P D S S Y K G S S V S A V G T A N A M E K G I K A V F P D A E E V T K V
UniRef90_F5I2A2 MK F V L A P D S S F K G S S M T A K K V C D A M E R G I K K V L P N A Q C I K V
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UniRef90_B2A890 K V I L A P D S S Y K N C L E A K D V A T A M E R G V H R Y N K N L E T I K L
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		90	100	110	120																																											
UniRef90_F4LRC8	L	P	D	N	T	A	V	I	E	M	A	S	A	S	G	L	N	L	V	P	V	E	R	R	N	N	N	L	Q	T	T	S	Y	G	T	G	E	L	I	K	R							
UniRef90_R9L4K3	L	L	Q	G	E	T	A	A	V	E	V	A	S	A	S	G	L	H	L	L	V	P	D	E	R	R	N	N	N	L	Q	T	T	S	Y	G	T	G	E	L	I	K	R					
UniRef90_V5FIV6	L	L	E	Q	G	K	T	A	A	V	E	V	A	S	A	S	G	L	D	L	V	A	P	E	R	R	N	N	N	L	Q	T	T	S	Y	G	T	G	E	L	I	K	R					
UniRef90_D1P277	L	L	P	E	K	Q	T	A	V	I	E	M	A	S	A	S	G	L	M	L	V	A	P	E	Q	R	R	N	N	N	L	Q	T	T	S	Y	G	T	G	E	L	I	K	R				
UniRef90_C2TRQ2	S	T	D	K	K	T	A	F	I	E	M	A	S	A	S	G	L	Q	H	V	P	V	E	K	R	N	N	N	P	F	I	T	T	S	K	Y	G	T	G	E	L	I	L	L				
UniRef90_T0PDB1	L	G	D	G	E	S	T	A	V	I	E	M	A	S	A	S	G	L	P	L	V	K	E	E	A	E	R	N	N	P	L	L	T	T	T	S	R	Y	G	T	G	E	L	I	L	R		
UniRef90_K9DFP2	S	G	D	E	S	T	A	V	I	E	M	A	S	A	S	G	L	E	L	V	A	P	P	E	K	R	N	N	P	L	I	A	T	T	S	R	F	G	T	G	E	L	I	L	L			
UniRef90_A0A024AJJ3	S	G	D	G	K	T	A	F	I	E	M	A	S	A	S	G	L	E	L	V	V	P	P	E	K	R	N	N	P	L	I	A	T	T	S	R	F	G	T	G	E	L	I	L	L			
UniRef90_U4JV27	L	G	D	N	Q	T	A	V	I	E	M	A	S	A	S	G	L	H	H	V	S	L	S	R	R	N	N	P	K	L	V	T	T	T	S	F	G	T	G	E	L	I	L	L				
UniRef90_Q67LH1	L	G	D	G	D	T	A	V	I	E	M	A	S	A	S	G	L	H	H	V	V	P	P	E	Q	R	R	N	N	P	K	V	T	T	T	S	F	G	T	G	E	L	I	L	L			
UniRef90_C9P1D9	M	G	D	G	K	T	A	L	I	E	M	A	S	A	S	G	L	H	L	V	V	A	P	E	Q	R	R	N	N	P	M	K	T	T	S	Y	G	T	G	E	L	I	L	L				
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UniRef90_UPI00035D5AB1	L	G	D	G	V	T	A	V	I	E	M	A	S	A	S	G	L	T	L	V	V	P	V	E	Q	R	R	N	N	P	L	I	A	T	T	S	K	Y	G	T	G	E	L	I	L	L		
UniRef90_C2KXF3	L	K	D	E	K	L	A	V	I	M	E	M	S	Q	A	S	G	I	T	L	V	S	P	E	Q	R	R	N	N	P	L	K	T	G	S	Y	G	V	G	E	M	I	L	L				
UniRef90_A8TA44	L	L	E	D	G	K	T	A	V	I	E	M	A	E	A	S	G	L	H	L	V	P	P	K	T	E	R	N	N	P	K	N	T	T	S	F	G	T	G	E	L	I	L	L				
UniRef90_D4LIJ8	L	L	E	S	T	K	T	A	V	I	E	M	A	G	A	S	G	L	T	Q	V	P	D	E	Q	R	R	N	N	P	L	Y	T	T	T	S	Y	G	T	G	E	L	I	L	L			
UniRef90_I3DH18	S	G	D	K	Q	T	A	I	I	E	M	A	S	A	S	G	L	H	L	V	V	P	P	S	K	R	N	N	P	R	K	T	T	S	Y	G	T	G	E	L	I	L	L					
UniRef90_R7IV28	L	S	E	E	S	R	T	A	F	I	E	M	S	A	A	S	G	L	T	L	V	S	E	K	E	R	N	N	P	L	L	T	T	T	S	Y	G	V	G	E	M	I	L	L				
UniRef90_G4CQI1	S	G	D	G	K	T	A	F	I	E	M	A	S	A	S	G	L	H	L	V	V	P	H	E	K	R	N	N	P	L	L	T	T	T	S	Y	G	T	G	E	L	I	L	L				
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UniRef90_L1QB4Y4	L	G	G	G	K	L	G	I	L	E	M	A	S	A	S	G	L	H	L	V	V	P	L	D	K	R	N	N	P	L	L	I	T	T	T	Y	G	T	G	E	L	I	L	L				
UniRef90_U1WSQ6	L	L	G	D	R	E	T	C	V	I	E	M	A	S	A	S	G	L	Y	L	V	T	T	E	Q	R	R	N	N	P	L	I	T	T	T	Y	G	T	G	E	L	I	L	L				
UniRef90_K4KSF1	L	E	D	R	T	T	A	V	I	E	L	A	A	A	S	G	L	N	L	V	V	P	A	K	Q	R	N	N	P	L	L	T	T	S	Y	G	V	G	E	L	I	L	L					
UniRef90_W7Z1W5	L	L	G	D	N	Q	T	C	V	I	E	M	A	S	A	S	G	L	V	L	V	P	D	G	E	R	N	N	P	M	V	T	T	T	S	F	G	T	G	E	L	I	L	L				
UniRef90_C9QAP4	L	L	G	D	N	E	T	A	V	I	E	M	A	S	A	S	G	L	H	H	V	V	P	I	T	Q	R	R	N	N	P	M	V	T	T	T	S	F	G	T	G	E	L	I	L	L		
UniRef90_F0LY16	L	L	G	D	G	Q	T	A	V	I	E	M	A	S	A	S	G	L	H	H	V	V	P	L	A	Q	R	R	N	N	P	K	L	T	T	S	F	G	T	G	E	L	I	L	L			
UniRef90_W4Q7P5	L	L	D	S	G	R	T	A	I	I	E	M	A	E	A	S	G	L	T	L	V	V	P	K	E	A	K	L	N	N	P	L	E	A	S	T	Y	G	T	G	E	L	I	L	L			
UniRef90_D4MD55	L	L	G	D	G	R	E	T	V	I	E	M	A	K	A	S	G	L	E	L	V	V	K	A	K	L	N	N	P	L	I	T	T	T	Y	G	T	G	E	L	I	L	L					
UniRef90_I8TYQ1	L	L	G	D	G	K	T	A	V	I	E	M	A	S	A	S	G	L	P	L	V	V	P	A	N	D	K	K	N	N	P	R	I	T	T	T	Y	G	T	G	E	L	I	L	L			
UniRef90_F5I2A2	M	G	T	G	K	T	A	A	V	I	E	M	A	S	A	S	G	L	H	F	V	D	E	N	T	K	N	N	P	L	L	T	T	T	Y	G	T	G	E	L	I	L	L					
UniRef90_A0A037Z173	L	L	G	D	G	K	T	A	V	I	E	M	A	S	A	S	G	L	H	H	V	V	P	K	E	D	R	N	N	P	L	L	T	T	T	Y	G	T	G	E	L	I	L	L				
UniRef90_B2A890	L	L	G	D	N	E	T	A	V	I	E	M	A	E	A	S	G	L	Q	L	V	V	T	K	E	N	L	D	N	P	K	I	T	T	T	Y	G	T	G	E	L	I	L	L				
UniRef90_A0A014MJA7	S	G	D	G	H	T	A	V	I	E	M	A	S	A	S	G	L	A	L	V	V	P	P	A	Q	R	R	N	N	P	L	N	T	T	T	Y	G	T	G	E	L	I	L	L				
UniRef90_M1L750	L	L	G	D	G	R	T	A	V	I	E	M	A	E	A	S	G	L	H	L	V	V	P	R	H	Q	R	R	N	N	P	L	L	T	T	T	Y	G	T	G	E	L	I	L	L			
UniRef90_D1ARF0	S	G	D	G	K	T	A	V	I	E	M	A	S	A	S	G	L	P	L	V	V	S	P	D	E	R	N	N	P	L	K	A	T	T	F	G	T	G	E	L	I	L	L					
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UniRef90_E4TEK7	T	G	D	G	K	R	C	C	V	I	E	M	A	S	C	C	G	L	S	L	V	V	K	P	E	E	R	N	N	P	S	I	T	T	T	F	G	L	G	E	L	I	L	L				
UniRef90_UPI000414D553	L	L	G	D	S	H	T	A	V	I	E	M	A	A	S	G	L	H	H	V	V	P	H	L	R	D	N	N	P	K	L	L	T	S	S	Y	G	T	G	E	L	I	L	L				
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UniRef90_B4EX08	L	L	G	D	N	T	T	A	V	I	E	M	A	Q	A	S	G	L	H	L	V	V	P	P	S	Q	R	R	N	N	P	N	L	T	T	S	Y	G	T	G	E	L	I	L	L			
UniRef90_U7VAA4	M	G	D	G	K	T	A	V	I	E	M	A	E	A	S	G	L	H	L	V	V	P	V	E	K	R	N	N	P	M	K	T	T	T	Y	G	T	G	E	L	I	L	L					
UniRef90_R2NVA1	L	L	A	D	K	K	T	A	V	I	E	M	A	K	A	S	G	L	E	L	V	V	P	E	K	R	N	N	P	L	L	Q	A	T	S	T	S	F	G	T	G	E	L	I	L	L		
UniRef90_C4SZI3	L	L	I	G	D	G	D	T	A	V	I	E	M	A	K	A	S	G	L	M	L	V	V	P	A	D	K	R	N	N	P	L	L	Q	A	T	S	T	S	F	G	T	G	E	L	I	L	L
UniRef90_T4VKJ8	L	L	K	E	T	N	T	A	V	I	E	M	A	Q	A	S	G	L	P	L	V	V	P	A	E	L	R	N	N	P	L	N	T	T	T	Y	G	V	G	E	L	I	L	L				
UniRef90_D0KL97	M	G	D	G	D	L	A	V	I	E	M	A	S	A	S	G	L	H	H	V	V	P	N	Q	D	T	E	R	N	N	P	L	I	A	T	T	T	Y	G	T	G	E	L	I	L	L		
UniRef90_R9BVF1	L	L	G	D	G	S	K	A	V	I	E	M	A	S	A	S	G	L	Q	L	V	V	K	R	E	R	N	N	P	L	I	A	T	T	T	F	G	T	G	E	L	I	L	L				
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		90	100	110	120																																								
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UniRef90_R6VAL6	S	G	D	K	R	Q	T	A	V	E	M	A	K	A	S	G	L	P	L	L	V	S	E	K	N	D	R	N	N	P	L	L	T	T	S	T	Y	G	T	G	E	L	L	K	
UniRef90_N8Q8Z0	L	G	D	D	A	Q	R	T	A	E	M	A	K	A	S	G	L	H	L	L	V	S	E	K	N	D	R	N	N	P	L	L	T	T	S	T	Y	G	T	G	E	L	L	K	
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UniRef90_C1DFR4	L	A	E	S	R	S	A	V	I	E	M	A	A	A	S	G	L	H	L	L	V	P	A	G	R	R	D	D	A	L	R	A	T	S	F	G	T	G	E	L	L	R	L		
UniRef90_Q765R2	L	G	D	G	S	T	A	V	I	E	M	A	A	A	S	G	L	M	L	V	P	A	G	R	R	D	D	A	L	R	A	T	S	F	G	T	G	E	L	L	R	L			
UniRef90_M1E647	L	G	D	G	S	T	A	V	I	E	M	A	S	A	S	G	L	P	L	V	P	K	E	K	R	R	N	P	Y	I	T	T	S	T	Y	G	T	G	E	L	L	R	L		
UniRef90_R6QZ49	L	E	K	N	G	T	A	V	I	E	M	S	G	A	S	G	L	T	L	V	P	K	E	K	D	R	N	N	P	M	Y	T	T	S	T	Y	G	V	G	E	L	L	R	L	
UniRef90_S0FUZ1	L	G	D	G	S	T	A	V	I	E	M	A	A	A	S	G	L	C	M	L	V	K	D	E	E	K	N	N	P	L	Y	T	T	S	T	Y	G	V	G	E	L	L	R	L	
UniRef90_I6YIM1	L	G	D	G	K	T	A	V	I	E	M	A	A	A	S	G	L	Q	F	V	P	D	E	K	E	K	N	N	P	L	I	T	T	S	T	Y	G	T	G	E	L	L	M	K	
UniRef90_Q1I9M1	L	P	D	S	R	T	A	V	I	E	M	A	Q	A	S	G	L	Q	L	V	P	S	A	Q	R	N	D	A	C	R	S	T	T	W	G	T	G	E	L	V	A	K			
UniRef90_G7WFT6	L	E	G	G	S	T	A	V	I	E	M	A	A	A	S	G	L	T	L	L	S	T	S	E	A	Q	E	K	N	P	S	R	L	T	T	S	T	Y	G	T	G	E	L	L	K
UniRef90_W9AA33	S	G	N	G	S	T	A	V	I	E	V	A	S	A	S	G	L	T	L	L	L	T	K	Q	E	R	N	N	P	S	R	L	T	T	T	F	G	V	G	E	L	L	M	K	
UniRef90_UPI0003781A52	L	G	D	G	S	T	A	V	I	E	M	A	T	A	S	G	L	L	L	I	A	P	E	K	D	R	N	N	P	S	R	L	T	T	T	Y	G	T	G	E	L	L	K		
UniRef90_UPI0002DDC2E6	L	K	N	D	K	K	T	A	V	I	E	V	A	A	S	G	L	D	L	I	A	P	E	K	D	R	N	N	P	S	R	L	T	T	T	Y	G	T	G	E	L	L	K		
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UniRef90_UPI00047E48A7	M	G	D	G	Q	V	G	V	I	E	M	A	S	A	S	G	L	H	H	N	A	Q	T	R	N	D	P	L	V	T	T	T	T	Y	G	T	G	E	L	L	R	R			
UniRef90_Q2T8U6	L	P	D	G	T	A	V	I	E	M	A	E	A	S	G	L	H	L	V	P	P	E	N	S	R	R	D	P	S	R	L	V	T	S	T	S	R	G	T	G	E	L	L	M	
UniRef90_E1RAM1	L	P	G	Q	K	A	V	L	E	M	A	A	A	S	G	L	P	L	V	P	P	E	N	S	R	R	D	P	S	R	L	V	T	S	T	S	R	G	T	G	E	L	L	M	
UniRef90_B2SUU9	T	G	D	G	R	T	A	V	I	E	M	A	A	A	S	G	L	A	L	L	P	P	A	E	R	A	D	P	L	R	T	S	T	A	G	V	G	E	L	L	L	L			
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UniRef90_M5E1M0	I	L	E	Q	E	K	I	A	V	V	E	M	A	A	S	G	L	P	L	V	P	R	E	K	R	N	N	P	L	V	T	T	T	Y	G	T	G	E	L	L	H				
UniRef90_Q2RLF1	L	G	D	G	I	T	A	V	V	E	M	A	Q	A	S	G	L	P	L	V	P	R	E	K	R	N	N	P	L	V	T	T	T	Y	G	T	G	E	L	L	H				
UniRef90_R9JAE7	L	E	G	N	R	T	A	V	I	M	E	M	A	C	V	A	S	G	L	P	L	V	P	P	E	K	R	N	N	P	M	D	T	T	T	F	G	V	G	E	L	L	K		
UniRef90_S2F5J4	L	L	P	H	T	H	T	A	V	I	E	M	A	E	A	S	G	L	Q	L	V	P	V	D	R	R	D	A	C	I	S	T	S	T	F	G	T	G	E	L	L	K			
UniRef90_UPI0003B411C1	L	S	E	K	K	L	A	V	I	E	M	S	G	A	S	G	L	T	L	L	S	E	S	E	E	L	S	P	L	D	T	T	T	Y	G	V	G	E	L	L	R				
UniRef90_UPI00047CC379	L	G	N	Q	V	T	A	V	I	E	I	A	E	A	S	G	L	P	L	V	P	K	E	E	R	N	N	P	L	L	V	T	T	T	F	G	V	G	E	L	L	M			
UniRef90_K9V128	L	L	G	D	G	K	T	A	V	L	E	M	S	A	A	S	G	L	R	L	V	P	D	L	R	N	N	P	L	V	T	T	T	Y	G	V	G	E	L	L	K				
UniRef90_I7KPG6	L	G	D	D	T	C	V	I	E	M	A	E	A	S	G	L	K	H	L	T	N	D	E	T	L	N	A	M	T	T	T	T	Y	G	T	G	E	L	L	Y					
UniRef90_W4QDK3	L	G	D	G	E	T	V	I	D	V	A	Q	A	S	G	L	R	L	R	D	E	K	E	R	N	N	P	L	I	T	T	T	S	Y	G	T	G	E	L	L	K				
UniRef90_D7V563	L	L	G	D	K	E	T	A	V	I	E	M	A	E	A	S	G	L	Q	Y	V	D	N	D	Q	T	R	N	P	L	I	T	T	T	Y	G	V	G	E	L	L	K			
UniRef90_R0GKA5	L	G	D	Q	H	T	G	V	I	E	M	S	Q	A	S	G	L	Q	Y	V	T	K	T	T	R	N	N	P	L	K	T	T	T	F	G	T	G	E	L	L	L				
UniRef90_F0LZQ1	L	L	E	E	S	R	T	A	V	I	E	I	A	Q	A	S	G	L	D	K	V	S	M	Q	N	R	N	N	P	L	L	A	S	T	Y	G	V	G	E	L	L	Q			
UniRef90_R7QWR1	L	L	E	E	S	R	T	A	V	I	E	M	S	Q	A	S	G	L	T	L	I	S	S	N	E	R	N	N	P	L	L	A	T	T	T	Y	G	V	G	E	L	L	R		
UniRef90_A1AT42	L	G	D	G	A	T	A	V	I	E	M	A	A	A	S	G	L	P	L	V	A	P	E	R	R	R	N	N	P	L	R	A	S	T	T	Y	G	T	G	E	L	L	R		
UniRef90_C6RE33	A	G	E	G	L	G	I	L	E	M	A	S	S	S	G	L	M	L	V	A	P	E	K	E	R	N	N	N	P	M	K	A	T	T	F	G	T	G	E	L	L	M			
UniRef90_R7DH13	S	E	D	G	K	T	A	V	I	E	T	A	A	A	S	G	L	A	L	L	P	K	E	K	R	R	N	N	P	M	E	A	T	T	F	G	T	G	E	L	L	K			
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UniRef90_UPI00037D733B	L	L	L	G	D	N	T	G	V	I	E	M	A	S	A	S	G	L	H	H	L	N	K	E	S	R	N	N	P	L	L	K	T	T	T	Y	G	T	G	E	L	L	R		
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UniRef90_UPI00046AA94E	L	L	L	G	D	N	G	T	A	V	E	M	A	Q	A	S	G	L	H	H	L	V	S	T	A	F	R	N	P	L	L	T	T	Y	G	T	G	E	L	L	V				
UniRef90_UPI00046AA94E	L	L	L	G	D	N	G	T	A	V	E	M	A	Q	A	S	G	L	H	H	L	V	S	T	A	F	R	N	P	L	L</														

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E K S K N A D Y V L T G E G G R L D D F N G Q K T P M G V V A K K A K K A N P E T V V V I A
T L V Q G A D L V I T G E G G R L D D A F Q Q K T P L G V V A R V A K R H G V P P V V V I A
U N I R E S G L V I T G E G G R L D D A F Q Q K V P V G V V A A L A K K Y H G V P P V V L V S A
S Y I E G A D L V I T G E G G K L D D F N Q K V P M G V V A Q L A K K Y N G I L P P V I A V S A
N L I K D A D L V I T G E G G H T D H G K A P V G V I A Q C A N K Y H I L P P V I C L S A
U N I R E S G L V I T G E G G G L D D F Q Q K A P Y G V A K R A Q D K G N K P P V I G I A A
E R A K N A D L V I T G E G G G L D D F Q Q K T P Y G V V A L A T A K K T N A P P V I A L A A
D K L Q G A D Y C L T G E G G R I D D S Q Q K T P Y G V V A K T A Q A L Q V P P V I A V S G
D A I R G D A S L V I T G E G G C L D D G Q Q K A P I I G V V A R L A A E C G V P P V V A I V
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U N I R E S G L V I T G E G G Q L L D D F Q Q K T P M G V V A Q A A K K A N I Q P P V I A I A
D F A K D A D Y V F T G E G G Q L L D D F Q Q K T P M G V V A Q A A K K A N I Q P P V I A I A
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UniRef90_N9KT11 P L A D G G G E G T V D A L L L S A C Y G G R Q K V S C H V V H R R G P P P Q Q Q V S E S A K Y F A L L
UniRef90_Q1QBZ8 P M A D G G G E G T S A V L L N Y V L G G R W K E V H V V H R R G P P L L Q M R Q V S E S A K Y F A L L
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UniRef90_F3BCL0 P L A D G G G E G T G E L L T E Q S A T G G K K L S V S V S G P P L L G N E K N I A Y Y G I
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UniRef90_UPI00046A9B3B P M A D G G G E G I L L E T L V E A T H G T Y H E V L A R N D P P L L M R Q M K T C Y G I
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UniRef90_I0JQX0 P M A D G G G E G T L E A I S A R S D P R Q K V S L T C T G P P L L G E K V M A S S Y
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UniRef90_UPI00037E3294 P L A D G G G D G T I D V L E Y H L Q G K R I K I K V N D P P L F R P I E S S Y L F
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UniRef90_N9Y2Q8 P I A D G G G E G T L D S L L A K G G K I F K K V I R G P L L G E K A I G R Y G I
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UniRef90_M7NDW0 P M I D G G G E G F A K A I T K L K D G E L L Q L E V T G P P V L G E R P L M S H Y G L
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UniRef90_L0SZ78 P V A D G G G E G T V A V L V I A A S G G R I V G R T V T G P P L L G V I V D A S Y G I
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	90	100	110	120
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UniRef90_F8I150	L L G D G K T A V I	E M A A A A S G L	L L R A S S S Y G T G G E M L	A
UniRef90_R6B892	L L E E D D K G T A V I	E M A A A A S G L	L L R A S S S Y G T G G E M L	A
UniRef90_E3HHH8	L L E E D D K G T A V I	E M A A A A S G L	L L R A S S S Y G T G G E M L	A
UniRef90_G9WI74	L I E H G K T A V I	E M S A A A S G L	Q F I A R E N Q K T D P	P L A A S S S Y G T G G E M L
UniRef90_N9KT11	L I L D D D K T A V I	E M A K A A S G L	H L L I T V A E R N P	P A L A S S S Y G T G G E M L
UniRef90_Q1QBZ8	L L P D D K T A V I	E M A E A A S G L	P L V A P E D E K F N D P	M E T T T T Y G T G G E L I
UniRef90_R6NYU5	L S G D G D K T A V I	E M A A A S G L	N T L T A P E D E K F N D P	M Q S A S S T T Y F G T G G E L I
UniRef90_R6LJA9	L S G D G D G G T A V I	E L S L A A S G L	N T L T A P E D E R N D P	M K S T T T Y G V G G E M I
UniRef90_UPI00026287D9	L L P N G T A V I	E M A A A A S G L	R H L L T P T E L R N D P	L I T T T T Y G V G G E M I
UniRef90_V9HL13	L L G N Y K T A V I	E M A A A A S G L	R H L L T P T E L R N D P	L I T T T T Y G V G G E M I
UniRef90_UPI000344E38F	L T G D G K T A V I	E L A T A S S G L	D L L V P K E E K R N D P	M L I T T T T Y G V G G E L I
UniRef90_UPI0002F837F9	L L E D G I T A V I	E M A Q A A S G L	D L L V P K E E K R N D P	M L I T T T T Y G V G G E M V
UniRef90_W6EIE0	L T G D G K T A V I	E M A Q A A S G L	D L L V P K E E K R N D P	M L I T T T T Y G V G G E M I
UniRef90_F3BCL0	L T G D G K T A V I	E L A T A S S G L	D L L V P K E E K R N D P	M L I T T T T Y G V G G E M I
UniRef90_UPI0002F8817B	L T G D G Q T A V I	E L A T A S S G L	D L L V P K E E K R N D P	M L I T T T T Y G V G G E M I
UniRef90_N9P993	V D P G Q T A V I	E M A E A N S G L	H L L K P S Q R N D P	M L T T T T Y G T G G E M I
UniRef90_H1PRL8	I R G N A A V L	E M A S S S G L	N L V P K R E R N D P	P Y K A N T S T F G T G G E M L
UniRef90_UPI0004073ECB	S G D G G T A F I	E M A S A S G L	P L V P K R E R N D P	R I T T T T F G T G G E L I
UniRef90_UPI00046A9B3B	S G D G G E T A F I	E M A T V N G L	P L L T E L E R N D P	M L T T T T F G T G G E L I
UniRef90_UPI00047276AA	S K E Q E T A F I	E M A A A S G L	H L L S R N E E R N D P	L L N A T S T F G T G G Q L I
UniRef90_W4Q202	L G D N K T V V I	D V S Q A S S G L	T L L S D E E K R N D P	L L Q A S S T F G T G G Q L I
UniRef90_E6TTH9	L G D N K T A F I	E M A E T C S G L	H L L N P T S A D Y N D P	P F Q T N T T Y G T G G E L I
UniRef90_D3UKZ9	T S G D G K T A F I	E M A Q A S S G L	R L L N P T S A D Y N D P	P F Q T N T T Y G T G G E L I
UniRef90_UPI0003156607	L G D K E T C V V	E I A E A S S G L	T L L Q D D E R Q N D P	L L A S T T Y G T G G E L I
UniRef90_R5K7K4	L N G V K T A V I	E M S A S S G L	P L L V P D D E K R N D P	W L T T T T Y G T G G E M I
UniRef90_B0TDU9	L L K D G K S A V I	E M A A A S S G L	H L L P R D D E K R N D P	R N T T T T F G T G G E L I
UniRef90_UPI00037213E7	I A T R R T A V I	E L A E A S S G L	Q Q L T S D E R D A T R T	S T T Y H G V G G E L I
UniRef90_W7UVD5	L P D N T A V I	E M S A S S G L	P L L S A S T A K N P	L H A T T T Y G T G G E L I
UniRef90_UPI00039579BD	N R E Q R L A V L	D V A S A S S G L	P L M P S A S T A K N P	L H A T T T Y G T G G E L I
UniRef90_UPI00035F509A	L G A G S A V I	E M A A A S G L	E L I T A P G E T R Q P	L R A S S S Y G V G G Q L V
UniRef90_K2FQJ3	S G D G S T A F I	E M A A A S G L	Q H T T A E T R D A T I	T S T F G T G G Q L V S
UniRef90_L9U984	L S D G Q R T A F I	E L A E A S S G L	Q H L A A D E R N A	L H T S T F G V G G E L L
UniRef90_UPI00047901C7	T G D G T T A V I	E M A E A A S G L	H L T V R E H R S P	D T A T T A G V G G D M I
UniRef90_UPI0002892530	L V G N S K T A V I	E V A N A C S G L	S L L P L E N E R N D P	M I A T S Y G L G G E L I
UniRef90_UPI000409DCA6	V P S K N L A V I	E V A S T S S G L	T L L S Q D E L N D P	D E A T S Y G L G G E L I
UniRef90_G5JQ22	I D D G K T A V L	E M A S A S S G L	T L I A P E S L N V	M Q A S T T Y G T G G Q L I
UniRef90_V8G3C9	L L D G D G T A V V	E M A S A A S G L	E Q I N K D K R N D P	L Y T S T T Y G V G G L I
UniRef90_H1X9M0	L L G D G Q T A V I	E M S A A S S G L	Q F V T T T T K N P	L I T T T T Y G T G G Q L I
UniRef90_A0A017I9U2	S G D G K T A F I	E M A A A S S G L	A L V P S E E K R N D P	L V T T T S R G T G G E L I
UniRef90_J9FSM5	T A D G T A I	E M A V A S S G L	P L V P E E Q R N D P	M H T T T T Y G T G G E L I
UniRef90_I0JQX0	L E F E D R A I	E G A A I A S G L	P L V P E E Q R N D P	M H T T T T Y G I G E A I
UniRef90_UPI000403517A	L G D G H T G V I	E M A A A S S G L	Q F V D A Q E T R N P	L T A T T T Y G S G G E M L
UniRef90_UPI00040F718B	S G D G Q T A Y I	E M A A A S S G L	A L L S S E D E R N P	L L T S T T Y G T G G N F I
UniRef90_UPI0002E7E85F	D L Q K R T A F I	E M A K S T G L	T H V S S E D E R N P	Y Q S F S Y G V G N F I
UniRef90_R7IK59	L G D G Q T A V L	E M A Q A S S G L	P Y V P A A Q R D P	R K T T S Y G T G G E L I
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UniRef90_D4QLF4	L I D T E R A V I	E M A Q A S S G L	M L V S G T N Q M N P	M E A T S Y G T G G E L I
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G C F G E D V I Q C
G C L G D G A E K C C
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90 100 110 120

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

K I V I A P D S F K E S M T A A Q Q V G N I I K Q A F T N V Y G N T H Y D I I
MR V L L A P D K F K G S L T A S A Q A C H L A A G L R R A A P G L D L R E L
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	130	140	150	160
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