

QUERY	50	60	70	80
UniRef90_UPI000363C410	A S R Y R K K E	V T G S G L	D D D D D T	Q Q L L R M
UniRef90_UPI0002627243	A R Y R K K E	V T G G G L	D D D D D T	D D A S Q Q
UniRef90_AOKF15	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_K9GQU7	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_E1VFX2	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_B6T67	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_G8AQ49	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0004291E53	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_R4WH13	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_Q2JG16	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00036DF31C	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_B8V07	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_C9Y291	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_C4LA14	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_F4AND7	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_K2LY70	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000348C212	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_I2JEZ2	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_D6YB33	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_H5VXG1	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_G8QN57	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_Q21CQ2	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_G8PNN5	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0003943C85	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_U1IUW1	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_X2H5Q8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_H8L0N4	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_K2KJN0	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_S9SCF5	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_B5JWZ5	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_Q65QE6	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_H8YX39	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00037FB3A6	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000465F9A4	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_W9A4I4	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000422CBC2	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00047E2755	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00035EB1B1	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000363FA2D	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_G2J2Q0	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00036858FD	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_E7RXT9	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_M1F9M1	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_I6T8E5	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_Q1MZ00	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_I3CCM9	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_V5SGX9	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000366DC9D	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_C1DA96	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000470892A	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_C4K6Y4	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_A0A024IDH8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_M4R6N3	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_A4SY73	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_E2CJN7	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_B8KGJ4	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000255AA1F	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_D2U2Z4	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00036C7AB1	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_H8L8V3	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000464BADD	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_B5FFF1	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_F6B9J0	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00047B1B87	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_V5HEG0	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_F3LEN6	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_R2SWQ8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_U1K635	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_K2FSV0	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_R1H051	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0003F97840	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00037CED3A	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_Q0A8L6	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_L0GV82	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_R9SUA8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_E9CMY2	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_U1LBS7	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_J5PUC8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_W7QFH8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0003804980	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0000E10DDE	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0003B3D6E9	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_A3WJ57	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI00040F7607	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_E3ITU8	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI0004157300	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_UPI000361B61E	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_R7C444	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_A0A015M631	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_L0G5R9	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T
UniRef90_B3PDW6	A R Y R K K E	V T G G G L	D D D D D T	L L R R T T

QUERY	E	E	Q	Q	G	K	L	T	P	90	A	R	D	K	100	L	E	D	L	Y	110	K	Q	K	R	R	T	K	120																		
UniRef90_UPI000363C410	I	E	E	Q	Q	G	K	L	T	P	E	E	L	K	E	Q	I	D	A	D	T	K	N	R	L	L	E	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_UPI0002627243	I	D	S	Q	Q	G	K	L	T	T	E	E	L	A	E	R	E	L	R	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_AOKF15	I	P	Y	Q	Q	G	K	L	T	T	E	E	L	A	E	R	E	L	R	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_K9GQU7	I	D	E	E	Q	Q	G	K	L	T	T	D	E	A	R	K	E	I	D	E	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	M			
UniRef90_E1VFX2	I	D	E	E	Q	Q	G	K	L	T	T	P	E	L	E	E	K	E	R	A	A	D	T	K	N	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	M			
UniRef90_B6IT67	I	T	T	E	Q	Q	G	K	L	T	T	P	E	L	E	E	K	E	R	A	A	D	T	K	N	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	M			
UniRef90_G8AQ49	V	R	E	Q	Q	D	K	L	T	T	P	E	L	E	E	Q	I	R	Q	A	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q			
UniRef90_UPI0004291E53	I	A	E	Q	Q	G	K	L	D	D	A	E	L	R	A	Q	I	E	G	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q			
UniRef90_R4WH13	I	R	S	Q	Q	G	K	L	D	D	E	A	L	R	R	A	S	I	L	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	A	Q	Q		
UniRef90_Q2JG16	I	E	A	Q	Q	G	K	L	T	D	E	L	Q	R	M	S	I	L	A	S	A	E	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	A	Q	Q		
UniRef90_UPI00036DF31C	I	D	S	Q	Q	G	K	L	D	D	E	A	L	R	R	A	S	I	L	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	A	Q	Q		
UniRef90_B8IV07	I	E	A	Q	Q	G	K	L	T	D	E	L	Q	R	M	S	I	L	A	S	A	E	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	A	Q	Q		
UniRef90_C9Y291	I	A	D	Q	Q	G	K	L	T	D	E	L	Q	R	M	S	I	L	T	G	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	G	Q	Q		
UniRef90_C4LA14	I	S	E	Q	Q	G	K	L	T	T	D	Q	L	K	K	R	S	I	L	L	S	A	D	N	K	T	E	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	G	Q	Q	
UniRef90_F4AND7	I	D	E	Q	Q	G	K	L	T	T	D	Q	L	K	K	R	S	I	L	L	S	A	D	N	K	T	E	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	G	Q	Q	
UniRef90_K2LY70	I	R	E	Q	Q	E	K	L	T	T	P	E	L	E	A	A	R	I	N	E	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_UPI000348C212	I	R	S	Q	Q	G	K	L	D	E	P	E	L	E	E	A	R	D	N	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_I2JEZ2	I	R	E	Q	Q	D	K	L	D	E	P	E	L	E	E	A	R	D	N	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_D6YB33	I	R	A	Q	Q	G	K	L	D	D	E	A	L	E	A	R	I	M	A	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	F	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_H5VXG1	V	Q	A	Q	Q	G	K	L	D	D	E	A	L	R	R	A	I	M	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_G8QN57	I	D	E	Q	Q	G	K	L	T	T	P	E	L	R	K	A	R	I	D	M	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	Q	K	R	R	T	K	A	Q	Q		
UniRef90_Q21CQ2	V	R	E	Q	Q	G	K	L	D	A	T	L	E	A	A	I	V	M	A	A	D	S	K	G	R	L	L	E	D	L	Y	L	P	F	K	P	K	R	R	T	K	A	E	Q	Q		
UniRef90_G8PNN5	I	D	D	Q	Q	G	K	L	T	D	E	L	E	A	K	Q	E	I	A	S	A	D	N	K	A	A	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_UPI0003943C85	I	Q	D	Q	Q	G	K	L	T	T	A	A	L	E	A	Q	I	L	Q	A	A	D	S	K	T	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_U1IUW1	I	R	E	Q	Q	G	K	L	D	A	A	L	E	A	Q	I	L	M	A	A	D	S	K	G	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	E	Q	Q		
UniRef90_X2H5Q8	I	E	E	E	Q	Q	G	K	L	T	D	D	L	S	Q	S	I	L	K	Q	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	G	Q	Q		
UniRef90_H8L0N4	I	E	E	E	Q	Q	G	K	L	T	H	D	D	L	S	Q	S	I	L	K	Q	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q	
UniRef90_K2KJN0	I	D	E	Q	Q	G	K	L	T	T	D	Q	L	K	K	R	D	L	L	G	A	D	T	K	A	R	L	L	E	E	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_S9SCF5	I	D	E	Q	Q	G	K	L	T	T	D	Q	L	K	K	R	D	L	L	G	A	D	T	K	A	R	L	L	E	E	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_B5JWZ5	I	D	E	Q	Q	E	K	L	T	T	P	E	L	E	A	R	I	L	A	G	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	F	K	Q	K	R	R	T	K	A	Q	Q		
UniRef90_Q65QE6	I	D	E	Q	Q	G	K	L	S	D	E	L	R	A	K	I	V	N	A	T	L	S	K	N	E	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_H8YX39	V	D	E	Q	Q	G	K	L	S	D	E	L	R	E	Q	I	V	E	T	A	T	L	S	K	Q	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_UPI00037FB3A6	I	R	K	Q	Q	G	K	L	D	D	E	L	H	A	R	I	S	A	A	D	S	K	A	R	L	L	E	D	L	Y	L	P	F	K	P	K	R	R	T	R	A	Q	Q				
UniRef90_UPI000465F9A4	I	D	E	Q	Q	G	K	L	D	A	T	L	R	A	A	I	S	D	A	A	D	S	K	Q	T	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	R	A	Q	Q		
UniRef90_W9A4I4	I	T	D	Q	Q	G	K	L	T	T	P	E	L	E	A	E	I	N	S	A	A	D	S	K	T	R	L	L	E	D	L	Y	L	P	Y	K	Q	K	R	R	T	K	A	Q	Q		
UniRef90_UPI000422CBC2	I	E	E	Q	Q	G	K	L	T	T	P	E	L	E	A	Q	A	I	L	A	A	D	T	K	A	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_UPI00047E2755	V	R	E	E	Q	Q	G	K	L	D	D	T	L	R	A	Q	I	L	A	A	E	T	K	A	R	L	L	E	D	L	Y	L	P	F	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_UPI00035EB1B1	I	D	E	Q	Q	G	K	L	T	T	P	E	L	R	A	A	I	H	A	A	D	T	K	Q	N	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_UPI000363FA2D	I	E	E	E	Q	Q	G	K	L	T	T	P	E	L	Q	A	A	I	H	A	A	D	T	K	N	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_G2J2Q0	I	T	T	E	Q	Q	G	K	L	T	T	P	E	L	Q	A	A	I	Y	G	A	D	N	K	T	T	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_UPI00036858FD	I	E	D	Q	Q	G	K	L	T	T	A	E	L	Q	K	A	I	L	D	A	D	N	K	T	L	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
UniRef90_E7RXT9	I	T	T	E	Q	Q	G	K	L	T	T	P	E	L	A	A	R	I	D	E	A	D	S	K	Q	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
UniRef90_M1F9M1	I	D	E	Q	Q	G	K	L	T	T	D	L	K	A	S	I	V	N	G	A	D	T	K	N	Q	R	L	L	E	D	L	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q		
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UniRef90_Q1MZ00	I	D	E	Q	Q	G	K	L	T	T	D	E	L	K	K	A	E	I	T	L	K	A	D	T	K	N	R	L	L	E	D	L	Y	L	P	Y	K	Q	K	R	R	T	K	A	G	Q	Q
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UniRef90_V5SGX9	I	D	E	Q	Q	G	K	L	T	D	E	L	K	A	H	T	V	N	G	A	M	T	K	V	E	L	L	E	D	I	Y	L	P	Y	K	P	K	R	R	T	K	A	Q	Q			
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UniRef90_C1DA96	I	T	T	E	Q	Q	G	K																																							

QUERY UniRef90_UPI000363C410 UniRef90_UPI0002627243 UniRef90_AOKF15 UniRef90_K9GQU7 UniRef90_E1VFX2 UniRef90_B6T67 UniRef90_G8AQ49 UniRef90_UPI0004291E53 UniRef90_R4WH13 UniRef90_Q2JG16 UniRef90_UPI00036DF31C UniRef90_B8V07 UniRef90_C9Y291 UniRef90_C4LA14 UniRef90_F4AND7 UniRef90_K2LY70 UniRef90_UPI000348C212 UniRef90_I2JEZ2 UniRef90_D6YB33 UniRef90_H5WXG1 UniRef90_G8QN57 UniRef90_Q21CQ2 UniRef90_G8PNN5 UniRef90_UPI0003943C85 UniRef90_U1IUW1 UniRef90_X2H5Q8 UniRef90_H8L0N4 UniRef90_K2KJN0 UniRef90_S9SCF5 UniRef90_B5JWZ5 UniRef90_Q65QE6 UniRef90_H8YX39 UniRef90_UPI00037FB3A6 UniRef90_UPI000465F9A4 UniRef90_W9A4I4 UniRef90_UPI000422CBC2 UniRef90_UPI00047E2755 UniRef90_UPI00035EB1B1 UniRef90_UPI000363FA2D UniRef90_G2J2Q0 UniRef90_UPI00036858FD UniRef90_E7RXT9 UniRef90_M1F9M1 UniRef90_I6T8E5 UniRef90_Q1M200 UniRef90_I3CCM9 UniRef90_V5SGX9 UniRef90_UPI000366DC9D UniRef90_C1DA96 UniRef90_UPI000470892A UniRef90_C4K6Y4 UniRef90_A0A024IDH8 UniRef90_M4R6N3 UniRef90_A4SY73 UniRef90_E2CJN7 UniRef90_B8KGJ4 UniRef90_UPI000255AA1F UniRef90_D2U2Z4 UniRef90_UPI00036C7AB1 UniRef90_H8L8V3 UniRef90_UPI000464BADD UniRef90_B5FFF1 UniRef90_F6B9J0 UniRef90_UPI00047B1B87 UniRef90_V5HEG0 UniRef90_F3LEN6 UniRef90_R2SWQ8 UniRef90_U1K635 UniRef90_K2FSV0 UniRef90_R1H051 UniRef90_UPI0003F97840 UniRef90_UPI00037CED3A UniRef90_Q0A8L6 UniRef90_L0GV82 UniRef90_R9SUA8 UniRef90_E9CMY2 UniRef90_U1LBS7 UniRef90_J5PUC8 UniRef90_W7QFH8 UniRef90_UPI0003804980 UniRef90_UPI0000E10DDE UniRef90_UPI0003B3D6E9 UniRef90_A3WJ57 UniRef90_UPI00040F7607 UniRef90_E3ITU8 UniRef90_UPI0004157300 UniRef90_UPI000361B61E UniRef90_R7C444 UniRef90_A0A015M631 UniRef90_L0G5R9 UniRef90_B3PDW6

130 140 150 160

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QUERY	A	S	L	K	V	G	A	P	G	T	L	H	P	C	E	V	M	I	A	E	R	F	G	L	S	N	Q	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R	250	260	270	280				
UniRef90_UPI000363C410	V	A	L	G	V	P	D	E	P	T	L	H	P	C	E	V	M	I	A	A	H	F	G	L	S	N	Q	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R								
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UniRef90_AOKF15	L	L	L	V	A	G	D	D	P	S	G	A	S	P	C	E	G	R	I	A	A	H	H	K	L	N	Q	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R								
UniRef90_K9GQU7	L	L	L	S	V	D	P	E	D	G	R	S	H	P	C	E	G	K	V	A	A	R	R	F	G	S	V	D	Q	G	R	P	A	D	D	A	W	L	A	E	V	V	R	R						
UniRef90_E1VFX2	V	A	L	L	A	L	D	N	E	A	E	L	H	P	C	E	P	M	I	A	A	Q	R	F	S	R	T	N	Q	G	R	P	A	D	D	A	W	L	A	E	V	V	R	R						
UniRef90_B6IT67	L	K	M	E	V	G	E	E	A	G	T	H	P	C	E	T	M	I	A	A	A	R	Y	A	I	Q	D	D	R	G	R	P	A	D	D	R	W	L	A	E	V	V	R	R						
UniRef90_G8AQ49	I	R	L	D	P	V	E	E	G	Q	P	H	P	C	E	A	E	R	T	I	A	A	H	T	G	I	R	D	D	Q	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R					
UniRef90_UPI0004291E53	L	T	L	E	P	E	E	A	Q	P	P	G	L	C	E	Y	E	Q	R	I	A	A	R	R	F	G	S	V	D	Q	G	R	P	A	D	D	A	W	L	A	E	V	V	R	R					
UniRef90_R4WH13	V	K	L	G	L	G	E	E	A	K	A	P	H	P	C	E	A	M	I	A	A	Q	R	H	V	G	L	S	N	Q	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R					
UniRef90_Q2JG16	L	T	L	L	E	P	D	P	P	G	P	T	D	Y	E	T	R	I	A	A	E	A	F	G	I	S	D	A	G	R	P	A	D	D	R	W	L	A	E	V	V	R	R							
UniRef90_UPI00036DF31C	L	T	L	L	P	E	P	E	P	G	A	P	T	V	Y	E	R	A	I	A	A	R	Y	H	I	S	D	A	D	R	G	R	P	A	D	D	R	W	L	A	E	V	V	R	R					
UniRef90_B8IV07	L	R	L	D	E	N	E	P	D	G	A	P	N	L	S	E	G	R	I	A	A	L	R	H	G	L	S	N	Q	G	R	P	A	D	D	R	W	L	A	E	V	V	R	R						
UniRef90_C9Y291	L	S	L	N	F	D	E	P	P	R	E	S	Y	C	E	Q	L	I	T	D	H	L	G	L	R	L	N	N	A	P	A	D	S	W	R	K	G	V	V	S										
UniRef90_C4LA14	L	N	L	Q	V	E	Q	T	G	D	L	H	P	C	E	Q	M	V	A	S	H	H	F	E	L	T	F	F	R	N	A	P	A	D	A	W	L	A	E	V	V	R	R							
UniRef90_F4AND7	V	S	M	D	A	D	P	Q	K	D	E	S	Y	G	E	H	L	I	A	A	Q	H	L	G	F	T	F	R	S	G	R	P	A	D	D	A	W	L	A	E	V	V	R	R						
UniRef90_K2LY70	L	K	L	T	L	G	K	E	D	E	D	R	P	A	E	V	M	I	A	A	H	H	V	G	I	V	A	D	K	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R						
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UniRef90_I2JEZ2	L	A	L	K	F	S	E	A	E	A	T	H	P	C	E	G	M	V	A	A	E	F	W	K	V	K	D	R	G	R	P	A	D	D	T	W	L	A	E	V	V	R	R							
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UniRef90_G8PNN5	L	D	L	K	V	D	E	D	D	A	V	K	P	V	E	Q	M	I	A	A	D	A	A	G	L	E	N	K	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R							
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UniRef90_U1IUW1	L	L	N	A	D	P	E	E	A	V	P	G	L	Y	E	L	R	I	M	N	Y	F	A	I	S	N	Q	G	R	K	G	D	K	W	L	A	E	V	V	R	R									
UniRef90_X2H5Q8	L	N	A	D	P	T	A	D	E	K	E	S	Y	C	E	Q	L	I	T	E	H	H	L	G	L	R	R	F	N	Q	G	R	P	A	D	D	K	W	L	A	E	V	V	R	R					
UniRef90_H8L0N4	L	E	L	S	P	T	A	D	P	D	Q	G	H	V	C	E	G	R	V	A	A	H	H	A	G	L	R	D	Q	G	R	P	A	D	D	A	W	L	A	E	V	V	R	R						
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UniRef90_B5JWZ5	L	E	I	V	V	G	D	E	G	T	S	P	C	E	A	L	V	A	A	A	R	H	V	A	I	E	D	K	R	A	P	A	D	D	A	W	L	A	E	V	V	R	R							
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UniRef90_G2J2Q0	V	A	I																																															

QUERY WT WK V K L Y T 290 H L E T D L F G E L 300 G A E E D E A A I S V V A R N L H D L L L L 320
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K I Q V W Q V E A V I K L I D E E G N T V P P F F
V G E R Q V A A A V D L L L D D S G S T V P P F F
Q P A Q A R A A I S L L L D D E G G N T V P P F F
L S P K Q Q V D A T I A L L L D D E G G N T V P P F F
I T E K Q V N A T I G L L L D D E G G T V P P F F
V V G S Q V V N A T I V E L L L D D G G G T V P P F F
V V G S Q V V Q A T L N L L L D D G G G T V P P F F
V K S Q Q V A A V A L L L D D E G G T V P P F F
V E K W V V E A A V K L L L D D E G G T V P P F F
V R E N Q V R V A V D L L L D D G G G T V P P F F
R P A Q V E A A I A L L L D D Q G G T V P P F F
V K K W V D A A V T L L L D D I A E G N T V P P F F
Y S K K Q L T T V L D L L L D D I A E G N T V P P F F
D V A P R Q I S A A V M L L L D D E G G T V P P F F
L R P E Q V D R T L A L N A L L D D E G G T V P P F F
V R L Q Q V N D T I T L L L D D D G G T V P P F F
Q S L T A K Q V Q S V I S L L L D D E G N T V P P F F
L K L Y Q V Q N T V K L L L D D D G G T V P P F F
V T E K Q V I A T I G L L L D D E G G T V P P F F
V K E S Q V S T A L Q L L L D D E G G T V P P F F
R P E Q V K V A I S L L L D D E G G T V P P F F
Q Q L T V K Q V K N V I S L L L D D H Q E G N T V P P F F
P A Q V V J A A V D L L L D D G G G T V P P F F
K E S Q V S K T V D L L L D D E S G T V P P F F
R S E Q V S A I H L L L D D E G N T V P P F F
V R E Q Q V S A T I T L L L D D D G G T V P P F F
S S Q Q V I A A T K L L L D D D E G G T V P P F F
V R A N Q V S A A V G L L L D D E G G T V P P F F
V K E S N V S A L A L L L D D A E G N T V P P F F
L K L G Q V R S V I N L L L D D N D G G T V P P F F
N T T I V N K V I S L L L D D E G N T V P P F F
R P N Q V E A A V A L L L D D G G G T V P P F F
V R T P Q V T A T V A L L L D D E G G T V P P F F
S V Q Q V N A A V A G L L L D D E G G T V P P F F
I Q A A I D L L L D D D G G T V P P F F
L A P K Q V R G T A L L L D D D E G G T V P P F F
L K P N V V K Q V I G L L L D D E E G N T V P P F F
V G E N Q V A A A I Q L L L D D E G G S T V P P F F
V G E H Q V S A A V A L L L D D D G G T V P P F F
V K A L Q V K N T I E L L L D D T G N T V P P F F
T N V R P A Q A Q Q V I D L L L D D E E G N T V P P F F
V R E A Q V E A A V R L L L D D E G G S T V P P F F
V E K W V E A A V K L L L D D E G N T V P P F F
L K V A E R Q V N A A V E L L L D D G G S T V P P F F
R V R P Q Q V E A A V A L L L D D G G G T V P P F F
L Q L P A Q Q I Q S A I E L L L D D G G G T V P P F F
F S E K Q V H V I E L L L D D E E G N T V P P F F
K V K P A Q V E A A I R L L L D D G G G T V P P F F
P A Q V D A A I A L L L D D G G G T V P P F F
V A E S A V A A I K L L L D D E G G T V P P F F
P E S S V A A A L K L L L D D E G N T V P P F F
A K V E P K Q A K A V I G L L L D D E E G N T V P P F F

	50	60	70	80
UniRef90_M8DD66	A R Y R K E M T	Q G A L L D D D E T Q Q	I I R A K D I I M E E E R N R W T S Y Y L R Q N N E L L S	V R K E E D S V I L R R Q L
UniRef90_UPI00036F039B	A R Y R K E M T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T D L L D L L E E E S E R R L L S G Y Y L R Q R E L L L	A R R R A A A V V V L L R Q S S S
UniRef90_A8IGK8	A R Y R K E A T	V T G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T D L L D L L E E E S E R R L L S G Y Y L R Q R E L L L	A R R R A A A V V V L L R Q S S S
UniRef90_B1Y002	A R Y R K E A T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T D L L D L L E E E S E R R L L S G Y Y L R Q R E L L L	A R R R A A A V V V L L R Q S S S
UniRef90_UPI0003B3C535	A R Y R K E M T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T D L L D L L E E E S E R R L L S G Y Y L R Q R E L L L	A R R R A A A V V V L L R Q S S S
UniRef90_UPI0002891271	A R Y R K E M T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T D L L D L L E E E S E R R L L S G Y Y L R Q R E L L L	A R R R A A A V V V L L R Q S S S
UniRef90_Q0BZL2	A R Y R K E A T	E V L L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L
UniRef90_V6L1R9	A R Y R K E A T	G G G L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L
UniRef90_F6EIV8	A R Y R K E A T	G G G L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L
UniRef90_K0JQU0	A R Y R K E A T	G G G L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L	R T L L L D D D D A Q L R T L L L D D D D A Q L R T L L L D D D D A Q L
UniRef90_UPI00045EB5F3	S R Y R K E A T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_UPI0003FF7758	A R Y R K E L T	G G G L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_UPI00046A2B7D	S R Y R K E A T	G G G L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_Q1QU56	S R Y R K E V T	G G G L L D D D D G T Q Q	L L L D D D D G T Q Q L R T L L L D D D D G T Q Q L R T L L L D D D D G T Q Q	L L L D D D D G T Q Q L R T L L L D D D D G T Q Q L R T L L L D D D D G T Q Q
UniRef90_J2ICP0	A R Y R K E V T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q
UniRef90_UPI0002F75528	A R Y R K E V T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q
UniRef90_A1ZG34	A R Y R K E A T	G S L L L D D D D N E V I	R A S I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S	R A S I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S
UniRef90_U4TCN3	A R Y R K E V T	G T G L L D D D D S N Q L	R A S I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S	R A S I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S
UniRef90_UPI00036DEA04	A R Y R K E M T	G T G L L D D D D S N Q L	R A S I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S	R A S I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S
UniRef90_UPI0003B72A2F	A R Y R K E A T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_F4GXB0	A R Y R K E A T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q
UniRef90_UPI000237A640	A R Y R K E A T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q
UniRef90_D8K5E3	A R Y R K E A T	G G G L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q	L L L D D D D T Q Q L R T L L L D D D D T Q Q L R T L L L D D D D T Q Q
UniRef90_B1Z730	A R Y R K E A T	G S L L L D D D D A Q L	R S A I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S	R S A I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S
UniRef90_UPI0003B4AD78	A R Y R K E R T	G S L L L D D D D A Q L	R S A I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S	R S A I L R E E E R L L L R S Y Y L R R E L L L D D D K R R R E A S E I V I L L K K S S
UniRef90_L1MHC4	A R Y R K E V T	G G G L L D D D D S Q L	R R Q L L E E E E R L L L A Y Y L R R E L L L D D D Q E R K R K E S T E I V I L L R A E S	R R Q L L E E E E R L L L A Y Y L R R E L L L D D D Q E R K R K E S T E I V I L L R A E S
UniRef90_UPI0004645808	A R Y R K E V T	G G G L L D D D D A Q I	R H I E E E E R L L L E Y L R R S D Q Q K R K R K E T V I V I L L R S S T S	R H I E E E E R L L L E Y L R R S D Q Q K R K R K E T V I V I L L R S S T S
UniRef90_B8D058	A R Y R K E V T	G G G L L D D D D A Q I	R H I E E E E R L L L E Y L R R S D Q Q K R K R K E T V I V I L L R S S T S	R H I E E E E R L L L E Y L R R S D Q Q K R K R K E T V I V I L L R S S T S
UniRef90_UPI00047C9FA5	S R Y R K E M T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_UPI0004023173	S R Y R K E V T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_E0IGL2	A R Y R K E M T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_UPI0004155C9C	A R Y R K E M T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_UPI0003B5EB8D	S R Y R K E V T	G G G L L D D D D S N Q M	R A I L Q Q E R R L L T G Y L R Q Q L D D D E R R K R K E S E V I T K K S S	R A I L Q Q E R R L L T G Y L R Q Q L D D D E R R K R K E S E V I T K K S S
UniRef90_UPI000360543F	A R Y R K E M T	G S L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q	L L L D D D D E T Q Q L R T L L L D D D D E T Q Q L R T L L L D D D D E T Q Q
UniRef90_F7S0H4	A R Y R K E A T	G G L L L D D D D I V Q L	R S I L A Q R D R L T Y Q L R R E L L D D D E R R R Q E V I T K K S S	R S I L A Q R D R L T Y Q L R R E L L D D D E R R R Q E V I T K K S S
UniRef90_UPI0003B61947	S R Y R K E A T	G S L L L D D D D I V Q L	R S I L A Q R D R L T Y Q L R R E L L D D D E R R R Q E V I T K K S S	R S I L A Q R D R L T Y Q L R R E L L D D D E R R R Q E V I T K K S S
UniRef90_E6VMC0	A R Y R K E A T	G G L L L D D D D A Q L	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_L6QDI0	A R Y R K E I T	G G L L L D D D D A Q L	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_R5VKU6	A R Y R K E Q T	H G T L L D D D D A Q L	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_D3Q774	A R Y R K E A T	G T L L L D D D D A Q L	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_D2UAU1	A R Y R K E V T	G G L L L D D D D T Q L	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R N L L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_K4Z9U3	A R Y R K E M T	G G L L L D D D D E T Q L	R S T L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R S T L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_G7UU70	A R Y R K E V T	G G L L L D D D D E T Q L	R S T L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S	R S T L E E E E R L L L G Y L R R E L L E E D E R R K R K E A I V I L L K S S
UniRef90_H1XZW6	S R Y R K E L T	G S L L L D D D D E T Q V	A A I L R E E E R D R M Q Q L R E L L D D D K R R R E A I V I L L K S S	A A I L R E E E R D R M Q Q L R E L L D D D K R R R E A I V I L L K S S
UniRef90_UPI00046D7684	A R Y R K E M T	G G L L L D D D D E T Q V	A A I L R E E E R D R M Q Q L R E L L D D D K R R R E A I V I L L K S S	A A I L R E E E R D R M Q Q L R E L L D D D K R R R E A I V I L L K S S
UniRef90_UPI0004749424	S R Y R K E A T	G S L L L D D D D E T Q V	A A I L R E E E R D R M Q Q L R E L L D D D K R R R E A I V I L L K S S	A A I L R E E E R D R M Q Q L R E L L D D D K R R R E A I V I L L K S S
UniRef90_G0A2C2	S R Y R K E A T	G S L L L D D D D E T Q L	R M L L Q E E R L L I Y L R R E L L D D D K R R R E A I V I L L K S S	R M L L Q E E R L L I Y L R R E L L D D D K R R R E A I V I L L K S S
UniRef90_R5WJT9	S R Y R K E A T	G S L L L D D D D E T Q L	R M L L Q E E R L L I Y L R R E L L D D D K R R R E A I V I L L K S S	R M L L Q E E R L L I Y L R R E L L D D D K R R R E A I V I L L K S S
UniRef90_UPI00036A01AD	A R Y R K E A T	G A L L L D D D D A Q L	R A L L E E E E R L L R Y L R R E L L D D D E A R R K E T V I L L R T S S	R A L L E E E E R L L R Y L R R E L L D D D E A R R K E T V I L L R T S S
UniRef90_S6BEH5	A R Y R K E V T	G G L L L D D D D G Q L	R L L L E E E E R L L T Y L R R N L L E E K R K E A I V I L L R T S S	R L L L E E E E R L L T Y L R R N L L E E K R K E A I V I L L R T S S
UniRef90_R6WJD4	A R Y R K E A T	G T L L L D D D D E T Q L	R K L L H E E E R L L T Y L R R N L L E E K R K E A I V I L L R T S S	R K L L H E E E R L L T Y L R R N L L E E K R K E A I V I L L R T S S
UniRef90_U5S702	A R Y R K E M T	G T L L L D D D D E T Q L	R K L L H E E E R L L T Y L R R N L L E E K R K E A I V I L L R T S S	R K L L H E E E R L L T Y L R R N L L E E K R K E A I V I L L R T S S
UniRef90_Q82SV2	A R Y R K E A T	G N L L L D D D D T Q L	R L L L E E E E R L L A Y L R R E L L E A R R R Q T V I L L R T S S	R L L L E E E E R L L A Y L R R E L L E A R R R Q T V I L L R T S S
UniRef90_L7U599	A R Y R K E V T	G G L L L D D D D A Q L	R T L L N S R L G Y L R R D L D D N E R R N V I L L R T S S	R T L L N S R L G Y L R R D L D D N E R R N V I L L R T S S
UniRef90_B8CUZ4	A R Y R K E M T	G A L L L D D D D A Q L	R N I L V E R W Q Y I Q N I E Q R K E E V I L L R T S S	R N I L V E R W Q Y I Q N I E Q R K E E V I L L R T S S
UniRef90_W4RXA5	A R Y R K E M T	G E L L L D D D D E T Q L	R E L L Y D R L F M Y L R R N L E K R K E E A I V I L L R T S S	R E L L Y D R L F M Y L R R N L E K R K E E A I V I L L R T S S
UniRef90_G8LTW0	A R Y R K E V T	G S L L L D D D D E T Q V	R A G I L E E E R A N Y L K E L L Q E R K E T I V I L L K A A S	R A G I L E E E R A N Y L K E L L Q E R K E T I V I L L K A A S
UniRef90_C6XX62	A R Y R K E V T	G S L L L D D D D E T Q V	R A G I L E E E R A N Y L K E L L Q E R K E T I V I L L K A A S	R A G I L E E E R A N Y L K E L L Q E R K E T I V I L L K A A S
UniRef90_C6RAM7	A R Y R K E A T	G G L L L D D D D S Q L	R T L L E E E E R L L A Y L R R E L L E A R R K E S E V I L L S E R S	R T L L E E E E R L L A Y L R R E L L E A R R K E S E V I L L S E R S
UniRef90_B2IGR3	A R Y R K E A T	G G L L L D D D D S Q L	R T L L E E E E R L L A Y L R R E L L E A R R K E S E V I L L S E R S	R T L L E E E E R L L A Y L R R E L L E A R R K E S E V I L L S E R S
UniRef90_UPI0003B576BE	A R Y R K E V T	G G L L L D D D D T Q L	R N L L A E R L V Y L R E L L E S R R R A A I V I L L S S	R N L L A E R L V Y L R E L L E S R R R A A I V I L L S S
UniRef90_F8WYL8	S R Y R K E V T	G G L L L D D D D S Q L	T A I L K E Q N D K L N E L L V K R R R E T I V I L L K S S	T A I L K E Q N D K L N E L L V K R R R E T I V I L L K S S
UniRef90_G2H0W3	A R Y R K E V T	G S L L L D D D D S Q L	R Q L L H R L G Y L R R E L L E K R R R Q V I L L K S S	R Q L L H R L G Y L R R E L L E K R R R Q V I L L K S S
UniRef90_UPI000472C1D3	A R Y R K E V T	G G L L L D D D D T Q L	R L L L F S R L G Y L R R E L L N E R R R Q V I L L S S	R L L L F S R L G Y L R R E L L N E R R R Q V I L L S S
UniRef90_A4CEU5	A R Y R K E V T	G G L L L D D D D T Q L	R L L L F S R L G Y L R R E L L N E R R R Q V I L L S S	R L L L F S R L G Y L R R E L L N E R R R Q V I L L S S
UniRef90_UPI0004761A68	A R Y R K E I T	G G L L L D D D D T Q L	R Q L L E V R L L Y V R E L L E A R R R I A I L L E S A	R Q L L E V R L L Y V R E L L E A R R R I A I L L E S A
UniRef90_H6M4C0	A R Y R K E A T	G G L L L D D D D S Q L	R A I L E E E E R A T Y L K E L L E D R K K E A I V I L L A A	R A I L E E E E R A T Y L K E L L E D R K K E A I V I L L A A
UniRef90_NOAKR2	M A R Y R K E Q T	G A L L L D D D D E T Q I	R D I L Q E E R W Q Y I Q N L S D R K K E E V I L L R R I	R D I L Q E E R W Q Y I Q N L S D R K K E E V I L L R R I
UniRef90_W9BCV1	A R Y R K E I T	G G L L L D D D D E T Q I	K T V L Q E E K W T Y A V N L S D R K K E E V I L L R R I	K T V L Q E E K W T Y A V N L S D R K K E E V I L L R R I
UniRef90_R5Q415	A R Y R K D V T	G N L L L D D D D A Q L	R I L L E E E R L I Y L R R E L L D D D R R G V I L L A A	R I L L E E E R L I Y L R R E L L D D D R R G V I L L A A
UniRef90_UPI0003462D19	A R Y R K E V T	G A L L L D D D D S Q L	R Q L L D S E R L L R Y L R R E L L E E R R A A I V I L L A T E T S	R Q L L D S E R L L R Y L R R E L L E E R R A A I V I L L A T E T S
UniRef90_Q1GIT0	A R Y R K E V T	G G L L L D D D D T Q L	R T L L A R D R L L Q Y L R R E L L Q E R R R A A I V I L L S A	R T L L A R D R L L Q Y L R R E L L Q E R R R A A I V I L L S A
UniRef90_X2H960	A R Y R K E A T	G G L L L D D D D T Q L	R T L L A R D R L L Q Y L R R E L L Q E R R R A A I V I L L S A	R T L L A R D R L L Q Y L R R E L L Q E R R R A A I V I L L S A
UniRef90_I3IMN4	A R Y R K E A T	G S L L L D D D D E T A I	T T I L A R D R L L Q L A D Q L D A K R R Q D A I V I L L K A	T T I L A R D R L L Q L A D Q L D A K R R Q D A I V I L L K A
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UniRef90_H1XTJ9	A R Y R K E V T	G S L L L D D D D A Q L	R T L L Q Q D R M Q Y L R A L L E D E R R A A V I L L S S	R T L L Q Q D R M Q Y L R A L L E D E R R A A V I L L S S
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UniRef90_V8CZP6	A R Y R K E V T	G S L L L D D D D A Q L	R T L L Q Q D R M Q Y L R A L L E D E R R A A V I L L S S	R T L L Q Q D R M Q Y L R A L L E D E R R A A V I L L S S
UniRef90_E0RW87	S R Y R K E V T	G S L L L D D D D A Q L	R T L L Q Q D R M Q Y L R A L L E D E R R A A V I L L S S	R T L L Q Q D R M Q Y L R A L L E D E R R A A V I L L S S
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UniRef90_R7HU01	A R Y R K E K H	G L L L L D D D D E T Q L	R N L L S E E R L S Y L R R N L E D R K K E A V V L L A S S	R N L L S E E R L S Y L R R N L E D R K K E A V V L L A S S
UniRef90_C9Y634	A R Y R K E V T	D G L L L D D D D E T Q L	R R L L E E E R L S Y L R R N L E D R K K E A V V L L A S S	R R L L E E E R L S Y L R R N L E D R K K E A V V L L A S S
UniRef90_D5WZM4	A R Y R K E V T	G G M S D D H L	R T L L E E E R L L Y L R R E L L E D R R A V V L L Q S S	R T L L E E E R L L Y L R R E L L E D R R A V V L L Q S S
UniRef90_UPI00036495F5	A R Y R K E W T	N S L L L D D D D E T Q I	R S I L D E R W Q Y I T Q L D E N R K A E V I L L Q S S	R S I L D E R W Q Y I T Q L D E N R K A E V I L L Q S S
UniRef90_D3HNS7	A R Y R K E A T	E G L L L D D D D E T Q L	R F L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S	R F L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S
UniRef90_C8S0W3	A R Y R K E A T	G G L L L D D D D T Q L	R N L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S	R N L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S
UniRef90_S2Y5U0	A R Y R K E V T	G G L L L D D D D T Q L	R F L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S	R F L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S
UniRef90_UPI00038214CC	A R Y R K E A T	G G L L L D D D D T Q L	R F L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S	R F L L S E E R L D Y L R R E L L E A R R K A V V L L Q S S
UniRef90_F2F6F4	A R Y R K E M T	G S L L L D D D D E T Q I	K A V L E E D R Y H Y I Q Q L L E T R K E E V L	K A V L E E D R Y H Y I Q Q L L E T R K E E V L

	90	100	110	120
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UniRef90_UPI00036F039B	D E T Q Q G K L	T T K D E L	K A A K A	T R A A A G T K K A Q E L V
UniRef90_A8IGK8	E E T Q Q G K L	T T P D E L	A A A K A	R A A A P T K K A Q E L V
UniRef90_B1Y002	A E E Q Q G K L	T T P A E L	R A T A L	Y A A A T N K K Q E L V
UniRef90_UPI0003B3C535	R E E Q Q G K L	T T S A E L	Q A E E I	E N W A M T K K V A Q E L V
UniRef90_UPI0002891271	R E E Q Q G K L	T T S A E L	Q A E E I	E N W A M T K K V A Q E L V
UniRef90_Q0BZL2	R S Q Q G K L	T D D A L	E E T R I	R G A E S T K A R L L E D L
UniRef90_V6L1R9	R S Q Q G K L	T D D A L	E E T R I	R G A E S T K A R L L E D L
UniRef90_F6EIV8	K S Q Q G K L	T D D A L	E E A S Q	V L J A A D S T K A R L L E D L
UniRef90_K0JQU0	R S Q Q G K L	T D D A L	E E A S Q	V L J A A D S T K A R L L E D L
UniRef90_UPI00045EB5F3	E E E Q Q G K L	T T D S L	K K A A I	E E A E S T M A R L L E D L
UniRef90_UPI0003FF7758	E E E Q Q G K L	T T N E L	K K A A I	E E A A G S K Q E R L V L E
UniRef90_UPI00046A2B7D	A E E Q N K L	T D A V L	K E R D I	E J A A D S K K Q R L L E D L
UniRef90_Q1QU56	D E Q Q G K L	T D A L	A A Q Q I	E A A D S T K Q R L L E D L
UniRef90_J2ICP0	A E E Q Q G K L	T T A E L	E E K E I	R A A D S N K T R L L E D L
UniRef90_UPI0002F75528	K D Q Q E K L	T T P E L	E K E I	J A T A D S K T R L L E D L
UniRef90_A1ZG34	E E E Q Q G K L	T T P E L	K K K I	E A A E S T M T A L L E D L
UniRef90_U4TCN3	N E Q Q D K L	T T E E L	K T N I	V E A E S T K H Q E L L E D L
UniRef90_UPI00036DEA04	D E R G G L M	T T E E L	R D K I	M A A Q T M T Q E L L E D L
UniRef90_UPI0003B72A2F	D E R G G L M	T T E E L	R D K I	M A A Q T M T Q E L L E D L
UniRef90_F4GXB0	G Q Q G K L	T T P E L	Q Q S I	V T R A E D T K Q R Q L L E
UniRef90_UPI000237A640	K D Q Q G K L	T D D K L	V Q Q S I	V T R A E D T K Q R Q L L E
UniRef90_D8K5E3	E K Q Q D K L	T A E L	E Q Q I	L J A A M S K T E L L E D L
UniRef90_B1Z730	R A Q Q G K L	T P E L	A A Q I	A S A D T K A R L L E D L
UniRef90_UPI0003B4AD78	D E Q Q G K L	T T D E L	T A Q K I	A M S T K L Q E V L L E D L
UniRef90_L1MHC4	E E E Q Q G K L	T T D D L	R A L I	L A C E T K A R L L E D L
UniRef90_UPI0004645808	R G Q Q G K L	T D A L	E E Q I	M L K A S T L Q E V L L E
UniRef90_B8D058	E E E Q Q G K L	T T P E L	E E K I	E G T W D A N E L L E D L
UniRef90_UPI00047C9FA5	E E E Q Q G L	T T D E L	R K K I	E G T W D A N E L L E D L
UniRef90_UPI0004023173	E E E Q Q G K L	T T D Q L	K A K I	T J A A E T M V A V L L E
UniRef90_E0IGL2	D E Q Q G K L	T T D Q L	K A K I	T J A A E T M V A V L L E
UniRef90_UPI0004155C9C	A E Q Q G K M	T P E L	E G Q I	K R A S D K L Q E I L E D L
UniRef90_UPI0003B5EB8D	D E Q Q G K L	T S P T L	K Q A I	M G A D S K T R L L E D L
UniRef90_UPI000360543F	D E Q Q G K L	T S P P L	Q A A I	V E K A V S K T E I L E D L
UniRef90_F7S0H4	A D Q Q D K L	T S P E L	A Q A I	H Q C L S K T E L L E D L
UniRef90_UPI0003B61947	T D M G K L	T P E L	E A A I	N E A E T M V T L L E D L
UniRef90_E6VMC0	L K Q Q G K L	T T P E L	E A A I	L K A D S K A R L L E D L
UniRef90_L6QDI0	S E Q Q G K L	T T D E L	A G A I	N A T L S K T E L L E D L
UniRef90_R5VKU6	E E E Q Q G K L	T T A E L	R K Q I	E E A E T Q Q V L L E D L
UniRef90_D3Q774	D K Q Q G K L	T T A E L	R K Q I	E E A E T Q Q V L L E D L
UniRef90_D2UAU1	A E Q Q G K L	T S D Q L	R A E I	V J A A D T K S R L L E D L
UniRef90_K4Z9U3	A E Q Q G K L	T S A D L	Q Q A I	V L J A A D S K L S R L L E
UniRef90_G7UU70	E E E Q Q G K L	T T D A L	R G E I	V L J A A D S K L S R L L E
UniRef90_H1XZW6	T E L G K L	T T P Q L	E Q A I	V N A A E S M T I L L E D L
UniRef90_UPI00046D7684	E E E Q Q G K L	T T D T L	K E A I	E T A E T K T R L L E D L
UniRef90_UPI0004749424	E E E Q Q G K L	T T D T L	K E A I	E T A E T K T R L L E D L
UniRef90_G0A2C2	A S Q Q G K L	T S P E L	E T A I	L E A D T K T L L L E D L
UniRef90_R5WJT9	E E E Q Q G K L	T T P E L	K K Q I	L E A D T K T L V V L L E
UniRef90_UPI00036A01AD	E A Q Q G K L	T T P E L	R A Q I	M A A D S K A R L L E D L
UniRef90_S6BEH5	D E Q Q G K L	T T P A L	R A D I	L J A A E T R T A L L E D L
UniRef90_R6WJD4	E E E Q Q G K L	T T E E L	K H G I	L S A E T L V V V L L E D L
UniRef90_U5S702	E D Q Q G K L	T T P E L	E G K I	K K A A K M Q L V L L E D L
UniRef90_Q82SV2	E E E Q Q G K L	T T D E L	R H A I	D Q A A T R Q L L L E D L
UniRef90_L7U599	E E E Q Q G K L	T T P E L	A K A I	K A A K S T R T E L L E D L
UniRef90_B8CUZ4	E A Q Q S K L	T T P E L	K A A I	N A A D S K T R L L E D L
UniRef90_W4RXA5	E E E Q Q G K L	T T D Q L	K T N I	E R A I K L Q E V L L E D L
UniRef90_G8LTW0	D E Q Q G K L	T T D E L	K E S I	N K A V T L L A E I E D L
UniRef90_C6XX62	T A L D K L	T T P E L	E A Q I	N A A T N I A A E I E D L
UniRef90_C6RAM7	E E E Q Q G K L	T S D A L	K E Q I	L A C D T K A R L L E D L
UniRef90_B2IGR3	A N Q Q G K L	T T D E L	A G N I	A E A A T K A E I E D L
UniRef90_A4IJT9	E E E Q Q G K L	T T E E L	K N A I	J A S A T K L Q Q V L L E
UniRef90_UPI0003B576BE	T E E Q Q G K L	T T D D L	T A S I	T K A T T K A E L L E D L
UniRef90_F8WYL8	E E E Q E K L	T T P E L	K N R I	E N C W N S S E L L E D L
UniRef90_G2H0W3	E E E Q Q G K L	T T N T L	Q L A S I	N L A I S K T E L L E D L
UniRef90_UPI000472C1D3	E T Q Q G K L	T A E L	K H E I	L T A D S K T R L L E D L
UniRef90_A4CEU5	K D Q Q E K L	T S P S L	A L D I	A N A A S K T E L L E D L
UniRef90_UPI0004761A68	H T Q Q E K L	T S P S L	A L D I	A N A A S K T E L L E D L
UniRef90_H6M4C0	E E E Q Q G K L	T D Q K L	K T L I	L E C D T K A R L L E D L
UniRef90_NOAKR2	E E E Q Q G K L	T T P E L	D K L I	D K A I K L Q E V L L E D L
UniRef90_W9BCV1	E E E Q Q G K L	T T E E L	R K E I	T Q A T K L Q R L L E D L
UniRef90_R5Q415	E A Q Q G K L	T S D E L	R E Q I	L J A A D A K Q T L L E D L
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UniRef90_X2H960	E E E Q Q G K L	T T D E L	R Q S I	E N A D S K T A L L E D L
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UniRef90_S2XCT2	D E Q Q G K L	T T E E L	S Q A I	Q A A S V L Q R L L E D L
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I A R E A G L E G A L A E A R L F A D R T K E P S V L A Q A Q A F F I A V D K G V F A D A K
I A R E A G L E P L A E S L L D D P S Q S P E Q T A A A Q P F F I A V D K G V F A D A K
V A K E K G L E P L A N W L L S Q N P S G D V L T D E A A R A F I A D E S G K K G V A D S A M D
U A R E A G L E P L A E R L L A N P S L S P F T D E A A K A F Y I A D E S G K K G V A D S A
U A R E A G L E P L A D G L L L N D P A S E P Q A A A A F V D D D K K G V A D S A
I A R E A G L E P L A E R L L L S D P S H D P A S E V A T K F V L T D E E K G V A D A A
I A R E A Q G L E P L A D G L L L S D P S T T D P Q E A A A A F V L T D E E K G V A D A A
I A R E K G L E P L A E L L I F S Q K S I A L E E V A K K Y L N E E E K E V V S T V T E E
I A K E K G L E G G L A D W L L E Q K S Q N V E K E A A Q K Y V S D A E G K E V L T I T E
I A R E A G L E P L A D A D L L A D P T L D P E T E A A A R Y V V R N A E A G Y A D D V K
I A R E A G L E P L A E A L L A D P T L D P E T E A A A R Y V V R N A E A G Y A D D V K
L A I L E A G L M Q P L A L L L L S E P T R Q P E T E A L A Y V N A E A G Y A D D V K
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I A I L E A G L E P L A N A W L F Y Q P N L T P E T E A A A R Y V N D A E K Q S G I V A S T A
V A K E K G L E P L S A W L W V Y D P K Q D A L Q E A A A Y V D N D A E K Q S G I V A S T A
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T A R E A G L E P L A E T L L L A R S E A E V P E R T A A A Q A F V D D P A K G V I E T A E D
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V A R E A G L E E A L V D A L L I D A P S T D A T S A A T A Y V C E E G F E D E K
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I A I L E A G L E P L A D I L L A N P S L D P V Q E A A A R Y F N D E G K G V A S P E
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L D I E A T D W E D A V K P L V E R K M I A A S V N G W S P V G G R P G D A F L R D K V A
A K L E A T D E E D G Q P S L A E R G M I A A S V N G W S P V G G R P G D A F L R D K V A
L A V Q Y Q P E D L Q P S Y Y E Q R L A Q H F A W S D Q G R P A D R W L L D T V V R
V S I L E V Q A E K L Y D Y M N R H Y I T K R W G S G S A V P V I E E V V E
V K A V P V E Q G R E H P A L R E I Y T E F F G I A K K G R P G D D W L T D T V R
L A L E P E A P G T P S A Y E R S I A S R F F G I V R D D Q G R P A D R W L T D T V R
V Q F D A G P D A E E P S L Y E Q K I A V A L G V V R D D R G R P A D R W L A S D T V R
L D A T P E E S D A L S L M E K E V I T D A E N T S V E Q V R L A V K
V A I E A P E E K L V E R L S K K I I K N T L S E A K P F V E E A L A
L A L K L P E E D E L H P A E G A I A H H F T I E D H G R A A D R W L K E V V R
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L Q L L P E S E Q P H A V C E Q M V A E Q F Q I R Q L D R P A D A F L R T V V Q
L S L N A D P A Q E E S Y C E T L I A Q H Y A L Y F N G S P A D A W L K Q V I S
L D T S P E E E A L Q K L A H R F V K E G S N A E N T E Q M E L A V K
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V S I D V Q T D R E I H Q Y I G K Q I L K G G T P A S L E V K T A V H
L R V T P P E D E A L Y V L E S L F V N K G G T P A S L E V K T A V H
I R L G L D P E E Q V P H P C I S R I A D F L R M S D A S S R G R W L G E V C
L D I A P E P E A G T A R A E A M V A A H L N T R S D A P S G D K W L R K V A G
L T L D A R E Q R E E H P C E F M V A R H F G I E E Q G R P A D A W L L Q A V R
V E G E D S P A G M P G P F E L A L C R R R F G V A A R G R P A D A W L L D T V R
V K I E V D E E K I F L R L A K W F A V P A H A Y L T Q V V Q
L H L D A G D D A F Y E G L I A D R A G I D T T N P W L D D A V R
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V T L D V P S E R V I H E W M G R N T I R K F T A A P I Q A V L S T I I
V S V R A E S G S L L K H I E S K I I K A P G S P V E P Y L K E A V E
L K V D A P E D D G M H P C E Y R L A K R F D I S Q Q G R K A D S W L S E V V R
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L S L N F D E P P K E S Y C E Q I I M D H L G L R L N N A P A D S W R K G V S
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L D A L P E E E A A V N L L E Q Q F I L K G N N K K S A A V K Q A L D
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V K I N A P E E E L L G W L T R Q V I K K D N P P K T T P V L K E V V R
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V S I E A P Q E D V L R Y L E K Q I I R R E N S Y T T P V L K E T I E
V S F D L D E R R I H D Y L E K Q L I E Q P Q S T A A P F I T A A Y E
I D L D L D E E S I P H P C I A M I A T H F G I E N R D R K A D K W L G D V C
V K L N M P D D E V K A L L S S R I V T R P Q S L E A Q E L R A A V E
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L Q L D A G D D A D Y E D A I A S R F E L D R S S K W L A D A V H
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V N I A P D E D A A L E R L D K R F L K G D N D N E A T N Y V A D A I E
L S T L V E Q T V K M S R G E Q I I V D H L N L R L H N A P A D S W T A V V N
L S M N A D P D T D A S Y C E V I I S D H F K L R N I G E G A V N Q W L K T V V T
L N I D P Q S D V P H D V C S S M I A Q H F K L D L N N S A N S A W L Q T V V Q
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V A I K P N N D A V L N Y L Q R K W I K V P H S V T V K E V L T E A I E
V A I E T P I E G I T R Y L Q E Q V I H R S T I G E V K V L E R A I D
V S V E L T P D E E L H P A E S L I A K H Y G I E R T G R L A D D W L L S V C
L A I R L P D E A P I H P A Q V A I A R Q A G I T L E R R P G D K W L F D V V R
L D I A P P G E E G V T R A E E M V A A V L E V R S S A P G D K W L R K A A G
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I N L L S P V D R I I S V M R D E W I P T H S S S L S I S Q V A E A I E
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Q T I D E R Q I A T E L S I S K A L N I D A D Q Q V L K S N T I A L L L D D D G G A T T V P F F
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I Q K Q I S T E L A V T G A V K L K E S R V V K N V I D L S E E E G G A T T V P F F
D M N Q V L A A E E L N I V K P W Q V E A A V K L L T D D E E G G A T T V P F F
M L A H H K I L I A A E E L N K I V A E K Q Q V T T A A V S K L L T D D E E G G A T T V P F F
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Q E I N E K L L E P L L Q E E L T Q Y R T K Q I H T V L T L L N D D E E G G A T T V P F F
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M T S L V D Q I A R E E L L N V A E K Q Q V S A A A V G L L D D D G G A T T V P F F
I K S V N A R I A E E L L G V G E N Q V V S A A T V R L L L D D D G G A T T V P F F
E R L L H Q L T S E L L S L G R G Q V V Q R T I E L L D D E E G G A T T V P F F
D I L K K I S E D L S L K K K Q V V E A A V Q L L L D D E E G G A T T V P F F
M S D L N H K I A T E L L G V R E K Q Q V I S T A V L L L D D E E G G A T T V P F F
M D Q T E A R I S R T I A T E I A A S P A Q V T A A V G L L L D D G G A T T V P F F
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M T N I N K K L A K E F N I L R E K Q Q V E A T I N L L L T S G G A T T V P F F
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N F S A T I A K E L L T Q V V P K Q Q V S T V I T L L L K D G G A T T V P F F
M A N L A T Q I A L E E L L G V V R P E Q V V E A T I A L L L D D G G A T T V P F F
T D I A P R I A R E L L N S V I Q P W V E K T V E L L L D D G G A T T V P F F
M S V I H T L I S K S L N S I L R P Q Q T E A A V I R L L L D D E D A T T V P F F
T R I N R T I A T E I A A Q V K V W Q V E A A V K L L L D D E G G A T T V P F F
N I N E I A E E L V T N E T G V V A T T T V E K V I A L L L D D E E G G A T T V P F F
V S K Q T K I R L K D K T V E Q V I E L L L D D N E G G A T T V P F F
M S N I N E R L A Q E E L N I R L N Q V N S V I E L L L D D A G G A T T V P F F
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S I H Q Q L E Q E F R Q T N I V H K V I N L M D D E G G A T T V P F F
D T L N Q E L A R W V I S K E T S V Q T N I V H K V I N L M D D E G G A T T V P F F
L A A L I A T E I V I G S R P E Q A A A A I G L L D D E E G G A T T V P F F
M T D T A E R L A R L I A T E I N A R P A Q V A S A V T L L L D D G G A T T V P F F
E R I V K G V A Q E E L G V E K W Q V E A A V K L L L D D E G G A T T V P F F
T V N A R L A E E L G A Q V A E R Q V A A A V H L L L D D E G G A T T V P F F
N R I A Q L A Q E E L G A Q S Q I K A A V D L L L D D E G G A T T V P F F
M N S I N K T I A Q E E L N V K E S Q V D A T V K L L L D D E G G A T T V P F F
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I E D R L A A E E L G I V P A K S V E A T A L L L A E G G A T T V P F F
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U n i R e f 9 0 _ Q 6 7 K 8 7 K G D A E T R S V Y E M Y Y D F S E P V L A K M A G H H R V L L A V N R R R G G E A E E K F L L T
U n i R e f 9 0 _ I 2 G E L 5 A E T R S V Y E M Y Y D F S E P V L A K M A G H H R V L L A V N R R R G G E A E E K F L L T
U n i R e f 9 0 _ R 7 B H Y 9 G K E E D A S K Y K D Y F A Y W K D E P V V A S V P S H H R M L A M R R R G G E K E E Q G F L K
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U n i R e f 9 0 _ W 2 E C R 9 E A A D E K G I Y E M Y Y T Y E E A V V K K T V P H H R V L L A M N R R R G G E K E E K F L K
U n i R e f 9 0 _ U P I 0 0 0 4 1 9 8 8 3 6 E K A E S V Y E M Y Y E F S E P V V S K L A G H H R V L L A L N R R R G G E K E E K F L N R
U n i R e f 9 0 _ R 7 J U B 7 G K E E E G I K Y K D Y F E W N E P V V K T A A S H H R V L L A M R R R G G E K E E L V L K
U n i R e f 9 0 _ U P I 0 0 0 2 9 B 1 6 A 5 K Q L D E K G T Y E M Y Y D Y T E A V V R S V P H H R I L L A V N R R R G G E K E D G V L K
U n i R e f 9 0 _ D 3 F R Y 9 A E Q E S V Y E M Y Y S Y R E P V V H K M P P H H R I L L A I N R R R G G E R E K E N L K
U n i R e f 9 0 _ W 4 B X P 6 E K A A S V Y E M Y Y D F S E P V I A K A P A H H R I L L A M N R R R G G E K E E G I L R
U n i R e f 9 0 _ R 6 B K 9 4 T E K D E K R V F E M Y Y D H R E E P I A K A P A H H R I L L A M N R R R G G E K E E G I L R
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U n i R e f 9 0 _ R 7 A N N 4 G K G E E V S K F Q D Y F D F S S Q K L G D L P S H H R V L L A I R R R G G E E E G F L T
U n i R e f 9 0 _ W 0 R K F 4 K R A E E G E K F K D Y F D F S E S W K K L P S H H R A L A L F R R G G Q K E E V L R S
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U n i R e f 9 0 _ C 2 K Z 9 3 G K E E A E A I K Y K D Y F D W K E P V V K T A P S H H R I L L A M R R R G G E K E E L F L M
U n i R e f 9 0 _ S 7 V H 0 7 G K E E A G A K F S D Y F D H S E S W A K T P G H H R A L A L L R A S K E E E I V T
U n i R e f 9 0 _ X 6 L 0 5 9 V E L D E K S V Y E M Y Y D Y Q E L I G K V A S H H R V L L A F N R R G G E K E E D I L R S
U n i R e f 9 0 _ W 7 C X K 7 G S S E E P T Y E M Y Y D F S E A I L K I P S H H R I L L A I N R R R G G E K E E K V L R S
U n i R e f 9 0 _ F 4 A 6 M 0 G S S E E A G K F R D Y F D W S E P L K R C T S H H R L L A M R R R G G E A S E G Y L R
U n i R e f 9 0 _ R 6 A N 9 2 P E T E S V Y E M Y Y E F S E S G V S K I A G H H R L L A L N R R R G G E S E K I L T
U n i R e f 9 0 _ N 2 A 4 7 5 K V I Q D E K A V F E M Y Y S Y E E P L A K L V P H H R T L L A I N R R R G G E H E K I L T
U n i R e f 9 0 _ U P I 0 0 0 2 8 8 5 2 1 8 Q E Q A G A K F R D Y F E H D E K L A T T P S H H R A L L A M F R R G G E R N E K G V L S
U n i R e f 9 0 _ U P I 0 0 0 3 B 4 6 8 6 3 D A E E E A Q T F L M Y A D F Y R S P V L R T L P S H H R V L L A I R R R G G E K E E G V L K
U n i R e f 9 0 _ D 2 R M X 1 G A E E E G E K Y R D Y F D F S A P V L S R C P S H H R I L L A I R R R G G E V E G F L R
U n i R e f 9 0 _ U P I 0 0 0 3 7 2 C A 5 8 G K E E E D A A K Y R D Y F A W D E P A A Q A P S H H R I L L A M F R R G G E E E G F L R
U n i R e f 9 0 _ E 5 Y 4 6 4 G K E E E T G A K F S D Y F D H A E N W A T T P S H H R A L L A I L N R R A A K E E E I V T
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L T L D P G E D E A I Y Q G M I A D A R G L E P Q G D A A D K F R A E C V R
V S I S P D D E E A C V G R S L E R R M F I K N R N S M A A D Q V K F Y V A E A L Q
L N V L P P E E D A L G A S L E R L F L R K N S M A A D Q V K F Y V A E A L Q
A A L K Y Q P D E T P S E Y E Q L I A E H F Q I R S E N K E T A E S Y I V E E A A A
V S I E A P E E D I L S Y F M N R H I G A G R N D S S E T A E S Y I V E E A A A
U N I R E F 9 0 _ D 5 D 9 Z 2 K K R R D S S A E S A E S Y I V E E A A A
U N I R E F 9 0 _ T 0 U B 3 6 V A L V V D E S K I T D Y F E R Q L I K H A N S P A T S P F V R E A Y L
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U N I R E F 9 0 _ D 3 F R Y 9 A G I E F Q A E K M I G E I E K R Y M S R A G L G N N N A A S K Q V L K L A I Q
U N I R E F 9 0 _ W 4 B X P 6 V G I E V V T D K I H A Y I A R K I T I K G P S P V K E L E A V I T E
U N I R E F 9 0 _ R 6 B K 9 4 V K L E A P E D R I L G Y L R K Q I M V R K E N P Q T S E F L E K V I E
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U N I R E F 9 0 _ G 4 L 8 G 3 V S L K S D E T K I L N Y L N R Q L I K D S S E P A A S L V I E A A Y Q
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A R Y R K K E M T G G S L N D D E E Q Q L R R E T I L Q E D E R Q Q W N Y Y V L N E N F L L E K R R K K K A S V V I A A N S S
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I I A R E A G L E P P L A E E L L M L A A Q D T H S P D P A E A A A R F V L N G P D D A G F V A D D L R Q
I I A R E K G L E P P L A E E A M L L M R Q D G A R P D R L A E A A R F V L N G P D D A G F V A D D L R Q
I I A K E K G L E P P L A D W L L T F P N A E K P E V K A E E F F L S S E E E K G E V V H T H L I E
I I A K E K G L E P P F A N E W L F S L Q P A N G S V L Q E E E A T R A N Y L I S S E E E H E L L T T I V E
I I A R E A G L E P P F A L W L L M T T T K T D S V E E E K A A A T F L N S E E E K G E V V L L T T V E
I I A R E A G L H Q P P V A D A L L L A D A D A T T D D P L A A A A Y L N A E E L G G V V A T T P
I I A R E K G L E P P L A K Y L W E Q R A G A G D P L A A A A Y L N A E E L G G V V A T T P
I I A R E K G L E P P L A L W L L E Q Y P K A Q P L E E A A Q K Y I N I N E E L G G V V E T T S V E
K A K E K G L E P P L A D W L L G F P D A S I E A I A A S D F V L N D S E E K G V V E S T T S V A
I I A R E A G L E P P L A E Y I F G Q A F L V P E E Y A A A F V L N D S E E K G V V E S T T S V A
I I A Q G K G L A P P L A E E L I K E G K T G N I D E E A A S K Y I N I N E E K G V V K S S A E K
I I A K E R G L G P P L A E A I L A D A P T V A P A D R A A K F F L T A D E V V P D V K D A K
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A A R Q K G L E P P L A T L L L V Q R E S N N L A A R A A S F F V K G E E V V K D D V E
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I I A R E K G L E P P L A E K L F E Q N S R D D P A T A A A A F V L S D A E K E A V V P D S S D
I I A R E N G L E P P L A E A I L A D R S A V P P E V L A A K A Y L V L S D A E K E A V V P D S S D
K A R A A G L E P P L A E E L L F G D A T R D P R T E A G A F V L R R A E K G F T T S V E
M A K E K G L E P P L A E W L L A D Y A A G D S Q A E A E K Y L N N P E L G G V V N D S M E R
I I A R E A G L E P P L A D A L L A D P A A A E P E V L A A K A Y L N N P E L G G V V N D S M E R
Q A R E R G L A P P L A E F L R Q Q S E A E A E E K A G S F I D D P E A Q E V V G S T T S V E
I I A R E K G L E P P L A V I L W A Q E S P A A L V E L A A Q S L V V D D D A P E K K D V V A D I E
I I A K E K G L E P P L A Q T I L A Q E S V D I M A E A A K Y I V D D D A P E K K D V V A D I E
M A R E K G L Q P P L A D I L L A Q S E R T D F T D L A A S L I D D A E E K G V V N S I V E
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V A R A H E P P L A R L L L A Q P G T V D P E R E G A A A F V V K N P E Q E V V K S V Q
A A R E R G L E P P L A R M L I T L G R E T D P E Q G A R R F V V K N G E V V K S V E
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I I A V E K G L K P P L A E S I F N G E F Q D N I D E Y A A K F V V D D S E A K E G V P N D T E
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I I A R E N G L A P P F A E W L L A F C Q V D L V A K A K T F V V D D P A K K K V E T A D
M A K E K G L E P P L A E L L F A Q D C P D P L E A E A K Y V D D P P A K K G V V E T A D
M A K E R G L E P P L A D T I L L I Q V I T K E P E T L A A Q Y V S E E K G V V A D A K
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I I A A E A G L E T E L A D A L L A D P I Q L D P E V A L A A A Y L K P N P E K G V V D T K
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1 10 20 30 40

V A Q Q T S I K E S S V K Q V I E L L N E E G N T V P F F
E D K N Q Q I M N L L M Q E L D N R Y A M K Q M K T V L S L I E E G N T V P F F
Q Q T V S R I A G E L L N A Q P W Q Q A A V A L L D D E G G A T V I P F F
M E L F Q S L I A G R L L G P E R Q V V A G T L R L L D D E G G A T V I P F F
M T S V N A L I A E E L G V G E A Q V A A A V A L L L D D E G G A T V I P F F
E E T G L Q T S Q V V V N T I A L L R D E G G A T V I P F F
M V N V E E R L S K E L G I R S R Q V I T A T L N L L L N D D E G G A T V I P F F
I K E S Q V V A E K T V N L L L D D E G G A T V I P F F
N I N K K I A E E L L N L T A A I K E S Q V V A A V I N L V D D E G G A T V I P F F
M S S I H T T L A R E E L L S L T A A L S A N Q Q V E S N A L S L L A E E G A T V I P F F
M L N I P S V L A Q E L L S L R P Q Q V S S A L S E L L A D E G G A T V I P F F
M V N I A Q I L A T E L L S N L R N K K D V E S V L D L L D E G G A T V I P F F
M K N I V D R L V E E L L S L P R R Q G V S A V A K L L L A E E G A T V I P F F
L A S E E L S Q A R R E Q V V K A A V S D L L D D E G G A T V I P F F
M K T I A E R I A E E L L K V K Q N Y V E T K I A P K Q V T V I S L M E D D G G A T V I P F F
N F S A M I G K E L K I A P K Q V T V I S L M E D D G G A T V I P F F
R L L D D E G G A T V I P F F
M D I L Q K I T E E L S K V S K W Q V E A A V K R L L D D E G G A T V I P F F
R I A K E L S L S V P Q V A A V A R L L D D E G G A T V I P F F
L A L T E E L K V E K W Q V E A A V K L L I D D E G G A T V I P F F
K E F G I A P L V E N I A L L D D E G G A T V I P F F
M D I I R K L R E E F G I T Q S Q A E N T V R L L D D E G G A T V I P F F
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N K I R E I M E E I N I A N E L N V L T L L Q V R A A V C Q L L S D E G G A T V I P F F
I H A Q I A E E L L G V L K P W Q I K A A V V E L L D D G G S T V I P F F
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S V A R L A D E L L S V A E R Q V A A A V K L L D D D G S T V I P F F
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D R I A R I A Q E I N N A S P A Q V V A A T G L L S D G G A T V I P F F
K Y I D T I C K E L L N L R P G Q V S A T A K L I S E G A T V I P F F
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M L N I P Q V L T E E L L S V R D E Q M N T I A L I D D G G A T V I P F F
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50 60 70 80
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A R Y R K K E M T G S G L L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D L T E Q R R K K E E V V I L R R E L
A R Y R K K E V T G S G L L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D D D L T E A K D R R K K E E V V I L R R E L
A R Y R K K E A T G G G L L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D D D L T E A K D R R K K E E V V I L R R E L
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A R Y R K K E M T G S G L L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D D D L T E A K D R R K K E E V V I L R R E L
A R Y R K K E V T G N G L L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D D D L T E A K D R R K K E E V V I L R R E L
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A R Y R K K E A T G G G L L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D D D L T E A K D R R K K E E V V I L R R E L
A R Y R K K E A T G G G M L D D E V A Q I K S Q E I L T E R D Q W S Y V L K N D D D L T E A K D R R K K E E V V I L R R E L
A R Y R K K E M H G T M D D E T T L R T F L E E R L T Y L R S L L E E N R K K A V V I L R R E L
A R Y R K K E A T G S G L L D D E V A Q I K A I L E E D R H H Y L V Q L L E E N R K K A V V I L R R E L
A R Y R K K E V T G G G L L D D E V A Q I R T D L L R D R L L A Y L R N G L L E E K R K K E A V I L L A S S G A
A R Y R K K E A T G S L L D D E V A V A A N L R D R L L A Y L R N G L L E E K R K K E A V I L L A S S G A
A R Y R K K E A T G A S L L D D D Q T L R R A L L Y D R L L A Y L R N G L L E E K R K K E A V I L L A S S G A
A R Y R K K E M T G S L D D D Q T I R Q T L S D E R L L T A L R N G L L E E D E E R K K E A V I L R T A S S S
A R Y R K K E A T G T S L N D E V V I R T A S I L D E R M L K G R L L R E E L D E E R K K E A V I L R T A S S S
A R Y R K K E V T G T L L D D E A Q L R E L I E E R L R Y L R E L L E D D R R K K E A V I L R L A
A R Y R K K E K T G S L L D D E T Q L R R D S I T E E R F S W E Y A T Q N L E E K R K K E A V I L R L A
A R Y R K K E Q T G A L L D E V Q I R A V M S D S W N Y V Q N L E E Q T R R K K E A V I L R L A
A R Y R K K E L T G S L D E V I Q L K D I L S E D A Y Q Y S T G L L E E D Q R K K E A V I L R L A
A R Y R K K E K T G A L N D E V L R K L L Y E R L I Y L R N G L L E E D K K E A V I L R T A S S
A R Y R K K E L H G M D D D A S L R T L L E K R L L A Y L R R G L L A D E R R R D A V I L K T A S S
A R Y R K K E A T G G G L L D D A Q L R T L L E D R M Q Y L R N L V K R K K E A V I L J A S S
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A R Y R K K E R T G G E M D E T Q L R T L L Q E E R H A Y L T E L L E A R K K E A S I V L L E A S
A R Y R K K E M T G G G L D E D T Q L R D F L A E R Y E Y L Q E N L Q O S D R K K E D V I L R K S
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S R Y R K E A T G G L L D D I L Q L R L L D D R L S Y L R E L E A R R A I I

	90	100	110	120																																						
UniRef90_I0JI09	D	E	Q	D	K	L	T	T	E	E	L	R	K	E	I	Q	Q	A	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T		
UniRef90_V6Q5Q1	A	G	Q	Q	G	K	L	T	T	E	E	A	A	K	R	E	Q	K	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_C8XKA3	A	G	Q	Q	G	K	L	T	T	E	E	A	A	K	R	E	Q	K	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_J9GBU4	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_I9LB22	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_Q3A645	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_L1Q2H1	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI00031A9F72	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_H3NLP7	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_D6EB47	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_B4VGY9	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_E0UJN4	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_C6Q1R0	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_S4XHD1	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI00047DF1CE	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI0003B5FDDF	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI000287F529	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_K5BA70	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI0004071D70	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_G7Q4V1	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI00037E1880	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI00037E1880	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_B0PAF3	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_R5AEJ1	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI00040E6F3F	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_E1YLL3	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_N1V217	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_A0YJE6	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_K6D2S8	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_A6CTJ1	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI0003F6C106	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI0004711FBF	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_D4J7Q4	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_R5D3G2	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_H0R4Q5	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_A1HNM0	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_Q898V8	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_K1VS84	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
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UniRef90_UPI000364513B	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
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UniRef90_R2SIU0	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_F8N753	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_U2NKV5	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_K9SDC9	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_B3QUX6	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_UPI00047EF57F	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_W1SAS6	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_B9JAJ3	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_R7CZD7	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_A8ZSR0	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L	Y	R	P	Y	K	Q	K	R	R	T	K	A	T
UniRef90_R5F0M6	V	R	A	Q	Q	G	K	L	T	P	D	E	L	A	A	R	A	A	A	D	T	K	L	Q	Q	V	E	D	L													

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130 140 150 160
I I A K E K G L E P L A L R V W E Q Q N M D F S K E A P S Y F S E E H E M E S E I E
I I A R E K G L E P L A E W L L S L P N Q D V E A A A Q K Y F I N D E E K E G L T T D G V E E
I I A R E A G L E P L A D V L L G D Q R R V D P E A A A A A A F F V V K P G E D K G V T A K S D G V E E
A A R E Q K G L E P L A T V M L L G D R P N L E P A A A A A A A F F V V K P G E A Q K G V I A D D L E E
T A R E R A G L E P L A Q A L L A K Q R E V A P E H A A A A A P F F V V V G E A Q K G V I A D D L E E
I I A L E K G L K P P L A D L L I A E G F K S G T L N E Q N E A A A A F Y I N D D A D E K G V L P T T V E E
I I A K E A G L M P P F A K W L L G F H K E E S V E T E A A A K Y I N L P D D K E E V L P D V V E E
K A K E K G L E P L A S N F L L T W K G S G S P L L A E K A G E G F T E E G F P T T V E E
K A R D A G L E P P L A L L I L A Q K G R S D K S P L L A A G L V V I A E G F P T P E E
V A R E K G L E P P L A E F I K S L N T V S L E A E A A N Y I I N D E E K G V I K T T E E
I I A K E K G L E P P L A E A L P A S K P V S L R E E Y A S E F F I I N E E K K G V I K T S E E
I I A K E R G L E P P L A D R M W S Q E D G S P E E E A R A S F I V S A E E K E V P D T A
I I A R E K G L Q P P L A D A I L A D R G A A E V P A A K L A K S Y I I D K E A G V E T I K E
I I A K E K G L E P P L A S I M M Q D R A E D P A K L A E K Y I I S D K E K A G V E T I V E
I I A K E Q G L E P P L A E K M L Q Y P V D S L S K L A A P Y V L V S E Q L D E E
I I A R E A G L E P P L A D R L L A D P T L V P E A A A A E Y F V L G D A V P A N D A T
V A R A K G L E E G L A D I I R S D G A I L S L D E A K A A E Y F V L G D N N D A V V V S K E
M A R E R G L D P P L A Q A L L M A Q Q G R D P L A L A R P F V V Q A E D K E G V P N D V V S
I I A K E K G L E P P L A N I I L Q Q M T S K S L E A E A K A F A F L A E E K E K V I K T T V E
V A R E R G L E P P L A Q L L L Q D Q T S G S V E A L A A P Y A S A E K K D V P T T A A
I I A K E K G L Q P P L A D I I W G Q K I G T P E E A A K A F V D S G Q K G V V D T V L
M A K E K G L E P P L A D I L R E Q K M S M Q D G E S A K F V V D D E K E K G V P E T N I V E
V A K E K G L E P P L A L L I F K Q E K G A D P Q D Q E A L S F V N D D E K E K G V I V E
I I A R E A G L E P P L A D A L L A D P G L D P E A A A G S Y I N S A E H S I N D A A
T A K E K G L E P P L A E E F P K A P I L P L F E K A K S D Y I I S I S K E K H G V I K T T V E
I I A K E K G L E P P L A E W L F G L P E G D V F E K A K E F I I S S K E H E V V N S S A E
V A K E K G L E P P L A E W M L S F P A S G S M Q E E A E K Y I I S V I E N E G V V N S S A E
V A K E K G L E P P L A Q F I A N F S F D L N A E A K K F I I S N E E K K G V I K T T V E
I I A K E K G L E P P L A D K L L Q F T N S F D L N A V E T L A K E F I I S N E E K K G V I K T T V E
I I A R E A G L E P P L A D R L L G D P S L D P T A S A Q E F V I A N G V V D S A E
I I A R E R G L E P P L A E I M L A Q E K M T D G D P L A A E F F I D N P A K D V V P D A D E
I I A E E K G L K P P L A E E L L L G E K E D L K E E A A G K Y I N N D A E K K G V I K T T V E
M A K E K G L A P P L A E L I P Q A K K V S L E S E A A K Y I N D A E K K G V I K T T V E
I I A K E R G L E P P L A K W L A L P Q S G S I D V I E A Q K Y I S L E Q E A L P D G E
I I A R E N G L E P P L A R A L Q A D R A S A P E A L A A A Y L T N E E A V I P D D V K
I I A R E A G L E P P L A V K M F E Q V D F D V I T E A K G Y L T P E K E I V I N E
I I A K E R G L A P P L A S W L L S L P K Q D I E K E A A N Y V N N E E K E I P D V I A
V A R E A G L E P P L A K I I M N Q K E H Y P D M A A Q R F V N K G D I K R D I G
M A R E A G L E P P L A T I L L M Q R E E N P V K A A E R F V V N S P D A G V T T P E
V A R E R G L E P P L A Q A I A H H N Q I A L D A A A A P Y V N S P D A G V T T P E
I I A K E K G L E P P L A E F I H S L N E G N F M E E A A K Y I S E E E K E V I K T S A E
I I A K E K G L E D L A L L I L N S N E N L D I E A S K Y I S I D E E E K E V V A V D
V A K E K G L E P P F A E W L M T F S K E S V T E K A K E F L T E E E V V A V D
I I A R E R G L G P P L A D T I L A D R S K E P A T L A E G F F V V P D A D E V V P D V K
A A R E Q K G L E P P L A V L L M M Q R E P H L E Q R L R E T F V K G E V V K D D A D
M A R E K G L E P P L A L V L L E Q K G T D P Q A E A L P F V D D P E K G V I K S V D
I I A R E K G L A P P L A E A I F A Q D G Q D P A V L A E G Y I K K G V I K S V E
V A R E N G L E P P L A Q I I L A Q R E Q P E Q V A N Y I K D G N I K T A E
I I A K E K G L E P P L A E I I L A Q E S R D I L E L A E D Y V I S E E K E V S S A K
I I A R E K G L E P P L A V W I Y K E A G S L E A E A K Y I S E E K K G V I A D V S E
M A R E K G L E P P L A D W I E S M N T P E V K E E A A K Y I S P D H K G V I N T V E
I I A K E K G L E P P L A N I L K P E K G F D P S K S A V D Y I S D E E K G V I T S V E
V A R E K G L E P P L A E W I A A E L N T A S L A V I E A A K Y I S P E E N G D I P D A E
T A R E R G L E P P L A N L I L A Q E I E V P L E E I A E D V I S E E E L R V V N T V E
I I A K E K G L E E L A N I I L A Q E I E V P L E E I A E D V I S E E E L R V V N T V E
I I A R E K G L E P P L A V K F I Q A L N P V K N G E N E A A K Y I S E E E K G V I K T A E
K A R A G L E P P L A D Q L L G N P S L D P E E T A K A F I L S E E A Y P D P A
I A R D K G L E P P L A L F L W E Q S D P T P L S Q V A A R F F G M P A E
E A K R K G L E P P F A K W I R Q A K H E V D I I N D K A Q Q F D N E E G V T T V D
I I A K A K G L E P P L A D F I L D N P D G S L E E A S K Y I I F D P E E K G V I T E T A E
I I A K E K G L E S L A Q Q V W D Q Q L V D L T T E V I E K F I S E E H E L Q S M E
M A R E R G L E P P L A L A L L A A K V D P L A E A A G F V N A E L D V V P D V Q
I I A R E K G L E P P L A K M M K Q S N D V D R L A Q P F F V N A E K K D V V N V E
M A I E R D L E P P L A Q L T W A Q R R A E I D A L A V S L V D A E K G V I A N A E
E A K R K G L E P P L A E W L Q Q S S T E S V E T A A E A Y L N D E G V V E S G E
K A K A K G L E P P L A A I L M R Q S E H G D V W T K A A R F V L N G D V V E G E
I I A M E K G L E P P L A L A I M E Q G N I V P A R E A E A Y V N A D K G V I G S V D
I I A R E K G L E P P L A E I L R S L N N P S A E P E A A K Y I D E S D K G V I K T A A
I I A I E K G L E N F A E D I Y E E K L E Q P A L E A K K Y I S D S D K G V I K E T P A
I A Q E R G L A P L A D R L L E A A S G G R P F E A E A F V A P E K K G V P D R E
I I A K E K G L E P P L A T L I L E Q A N T D L D G E A A K F I L S D T E K K G V N T L E
I I A R E N G L G P P L A V E A I F A D R K A A P E K L A E G Y L S E A E A V A N T V K
I I A K E K G L E N L A N Y I L K Q E T Q D L D E Y A K E F I N E E K G V L S V E
A A R E Q K G L E P P L A A W L M L Q R G N A L D A Y V K N F V K G E V V K S N E E
I I A R E K G L E P P L A N L I L Q Q V K E T R S A L E I A A D Y L N E Q V V K S T P Q
I I A R E K G L E P P L A N F L K T L N H T D L A L A A A K Y I T A D A K K D V R T A T
I I A K E A G L E P P L A K W L L T F P N G N L D K K A Q D Y I S D A K K D L A S R E
V A K S K G L E P P L A D Y I L S L P K N G N R L H D D A D Q F Y I S A E K K E V T D V E
I I A I E K G L Q P P L A Q T I F E G R L H N K I Q E A K T Y L S K K D V T D V D
T A R E Q G L E P P L A L T L L K Q R D K D P Q I E A L P F I D T A K G V V E
I I A K R G L E P P L A T T I L E Q K C E S V I D C A K E Y I S E E P T E V E
A A R E R G L Q P P L A D Q I L R Q K G S D P E A E A R C Y I I N S Q K K E V P D V E
M A R E R G L E P P L A L L L L A Q K G S D P H H E A T R F I S D D K A D V E S A D
D A I A K G L E P P L A K W M L T Y P K T S V S D E A K Y I T D A V E S A D
V A K E K G L E E L S K L I S E G N V K E G N P D D Y A F K F L N D K V A T L E
E A I A K G L E P P L A K W L L T F P N E D V L K E A S K Y I T E E K P T E K
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		170	180	190	200
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UniRef90_R5F0M6	E A L	Q G G A N D I	L A E E D L S	E D D A K I R K S L	R R E L V M R R G M L T C T A A E
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UniRef90_Q5HMF2 MD I V N L L A F E L S I S S E M K Q I T D R S Q V S A V A Q L L R D G G N T I P F F
UniRef90_A0ZA99 I E Q I I S R R L S I S S E M K Q I T L P Q V V Q G T V R L L R D G G N T I P F F
UniRef90_D9PF22 M T D I I Q Q L V T A Q L T Q Y Q P K Q I K A T L G L L A E E G N T V P F F
UniRef90_KONSH6 M Q S I A Q I L A S E L G Q P V Q Y V E N V I A L L L A E E G S T I P F F
UniRef90_UPI0002897A54 M N K Y T L H I A H I L G L N E K K V D A T I A L L L E E G C T I P F F
UniRef90_UPI00046A9133 M K T L T E I I A S T T S L N P Q Q V E A A T D L L L D E E G N T I P F F
UniRef90_R6D833 N I S A R I T E E M A A M P N L K V R L G Q V E A A T R L I L D E E G N T I P F F
UniRef90_D1XV50 M L N I P Q V I A S E L S V L N E N V R A A V E L L D N E G G A T V P F F
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UniRef90_UPI00047EA32E D I N K Q L M Q E F A S G I R T E S Q V E A V I K L L D E E G N T I P F F
UniRef90_K0YHF4 M E N I I Q L I A E K L G Q P V S E K Q I A K T I S L L D D G G N T I P F F
UniRef90_G0UEE5 S I V S F I A K Q I P V S E K Q I A K T I S L L D D G G N T I P F F
UniRef90_A6TLF6 Q I A Q E L S I A K A L Q L V K E Q Q A K N V I Q L L K D D G N T V P F F
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50 60 70 80
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A R Y R K K E A T H K S G L L D D E D E V Q I | R T Y E I R Q Q A T Y H Q V L R E E T L L E T R R K K G A D E S I I L K S
A R Y R K K E M T G G G A L D D D E D E V Q Q L | R R Q I V L S D A R W E T Y V V R R T Q T L L E L E A R R K K A E T T E V V I L R A K T
A R Y R K K E A T G G N M L D D D E D E A Q Q V | R S V L S D A R L I K Y Y R D E L L E L E A R R K K A E T T E V V I L R A K T
A R Y R K K E [V] T G N G L L S D D E D E T L | R K F S V R L L E T Y L R R N L L E L E A R R K K A E T T E V V I L R A K T
A R Y R K K E [V] T N G S L L D D E D E V Q I | R L L I E E T R Y Y L L R E L A L E L E A R R K K A E T T E V V I L R A K T
A R Y R K K D K T G G G L L D D E D E V Q I | Q Q I V I Q S D D E A K F L K E F L E R R R K K A E T T E V V I L R A K T
S R Y R K K E A T G S L L L D D E D E V A V | A N A A S R D R L F E E K L K A A L L D D K R R R E A T E V V I L R A K T
A R Y R K K E [V] T G G L L D D E I A L | A A A I V I E D A L L E K H N A L L L A E R R K K A E T T E V V I L R A K T
A R Y R K K E A T G G D L T D D E I V L | R D R Q I D A D E R H Q Y L L R G D L L E E E R R K K A E T T E V V I L R A K T
A R Y R K K E [V] T G G L L S D D E D E T L | R D I L I G S E R L T Y L L R N L L E E A R R K K A E T T E V V I L R A K T
A R Y R K K E Q T H G G L L D D E D E Q K L | R E Q I S N D E Y N Y M L N L L E L E Q A R R K K A E T T E V V I L R A K T
A R Y R K K E R T G E M N E E V Q I | R D L I F E R Y A Y L T E L A E S R K K A E T T E V V I L R A K T
A R Y R K K E T G N S L L N D E E Q I | R L G I R E H K Y A Y F Q E N A L N S R R K K A E T T E V V I L R A K T
S R Y R K K E A T G S L L D D E D E V Q I | G A V I K E E L L E R L L T T E L L E A R R R R Q A T T E V V I L R A K T
A R Y R K K E Q T H G S M D D D T T L | R K L I E E S T F D Q Y L T T T L E L E K R R R R A D I V I L R A K T
S R Y R K K E K T G N L L D D E D E V A I | T S I N E N E V S S M R E L D D K R R K K E T T E V V I L R A K T
A R Y R K K E A T G S L L L D D E D E V Q L | R F L I W E N Y N Y L T R N L L E L E K R R K K Q Q Q I V I L R A K T
S R Y R K K E [V] T G E L L D D E E Q I | R T T E E E R L T A Y L L R N L L E L E K R R Q Q D I V I L R A K T
A R Y R K K E R T G S L L N D D T D L | R D T L Q D E R F R Y L L Q E E Q Q R R R A I R E A A A
A R Y R K K E [V] T G S L L D D D G A L | R S L L E E K L A Y Y R E L L E E E R K K E T T E V V I L R A K T
A R Y R K K E A T G N L L D D E D E V Q I | R D I L Y D R L I Y L L R N L L E L E A S R K K G E T T E V V I L R A K T
S R Y R K K E M T G G L L D D E D E V Q V | A Q I R D L A K K Y E E L L E S R R K K E T T E V V I L R A K T
A R Y R K K E A H H G A M D D D T V L | R N L D A D E R L T Y L L R N L L E L E A D R R K E E S V I L R A K T
S R Y R K K E M T G D L L D D E D E V A I | G E I V K H K T A F E A L L E K R R K E S V I L R A K T
A R Y R K K E A T S N G L L D D E D E V Q I | K N I Q K N W L D K L K E T E L K A R R K K D T T I L R A K T
A R Y R K K E L S G G L L D D E D E V Q I | K D I M D T W Q Y M E N L H V R K K A E T T E V V I L R A K T
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A R Y R K K E [V] T G G L L D D E E Q I | R S D L N E V Y E Y Q V V N L L E K R R E D V V I L R A K T
S R Y R K K E M T G S M D E I V Q I | A N T K E L Y N K F Q E A D K R R E A I I L R A K T
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A R Y R K K E M T G E M S D V I L | R A F Y D K L V Y L R N L L Q E S R K K D D V I L R A K T
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A R Y R K K E M T G G L L D D D E T L | R N F H E R L L Y L R N L L E D R K K E A I K K N T
S R Y R K K E R T G G L L D D E D E V Q I | R D I V E K W E Y E N O L L K R K K E S V V I L R A K T
A R Y R K K E [V] T G G L L D D D T Q I | R N L E T R L L Y L R E L L D D Q R K K E S V I L R A K T
A R Y R K K E K T G G L L N D D Q I | R E I S K V Y E Y Q M N L L Q D R K K E S V I L R A K T
A R Y R K K E A T G G L L D D E V Q I | K Q I S D E Y Q Y V A N L L Q K R K K D E V I L R A K T
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A R Y R K K E M T G G S L D D Q V L | R D L Y D R L T Y L L R N L L E A R K K E E V I L R A K T
A R Y R K K D K T Q N L L D D E I A I | E Q I S K W Q T E Y E N I L K R K K E T I L R A K T
A R Y R K K E R T G G L L D D D T Q I | R E T L G E R F H Y L L T E L L K R K K E T I L R A K T
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A R Y R K K E A T G S L L D D D E V L | R K L A S D R L V Y L R S L L E E E R K K E G I V I L R A K T
A R Y R K K E [V] T G S L L N D E V Q I | K E I S E D R A T Y L D N L L E K R K K E I L R A K T
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A R Y R K K E A T D G L L D D E E Q I | R A I R S E G L E T Q R T L E A R K K E T I L R A K T
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A R Y R K K E Q T G G L L D D E V E I | K L I N D E Y Q Y M V N L L K R K K E E V I L R A K T

	90	100	110	120
UniRef90_UPI00047B96C3	D E R G M L T T E E L L	R Q E L K S T K L V E V	Y R P Y K K Q K K K T R A T	
UniRef90_R7IR03	D E R Q G K L L T T Q E E L	T A K A S A E T L A E V	P Y K K Q K K K R T T K A T	
UniRef90_K1XLR1	L E E E R Q S K L L T T T S E E L	Q R R S I F L N A A T S A L T L	L L Y L P Y K K Q K K R R T T	K A S T
UniRef90_G8PAT2	E E E E Q G G K L L T T T E E E L	R R R S I F L N A A T A K L Q Q	L L Y L P Y K K Q K K R R R T T	K A T S
UniRef90_UPI0003714573	D E Q Q E K L L T T T E E E L	Q G S I F N A A T A K L Q Q	L L Y L P Y K K Q K K R R R T T	K A T S
UniRef90_G1WLH4	D E A A G K K L L T T P E E L	R K D A I E D C L S A T E	L L Y L P Y K K Q K K R R R T T	R A S M
UniRef90_W0F0D3	D Q T G N L L T T D E I L	K N K Q E N A N T L T E	L L Y L P Y K K P K K R K T T	K A M
UniRef90_R5TAZ3	L S E E Q G G K L L T T S N E L	K G Q E I N A A S D K T T	L L Y L P Y K K Q K K R R R T T	S K G Q T
UniRef90_UPI0003602F75	L S E E Q G G K L L T T S N E L	K G Q E I N A A S D K T T	L L Y L P Y K K Q K K R R R T T	S K G Q T
UniRef90_F3YB42	I N E Q Q D K M T T E A L Q	Q D K L N A A T T T A E	L L Y L P Y K K P K K R K T T	K A Q Q
UniRef90_UPI0003F65A34	D E A E R D L L T T D D A L	R R R E L D A A E T M R Q	L L Y L P H R P K K R R T T	K G Q A
UniRef90_C6C261	E E E Q G G A L L T T A E L	R K Q E I E A C T D L R	L L Y L P Y K K P K K R R T T	R A T S
UniRef90_E6VV18	E E E Q G G A L L T T D E S L	A A E I A K A E T L Q R	L L Y L P Y K K P K K R R T T	R A T S
UniRef90_F2AYX7	E E E Q G G K L L T T D E S L	K T A I L A C Q Q K T E	L L Y L P Y K K P K K R R T T	R A T S
UniRef90_W2C1N9	Q S Q G G K L L T T D E I L	V A N L E N A C T L A E	L L Y L P Y K K Q K K R K T T	R A T S
UniRef90_UPI0003007178	E N Q G G K L L T T D E I L	V A N L E N A C T L A E	L L Y L P Y K K Q K K R K T T	R A T S
UniRef90_R6Q739	L Q K L D V L W T T E S K L	Q S D I L D A A T L A Q	L L Y L P Y R P K K K R T T	R A T S
UniRef90_R7IEI7	D Q Q L D V L W T T E S K L	Q S D I L D A A T L A Q	L L Y L P Y R P K K K R T T	R A T S
UniRef90_Q5HMF2	A E Q Q G K L L T T D E L	K A K I T A C L Q K T E	L L Y L P Y R P K K R R T T	R A T T
UniRef90_A0ZA99	R S Q Q D K L L T T S A E L	K E K I L S V T D R T G L	L L Y L P Y R P K K R R T T	R G T S
UniRef90_D9PF22	L T D R D L L T T S A E L	K E K I L S V T D R T G L	L L Y L P Y R P K K R R T T	R G T S
UniRef90_K0NSH6	E E Q Q G K L L T T P E L	R R R I E G C W D S V E	L L Y L P Y K P K K R R T T	R A T T
UniRef90_UPI0002897A54	T E Q Q G K L L T T D A L	Q K Q I E T A K Q L Q V	L L Y L P Y K Q K K R R T T	K A T
UniRef90_UPI00046A9133	D G Q Q K L L T T D A L	A A A I L S C C L I S T E	L L Y L P Y K P K K R R T T	R A T
UniRef90_R6D833	S E Q N K L L T T P E L	E Q K I L S C C L I S T E	L L Y L P Y K P K K R R T T	R A T
UniRef90_D1XV50	S A Q N K L L T T E E L	K Q K I E S A C L Q K T E	L L Y L P Y K P K K R R T T	R A T
UniRef90_B7JUZ6	S A Q N K L L T T E E L	K Q K I E S A C L Q K T E	L L Y L P Y K P K K R R T T	R A T
UniRef90_R5CL11	E E Q G G K L L T T E E L	K T A I E R T I K L Q D	L L Y L P Y K Q K K R R T T	R A Q T
UniRef90_UPI000378182D	A S Q N K L L T T S P L	K A Q I T A C L Q K K N	L L Y L P Y K T T K R R T T	K A Q
UniRef90_K9Z613	K A Q N K L L T T S P L	K A Q I T A C L Q K K N	L L Y L P Y R T T K R R T T	K A Q
UniRef90_UPI00047EA32E	D E Q Q G K L L T T D N L	R A L I V E C D S K A R	L L Y A P F K K R R K T T	R A D
UniRef90_K0YHF4	V E Q N N M M T T K E G L	Q Q A I V T A D T L M Q	L L Y L P Y K K K R R T T	K A T
UniRef90_G0UEE5	E E Q G G K L L T T D E L	K T K V L T C F D S T V	L L Y L P Y K Q K K R R T T	K G D
UniRef90_A6TLF6	E E Q G G K L L T T D E L	K T K V L T C F D S T V	L L Y L P Y K Q K K R R T T	K G D
UniRef90_F2IC94	E E Q E E K L L T T P E L	Q K A I E E A A M T L V	L L Y L P Y K Q K K R R T T	R A T S
UniRef90_R5KE59	G A Q D R L L T T E H L	A A A I E E A A M T L V	L L Y L P Y K Q K K R R T T	R A T S
UniRef90_E6U4E3	K E Q G G A L L T T P E L	E R K I L A A D T L T Q	L L Y L P Y K K K R R T T	R A S
UniRef90_A0A023BQC2	E S Q Q E K L L T T D A L	R E K I L A C N V D K T	L L Y L P Y K P K K R R T T	R A M
UniRef90_Q6MCK1	L E K Q E K L L T T P A L	R E K I L A C N V D K T	L L Y L P Y K P K K R R T T	R A M
UniRef90_R7J7G2	D E Q Q G K L L T T E E L	A T A I K K A E K L Q T	L L Y L P Y K Q K K R R T T	R A T S
UniRef90_I8ANM4	K K Q G G A L L T T N E A	K K I K Q A S K L Q K	L L Y L P Y K Q K K R R T T	K A M
UniRef90_UPI0003751BCD	A E Q Q G A L L T T A K L	E Q A I M A A E T K A R	L L Y L P Y K E P K K R T T	K A Q T
UniRef90_K6QJ54	S E E Q G K L L T T D K L	K A A I M A A E T K A R	L L Y L P Y K E P K K R T T	K A Q T
UniRef90_I4BJL9	E E E K G L L T T L E L	K D N I M K C E K L T E	L L Y L P Y R P K K K R T T	K A Q
UniRef90_R5TK14	Q E Q E K L L T T P E L	L N K I K N A L Y L N E	L L Y L P Y K Q K K R R T T	R A
UniRef90_A0L7M6	E E Q G G K M T T P E L	L N K I K N A L Y L N E	L L Y L P Y K Q K K R R T T	R A
UniRef90_I2EZB5	A D Q G G K L L T T D D L	K A K I E S A C L Q K T E	L L Y L P Y R P K K R R T T	R A A
UniRef90_L8N2J6	S S Q G G K L L T T E E L	K A K I E S A C L Q K T E	L L Y L P Y K P K K R R T T	R A T T
UniRef90_K9VE59	E E Q E E K L L T T P E L	K L K I E K A T T L T E	L L Y L P F K A K K R R T T	R A T T
UniRef90_H7CYJ2	Q E Q E K L L T T P E L	K Q A I L S A T L Q R	L L Y L P Y K Q K K R R T T	K A T
UniRef90_D7WXT8	D E K G L L T T N E L	K Q Q I L N A K K L V E	L L Y L P Y K E K K K T T	K A T
UniRef90_R5HSM0	E E Q G G L L T T D L	K S D I L K Q T K L Q R	L L Y L P F K Q K K K T T	R A T
UniRef90_J9DJS9	E E Q G G K L L T T P A L	R M Q I E E A A T E L N V	L L Y L P Y K K K R R T T	K A Q
UniRef90_H3RQT0	E A Q G G K L L T T D E L	L A K I K L A E T M V	L L Y L P Y K P K K R R T T	R A M
UniRef90_X8ING6	D E Q G G K L L T T D E L	L K N I K L A K T L Q E	L L Y A P Y K Q K K R R T T	R A T T
UniRef90_T4W6E0	G E Q G G K L L T T P E L	Q T R I E Q Q T R T K T E	L L Y L P Y K P K K R R T T	K A T
UniRef90_B9M315	D Q Q G G L L T T D E L	K Q D I L K Q S K L Q R	L L Y L P Y K Q K K R R T T	R A M
UniRef90_K9AIK1	E E Q G G K L L T T K E L	A K Q I E E A K T L V	L L Y L P Y K Q K K R R T T	R A M
UniRef90_R7BXK6	D S Q D K L L T T P Q L	R S A I E N C V N A N E	L L Y L P Y K P K K R R T T	R A T
UniRef90_R5SIV1	E E Q G G K L L T T N E L	R V Q I K S A K K L Q E	L L Y L P Y R Q K K R R T T	R A T
UniRef90_W4QA55	E E Q G G K L L T T G L	K Q Q I K Q A T T L T A	L L Y L P Y K Q K K R R T T	K A T
UniRef90_R0GEW7	R E Q G G K L L T T S E A L	E Q S I L J A A D N K T E	L L Y L P Y K P K K R R T T	R G Q S
UniRef90_R8ASQ4	D E K G M L T T E E L	R N Q I L K A E K L S E	L L Y R P F K K K K T T	R A T
UniRef90_E7GC62	E Q Q G L L T T N E L	K E A I L K Q T K L Q R	L L Y R P F K Q K K K T T	R A T
UniRef90_Q4L7U8	L E E Q E V I T T N E L	R E K I N S R T G D L T	L L Y L P Y K K K R R T T	K A E T
UniRef90_A4ANB2	E E E Q G K L L T T P E L	S G R I E A A E K L Q T	L L Y L P Y K Q K K R R T T	R A T
UniRef90_E8WHR3	E E E Q G K L L T T D D L	R A A I E A A E K L Q T	L L Y L P Y K Q K K R R T T	R A T
UniRef90_F5RLX6	E E E Q G K L L T T E E L	K E E I L J E A S V L	L L Y L P Y K Q K K R R T T	R A T
UniRef90_UPI00047AB4EF	E A Q G G K L L T T P E L	K E E I L J E A S V L	L L Y L P Y R P K K R R T T	R A S
UniRef90_U2M314	E E Q G G K L L T T D D L	K Q K I E S C F V L N E	L L Y L P Y K K K R K T T	R A D
UniRef90_UPI0004764B8B	A S Q D Q L L T T P E L	Q A K I L T C C S Q K K N	L L Y L P Y K P K R R T T	R A D
UniRef90_UPI000475004E	A E Q G G K L L T T T E L	Q A K I L T C C S Q K K N	L L Y L P Y K P K R R T T	R A D
UniRef90_Q60A39	K Q Q D K L L T T S A A L	E K S I Q Q A D S K T R	L L Y L P F K P K R R T T	K G K
UniRef90_UPI00037A59DB	D E H G A L L T T P E L	K A A I V S N A S S L T A	L L Y L P Y R P K K R R T T	R A S
UniRef90_T0CVT7	R E Q E K L L T T D E L	K A A I V S N A S S L T A	L L Y L P Y R P K K R R T T	R A S
UniRef90_R6ZDW3	E E Q G G V L L T T D E L	K A A I V S N A S S L T A	L L Y L P F R P K K R R T T	R A T
UniRef90_V7I2J1	T E Q G G A M T T A P S L	K A A I D S A K T L Q	L L Y L P Y R P K K R R T T	R A T
UniRef90_R5KT52	E S L D Q G L L T T S P E L	E Q K I T K A E D L T T	L L Y L P F K K K R R T T	K A E T
UniRef90_UPI000427A6CD	A E Q D D K L L T T S E L	E T E I R R S V K L Q Q	L L Y L P F K Q K K R R T T	R A T
UniRef90_U1YLP9	E E Q E V L L T T S E L	K Q K I E A T Q D L L T	L L Y L P Y K K S R R T T	K A E
UniRef90_UPI0003629DFE	D S Q G G K L L T T P E L	R A S I E G C Q R L V D	L L Y L P Y R P K R R T T	R A M
UniRef90_E6W1D2	K E Q D K L L T T D E L	E E Q I L N C C Y D L K	L L Y L P Y K Q K K R R T T	R G D
UniRef90_UPI00037E67C6	T E Q G K L L T T P E L	A K R I D T N C Y D T A	L L Y L P Y K P K R R T T	R A Q
UniRef90_R5KF05	D E Q G G K L L T T P E L	E K E L Q E A S K L Q R	L L Y L P Y K Q K R R T T	R A T
UniRef90_K2FJG5	N A A Q N K L L T T D A L	K S A I A A A T Q K Q E	L L Y L P Y K P K R R T T	R A Q
UniRef90_E6PSV9	A A Q N Q L L T T D A L	K S A I A A A T Q K Q E	L L Y L P Y K P K R R T T	R A Q
UniRef90_K9T3D8	R E Q N Q L L T T P E L	E Q A I N A A D S R A R	L L Y L P Y R P K R R T T	N K A Q
UniRef90_UPI00025587B3	D E K G L L T T D E L	K S Q I E K N A D T K L	L L Y L P Y K E K K R T T	K A T
UniRef90_R6D719	I E A Q Q L L T T P E L	K A E I T K N A D T K L	L L Y R P Y R P K K R T T	S R A
UniRef90_A6C5P8	E E Q G G L L T T N E L	K Q D I L K Q T K L Q R	L L Y R P F K Q K K K T T	R A T
UniRef90_U1FRL8	E E Q G G L L T T N E L	K Q D I L K Q T K L Q R	L L Y R P F K Q K K K T T	R A T

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V K V E F D T Q Q I A S A I E K N E V K S N N P H G D Y I K L A I E
U P I 0 0 0 4 7 5 1 B C D V K I E I D K D R A I Q K I E D R I I K R K S N N A C S T Q I K L A V Q
L T L L A P D E E I V G R I R G G L I K R E S I F K G V L E A V A A
U P I 0 0 0 4 7 5 1 B C D V T R I V V D H E D N I E W I Y K R I Y Q R P S I F E G E L H A A I E
U P I 0 0 0 4 7 5 1 B C D I K L I S P D E H L L Y L S K K L I T N E K A L T T T A L Q E A I E
U P I 0 0 0 4 7 5 1 B C D V A V T L P E G E H G A S L L I Q K F V K N Q S C G K L V Q T A A E
U P I 0 0 0 4 7 5 1 B C D L K V E I L D S Q E A I D F I G K T I I K T K G E V A D F L Y D T I A
U P I 0 0 0 4 7 5 1 B C D L D I D Y D E A F V Q D Y L E E Q E I H T R H P E L R Q F Y Q G M L K
U P I 0 0 0 4 7 5 1 B C D L R V A K D E A G H R F A E H R I A S A F A I A D R G R P A D S W L E T I V R
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UniRef90_E6W1D2	S
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L T F D S A G G A D D G I Y E A M V A A S L G V D L S A K A A T P W L A A T V R R
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L S D A D P K Q D K K T S Y C E L L T I A H H L G F S W L Q L P A N N W R K K V I Q
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UniRef90_C2BIJ8 | T R Y R K K E V T G N L L D D E V E I | R E I E K N L G R L R N | E K R R Q E F I I L D T
UniRef90_E1X1X7 | T R Y R K K E A T G G L L D D E V Q I | R D I Q S S Y E E Y L E | R E K R R Q F I I L D T
UniRef90_T0SZW4 | A R Y R K K E V T G G L L D D E E Q I | R A I Q A S S Y E E Y L E | R E K R R Q F I I L D T
UniRef90_W1CT17 | A R Y R K K E V T G G L L D D E T Q L | R A N I E T R L G Y L R E | L E R D R R Q A I L L K S
UniRef90_T0RX48 | T R Y R K K E K T G G L L D D E T Q I | R N I Q E S Y E G Y L E | R E K R R E F I L E A

UniRef90_UPI000409BD28 | I | D | E | Q | G | Q | L | S | A | 90 | K | L | K | I | E | N | S | F | D | L | Q | E | I | E | D | F | Y | L | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_E4L379 | I | L | Q | E | Q | Q | G | K | L | M | T | P | E | E | L | Q | R | A | L | A | E | A | D | K | L | A | D | V | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI00036725AC | I | L | Q | E | Q | Q | G | K | L | M | T | P | E | E | L | Q | R | A | L | A | E | A | D | K | L | A | D | V | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_M5DXP4 | A | D | K | Q | Q | D | K | L | T | T | P | E | E | L | L | N | K | R | A | L | A | E | A | D | K | L | A | D | V | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5I2M2 | I | A | S | Q | Q | E | K | L | T | T | P | E | E | L | E | K | R | I | R | E | C | L | D | P | V | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5SH60 | I | A | E | E | Q | Q | E | K | L | T | T | P | E | E | L | A | A | A | I | D | A | A | Q | T | L | A | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI000407E307 | I | E | E | Q | Q | G | R | L | T | T | P | E | L | A | A | A | P | T | K | Q | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI00035EB6FA | I | E | E | Q | Q | G | V | L | T | T | P | E | L | R | K | R | I | A | A | E | T | W | E | L | P | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI0001C37BEA | I | T | E | Q | Q | E | K | M | T | P | E | L | E | A | A | I | S | A | A | C | F | T | L | V | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5GH75 | I | T | E | G | Q | Q | G | A | L | T | T | P | E | L | R | G | R | I | A | A | C | F | T | L | V | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_U5Q8H3 | I | E | E | Q | Q | E | K | M | T | K | E | L | R | V | S | I | A | A | E | T | L | D | I | N | K | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_H1ZBC6 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | R | N | D | S | I | E | Q | S | F | D | L | V | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5M1W8 | I | D | E | K | G | L | T | T | P | E | L | R | N | D | S | I | E | Q | S | F | D | L | V | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI000370D2EA | I | V | A | S | L | G | K | L | T | T | P | E | L | R | R | N | I | E | A | A | E | K | L | A | D | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_C2M5J9 | I | V | A | G | Q | Q | K | L | T | T | P | E | L | R | R | N | I | E | A | A | E | K | L | A | D | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_E6MGK1 | I | K | G | K | G | E | L | T | T | P | E | F | K | D | R | I | L | A | I | T | D | A | T | L | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5AXA3 | I | K | G | K | G | E | L | T | T | P | E | F | K | D | R | I | L | A | I | T | D | A | T | L | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_B4U3Y0 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | K | E | A | I | E | A | A | D | K | L | A | D | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI000476050D | I | E | E | A | A | G | K | M | T | T | P | E | L | S | A | A | Q | L | D | D | C | F | T | L | V | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_U7V963 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | K | N | Q | I | L | L | A | E | K | L | Q | M | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_D8MFD6 | I | V | Q | E | Q | Q | Q | L | T | T | P | E | L | L | Q | A | G | I | Q | S | A | E | S | T | L | Q | Q | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_W1Q1Z1 | I | D | E | Q | Q | E | K | L | T | T | P | E | L | K | G | A | Q | I | Q | S | A | E | S | T | L | Q | Q | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_G2SRN3 | I | G | E | L | G | K | L | T | T | P | E | L | K | K | S | I | D | A | A | E | T | M | Q | Q | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_U2QV8 | I | D | E | K | G | L | T | T | P | E | L | K | R | D | D | I | L | A | Q | E | K | L | Q | Q | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_U6BD91 | I | E | E | Q | Q | G | A | L | T | T | P | E | L | R | R | T | D | L | E | A | Q | T | T | L | Q | Q | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_U5P486 | I | E | E | L | G | K | L | T | T | P | A | L | K | E | A | I | E | E | Q | A | E | K | L | A | D | V | L | E | E | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5Z3B6 | I | E | T | L | G | H | L | T | T | P | E | L | K | L | Q | I | M | E | A | T | K | L | V | E | V | L | E | E | I | Y | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R7IGK1 | I | D | E | K | G | M | L | T | T | P | E | L | V | K | A | I | N | E | A | T | K | L | V | E | V | L | E | E | I | Y | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_UPI000363141B | I | A | E | Q | Q | N | A | L | T | T | P | E | L | N | Q | K | I | T | A | S | F | D | L | S | E | L | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_C4LJC0 | I | D | S | Q | Q | G | K | L | T | T | P | E | L | R | E | L | Q | Q | Q | C | D | T | K | A | R | Q | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_W7YWT7 | I | D | E | Q | Q | G | K | L | T | T | P | E | L | K | E | Q | I | K | K | A | D | K | L | Q | Q | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_H0KQA3 | I | E | E | Q | Q | D | S | L | T | T | P | E | L | R | S | K | I | E | S | S | F | D | L | Q | Y | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R6CBD9 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | K | S | R | F | E | N | A | L | T | L | G | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_C7NE81 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | K | Q | S | I | V | N | A | M | K | L | Q | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_B1C7U8 | I | A | S | L | E | K | L | T | T | P | E | L | E | K | S | I | N | D | A | K | T | L | S | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_J4W158 | I | E | E | Q | Q | G | K | M | T | T | P | E | L | R | L | S | I | E | N | A | M | T | L | Q | E | V | L | E | E | D | I | Y | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_G6C6L8 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | R | N | I | V | E | A | K | L | L | Q | E | V | L | E | E | D | I | Y | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5BJ76 | I | S | E | S | G | S | L | T | T | P | E | L | K | E | Q | I | E | N | C | V | N | S | T | E | L | E | E | D | L | Y | L | P | F | R | S | P | K | K | R | R | T | K | A | T |
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UniRef90_E6UGH0 | I | T | E | Q | Q | E | K | M | T | T | P | E | L | A | A | A | I | E | K | A | V | T | L | V | E | V | L | E | E | D | I | Y | A | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_G5JT43 | I | E | A | Q | Q | G | K | L | T | T | P | E | L | K | K | A | I | E | A | A | D | K | L | A | E | V | L | E | E | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_M2PMY8 | I | D | E | K | G | L | T | T | P | E | L | K | A | S | I | L | A | C | T | S | L | S | E | A | D | D | Y | Y | R | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5SHH8 | I | E | E | Q | Q | G | K | L | T | T | P | E | L | K | A | Q | I | L | A | A | E | T | Q | V | L | V | L | E | E | D | Y | Y | R | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5MD68 | I | D | E | K | G | L | T | T | P | E | L | K | T | N | I | L | N | A | E | T | K | L | A | E | I | E | E | D | L | Y | L | P | F | K | E | K | K | R | R | T | K | A | T |
UniRef90_F8I036 | I | L | T | Q | D | S | V | L | W | N | S | A | L | A | E | R | L | E | A | A | D | S | L | Q | K | V | L | E | E | D | F | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_R5V4W8 | I | Q | E | K | G | M | L | T | T | P | E | L | Q | A | Q | I | E | A | A | T | K | L | V | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
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UniRef90_M1PGD3 | I | L | S | E | R | N | L | T | T | P | E | L | K | K | D | S | L | E | K | A | D | N | V | T | S | L | E | E | D | I | Y | L | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_E4RUU9 | I | L | S | E | A | Q | G | K | L | T | T | P | E | L | K | R | N | S | L | E | K | T | L | L | A | D | S | L | E | E | I | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
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UniRef90_Q1JW78 | I | E | E | S | G | E | K | L | T | T | P | E | L | R | G | R | I | A | Q | V | R | D | K | A | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_J1F565 | I | E | K | G | E | K | L | T | T | P | V | L | R | K | R | I | E | A | A | D | S | L | Q | T | I | E | E | D | L | Y | L | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_E7NY50 | I | F | A | A | G | K | L | T | T | P | E | L | Y | E | N | I | M | K | A | V | T | L | A | E | L | E | E | D | I | W | L | P | F | K | K | E | K | K | R | R | T | K | A | T |
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UniRef90_U2LK57 | I | F | A | Q | G | K | L | T | T | P | E | L | Y | D | A | V | M | S | A | L | T | L | T | A | L | E | E | D | L | W | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_D5SP95 | I | L | Q | Q | Q | Q | L | T | T | P | E | L | E | A | S | I | R | G | A | T | S | L | K | Q | V | L | E | E | D | L | Y | L | P | F | R | P | K | K | R | R | T | K | A | T |
UniRef90_K0DDM7 | I | H | D | Q | Q | K | L | T | T | P | E | L | K | K | H | I | M | S | A | A | S | L | P | V | L | E | E | D | L | Y | L | P | F | K | K | E | K | K | R | R | T | K | A | T |
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UniRef90_D4H0R8 | I | D | E | R | G | K | L | T | T | P | E | L | K | K | S | I | M | K | A | E | T | M | K | E | V | L | E | E | D | L | Y | A | P | Y | K | S | K | K | R | R | T | K | A | T |
UniRef90_U2LWM8 | I | I | E | A | Q | Q | G | K | L | T | T | P | E | L | Y | D | A | V | T | J | N | A | Q | T | L | S | E | V | L | E | E | D | L | W | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_D1AGQ3 | I | I | E | Q | Q | G | K | L | T | T | P | E | L | K | T | S | I | T | K | A | V | K | L | Q | E | V | L | E | E | D | L | Y | L | P | Y | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_Q2BJK7 | I | L | T | D | Q | Q | Q | L | T | T | P | E | L | H | T | Q | V | N | N | A | D | T | K | S | G | L | E | E | I | Y | A | P | Y | K | S | K | R | V | T | K | A | T |
UniRef90_F4LMR7 | I | I | E | F | G | Q | Q | K | L | T | T | P | E | L | Y | E | A | M | N | A | K | T | L | T | E | V | L | E | E | D | L | W | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_E3PUI3 | I | I | E | E | Q | Q | G | K | L | T | T | P | E | L | Y | Q | S | I | E | L | A | T | T | L | Q | E | V | L | E | E | D | L | Y | A | P | F | K | K | E | K | K | R | R | T | K | A | T |
UniRef90_F5YPP7 | I | L | F | D | Q | Q | G | K | L | T | T | P | E | L | Y | E | N | I | T | K | A | A | T | L | T | E | V | L | E | E | D | I | Y | A | P | Y | K | S | K | K | R | R | T | K | A | T |
UniRef90_E4RJH0 | I | A | D | K | V | D | K | Y | S | G | E | L | K | E | K | I | L | Q | A | D | K | L | S | E | V | L | E | E | D | L | Y | L | P | F | K | S | K | K | R | R | T | K | A | T |
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I A R E A G L F P P L A R L I I L Q N A N N L L E A E A A Q S E Y T N E K E A F P N L E D
K A I E K G L F P P L A D L I F N Q E K N A A E I L A A Q S Y L D P E N E A F K N I E
V A K E K G L E P P L A A A V F A C K V K D P A V I E A G K Y L N D A E K G V S S I E
V A K E K G L E P P L A A A L F A Q E R D C P Q E A A A D Y L N D A E K G V S S I E
I A R E F G L E P P L A D A L F A D P G L D P Q Q A A T P Y V L K A E K G G T S V A
I A R E K G L E P P L A T H I F L K Q N N E N Y E M V L K N Y F N E K Q V Q S Q E
I A R E N G L E P P L A E L L L A Q N N T D P E K E A E A F R N E E K N V V A D V Q
I A R S R G L E P P L A D L L L A G R D D A D P R R F V R R G E A V E V A D A E
V A R E N G L E P P L A E R I Y S F K I D D C E K E A Y N Y L S D A V E V N D V E
T A R A L G L E P P L A K M I M A Q N A T D I E S I L A R K Y I T K E V E D V E
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I A I E R G L E P P L A D A M L T L D D T A I E K K A E E F I N P E L S V P T A E
I A R Q R G L E P P L A T R I L H D D R T D L Q Q A A K S F I S T E Q Q L N S V E
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V A R Y R K K E R T G G G L N S D E V Q L R E F L A E R H A Y L G E L L E E R K K A E I V L L R A S
I A R Y R K K A L T S G G G A S D E E A L Q R E F E L V Y I G A K N E L L N K R K A E I V L L R A S
I S R Y R K K N L T E G L D E E E Q I A K I L E E L Y K Y R D V E L L E K R K R K E A I V L L N A L T
I A R Y R K K E R T R G G L D D E V Q L R A L L A D D C A E R R E A L L E K R K R K E G I L L H I
I A R Y R K K E L T G G A D D D V Q L R V F V H D V Y L S A K R L L E R K R K E E I L L H I
I A R Y R Q A H T G G L N E E E I Q E I D N L Y Q Y D V E L L N K R K R K E A Y L L N I
I S R Y R K K N V T G G L D S D E E A I A Q I I N D F Y Q Y S D V E L L L K R K R K E I V L L N E
I A R Y R K K E Q T S N A S D E E E L R V F F E E L Y N Y S L K L L K R K R K E E I V L L N E
I A R Y R K K D Q T G G L D D D V Q L R S L E K S L S Y E R D M A T R R R Q K I I L L E L
I A R Y R K K E Q T Q G G L D D D N Q L R Q L L E K S L N Y A R D M A T R R R K E I V L L E L
I A R Y R K K E M T D G A S D E E A L R E F E S I Y A Y A K K L Q S R K R K E V L L R L
V A R Y R K K D Q T G G L E D H E I F G I Q K Q H E L V Q D L I K R K R K E Y I I Q S R
I A R Y R K K D M T G G A T D E E A L R A F D K A Y Q M H L K K V L L V R K Q S E I I K R L
I A R Y R K D F T D G A T D E E A L R I F E E V Y E Y S K K L L L K R K R K E I I I A K L
I A R Y R K K E V T G G L D D T Q L R D L A E R L V Y L R E L L E A R R R D A I I V E S R
V A R Y R K K E Q T G N L D D E V Q I A N T L D R Y E Y L K E L L E D R R R A T I I L L N R S
I A R Y R K K E V T G G L D D T Q L R A N T L A E R L D Y L R E M E K R R R A E I I L L N S
I A R Y R K K E A T G G M S D T N L R A L H H T R L T Q L R A L N E A R R K E A I I R A A S
I A R Y R K K E M T G N L D D E V E I K G I L D A L Q Y E E S L Q K R K R K A D V I L L A K S
I A R Y R K E V T G G L D D D T Q L R T L D S R L L A Y L R E M D D R R K Q D T V I L L K S
I A R Y R K E M T G N L D D E V Q I K S I I D L D K S M T A L A E R K K A T V L L A K
M A R Y R K K E M T G N L D D E V E I K A I L D S L Q Y E E S L Q K R K R K A T D V L L A K
I S R Y R K K E V T E G L D E E T I Y Q I L D V M Y T Y F G E L I K R K R K E A I I I E I
I A R Y R K K E A H H C L D E V L I R D C E R L F H T H L A R E T R R A L E I I I R A
I V R Y R K K E M L N H M D A D A V R D V I Q L V L E E L R H V A K K A H S I L T Q T S
I A R Y R K K E A T G A L T D T H L R A I V S T R L V L E E L R A L E T R A R R E I I L T S
I A R Y R K K E Q T G N M E A A V I R E I K S S L E E L K V V Q E K T K E S H L G K S
I A R Y R K K E K T G G L K D T E I R N D I E S G L T R L R N F E Q R K R K E A I I L T S
I A R Y R K K E M T G S L D D E T L R N L D E R L K Y L R N L Q D R K K D A V L L K S
I S R Y R K K D V T G G L S D E Q I Y K I E D L F N Y Q N E L Q K R K R K E S I L L K I
I V R Y R K K E L I N N L D A D A L R E V V Q Q Q I M E E L Q T L A K K V H V S I Q K
I I R Y R K K E L I N N L D A D S L R E V V Q Q Q T L E E L R A V A K K T Y N T I Q K
I A R Y R K K E L I N N L D A D A L R E V V Q Q Q T L E E L R T V A K K T H G T I Q K
I A R Y R K K E H T G G L D D D E L R E L E D K S L I T E R D L A A R R R K Q I L G L
I A R Y R K K E V T G S L D D A Q L R T L D E R S L R Y L R E L D D D R R A A V I A S
I V R Y R K K E L I N N L D A D S L R E I R Q A L E E L R A V A K K V H A S T I A Q A
I A R Y R Q E M T G G L D D E E I R K V F E K E Y E Y Q R R L E L R K E A T I S A

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

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

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

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

L A R Y R Q G E T G R M D E T Q L R L V M D T A K E V A E V H R R R Q F M L R S

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

	90										100										110										120															
UniRef90_I7LL83	I	D	E	Q	N	K	L	T	P	V	L	S	K	S	I	V	D	A	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M				
UniRef90_Q7NDT8	I	G	E	Q	D	K	L	T	D	E	L	S	K	S	I	V	D	A	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M				
UniRef90_T0JRK9	I	E	E	E	R	A	T	L	T	S	P	E	L	K	K	A	K	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M
UniRef90_D3VRH5	I	E	E	E	K	K	L	T	S	P	E	L	K	K	A	K	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M	
UniRef90_UPI000464B62B	L	E	E	E	N	K	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_UPI00037F4F80	I	R	E	Q	A	Q	L	D	S	P	E	L	K	X	S	A	V	R	E	N	A	G	E	D	L	A	T	X	L	P	Y	K	R	K	P	R	K	R	K	T	R	A	A	T		
UniRef90_A6Q872	L	K	E	R	E	K	L	L	T	G	S	P	E	L	K	X	S	A	V	R	E	N	A	G	E	D	L	A	T	X	L	P	Y	K	R	K	P	R	K	R	K	T	R	A	A	T
UniRef90_F9UKJ9	L	S	E	N	K	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_B3PNC1	L	K	E	K	G	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_D5V6R7	L	Q	E	K	N	F	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_C8Q161	L	T	S	Q	N	K	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_L2F7A7	L	T	E	N	Q	G	K	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M	
UniRef90_D1B1Y3	I	E	E	K	A	T	L	T	P	E	I	L	K	S	A	V	R	E	N	A	G	E	D	L	A	T	X	L	P	Y	K	R	K	P	R	K	R	K	T	R	A	A	T			
UniRef90_UPI0002558ADA	L	T	A	Q	K	I	N	E	S	T	L	L	A	K	I	N	A	C	W	D	K	K	E	L	L	E	D	I	F	L	P	Y	K	S	K	K	K	S	T	K	A	S	Q			
UniRef90_UPI000360615B	L	S	E	R	E	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_A8EWB1	L	S	E	R	E	L	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_K0WAH8	I	T	G	Q	Q	G	K	M	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_UPI0002625F62	I	R	S	Q	E	K	L	T	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_R0FI17	I	K	S	Q	Q	K	L	T	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_W4V9D4	I	E	E	Q	Q	G	K	L	T	T	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_I0UT50	L	T	E	R	P	L	T	T	Y	E	Q	L	L	A	G	L	R	A	A	R	T	S	L	R	E	L	E	D	I	Y	L	P	Y	K	Q	R	K	R	R	T	K	A	Q			
UniRef90_F2K142	L	S	N	I	K	N	T	S	I	E	L	L	K	S	A	V	R	E	N	A	G	E	D	L	A	T	X	L	P	Y	K	R	K	P	R	K	R	K	T	R	A	A	T			
UniRef90_C4L139	L	E	E	L	E	K	N	T	S	P	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_F0LRF7	I	N	Q	D	Q	G	K	L	T	P	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_R6ZBB6	I	Q	A	D	Q	G	K	L	T	P	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_T0T5U0	I	Q	E	Q	Q	G	K	L	T	A	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_S3GE44	L	E	E	L	E	K	A	T	P	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_D4XVU0	L	K	E	R	L	E	K	A	T	P	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_F7XR07	V	F	K	E	G	M	L	T	S	P	T	L	Y	E	H	L	R	S	A	P	T	L	A	L	L	E	D	I	W	A	P	F	K	K	K	K	S	T	R	G	M					
UniRef90_W5NHU7	L	K	K	E	G	V	L	S	S	L	E	E	Q	V	L	R	N	C	K	T	D	E	L	H	V	D	D	I	Y	L	P	Y	K	S	K	S	E	R	K	S	T	K	A	Q		
UniRef90_E3H5G1	L	R	E	D	G	L	I	D	S	P	L	T	Y	E	Q	L	L	A	G	L	R	A	A	R	T	S	L	R	E	D	I	Y	L	P	Y	K	Q	R	K	R	R	T	K	A	Q	
UniRef90_W4XBF9	L	G	K	E	K	K	L	T	K	E	L	R	E	S	F	C	N	S	H	S	M	T	E	L	L	E	Q	L	F	A	P	F	K	A	G	S	K	T	L	A	E	T				
UniRef90_C7HUP8	L	E	N	Q	E	K	L	D	S	E	E	L	K	K	I	E	E	A	K	T	L	T	E	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M						
UniRef90_E5VUH5	L	E	E	Q	Q	G	K	L	T	S	E	L	L	K	K	I	E	E	A	V	T	L	V	T	V	L	E	D	I	Y	L	P	Y	K	Q	K	R	R	T	K	A	M				
UniRef90_UPI0004729C80	L	K	E	K	N	L	L	T	S	E	I	L	K	K	N	I	L	Q	C	K	T	K	S	E	L	L	E	A	I	Y	Q	P	Y	K	E	G	K	T	K	A	Q					
UniRef90_UPI000441E896	L	K	E	E	K	L	S	G	S	L	L	T	A	L	L	N	C	K	T	F	E	E	L	L	E	D	H	V	Y	A	P	Y	K	T	G	S	K	T	K	A	Q					
UniRef90_UPI0002C300D1	I	K	K	E	G	K	M	S	E	C	L	L	K	A	L	L	N	C	K	T	F	E	E	L	L	E	D	H	V	Y	A	P	Y	K	T	G	S	K	T	K	A	Q				
UniRef90_UPI0003C296DD	L	K	K	E	G	K	L	S	G	S	L	L	T	A	L	L	N	C	K	T	F	E	E	L	L	E	D	H	V	Y	A	P	Y	K	T	G	S	K	T	K	A	Q				
UniRef90_L0WLU7	L	A	A	Q	N	V	M	T	D	E	L	A	E	R	V	L	N	T	A	S	T	K	L	E	L	E	D	I	Y	Q	P	Y	R	P	R	R	T	K	A	Q						
UniRef90_M7A534	I	E	E	Q	G	K	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M			
UniRef90_UPI00033334C1	I	K	K	E	E	K	M	S	E	C	L	L	K	A	L	L	N	C	K	T	F	E	E	L	L	E	D	H	V	S	A	P	Y	K	T	G	N	K	T	K	A	Q				
UniRef90_L8GVZ9	L	A	K	Q	G	K	L	T	D	E	L	A	E	T	R	S	C	T	K	L	Q	R	V	E	D	L	Y	A	P	Y	K	E	K	R	R	H	R	G	T	K	A	M				
UniRef90_R6YBK7	L	T	R	L	E	I	V	D	E	R	L	F	A	R	L	R	E	A	S	A	V	E	T	I	E	D	L	M	S	K	Y	K	T	K	T	S	S	R	A	D	R					
UniRef90_A4RY29	L	K	K	D	G	V	L	T	T	E	L	L	Q	K	T	L	R	S	C	K	T	S	V	D	E	D	H	V	Y	S	P	Y	K	K	G	S	K	T	K	A	Q					
UniRef90_UPI0003EDD303	I	K	K	E	G	K	M	S	E	C	L	L	K	A	L	L	N	C	K	T	F	E	E	L	L	E	D	H	V	S	A	P	Y	K	T	G	S	K	T	K	A	Q				
UniRef90_UPI000274043F	I	K	K	E	G	K	M	S	E	C	L	L	K	A	L	L	N	C	K	T	F	E	E	L	L	E	D	H	V	S	A	P	Y	K	T	G	S	K	T	K	A	Q				
UniRef90_X1VH61	I	E	E	Q	Q	G	K	L	T	D	E	L	S	K	S	I	V	Q	C	G	E	N	L	R	E	V	D	D	I	Y	L	P	F	K	R	K	Q	K	R	R	T	K	A	M		
UniRef90_D6X0H8	L	D	K	S	G	V	L	N	E	Q	L	R	R	S	V	V	S	A	L	I	E	L	E	L	E	D	I	Y	L	P	Y	K	I	S	K	R	K	T	R	A	L					
UniRef90_UPI00021A7C13	L	D	K	L	G	Q	W	S	P	A	I	H	S	A	V	V	S	A	K	S	L	D	D	L	E	H	I	Y	S	F	F	K	P	T	R	R	T	L	A	E	T					
UniRef90_Q3EUM7	I	G	E	K	G	K	L	T	G	E	L	R	L	Q	I	V	K	A	T	K	L	Q	E	V	V	D	L	E	D	I	Y	L	P	Y	K	E	K	A	R	T	K	A	M			
UniRef90_U6IQP8	L	S	A	R	G	L	M	T	D	E	L	R	S	N	L	R	H	C	K	T	T																									

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

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UniRef90_D5V6R7	L A L	K G A	S D I	I I A Q R Y A Q D D F J E A R E N I V K N N I L N H G T L Q T K P T K
UniRef90_C8Q161	E V L	S G G	I G A	I I I D E W T Q Q L D L L D K L R V G F G K I A Q I H S R L V G
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UniRef90_E3H5G1	E A L	D G A	R A I	L I D R A L T D P T L A E R L H E R M V A T G M I S S R V I A
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UniRef90_M7A534	A A L	D G A	R Y I	L I L E R A S E D A E L V G S V R E K F W A D G A L R T P R I S
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UniRef90_L8GVZ9	D V I	E G V	K H I	I A E M V K G G A R D L F E R I A Y I N A T R A A E S D S S K
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UniRef90_UPI0003EDD303	D I E	T G V	Q H I	L A D M I A K D K E T L D F I R T L C C Q N R Y I C I V S S K K
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Y N I E E F N Q A K L I T Y D L N Q K Y F K I K T T G K I I H A S I I
Y D I S F N E K P I Q Y E L R N K Y F V N K R T A F I I N D S I I D
V S V R P P E D A A L R E V E R X L T A R A S V A A R E R Q E L L E Q R V A R
V K L S I D T E R A L E T V L K R Y K L R D Y M G S S K T L L L E A Y K
Y D L T Y S T N T I N Y Q L N N K Y F K I K R T G K I I N E A L K
Y T F D Y S V K L V Y D L S N R Y F V N K R T A F I T N D C A R
F K I E V D E D F I C E N I K K Y K I P T W A N S S E L V Y E A Y K
I A I E G D D A P F I Q Q I N H A F N L T A A E P S D R Q Q F L L S L G K
I G I E G E D T A F I L D Q I M Q Q F K L L N L E P S D R L D F L Q N L G K
V K I S Y E M E R V Q S S I E R Y R I P S N A K S S K T Y L L E A Y G
S G I T V D K T T T I A Q L E R N F V K G N S E S S E L I Q Q A L Q
I S L E I N D V Y Y Q S H I D N T Y F R F K K G S Q E A K A L L M E A Y L
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L T I E
V R I Q I H E G L T K S I L R E I W V A K A N V D F Q Q E L H V A L S

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

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

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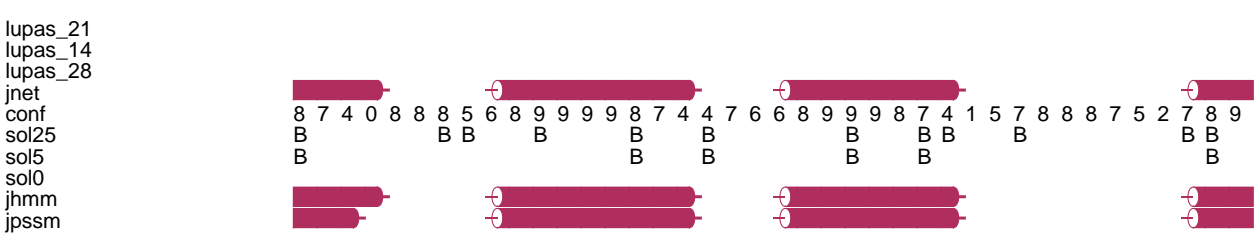
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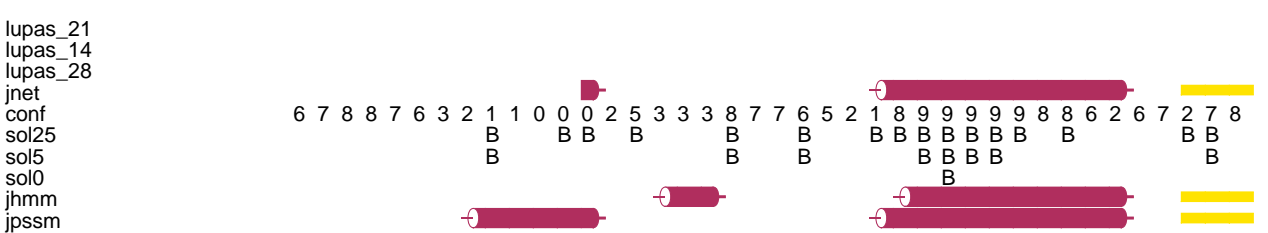
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