

QUERY	1	10	20	30	40																																																		
UniRef90_Q0TQJ7	S	V	H	I	I	E	A	K	Q	G	G	E	I	A	E	S	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_UPI00042651EC	S	S	I	H	I	I	G	A	K	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_Q9RSF8	S	S	I	H	I	I	G	A	K	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_UPI00037D1D99	S	S	V	H	I	I	N	A	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_A6TVU0	S	S	I	H	I	I	G	A	K	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_B1QZN7	S	S	I	H	I	I	G	A	K	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_C5D2F9	S	S	I	H	I	I	E	A	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_C4L2Y4	S	S	V	H	I	I	G	A	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_X1JAW5	S	S	V	H	I	I	G	A	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_D6XWS7	S	S	V	H	I	I	G	A	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_U2ER10	T	P	H	I	I	I	G	A	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_UPI00037B5DD9	S	V	H	I	I	I	A	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_S6A9A9	S	S	H	I	I	I	E	A	K	Q	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_R7I3E7	T	P	H	I	I	I	N	K	A	K	V	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_V6M308	S	V	H	I	I	I	G	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_UPI000255558B	S	T	H	I	I	I	A	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_F0PEL8	S	V	H	I	I	I	E	A	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_UPI0003456876	T	P	H	I	I	I	S	A	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_I3YRR6	S	T	H	I	I	I	E	A	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_UPI000470A130	S	S	H	I	I	I	N	Q	A	K	K	Q	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_D1AIR7	S	V	H	I	I	I	A	A	K	K	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_R6L4E4	T	A	H	I	I	I	S	A	A	K	A	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_G2PMV8	S	T	H	I	I	I	E	A	K	K	E	S	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_U2FR11	T	A	H	I	I	I	E	V	K	Q	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_Q92AF2	S	V	H	I	I	I	E	A	K	K	Q	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_F2F4V1	S	V	H	I	I	I	E	A	K	K	Q	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_R6S1S4	T	P	H	I	I	I	N	A	K	K	Y	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_E0NNI6	T	P	H	I	I	I	R	A	K	E	N	E	F	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_R7CP47	T	P	H	I	I	I	N	S	A	K	K	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_UPI00039AA906	S	H	I	I	I	I	A	A	K	K	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_R6QTF9	T	A	H	I	I	I	A	A	E	K	G	A	F	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_UPI0004071711	S	S	H	I	I	I	N	K	A	K	K	Q	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E
UniRef90_R9MFF5	T	P	H	I	I	I	N	G	A	K	K	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_S0JUU5	T	P	H	I	I	I	E	A	K	A	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_K0J1H7	S	T	H	I	I	I	G	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_R5XCZ4	T	P	H	I	I	I	E	A	K	V	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_J9W740	S	T	H	I	I	I	G	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_R2S632	S	H	I	I	I	I	L	E	G	Q	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_M1ZHQ9	T	H	I	I	I	I	S	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_R5RZ31	T	P	H	I	I	I	N	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_A0A037ZEZ3	T	P	H	I	I	I	N	A	K	P	G	G	E	I	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E	
UniRef90_H2G0F8	T	P	H	I	I	I	K	A	E	R	G	D	F	A	E	T	V	L	L	L	P	G	G	D	D	P	P	L	R	R	A	K	Q	F	I	A	E	T	F	F	L	L	E	N	P	V	V	C	C	Y	N	N	E		
UniRef90_R1GTV4	T																																																						

QUERY	50	60	70	80
UniRef90_Q0TQJ7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI00042651EC	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_Q9RSF8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI00037D1D99	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A6TVU0	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_B1QZN7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_C5D2F9	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_C4L2Y4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_X1JAW5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_D6XWS7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_U2ER10	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI00037B5DD9	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_S6A9A9	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R7I3E7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_V6M308	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI000255558B	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_F0PEL8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI0003456876	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_I3YRR6	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI000470A130	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_D1AIR7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R6L4E4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_G2PMV8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_U2FR11	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_Q92AF2	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_F2F4V1	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R6S1S4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_E0NNI6	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R7CP47	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI00039AA906	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R6QTF9	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI0004071711	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R9MFF5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_S0JJU5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_K0J1H7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R5XCZ4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_J9W740	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R2S632	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_M1ZHQ9	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R5RZ31	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A0A037ZEZ3	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_H2G0F8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R1GTV4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_Q2CI46	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_W1N933	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_N2BQI5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_M2P708	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_H8MFM2	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_C5NVG2	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_G0VPJ4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R6LTE5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A8LXV0	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_T2KHV7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_U2JE92	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_C2GF48	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_C8S3D4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R6GUB5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A4BK16	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R5R9K3	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI0002490873	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI0003B3E677	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI00041F09A5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI000478E033	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_C9P7M1	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_E8M147	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI00037EB453	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_N6W878	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_J3Z487	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI000373C75D	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_I1AXG5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R6E7R8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_D3EHZ4	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_E3FJV8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A0A017HUT1	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R0EPK5	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_F5WUG0	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_R5ZDI3	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_N2A114	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_D4MQB7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_E7MP34	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A0A033UPV9	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI000469D333	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_F2JIZ8	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_G7GPH1	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI000367799C	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_UPI0003B51E0A	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_A6FLY3	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_Z9JPE7	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_B2U698	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_F8HYC1	VVRGM	LVGFT	GGTYK	GGKRR
UniRef90_G9YGK6	VVRGM	LVGFT	GGTYK	GGKRR

QUERY	V	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	H	T	D	S	S	A	N	I	N	R	K	V	R	F	F	N	G	P		
UniRef90_Q0TQJ7	V	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	H	T	D	S	S	A	N	I	N	R	K	V	R	F	F	N	G	P		
UniRef90_UPI00042651EC	V	Q	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	A	N	I	N	R	K	V	R	F	F	N	G	P	
UniRef90_Q9RSF8	C	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	A	N	I	N	R	K	V	R	F	F	N	G	P	
UniRef90_UPI00037D1D99	V	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	M	N	N	R	K	L	V	R	F	F	N	G	P
UniRef90_A6TVU0	V	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	M	N	R	K	L	V	R	F	F	N	G	P
UniRef90_B1QZN7	V	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	M	N	R	K	L	V	R	F	F	N	G	P
UniRef90_C5D2F9	V	Q	T	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	M	N	R	K	L	V	R	F	F	N	G	P
UniRef90_C4L2Y4	A	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	E	M	G	Q	N	K	V	R	F	F	N	G	P
UniRef90_X1JAW5	A	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_D6XWS7	V	K	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_U2ER10	V	D	N	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_UPI00037B5DD9	V	K	T	L	I	R	V	G	T	A	G	A	G	A	M	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_S6A9A9	V	Q	K	A	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	G	L	R	S	V	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P			
UniRef90_R7I3E7	V	E	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	G	L	R	S	V	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P			
UniRef90_V6M308	V	Q	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	G	L	R	S	V	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P			
UniRef90_UPI000255558B	V	R	R	A	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_F0PEL8	V	K	K	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_UPI0003456876	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_I3YRR6	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_UPI000470A130	C	E	Q	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	M	N	R	K	L	V	R	F	F	N	G	P
UniRef90_D1AIR7	C	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	M	N	R	K	L	V	R	F	F	N	G	P
UniRef90_R6L4E4	V	D	Q	V	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	M	N	R	K	L	V	R	F	F	N	G	P
UniRef90_G2PMV8	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_U2FR11	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_Q92AF2	V	K	N	L	I	R	V	G	T	M	G	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	Q	I	N	R	N	T	F	A	G	P				
UniRef90_F2F4V1	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	Q	I	N	R	N	T	F	A	G	P			
UniRef90_R6S1S4	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	Q	I	N	R	N	T	F	A	G	P			
UniRef90_E0NNI6	V	K	N	I	V	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	F	Q	S	T	Y	K	L	L	P				
UniRef90_R7CP47	V	E	K	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	F	Q	S	T	Y	K	L	L	P				
UniRef90_UPI00039AA906	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	I	N	R	R	T	R	F	F	N	G	P		
UniRef90_R6QTF9	V	E	N	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	F	A	A	Q	Y	N	L	L	P				
UniRef90_UPI0004071711	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_R9MFF5	V	E	N	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	F	A	A	Q	Y	N	L	L	P				
UniRef90_S0JUU5	V	D	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	D	Y	P	D	Q	F	D	C	L	P			
UniRef90_K0J1H7	V	K	K	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	G	V	N	Q	H	L	F	F	N	G	P		
UniRef90_R5XCZ4	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	F	A	A	Q	Y	N	L	L	P			
UniRef90_J9W740	V	K	T	I	Y	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	I	Q	N	T	F	A	G	P					
UniRef90_R2S632	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	N	F	A	A	Q	Y	N	L	L	P			
UniRef90_M1ZHQ9	V	Q	N	L	I	R	V	G	T	T	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	Y	A	D	Q	Y	E	N	L	L	P					
UniRef90_R5RZ31	V	E	N	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	S	F	A	D	Q	Y	E	N	L	L	P			
UniRef90_A0A037ZEZ3	A	K	T	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	P	S	R	G	F	F	K	L	P				
UniRef90_H2G0F8	V	K	N	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	R	V	N	R	T	R	F	F	N	G	P		
UniRef90_R1GTV4	V	K	K	L	I	R	V	G	T	A	G	A	G	A	L	Q	K	E	D	I	V	K	V	R	R	D	L	V	L	A	M	S	A	S	A	C	T	D	S	S	S	A	K	I	N	R	T	R	F	F	N	G	P	
UniRef90_Q																																																						

QUERY UniRef90_Q0TQJ7 UniRef90_UPI00042651EC UniRef90_Q9RSF8 UniRef90_UPI00037D1D99 UniRef90_A6TVU0 UniRef90_B1QZN7 UniRef90_C5D2F9 UniRef90_C4L2Y4 UniRef90_X1JAW5 UniRef90_D6XWS7 UniRef90_U2ER10 UniRef90_UPI00037B5DD9 UniRef90_S6A9A9 UniRef90_R73E7 UniRef90_V6M308 UniRef90_UPI000255558B UniRef90_F0PEL8 UniRef90_UPI0003456876 UniRef90_I3YRR6 UniRef90_UPI000470A130 UniRef90_D1AIR7 UniRef90_R6L4E4 UniRef90_G2PMV8 UniRef90_U2FR11 UniRef90_Q92AF2 UniRef90_F2F4V1 UniRef90_R6S1S4 UniRef90_E0NNI6 UniRef90_R7CP47 UniRef90_UPI00039AA906 UniRef90_R6QTF9 UniRef90_UPI0004071711 UniRef90_R9MFF5 UniRef90_S0JUU5 UniRef90_K0J1H7 UniRef90_R5XCZ4 UniRef90_J9W740 UniRef90_R2S632 UniRef90_M1ZHQ9 UniRef90_R5RZ31 UniRef90_A0A037ZEZ3 UniRef90_H2G0F8 UniRef90_R1GTV4 UniRef90_Q2CI46 UniRef90_W1N933 UniRef90_N2BQI5 UniRef90_M2P708 UniRef90_H8MFM2 UniRef90_C5NVG2 UniRef90_G0VPJ4 UniRef90_R6LTE5 UniRef90_A8LXV0 UniRef90_T2KHV7 UniRef90_U2JE92 UniRef90_C2GF48 UniRef90_C8S3D4 UniRef90_R6GUB5 UniRef90_A4BK16 UniRef90_R5R9K3 UniRef90_UPI0002490873 UniRef90_UPI0003B3E677 UniRef90_UPI00041F09A5 UniRef90_UPI000478E033 UniRef90_C9P7M1 UniRef90_E8M147 UniRef90_UPI00037EB453 UniRef90_N6W878 UniRef90_J3Z487 UniRef90_UPI000373C75D UniRef90_I1AXG5 UniRef90_R6E7R8 UniRef90_D3EHZ4 UniRef90_E3FJV8 UniRef90_A0A017HUT1 UniRef90_R0EPK5 UniRef90_F5WUG0 UniRef90_R5ZDI3 UniRef90_N2A114 UniRef90_D4MQB7 UniRef90_E7MP34 UniRef90_UPI00033UPV9 UniRef90_UPI000469D333 UniRef90_F2JIZ8 UniRef90_G7GPH1 UniRef90_UPI000367799C UniRef90_UPI0003B51E0A UniRef90_A6FLY3 UniRef90_Z9JPE7 UniRef90_B2U698 UniRef90_F8HYC1 UniRef90_G9YGK6

130 140 150 160

G F D F A P A A N F D L L K K A Y D A G T E K G L H V R V V G N V L T A D V F Y R
UniRef90_Q0TQJ7 G L D F A P T A N S F K L L K K A Y D T A V E K G Y S P K V V G N V F T T A D S F F Y N
UniRef90_UPI00042651EC N L T D Y A P T A N D F F L L Q T R A Y Q L A K E R L A V D V H V V G N V I F T A D D T A F F Y N
UniRef90_Q9RSF8 E R T F A P T A N D F F L L L R A Y Q L A K E R L A V D V H V V G N V I F M S S D M F F Y N
UniRef90_UPI00037D1D99 G Y D Y S P T A S F F L L K K A Y D R A G T A K G L K L H V V G N V I F S S S D M F F Y N
UniRef90_A6TVU0 G M D Y A P T A S F F R L L K K A Y D T A Q E K G I L T R V V G N V L T V D D T F F Y N
UniRef90_B1QZN7 G R T Y A P T A N F F L L K K A Y D T A V E K G I D L P K V G T I V I Y S S D M F F Y N
UniRef90_C5D2F9 G R D Y A P T A H F D L L R T A Y E V G V E K G I L K L K V V G N V I F T A D D M F F Y N
UniRef90_C4L2Y4 G M D Y A P T A T F F L L H K R A Y M N A E K A G I L P V K V G Q S V E T A D D Q F F Y N
UniRef90_X1JAW5 G M D Y A S T A N F F L L L K K A Y D I A L E K A D I L S V K V G Q S V L T T T D T F F Y N
UniRef90_D6XWS7 G L D F A P T A D F F G L L K K A Y D G A V A K D M N V V K V G N V I F T S D D T F F Y N
UniRef90_U2ER10 P G T F A P T A S F D L L A S A A V Q V A K E K N I L N A V V G N I L S S S D D T F F Y C
UniRef90_UPI00037B5DD9 G Y S F A P T A D F D L L I K T A Y E I L G Q K N L N L R V V G N I L S S S D D T F F Y T
UniRef90_S6A9A9 G C H Y A P S A D W S L L K N A Y D Y A V K M G V T P L V V G Q I A S S S D D T F F Y Y
UniRef90_R73E7 P G L L A P T A D F G L L R T A V E V A E K K Q C K V V V G N I L S S S D D T F F Y T
UniRef90_V6M308 Q L D F A P T A N F D L L L K T A Y E M A T S R N L P V V K V G N I F T S S D S F F Y R
UniRef90_UPI000255558B G R N F A P T A A F S L L L K T A Y D T A V A K G W Q P K V V G P I V S S S D M F F Y T
UniRef90_F0PEL8 K Y D F A P Q I A S F D L L L K T A Y E I A K A K G F T T H V V G N V L S S D D T F F Y K
UniRef90_UPI0003456876 G Y D Y A P T A D F G L L L E N G V R A R D L G I D A K V V G N V L S S D D T F F Y Q
UniRef90_I3YRR6 N C D F S P T A N F F L L F M K A A L Y A K E R N I P I K A G N V L S S S D D Q F F Y E
UniRef90_UPI000470A130 G L Q F A P T A D F F L L H R A Y T I L S R G K D V N I L H V V G N V L S S S D D F F Y N
UniRef90_D1AIR7 G A N F A P T A S Y F L L F A K A T A A A K E K G I L E F K A G N V M S S S D T F F Y G
UniRef90_R6L4E4 P G T F A P T A D Y E L L N R A V E T A K E R Q G T N V V V G N V L S S S D D V F F Y N
UniRef90_G2PMV8 N S D Y S P T A N F F L L F L K K A V D I A E D K G Y D V I N V G N V L S S S D D E F F Y D
UniRef90_U2FR11 P G S Y A P T A S Y T L L L K K A V D I A E D K G Y D V I N V G N V L S S S D D E F F Y D
UniRef90_Q92AF2 G V D F A P V A D F S L L L K K A Y D A G V E K G L S L K V V G N V I F E S A D R F F Y N
UniRef90_F2F4V1 G L D Y A P T A D F D L L L K A Y N N A K E A N L N V R V G N I F E T S T D N F F Y Y
UniRef90_R6S1S4 P G T A V P T A N F D M L N S A Y N K A K E I N M P V V Y V G T I L S T D N F F Y Y
UniRef90_E0NNI6 N G I H S A T A S F F L L L S A Y K S C E K L G V K P H V V G N V L S S S D D I F F Y H
UniRef90_R7CP47 P G T F A P T A S Y F L V A R A V E V A K E K G T P V R V G S V V S D D E F F Y G T
UniRef90_UPI00039AA906 N A N F A P T A N F L L F S T A A L K V A E E K N I K I N A G N I L S S S D D A F F Y T
UniRef90_R6QTF9 P G T F A P T A D F T L L F S T A V E S A K D L G L D L K V G P L L S S S D T F F Y D
UniRef90_UPI0004071711 G A D Y A A T A S F T L L F E K A L A I A S K K N I T I K A G N V L S S S D D F F Y A
UniRef90_R9MFF5 P G A F A P T A D Y G L L L E K A V N A A R E K G A N V K V G N V L S S S D D V F F Y H
UniRef90_S0JUU5 P G H L A P L A D Y D L L L S T A V E S A K E L G T P V R V V G N V I L S S E D A F F Y T
UniRef90_K0J1H7 G L D F A P T A D F F L L L K N A Y V G L E K Q G I D L N L R V V G N V I F S S D S F F Y R
UniRef90_R5XCZ4 P G T Y A P T A D F D L L L E K A V N K A R E L D I D V T I G N V V S S D D V F F Y G
UniRef90_J9W740 G M Y Y S P T A D F G L L L D S A Y H T A Q E M G I N T K V V G N I F A S D R F F Y N
UniRef90_R2S632 P G Q L P A T A S F S L L L E K A V E N T A K A K G Q S F H V V G N I L T T D I F F Y H
UniRef90_M1ZHQ9 K G T F S A I L P S F S L L L R K A V E S A E S L G I E Y K V V G N I L T T D I F F Y P
UniRef90_R5RZ31 G A T Y A P T C N Y D L L L A A A V E S A N E S L G V K M P V V G N I L Y S S D T F F Y
UniRef90_A0A037ZEZ3 E L Q Y A P C A D F F L L E A A A A A A T R R D S V P L V K V V G N I Y S A D D V F F Y D
UniRef90_H2G0F8 G H D F A A I A D F F E M T R N A A V A A A A K A K G I N V R V V G N I F S A D D L F F Y S D
UniRef90_R1GTV4 G H D F A A I A D F F E M T R N A A V A A A A K A K G I N V R V V G N I F S A D D L F F Y S D
UniRef90_Q2CI46 E F N F A P C A D F W S L L S A A H A A A Q E T R D V G V H V V G G I Y S A D D V F F Y D
UniRef90_W1N933 G L D F A A I A D F F L L T R S A H V D A A A Q E L G V A V K V V G N I Y S A D D L F F Y H
UniRef90_N2BQI5 P G T Y A P I A D Y G L L R R A V E S A E K L G V L P T H V V G N V L S S A D V F F Y N
UniRef90_M2P708 P G V Y S A I S S F F L L L E K T A V H Q A K E K N L H Y H V V G N I L S S D I F F Y H
UniRef90_H8MFM2 G H D F P A V A D F T L L A R R A V E A A E K R N K P V R V V G N V I F T S S D I F F Y H
UniRef90_C5NVG2 P G N Y S L T A S F D L L L K A Y N R A Q E M G Q A V H V V G N I L C S E I F F Y N
UniRef90_G0VPJ4 G L N Y A P I A D F T L L R T A Y E Q S V K G G I P A R V V G N I V S S V D R F F Y D
UniRef90_R6LTE5 P G T F A P T A D F F R L L R S S V E V A E R R G I T M R V G P V L L A S D A F F Y T
UniRef90_A8LXV0 G L D Y A P V A D F F G L L R S S V E V A E R R G I T M R V G P V L L A S D A F F Y T
UniRef90_T2KHV7 G A D Y A P T A S F E L L F Q K A V T T A N A K H I A I K A G N V I F S S D D E F F Y A
UniRef90_U2JE92 P G T L S A T C S Y F L L K K A T H V A A A K K G I P V H V V G N D I F S S D I F F Y F
UniRef90_C2GF48 P G T F A P T I G S F R L I E D T Y R R A V S Q G I D V H V V G N V L S S A D V F F Y N
UniRef90_C8S3D4 E L N F A P T A H F G L L K K A A W D A A E R L G V P T H A G T I Y S S Q L F F Y D
UniRef90_R6GUB5 P G T F A P T A D Y T L L L S K C V D T A K A L G R N Y H V V G N V L S S D C F F Y G
UniRef90_A4BK16 G F D Y A A I A D Y S L L L E A S V N A A R S A G K Q V R V V G N V I F S A D L F F Y S
UniRef90_R5R9K3 P G T Y S A I S S Y A L L E R A V N K A K E K M V V V V V G N V I F A S D I F F Y H
UniRef90_UPI0002490873 G I Y Y A P L S D F E L L D R A Y H V I K E M N I P V R V G N I F A S D R F F Y N
UniRef90_UPI0003B3E677 M L H Y A P V P D F G L L L Y T A Y N K A K E M G L K T V V G Q C V S S D R F F Y
UniRef90_UPI00041F09A5 P G T Y A P T G S W K L T R S A L I E Q A K L Q G V T P H V V G N I L S S S D I F F Y N
UniRef90_UPI000478E033 G H D F A A I A D F G L L R A L V S A Q N G I A A K V G N I L F S S D I F F Y H
UniRef90_C9P7M1 G H D F A A V A D Y D L L E T A V N Q A R A H Q I P V K V V G N I F S A D L F F Y T
UniRef90_E8M147 G Y D Y A A V P D F D L L K A C W N Q V I N N D P Q V R V F G P V I F T N D L F F Y G
UniRef90_UPI00037EB453 G H D Y A A I A D Y G L L I E A K A V N S A R A H G I E A K V G N I F S A D T F F Y T
UniRef90_N6W878 P G T Y A P I G S F R L I E A V R E R A K A N G V T S H V V G N I L S S D T F F Y N
UniRef90_J3Z487 D H D F A A I A D F F N L V R N A V D A A H A A G I K V F V G N L I E S T D L F F Y T
UniRef90_UPI000373C75D G M D Y A A T A S W S L L F R K A L A V V I E Q G L P F H A G S I L S S D T F F Y D
UniRef90_I1AXG5 E L N F A P C A D F D L L Q K A V V A A R S I T G A T Y H V V G G L Y S A D V F F Y D
UniRef90_R6E7R8 P G Q Y S P S A S W E L I K K V Y V A S N E T G I E F K A G N V I Y T S D D F F Y
UniRef90_D3EHZ4 G C N Y A P T A D Y G M L I S K A H Q L A Q E K Q V N V F V G N V I Y N S D E F F Y R
UniRef90_E3FJV8 D H D F P A V A D F G L V R R A V E A A E R R S R V A R V G S V I F S T D L F F Y H
UniRef90_A0A017HUT1 E L N L A P V A D F W L L S A A H R A A E G R G T R S H V V G V I H S S D T F F Y N
UniRef90_R0EPK5 D I Y Y A P L A D F T M V L S E K A H Q V A Q A N Q I S V Q V G N V L S E D R F F Y N
UniRef90_F5WUG0 Y E E D V L I E P S K M L N D Q L R A S A Q K L E I P M Q E G R I H S S D D V F F Y R
UniRef90_R5ZDI3 P G D Y S A T P D F Q T M L D H A Y E T A K K L G I P T K A A D V I S S E D N F F Y N
UniRef90_N2A114 G L Y Y A P T A D F S L L D D A Y T A K K E R I I A V K V G N I I S E D R F F Y N
UniRef90_D4MQB7 P G D Y S C I C S F E L L E K A V K A A R E K G L K V H V V G N I L S S S D M F F Y N
UniRef90_E7MP34 N T S D T L K P S A E L N E K K K K A A A N L G M K I T E G L I H S S D D V F F Y R
UniRef90_UPI00033UPV9 P G Y F A P T A D F G L V A S A K K A D E I G A T S H V V G N I F S S D I F F Y N
UniRef90_UPI000469D333 G L D Y A P I A D F A L L R A A V E E T E P L S S T V H V V G P L F S S D Q F F Y S
UniRef90_F2JIZ8 P G T F A P V A S Y S L L L E K A V E K A K E N N V P Y H V V G N I L S S S D I F F Y N
UniRef90_G7GPH1 P G T W A P L S S Y R L L E H A K H L A D E R G A T A H V V G N I L S S D I F F Y N
UniRef90_UPI000367799C N H D F A A I A D Y Q L V A N A M N T A E T Q G I K V K A G N V I F T A D L F F Y S
UniRef90_UPI0003B51E0A P G S F A P I A D F G L L R A A A D G C H E R M G F R Y R V G N L S S S D D V F F Y D
UniRef90_A6FLY3 E L R F A P C A D W G L L R A A A H A A E T R G I T P H I L G G I Y S S D T F F Y D
UniRef90_Z9JPE7 D V T Y A P A A D F F L L A R I A A E V A D Q G M L P V V A G G L F S S D H F F Y N
UniRef90_B2U698 G Y F M A S S A Y F P L L Q K A W S L A Q E A G L E V K A G N V I F A S G D I F F Y Y
UniRef90_F8HYC1 G I Y Y S T L P D F G L L Q G T A Y H T A K D L D I P V V V G N I F A A D R F F Y N
UniRef90_G9YGK6 A L N Y A P L G D F G L L C K A Y T A A G A R R I P V K V G N I L S V D R F F Y D

QUERY UniRef90_Q0TQJ7 UniRef90_UPI00042651EC UniRef90_Q9RSF8 UniRef90_UPI00037D1D99 UniRef90_A6TVU0 UniRef90_B1QZN7 UniRef90_C5D2F9 UniRef90_C4L2Y4 UniRef90_X1JAW5 UniRef90_D6XWS7 UniRef90_U2ER10 UniRef90_UPI00037B5DD9 UniRef90_S6A9A9 UniRef90_R73E7 UniRef90_V6M308 UniRef90_UPI000255558B UniRef90_F0PEL8 UniRef90_UPI0003456876 UniRef90_I3YRR6 UniRef90_UPI000470A130 UniRef90_D1AIR7 UniRef90_R6L4E4 UniRef90_G2PMV8 UniRef90_U2FR11 UniRef90_Q92AF2 UniRef90_F2F4V1 UniRef90_R6S1S4 UniRef90_E0NNI6 UniRef90_R7CP47 UniRef90_UPI00039AA906 UniRef90_R6QTF9 UniRef90_UPI0004071711 UniRef90_R9MFF5 UniRef90_S0JJU5 UniRef90_K0J1H7 UniRef90_R5XCZ4 UniRef90_J9W740 UniRef90_R2S632 UniRef90_M1ZHQ9 UniRef90_R5RZ31 UniRef90_A0A037ZEZ3 UniRef90_H2G0F8 UniRef90_R1GTV4 UniRef90_Q2CI46 UniRef90_W1N933 UniRef90_N2BQI5 UniRef90_M2P708 UniRef90_H8MFM2 UniRef90_C5NVG2 UniRef90_G0VPJ4 UniRef90_R6LTE5 UniRef90_A8LXV0 UniRef90_T2KHV7 UniRef90_U2JE92 UniRef90_C2GF48 UniRef90_C8S3D4 UniRef90_R6GUB5 UniRef90_A4BK16 UniRef90_R5R9K3 UniRef90_UPI0002490873 UniRef90_UPI0003B3E677 UniRef90_UPI00041F09A5 UniRef90_UPI000478E033 UniRef90_C9P7M1 UniRef90_E8M147 UniRef90_UPI00037EB453 UniRef90_N6W878 UniRef90_J3Z487 UniRef90_UPI000373C75D UniRef90_I1AXG5 UniRef90_R6E7R8 UniRef90_D3EHZ4 UniRef90_E3FJV8 UniRef90_A0A017HUT1 UniRef90_R0EPK5 UniRef90_F5WUG0 UniRef90_R5ZDI3 UniRef90_N2A114 UniRef90_D4MQB7 UniRef90_E7MP34 UniRef90_A0A033UPV9 UniRef90_UPI000469D333 UniRef90_F2JIZ8 UniRef90_G7GPH1 UniRef90_UPI000367799C UniRef90_UPI0003B51E0A UniRef90_A6FLY3 UniRef90_Z9JPE7 UniRef90_B2U698 UniRef90_F8HYC1 UniRef90_G9YGK6

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

UniRef90_U3HAA6
UniRef90_E1QWQ8
UniRef90_C5WDK2
UniRef90_W7Z7I3
UniRef90_X2HA06
UniRef90_R6TDF1
UniRef90_UPI00037677F2
UniRef90_R5E7S8
UniRef90_E4KQ30
UniRef90_G2LM25
UniRef90_UPI00040AA6CB
UniRef90_N1ZYPO
UniRef90_UPI00031ADC5A
UniRef90_U2DR67
UniRef90_UPI0002FE14DC
UniRef90_D4IZ15
UniRef90_B0ETA8
UniRef90_I4DZC5
UniRef90_UPI0004797E33
UniRef90_UPI00036F7FED
UniRef90_UPI0003B57512
UniRef90_I0R0Z2
UniRef90_D2AMS2
UniRef90_R6RNG8
UniRef90_G8N9Q5
UniRef90_I0ERJ9
UniRef90_D5E551
UniRef90_R5VG44
UniRef90_A0A023X5Q8
UniRef90_B7C830
UniRef90_H6N5U6
UniRef90_C6X005
UniRef90_R5BR35
UniRef90_UPI000412A7B3
UniRef90_X0XPP3
UniRef90_UPI000472E769
UniRef90_B3PM93
UniRef90_R7IUH8
UniRef90_UPI0003B6F0D9
UniRef90_U2DPN3
UniRef90_G9PMH0
UniRef90_G5GGT2
UniRef90_C0W2V2
UniRef90_R5TQ85
UniRef90_Q8EWW7
UniRef90_UPI0003B572CA
UniRef90_H3NP11
UniRef90_D7BH91
UniRef90_Q98PS4
UniRef90_E2SN28
UniRef90_R5M2Y7
UniRef90_U5MSE3
UniRef90_N2AB61
UniRef90_I5ATB1
UniRef90_R6TW15
UniRef90_H1PWJ7
UniRef90_I5ASZ8
UniRef90_E8TC02
UniRef90_E4QS89
UniRef90_R5SSM5
UniRef90_UPI000417EC67
UniRef90_G9WLP2
UniRef90_K6V4T1
UniRef90_U2WDS4
UniRef90_F0YYG6
UniRef90_D9R414
UniRef90_I3DMU6
UniRef90_E7MLI0
UniRef90_C7NGM9
UniRef90_F9VNS5
UniRef90_C4G909
UniRef90_R6LRV8
UniRef90_X4R8L9
UniRef90_F7V6Y9
UniRef90_R5UIP9
UniRef90_D4GUE6
UniRef90_Q0TU58
UniRef90_R5S725
UniRef90_V4YC12
UniRef90_R7IRM3
UniRef90_E6UF62
UniRef90_F4GI10
UniRef90_B5FER9
UniRef90_R4VTB5
UniRef90_R5GZD5
UniRef90_X4V610
UniRef90_UPI00041DF09B
UniRef90_A3DLR4
UniRef90_UPI0003FB0AE9
UniRef90_S5ZA26
UniRef90_R5JZZ7
UniRef90_H9ZZF2

UniRef90_U3HAA6
 UniRef90_E1QWQ8
 UniRef90_C5WDK2
 UniRef90_W7Z13
 UniRef90_X2HA06
 UniRef90_R6TDF1
 UniRef90_UPI00037677F2
 UniRef90_R5E7S8
 UniRef90_E4KQ30
 UniRef90_G2LM25
 UniRef90_UPI00040AA6CB
 UniRef90_N1ZYP0
 UniRef90_UPI00031ADC5A
 UniRef90_U2DR67
 UniRef90_UPI0002FE14DC
 UniRef90_D4IZ15
 UniRef90_B0ETA8
 UniRef90_I4DZC5
 UniRef90_UPI0004797E33
 UniRef90_UPI00036F7FED
 UniRef90_UPI0003B57512
 UniRef90_I0R0Z2
 UniRef90_D2AMS2
 UniRef90_R6RNG8
 UniRef90_G8N9Q5
 UniRef90_I0ERJ9
 UniRef90_D5E551
 UniRef90_R5VG44
 UniRef90_A0A023X5Q8
 UniRef90_B7C830
 UniRef90_H6N5U6
 UniRef90_C6X005
 UniRef90_R5BR35
 UniRef90_UPI000412A7B3
 UniRef90_X0XPP3
 UniRef90_UPI000472E769
 UniRef90_B3PM93
 UniRef90_R7IUH8
 UniRef90_UPI0003B6F0D9
 UniRef90_U2DPN3
 UniRef90_G9PMH0
 UniRef90_G5GGT2
 UniRef90_C0W2V2
 UniRef90_R5TQ85
 UniRef90_Q8EYWU7
 UniRef90_UPI0003B572CA
 UniRef90_H3NP11
 UniRef90_D7BH91
 UniRef90_Q98PS4
 UniRef90_E2SN28
 UniRef90_R5M2Y7
 UniRef90_U5MSE3
 UniRef90_N2AB61
 UniRef90_I5ATB1
 UniRef90_R6TW15
 UniRef90_H1PWJ7
 UniRef90_I5ASZ8
 UniRef90_E8TC02
 UniRef90_E4QS89
 UniRef90_R5SSM5
 UniRef90_UPI000417EC67
 UniRef90_G9WLP2
 UniRef90_K6V4T1
 UniRef90_U2WDS4
 UniRef90_F0YYG6
 UniRef90_D9R414
 UniRef90_I3DMU6
 UniRef90_E7MLI0
 UniRef90_C7NGM9
 UniRef90_F9VNS5
 UniRef90_C4G909
 UniRef90_R6LRV8
 UniRef90_X4R8L9
 UniRef90_F7V6Y9
 UniRef90_R5UIP9
 UniRef90_D4GUE6
 UniRef90_Q0TU58
 UniRef90_R5S725
 UniRef90_V4YC12
 UniRef90_R7IRM3
 UniRef90_E6UF62
 UniRef90_F4GI10
 UniRef90_B5FER9
 UniRef90_R4VTB5
 UniRef90_R5GZD5
 UniRef90_X4V610
 UniRef90_UPI00041DF09B
 UniRef90_A3DLR4
 UniRef90_UPI0003FB0AE9
 UniRef90_S5ZA26
 UniRef90_R5JZZ7
 UniRef90_H9ZZF2

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

		90	100	110	120																																														
UniRef90_U3HAA6	VQR	I	V	R	V	G	S	C	G	S	L	A	R	D	V	V	I	A	Q	G	A	S	T	D	S	S	V	V	N	R	K	R	F	G																	
UniRef90_E1QWQ8	VDA	I	I	R	V	G	S	C	T	G	S	L	A	R	D	V	V	I	A	Q	G	A	S	T	D	S	S	S	I	N	R	E	L	Y	F	S															
UniRef90_C5WDK2	VKK	I	I	R	I	G	S	C	G	A	Y	T	S	D	K	V	L	A	G	M	G	A	S	T	D	S	S	S	K	V	A	Y	V	Q	S	H															
UniRef90_W7Z7I3	VEN	I	I	R	I	G	S	C	G	A	Y	T	S	D	K	V	L	A	G	M	G	A	S	T	D	S	S	S	K	V	A	Y	V	Q	S	H															
UniRef90_X2HA06	VKN	I	I	R	I	G	S	C	G	A	I	S	D	N	V	N	L	A	G	M	G	A	S	T	D	S	S	S	K	V	N	R	A	L	R	F	K														
UniRef90_R6TDF1	VDA	I	I	R	I	G	S	C	A	G	G	M	Q	S	P	Q	V	K	A	M	A	A	S	T	D	S	S	S	N	Y	G	A	A	F	D	L															
UniRef90_UPI00037677F2	AKT	L	I	R	I	G	S	C	A	G	G	M	Q	S	P	Q	V	K	A	M	A	A	S	T	D	S	S	S	P	S	G	A	R	G	L	F	R														
UniRef90_R5E7S8	VDN	I	I	R	V	G	S	A	G	A	F	K	D	D	V	I	N	L	A	Q	A	A	S	T	D	S	S	S	N	Y	M	S	Q	F	K	L															
UniRef90_E4KQ30	VET	I	I	R	I	G	S	C	G	A	G	M	Q	S	P	Q	V	K	A	M	A	A	S	T	D	S	S	S	N	L	R	N	L	K	F	D	N														
UniRef90_G2LM25	VKK	I	I	R	I	G	S	C	G	A	V	R	D	D	I	N	L	A	G	M	G	A	S	T	D	S	S	S	K	V	N	R	L	K	F	N	G														
UniRef90_UPI00040AA6CB	AKT	L	I	R	V	G	T	C	G	A	V	R	P	H	L	G	L	A	M	T	A	S	T	D	S	S	S	S	P	S	D	G	I	F	G	L	L														
UniRef90_N1ZYPO	VES	I	I	R	V	G	S	A	G	G	L	H	P	L	D	V	L	A	M	A	V	S	T	D	S	S	S	S	N	Y	A	L	H	L	L	L	L														
UniRef90_UPI00031ADC5A	VKK	L	I	R	V	G	S	C	G	A	V	R	D	D	I	N	L	A	T	G	A	S	T	D	S	S	S	S	T	N	R	T	R	L	L	A	L	A													
UniRef90_U2DR67	VKT	L	I	R	I	G	T	C	G	G	M	L	P	D	M	Q	L	M	D	L	I	L	L	L	L	L	L	G	I	N	R	H	I	F	N	L	L														
UniRef90_UPI0002FE14DC	CRK	L	V	R	I	G	S	C	C	G	L	T	P	E	L	N	G	L	N	D	I	V	L	L	L	L	L	L	A	S	E	S	T	S	N	Y	A	L	A	Q	F	D	L								
UniRef90_D4IZ15	VEN	I	I	R	I	G	S	A	G	S	Y	T	D	E	K	L	N	L	A	Q	A	A	F	S	T	D	S	S	S	N	Y	F	A	K	Y	T	N	G	L	L											
UniRef90_B0ETA8	VKR	I	I	R	I	G	S	A	G	A	F	D	E	S	L	V	K	L	A	Q	A	A	S	T	D	S	S	S	N	F	E	R	Q	Y	D	I	L	L	L												
UniRef90_I4DZC5	VKR	L	I	R	V	G	T	A	G	A	Y	T	D	E	K	L	N	L	A	K	D	A	A	S	T	D	S	S	S	N	I	R	N	D	W	P	L	L	L												
UniRef90_UPI0004797E33	VEA	I	I	R	V	G	S	A	G	A	Y	T	D	E	K	L	N	L	A	K	D	A	A	S	T	D	S	S	S	Y	A	K	R	L	M	G	V	L	L												
UniRef90_UPI00036F7FED	VKR	L	I	R	V	G	T	A	G	S	Y	T	D	E	K	L	N	L	A	L	S	A	S	T	D	S	S	S	G	I	N	N	A	I	F	N	L	L	L												
UniRef90_UPI0003B57512	VRT	M	I	R	V	G	S	C	G	G	M	A	P	D	V	L	N	M	R	D	I	L	L	L	L	L	L	A	Q	G	S	S	T	D	S	S	A	V	A	N	T	F	A	L							
UniRef90_I0R0Z2	VQK	A	I	R	V	G	T	C	G	G	L	A	P	D	T	K	L	R	D	V	I	L	L	L	L	L	L	L	A	M	T	S	S	T	D	S	S	S	Q	V	A	N	T	F	A	L					
UniRef90_D2AMS2	VDN	I	I	R	V	G	S	A	G	S	Y	K	A	E	F	K	V	Y	D	V	V	L	L	L	L	L	L	L	I	E	E	S	Y	C	E	T	N	F	I	E	L	V	T	G	L						
UniRef90_R6RNG8	VKK	L	I	R	V	G	T	A	G	A	M	Q	S	T	T	H	L	R	D	L	V	V	L	L	L	L	L	L	A	M	G	A	C	T	G	T	G	V	T	K	E	L	L	L	L						
UniRef90_G8N9Q5	ARV	L	L	R	V	G	T	C	G	A	V	R	D	G	A	L	A	P	G	D	L	V	V	L	L	L	L	L	L	A	Q	G	A	V	P	L	D	G	A	T	R	Q	Y	L	L	L					
UniRef90_I0ERJ9	VKE	L	L	R	I	G	T	C	G	A	V	S	Q	K	V	A	L	K	N	I	L	L	L	L	L	L	L	L	A	T	G	A	S	T	D	S	S	K	T	N	R	V	R	F	L	L					
UniRef90_D5E551	VDT	I	I	R	I	G	S	A	G	S	Y	K	K	D	L	G	L	V	E	V	L	L	L	L	L	L	L	L	A	T	E	S	I	A	D	S	S	S	F	R	E	V	L	L	L						
UniRef90_R5V644	VQE	I	I	R	I	G	T	C	G	A	V	T	P	D	L	K	V	P	E	L	I	L	L	L	L	L	L	L	L	A	N	D	V	Y	S	L	S	N	F	A	Y	N	Y	N	S	L	L				
UniRef90_A0A023X5Q8	AKN	L	L	R	V	G	T	C	G	G	Y	N	R	E	M	Q	L	G	D	L	V	I	L	L	L	L	L	L	A	T	A	A	T	S	P	Q	D	G	T	V	L	S	L	T	Q	L	L				
UniRef90_B7C830	VDA	I	I	R	V	G	S	T	G	S	Y	S	E	R	L	P	M	K	S	V	A	L	V	K	G	S	I	S	E	S	T	G	A	L	A	Q	S	G	L	L	L	L	L	L	L	L	L				
UniRef90_H6N5U6	VEN	I	I	R	V	G	S	S	G	Y	S	P	E	L	K	I	K	V	G	D	V	V	L	L	L	L	L	L	L	V	T	E	S	I	A	D	S	G	A	F	S	K	I	V	L	L					
UniRef90_C6X005	VET	I	I	R	I	G	T	C	G	A	Y	T	P	E	L	K	I	F	D	V	V	L	N	V	E	N	A	A	S	E	S	T	Y	A	K	F	A	W	E	L	L	L	L	L	L	L	L	L			
UniRef90_R5BR35	VDK	I	I	R	I	G	S	A	G	G	I	A	Q	D	D	L	R	V	M	D	V	L	I	G	L	G	A	C	H	T	D	S	S	N	Y	A	H	Q	Y	Q	L	L	L	L	L	L	L	L			
UniRef90_UPI000412A7B3	VER	I	I	R	V	G	T	A	G	G	I	A	P	D	D	L	V	K	V	G	D	V	L	I	A	T	G	A	S	T	D	S	S	H	I	N	K	L	H	F	Q	L	L	L	L	L	L	L			
UniRef90_X0XPP3	VKA	L	I	R	V	G	T	C	G	A	L	A	P	Y	L	K	I	G	D	I	V	L	L	L	L	L	L	L	P	M	T	S	S	T	S	S	H	I	N	K	L	H	F	Q	L	L	L	L			
UniRef90_UPI000472E769	VDN	I	I	R	I	G	S	A	G	A	Y	T	D	E	L	N	L	F	D	V	I	L	L	L	L	L	L	L	V	K	N	C	F	G	E	N	T	Y	A	K	T	M	G	V	L	L	L				
UniRef90_B3PM93	VEA	I	I	R	V	G	S	A	G	S	F	K	A	E	I	K	N	L	F	D	V	I	L	L	L	L	L	L	L	A	K	D	A	Y	G	E	N	V	A	F	R	E	S	M	I	L	L	L	L		
UniRef90_R7IUH8	VEN	I	I	R	I	G	S	C	G	S	Y	K	P	E	L	K	L	F	D	I	L	L	L	L	L	L	L	L	L	A	E	N	V	F	S	E	G	N	F	A	L	I	T	L	N	N	L	L	L		
UniRef90_UPI0003B6F0D9	VKR	I	V	R	I	G	T	C	G	G	I	A	P	Y	L	K	L	F	D	V	I	L	L	L	L	L	L	L	L	A	E	N	V	F	S	E	G	N	F	A	L	I	T	L	N	N	L	L	L		
UniRef90_U2DPN3	VDN	I	I	R	L	V	G	S	T	G	S	Y	S	E	R	L	P	M	K	S	V	A	L	V	K	G	S	I	S	E	S	T	G	A	L	A	Q	S	G	L	L	L	L	L	L	L	L	L	L	L	
UniRef90_G9PMH0	VER	I	I	R	V	G	T	C	G	A	I	S	P	K	V	L	E	V	G	D	V	V	L	V	A	T	G	A	H	T	D	S	S	M	N	Q	L	R	I	P	L	L	L	L	L	L	L	L	L		
UniRef90_G5GGT2	VKN	L	I	R	I	G	T	A	G	S	L	M	S	D	V	H	I	K	D	V	V	L	F	A	G	M	G	A	C	H	T	D	S	S	N	Y	A	P	N	L	M	G	L	L	L	L	L	L	L		
UniRef90_C0W2V2	VER	I	I	R	I	G	T	A	G	G	I	L	G	S	D	V	K	V	G	D	V	V	L	I	A	T	G	A	H	T	D	S	S	A	M	N	Q	L	R	I	P	L	L	L	L	L	L	L	L	L	
UniRef90_R5TQ85	VDR	I	I	R	I	G	T	C	G	T	S	N	P	N	V	K	L	D	T	I	L	L	L	L	L	L	L	L	L	A	E	S	S	Y	T	E	S	S	N	Y	A	F	M	F	N	K	L	L	L		
UniRef90_Q8EWW7	VDI	I	I	R	I	G	S	A	G	S	Y	T	K	D	I	N	V	G	D	L	V	L	L	L	L	L	L	L	L	L	T	K	K	A	Y	S	E	S	T	Y	A	K	Y	L	G	L	L	L	L		
UniRef90_UPI0003B572CA	VDK	I	I	R	I	G	S	A	G	S	Y	K	E	N	L	D	L	Y	E	V	L	L	L	L	L	L	L	L	L	V	E	S	S	F	S	D	S	Y	A	S	E	L	V	L	L	L	L	L	L		
UniRef90_H3NP11	VKT	I	I	R	V	G	T	A	G	G	L	Q	P	H	L	K	V	R	D	V	I	V	L	L	L	L	L	L	A	T	A	A	N	T	A	S	S	V	V	K	G	K	F	G	L	L	L	L	L		
UniRef90_D7BH91	AKV	L	V	R	I	G	T	C	G	V	F	S	E	T	L	K	A	P	E	L	V	V	L	L	L	L	L	L	L	A	Q	A	S	I	P	L	D	G	T	T	R	Q	Y	L	L	G	L	L	L	L	
UniRef90_Q98PS4	VEK	L	I	R	V	G	T	C	G	S	Y	V	K	D	L	N	L	F	D	V	V	L	L	L	L	L	L	L	L	A	K	S	A	Y	T	D	N	Q	N	T	R	L	V	L	L	L	L	L	L	L	L
UniRef90_E2SN28	AKK	F	I	R	V	G	T	C	G	A	M	Q	P	E	I	L	G	G	D	L	I	L	L	L	L	L	L	L	L	A	T	G	A	V	R	A	E	G	T	S	R	E	Y	A	L	L	L	L	L	L	
UniRef90_R5M2Y7	VEK	L	I	R	I	G	T	S	G	T	I	H	K	D	V	K	L	L	D	V	V	L	L	L	L	L	L	L	L	A	T	S	A	Y	S	V	S	T	F	P	L	L	F								

UniRef90_U3HAA6 G F D F F A A L A D Y R L L E R T V R R A D E S G Q P V H V G N V F S A D L F Y F Y N S
UniRef90_E1QWQ8 P V K L A P T A D F E M L R G A V T S A A E E L G V G Y K V G N Q V V S S T D D L V F F Y N S
UniRef90_C5WWDK2 N H D Y N A Q L A D S F G M L H E K A V V A A K K I G S I Q K V H L T A K N L F H S S T D D L V F F Y H
UniRef90_W7Z7I3 V E G E N T A I L P S F L L N E K I E A A A K K I N Q P L L T A K N L F H S S T D D L V F F Y H
UniRef90_X2HA06 D S D F A A I A D F D L T C N A V N A A K K I L G V N V K V G N L F S S A D D L V F F Y S
UniRef90_R6TDF1 P G Y L T P V A D Y D G M L A N A V E S A A K E L G L S A K V G P G V Y S T S D D T H F F Y Y D
UniRef90_UPI00037677F2 G L N F A P C A G I Y G L L A R A A H D A A G E I L A A G V V G G I V S S S D D T H F F Y Y D
UniRef90_R5E7S8 P G T F A P V G D Y N L I S T A A G K A E E L G L N V R V G N I L S S T D S F F Y T N
UniRef90_E4KQ30 G Q V H Y A I A D F F K L D T L T Y H K A M L P A K N I H S I G N V F F T T D D S R F F Y N
UniRef90_G2LM25 N Q D F S A I A D F D M I C N T V L I S R K M N I K V S I G N V F F T T D D S R F F Y N
UniRef90_UPI00040AA6CB Q L R F A P C A D W G L L Q S A A R A C D V K G V S P H I G G I F S S D A F F Y D
UniRef90_N1ZYP0 P G Y L S P C G D Y S L I A K A A E Y G R K H K I P A R F G S I F M S S E G L F F Y Y
UniRef90_UPI00031ADC5A G Y D Y A A V P D F F E L L K A C W E T A D S H K I P A R F G S I F M S S E G L F F Y Y
UniRef90_U2DR67 G D F A P T A D F F E L L N K A Y E I A K E R E I K T Y T G L I L S S D M F F Y G
UniRef90_UPI0002FE14DC P G T W A P T G S F R L L D H V Y R G A A E E R G I L T A K A H A G N V S S D D T F F Y H
UniRef90_D4IZ15 V E E K T L Y P S K K I N D I A I A K A K E L G I D A K A G N V H S S A D D Q F F Y T
UniRef90_B0ETA8 P G K Y S C I A S F Q L C R E A V D A A E K L G Y R Y K V G N I Y S S A D D Y F F Y
UniRef90_I4DZC5 Q Y D F P Q I A S F H L L D K A Y H I A K G F G M T T H V G N V S S D D V F F Y S
UniRef90_UPI0004797E33 T G R K T L P A T K S L N R V L L S R K M N I K V S I G N V F F T T D D S R F F Y N
UniRef90_UPI00036F7FED D V N Y A P T A N F D L L M K A V T Y T K E T N I P I K V G N V L S S S D D L V F F Y E N
UniRef90_UPI0003B57512 G V H Y A P L A N F E L L D T A Y Q I A K Q K G L D V K V G D I F A A D D R F F Y N
UniRef90_I0R0Z2 G L D F A P S A D Y E L L E K A V A K A R E L E V R F H V G G I L A S G D L V F F Y
UniRef90_D2AMS2 S K T I D V R S S E E L L N K E L I A S A Q R Q D I E L K K A K A H C T D D V F F Y R
UniRef90_R6RNG8 P D G Y S C I A D F F G L L K A A L E A E Q R G L S Y H V G N V L T S D D V F F Y A
UniRef90_G8N9Q5 G R P Y A P L P E L F R A L W D Q A R K G Y P H H V G L V A T S D D V F F Y A
UniRef90_I0ERJ9 N H D L S A T P S F E L S L K A Y Q M A K R L N I D L K V G N V F S S D D F F Y S
UniRef90_D5E551 D D S K I A K P S K K E T N N D I R D I A K K L G V K L H E G R I H S S D D V F F Y
UniRef90_R5YG44 Y D K N I V Y P S K E L N D K V I A T A K E Q G K D L H V G T V L T C D D V F F I N
UniRef90_A0A023X5Q8 G V P Y S P A A D F K L V H A A F H A A E A A G R K T F L G P L V S G D L V F F Y D
UniRef90_B7C830 D T D T M Q Y P D E S L N K L T E S V S Q E V S I P V V K T N T H S S E D V F F Y Y
UniRef90_H6N5U6 G E N N K A F P D E S L N E R L K S S A K A L N H K L L E S K M H S S E V F F Y W
UniRef90_C6X005 I E E E I L S S Q G N T F A V I N D T A R N L S R E L K T T N I H S S D I F F Y R
UniRef90_R5BR35 P G T F A P I A S F R L V E K A V D V A R R Q G T P V H V G N I L S S D D V F F Y N
UniRef90_UPI000412A7B3 G V N F S A V A D F R L A N A A W E A A R R L D A T V H A G A I L S R D H F F Y F
UniRef90_X0XPP3 G M D Y A P A V S F D L L K A Y E A A K E R G A R V F V G G N F A S D T F F Y N
UniRef90_UPI000472E769 S G R K K L P A T K A L N T K I K R S A Q K L N I K I T E G E T I H S S D V F F Y R
UniRef90_B3PM93 P N D N I A T P D K K L N A L I L K N A K E L N M P I K E E R V L T E E A F Y T
UniRef90_R7IUH8 E D C H I V S G N Y E L N K I L E E T A K E N N I S L C K G N T V C T D C F D L
UniRef90_UPI0003B6F0D9 G V T L S H A P D F A L R K V V E H G E A T G K E L H V G P L F T T D S F F Y N
UniRef90_U2DPN3 Y D K D L T Y P S T Q L N A Q V L K E S A Q R L V K E L V E G V V H S S D D V F F Y Y
UniRef90_G9PMH0 G I N F S A V A D F H L A Q A A Y E P Q A G V D G T V H L G T V I S S R D H F F Y F
UniRef90_G5GGT2 K G T F A P I C S Y F L L E K A V A A A K K L G L N Y H V G N I L S S D M F F Y G
UniRef90_C0W2V2 G V S F S A V A D F R L A M A A Y Q A G V E L G D R L H A G T I L S R D H F F Y F
UniRef90_R5TQ85 E H I N L E K P S I I N D K L K A T A S L K G I K L L E G D V M T C D D V F V D
UniRef90_Q8EWW7 E A K D S T E G S D E L N D V I R K T A I E N N I K L T D V V V H S S D I F F Y G A
UniRef90_UPI0003B572CA G E K N I H Y P S K E L N K E I E K S A K D L E I N I K L T D K G R V H S S D V F F Y A
UniRef90_H3NP11 E I Q F S P T P T F E L L K T H E K A E E L G I K A H F G P V F S S D E F F Y R
UniRef90_D7BH91 G K P Y A P V P D Y A V L E Q I V S G A A R R L L A Y P H H V G I L S T E D A F F Y S
UniRef90_Q98PS4 G A E N V F Y P S K E L N E Q I S K I A K D L L I P I K E I Q V H S S D V F F Y A
UniRef90_E2SN28 P I E Y P A V A D Y D I V Q V L K E S A K N E N F R F H T G I V Q C K D S F F Y G
UniRef90_R5M2Y7 D T D K E Y E S S E I N N L I I E K G K E L G V N I K A G K I T S D D V F F Y V
UniRef90_U5MSE3 P I E F P A V A N F E I A N A L V Q A S K E L N K T Y H A G V V E C K D S F F Y G
UniRef90_N2AB61 P I E F P A V A D V G I V H A L I E A A K K L E Q R Y H V G I V V Q C K D S F F Y G
UniRef90_I5ATB1 P G S I A P T A D W G L L R D A V N I A D E M N V R T S V G S V F S S D F F F Y Y
UniRef90_R6TW15 E D T I F P E C S N V L L E K L L E I D R K N N L N K Y G E V F T S D D V F F Y S
UniRef90_H1PWJ7 P I E F P A V A D I D I V N A L I Q G A K D L G E K Y H T G I V Q C K D S F F Y G
UniRef90_I5ASZ8 P I E Y P A V A D Y R V L R A M T E A A E T L G Y R Y H T G V V Q S K D S F F Y G
UniRef90_E8TC02 G L Y G P A G P A L L A S S R A K A V E F G I D H H V G L T V C S D I F F Y H
UniRef90_E4QS89 G K K H L A H P N P G L L A N L F H S A T K L G L N P L Y T R I H S S D V F F Y
UniRef90_R5SSM5 H F N T S A S S N F L N D V A H E V A K D I D I N I K E G T V Y S S D I F F Y
UniRef90_UPI000417EC67 G V N F S A V A D F H L A M A A H A E A V A S G I R T R T G T I L S R D H F Y L
UniRef90_G9WLP2 P I E W P A T A D F F V T K E L Y D A A N R L G F K N H V G V V Q C K D A F F Y G
UniRef90_K6V4T1 G L N F S A T A D F F L L A A A M G A A A G R E G V H V G T V L S K D H F F Y V
UniRef90_U2WDS4 P I E W P A V P D F H L T E L L V R A A E T L G F R Y H V G V V Q C K D A F F Y G
UniRef90_F0YYG6 P I E F P A V P D F G V T N A L V K A A K R L G K T S H V G V V Q C K D S F F Y G
UniRef90_D9R414 D C F P A V P D F E L T R V L I D T A K D M K D E I Y Y G I N A S D D A F F Y G
UniRef90_I3DMU6 P I E Y P A V A D L E V L T N A L V E A A K Q L K E K Y H V G V V V Q C K D A F F Y G
UniRef90_E7MLI0 P I E Y P A V P D L D L V N A L V E G A R V E H P Y H T G V V E C K D A F F Y G
UniRef90_C7NGM9 G L N F S A T A D F E A A A W A R D Q V T E G S V L T G P I V S K D H F F Y W
UniRef90_F9VNS5 Q A C V S A T P D F E I T M A L Y N S F K N K G L G V F H L G N V F S S D A F F Y A
UniRef90_C4G909 P I E Y P A V A D F T L L C A L R S A A E K M G V R Y H T G V V E C K D S F F Y G
UniRef90_R6LRV8 P I E Y P A V A D L M V V N A L V S A A K E K D C E F Y T G V V Q S K D A F F Y G
UniRef90_X4R8L9 P E T H F S A V A S Y N L V K A A A D A A G D D P D V V V A P V I S R D R F F Y N
UniRef90_F7V6Y9 P I E F P A V P S Q D V V E A L R R G A D S C G F R A Y T G V V Q C K D S F F Y G
UniRef90_R5UIP9 P V E Y P A V P D F T V T T A L V Q A A K K R G I R H H V G V V Q S K D S F F Y G
UniRef90_D4GUE6 E V Y P A V P D Y D V L T S L V Q A S A E A N D E D V H V G P I V S S D A F F Y N
UniRef90_Q0TU58 P I E F P A V A N L D V I N A L V K G A K E L K V P Y H T G V V Q S K D S F F Y G
UniRef90_R5S725 P I E Y P A V A D L N V I N A M M T S A E K L K L K Y H V G V V Q S K D S F F Y G
UniRef90_V4YC12 G V Y P A V A D Y D V L S G L V D G A E A N E E T V H T G A I V S S D A F F Y N
UniRef90_R7IRM3 P I E Y P A V T D L A V T N A L A A A K D L G Y T C H I G V V Q S K D A F F Y G
UniRef90_E6UF62 I G Y P A A A D Y S V V R A L A D S A E E L G K R Y H V G V V H S K D S F F Y G
UniRef90_F4GI0 P I E F P A V S D F S V A Q S L K A A E K L G L R H H M G I V Q C K D A F F Y G
UniRef90_B5FER9 P M E F P A V A D F D V A T A M R K A V V D Q G A N V H T G V T A S S D T F F Y P
UniRef90_R4VTB5 D A T V P A V P T Y E V L S T L V D V A E A E D E A V H V G P I A T D D A F F Y A
UniRef90_R5GZD5 D N Y P A V A D F E V V C A L K A A A D E L G N R A H V G V V I A S D D N F Y G
UniRef90_X4V610 P M E F P A V A D F D C T T A L V N T A K E L G S K L H V G V V T A S S D T F F Y P
UniRef90_UPI00041DF09B P I E F P A V A D F K I T K A L V D A A E A K E F P Y H V G V V E C K D S F F Y G
UniRef90_A3DLR4 P E Y P A V A S D V T M A L I T A A E E L G V K Y H V G L T A S T D S F F Y V
UniRef90_UPI0003FB0AE9 A S F P A A A N F H C T Q A L Y Q S A Q E L G A T T H I G I T A S T D T F F Y P
UniRef90_S5ZA26 V E Y P A F A H F E V V S A L I H A A E S L G A R Y H V G I V A S T D S F F Y T
UniRef90_R5JZZ7 P I E Y P A V T D L E V T N A L I A A A K E T G V T A H A G V V Q S K D S F F Y G
UniRef90_H9ZZF2 P E Y P A V S S Y E V L L A L V E A A E S L N K R Y W V G I T A S T D S F F Y L

UniRef90_U3HAA6 P D P A W A A R M T G M G V L A V E M E A A G L Y G V A A E L G R Q A L A V L T T
UniRef90_E1QWQ8 P R P D A A R R Y R D L G L L C V E M E T A G L Y T E A A Q A S G R K K A L I S S I L T
UniRef90_C5WDDK2 A D K Q L H N T F L N E K Y E G L L G V E M E M E S Y A G L F A V A A E L G G K K A A C I L C
UniRef90_W7Z7I3 E S N D Q L H N T F L N E E E G C V G V E M E S Y A G L F H N A K V L G K H A A C I L T
UniRef90_X2HA06 V D P E M F D I M E K Y N I L G V E M E M E A A G L Y G V A A E Y G A K K A L A I S I L C
UniRef90_R6TDF1 P T T L A N D K A R D L G H L A V E M E M E A A G L Y W T A A S C H K H K A L A I L T
UniRef90_UPI00037677F2 E R P D I L E A E M T R H G V L G V E M E M E A A E L Y T L A A A R Y R V R A L A V L T
UniRef90_R5E7S8 Y D P S D N D A W K R M G V L C V D E M E A A A L Y A N A A A K L S K K A L C M L T
UniRef90_E4KQ30 Q E M D K E K L A A Y G V L G V D E M E A A A G M Y A V A A K F H K R A L A I C C T
UniRef90_G2LM25 D D N K M L D L L A K Y N I G V D E M E T A A G L Y S V A A A E F K A K A L A I C C T
UniRef90_UPI00040AA6CB E R P D M L E T L A R H G V L A V E M E M E A A E L Y Q V A A R H G A K A L A V L T
UniRef90_N1ZYPO S E E W N R K W A G L G M L A V E M E M E S A A L Y T L A M E A S G K K A V L A I C C
UniRef90_UPI00031ADC5A K i D P N L M P A L L K M N I L A C V E M E T S A A L F A I A A E S H V Q A L A I L T
UniRef90_U2DR67 E N K E D S E M W K K Y G V I A G V E M E T G A L L Y T I A A A K Y R C R A L A I M L S
UniRef90_UPI0002FE14DC A Q D D T T Q R W A R M G V L A V E M E M E T V G L Y A N A A A A G V E A L A M F T
UniRef90_D4IZ15 E M G G W K A V K E R C Q C D C V E M E S F A L L F N N A N M L G K N A T C M L T
UniRef90_B0ETA8 D D G D H S G A W K K M G V L A V E M E M E A A A L Y M I A A A R A R K Q A L C M L T
UniRef90_I4DZC5 N Y G E K N I E L G K M G A V L G V E M E A A A L Y Y L A A A Q Y N V E A L G I M T
UniRef90_UPI0004797E33 N P D E F K D L Y E K H N A V C V E M E S F A L L F T N A K A L G K K A C A C I L T
UniRef90_UPI00036F7FED H D P R A Y K K W A E Y G V K C V E M E M E A A G L Y S I A A K F N I E A L A I L T
UniRef90_UPI0003B57512 D E I D M K K L A D F G V L G T E M E M S A G L F Y L L G A K L G F R A L S I V T
UniRef90_I0R0Z2 D T T D S L E Q W K K L G L L A L E M E T N Q Y T L L A A R F G R K A L S I V T
UniRef90_D2AMS2 K N S D D Y K K I K K Y N C D L V E M E T A A L F A T A A E L G K K A S A V V T
UniRef90_R6RNG8 P E K A K K E G Y E D V G V L A A A E M E T A A L F A N A A L A G A Q A L S I L T
UniRef90_G8N9Q5 T T P E G A K A W A R Y G V L A F E M E A S A L F L I G K L R G V K A G A L L T
UniRef90_I0ERJ9 F E T H A F D L L A K Y N H L G I E M E M E A A G L Y A T A M E L N A K A L C C S
UniRef90_D5E551 S S V P L E Q R I Q N T I D A L C V E M E S Y A L F E T N A E K L G K N A A C I L T
UniRef90_R5VG44 M D N V L K R I P G N T K P I A E E M E M E A Y A L V H V A N S F N R K A T A I V T
UniRef90_A0A023X5Q8 P T E D P G A Q W S G L G V L A V E M E M E A A A I F T I A A M K G V S A G C C I L T
UniRef90_B7C830 E L E Q P E K M V A E E Q D D A L C V E M E S F A L F H N A K V L N K K A A C C I L T
UniRef90_H6N5U6 D T P L E E V V A N T G A D C V E M E S Y A L F V N A K K L G K K A A C C I V T
UniRef90_C6X005 K N P G T P L I A E K Y N C T A V E M E M E A F A L F A N A Q Y L G K N A A T L L T
UniRef90_R5BR35 E V S S E Q W K K M G V L C V E M E M E A A A L Y M N A A R A R G K Q A L C I L T
UniRef90_UPI000412A7B3 T P E G Q T E K L A A Y G V L G V E M E M E A A A L Y G V A A E F G K Q A L A I L T
UniRef90_X0XPP3 D D P E W W K K W A A Y G V L V V E M E T S G L Y T L A A K F K I R A L S I L T
UniRef90_UPI000472E769 M N P D Y K E T Y E K H G A L C V E M E S F A L F A N A I A T G K N A A C C I L T
UniRef90_B3PM93 T K S A Q D R V E L S G G A V C V E M E S Y S L F S V A E R L N K K A A C C I L T
UniRef90_R7IUH8 Y M T D V N K F L K D F N P V S A E M E M E A F A L F Y V A K V L N K K A S C I M S
UniRef90_UPI0003B6F0D9 P D T A L V P N L L K Y G T I G I D M E M E A A G L F A V A R K E G F D A L M V G T
UniRef90_U2DPN3 H G V D I L E K L N R E H G C I C I D M E S F A L F H N A A L N G N K R A A T L L T
UniRef90_G9PMH0 T P Q G Q T E A L A A Y G V L G V E M E M E A A A L Y G V A A E Y G K Q A L A V L T
UniRef90_G5GGT2 P Y K E I S M D W S D M G V M A V E M E M E A A A L Y T N A A A G G N A L A I L T
UniRef90_C0W2V2 T P E G Q T D R L A H Y G T L C V E M E M E A A A L Y G V A A E F G K Q A L A I L T
UniRef90_R5TQ85 W K A I N A R I P K D L D I V A T E M E S F A L F Y I A K V L H K E A A C I L T
UniRef90_Q8EWW7 A N R S V L E Q L A S D T K S Q V V E M E S F S L F A N A I L K L N K K A A T L L T
UniRef90_UPI0003B572CA S R P L S E T L A I T Q A D C V E M E S Y A L F V N A K K L N K Q A A T L L T
UniRef90_H3NP11 K W T N E I D N L I K Y N T L G V E M E M E A A G L F M S A L E N G K Q A L C I C T
UniRef90_D7BH91 P L E H H G Q A M A P F G A L A A E M E S A L F L I A K M R G K Q A A G A V L A
UniRef90_Q98PS4 T R P L E E T I K I T Q S Q A V E M E M E A S A L F A V A N K F N K Q A A T L L T
UniRef90_E2SN28 Q H N P Q W E A W K K M G C L A S E M E M E A A L F I V A Q Y R K V Q C G S I F L
UniRef90_R5M2Y7 D G E K F M S N F P N E E F L A S E M E M E A F C L F Y L A K K L N R Q A T S V L T
UniRef90_U5MSE3 Q H S N K W D A W L K L G C L A S E M E M E S A A L F V V A S S L K V R V G S V F L
UniRef90_N2AB61 Q H S N K W E A W K R L G C L A S E M E M E S A A L F V V A S S L G V R I G S C F L
UniRef90_I5ATB1 P D P D V L A Q K E K D A G L L A V E M E T A G L Y T M A M Y T H K K A L G L I F T
UniRef90_R6TW15 S R E L L I E R S K K D I L G V E M E T L A Y A N A K V S G K N A I A I Y T
UniRef90_H1PWJ7 Q H M N K W E A W I R L G C K A S E M E M E S A A L F V V G D Y L R V R V G S A F L
UniRef90_I5ASZ8 Q H E N K W D A W V R C G A L G S E M E M E A A L F V V G S V L R A R V G S V L L
UniRef90_E8TC02 P D G R R F A D A R A Q G A L A V D E M E T S A L F Y G I S E V H F A R A V L S M C V
UniRef90_E4QS89 S S R N L E K T I E L S K A K A V E M E S F A L F T I A N Y L G K K A A S I L T
UniRef90_R5SSM5 E N I D Y Q R L A N K Y N T Q G V E M E S F A L F C N A K L L K K D A T A L L T
UniRef90_UPI000417EC67 T P E G Q T E R L A A Y N G T L C V E M E S A V L Y A V A A A E Y D R R A J A V L T
UniRef90_G9WLP2 Q H K D K W Q A W L K L G C K A S E M E M E S A A L F T V A A Y L K K K I G T V L F
UniRef90_K6V4T1 T P F A D L D L Y D R Y G L G A S E M E M E A A A L F G V A A E F G K D A L A V L T
UniRef90_U2WDS4 Q H K K W E A W K K L G C K A S E M E M E S A A L F T V A S Y L R V R A A V L F
UniRef90_F0YYG6 Q H T E K W D A W V K L G C K A S E M E M E S A A L F T V A S Y L K V R A G S V F L
UniRef90_D9R414 E T Q E W L E K L S K L G C L N V E M E M E S A A L F T V C H R R K V R G A M I S A
UniRef90_I3DMU6 Q H E N K W E A W I R M G C K A S E M E M E S A A L F I V G N Y L K V R V G S C F L
UniRef90_E7MLI0 Q H R R K W D A W L K M G A K A S E M E M E S A A L F I V A S Y L H V R C G T V L L
UniRef90_C7NGM9 T V P G M I E G L R A H G T I L G V E M E M E A A L F Y G V A N E F G R Q A L A V L T
UniRef90_F9VNS5 E D E D F A K K W S E R G N I A V E M E M E C A A L F M L S K L R K I R S G A V I
UniRef90_C4G909 Q H Q N K W E A W K R L G C L A S E M E M E S A A L Y T V A Q A L G V R V A S V L L
UniRef90_R6LRV8 Q H I N K W E A W K K L G C L A S E M E M E A A L Y V A A K L H V R V G A C F L
UniRef90_X4R8L9 V P A Q V N E A A Q V G T A G A M E M E A G A L Y G L A A R Y G K Q A L A V L T
UniRef90_F7V6Y9 Q H E E K W E A W K R L G C I A S E M E M E S A A I F T V A S A L H V R A G S V L L
UniRef90_R5UIP9 Q H T Q K W Q A W N R M G C L A S E M E M E A A L F L A G S F L H V R V G A C F L
UniRef90_D4GUE6 E S D E Y V E D W N D A G L L A I E M E M E A A T V F S L A R R R G L R A G A I C T
UniRef90_Q0TU58 Q H S N K W E A W K R C G C L G S E M E M E G A A L F I V G S Y L R V R V G A V F L
UniRef90_R5S725 Q H Q N K W D A W L K M G C L A S E M E M E A A L F L I A G S Y L R V R V G A C F L
UniRef90_V4YC12 E T E S Y V A D W D A G L L A V E M E M E A A T V F S L A R R K G L R A G A I C T
UniRef90_R7IRM3 Q H Q N K W E A W K R M G C K A S E M E M E S A A L M I V A G H L R V R F G A D F L
UniRef90_E6UF62 Q V E P R W K S F V K C G C L S S E M E M E C A A I Y S V G M V L G V R C G S V L T
UniRef90_F4GI0 Q H E P K W E A W K K L G V L A S E M E M E S A A I F V A A S K L G V R C G S D F F
UniRef90_B5FER9 G Q E R Y M Q E W Q D M G V L N F E M E M E S A T L L T M C A S S G L R A G C V A G
UniRef90_R4VTB5 E T E A Y V E A W E A G L L A V E M E M E A A A L F T L A R R H G M Q A G A I C T
UniRef90_R5GZD5 E L C S A W E G Y L K C G C L T S E M E M E A A A F S V A L L R R V R A G A V L T
UniRef90_X4V610 G Q E R Y M K E W Q S M G V L N F E M E M E S A T L L T M C S S Q G L R A G M V A G
UniRef90_UPI00041DF09B Q H E N K W K A W M R C V G V L G S E M E M E A A L F T V A S T L K V H C G T V L L
UniRef90_A3DLR4 G Q E R P D F L K S C N V L N F E M E M E A T I F T L A N I Y G L R A G S V C A
UniRef90_UPI0003FB0AE9 G Q E R Y M E E W Q A M G V L N Y E M E M E S A S L F T I C A T Q G W A G C V A G
UniRef90_S5ZA26 G Q A R P G Y R L Q K A G V L S F E M E M E A S T L F T L S N I Y G A R A G A V L A
UniRef90_R5JZZ7 Q H E A R W D A Y C K L G C L A S E M E M E G A L M I A G A S L G V R V G A C F L
UniRef90_H9ZZF2 G Q G R P G Y K L K S L N V L N F E M E M E A S T I F T M A N I Y G A R A S S I C A

UniRef90_U3HAA6 V S D H L L I S G E K L T A E Q R Q E D F H D M V R L T L D A
UniRef90_E1QWQ8 V S D T F F T G E S L T S A E E R R E Q S F T D M M R V I S L E T A W R
UniRef90_C5WDK2 V S D H I H T H E L T P P L E E R R Q T L F N S D M V N I A L L E S I L
UniRef90_W7Z7I3 I S D S L V T G H A E T T A E E R R Q T S F N S M M E V A L L E A A I
UniRef90_X2HA06 V S D H I R K G D A M S P E E Q R R Q Q G F K E M T T V A L L E S V L
UniRef90_R6TDF1 I S D H L Q Y T G E A L P A A Q G R R E S F F H E M M E V A L L E T A W R
UniRef90_UPI00037677F2 V S D H L Q T G E A L P A A Q G R R E S F G D M V E I A L L E K A A
UniRef90_R5E7S8 I S D H L Y K S E K L D A G E R R Q E G F N D M L K I A L L E V A
UniRef90_E4KQ30 V S D H L L T G E E T T A S T E R E S S F T Q M M E I A L L Q T A
UniRef90_G2LM25 V S D H L I N K E H L S S T E R E S S F N D M T K L A L L E S T L
UniRef90_UPI00040AA6CB V S D N R N A G L E M P P K Q R E Q S L G D M L E L A L L E S M A
UniRef90_N1ZYP0 I S D L M F S G E A C T A R E E R R Q E S F D D M L R M G L L E T A L K
UniRef90_UPI00031ADC5A V S D H I I S G E E T T A E E R R E T T F N Q M M E V A L L D T A I
UniRef90_U2DR67 V S D G P F I D R D L T Y E E K E K G L K N M F E V A L L E T A I
UniRef90_UPI0002FE14DC V S D S L V T H E E E M S P E E D R R Q T G F A Q M E L L A L L E T A I
UniRef90_D4IZ15 I S D S F V T S E E I P A E E R R Q K S F T E M M K L A L L E T A I
UniRef90_B0ETA8 I S D L C Y S G E K M T A E E R R R T K F T Q M M E V A L L E S L A
UniRef90_I4DZC5 I S D S L V N D E D T T A E E R R Q T T F T D M M K V G L L E T L I
UniRef90_UPI0004797E33 I S D S L V T H E A T T A E E R R Q E A F K E M M L V A L L E N S I
UniRef90_UPI00036F7FED I S D S L V T G E K C S F E E R R E R T F E E M V K I A L L N T C L
UniRef90_UPI0003B57512 V S D L L F R E G S L S A E E R R E S S F N D M I T L S L E T A
UniRef90_I0R0Z2 V S D M M D G S G H T S S E E R R E S S F A N M V E I A L L A A
UniRef90_D2AMS2 I S D S F I T G E S T T A Q Q R E Q S F T N M M E V A L L G T I
UniRef90_R6RNG8 I S D S L I T G E S T T A E E E R R Q N S F M D M V Q V A L L E L L
UniRef90_G8N9Q5 V S N R I G D P E L A P A E V L A E G V R R M V E V A L L E A L L E
UniRef90_I0ERJ9 V S D H L I T H E K L S P K E R I E S F D S M V T L A L L E I M T Q
UniRef90_D5E551 I S D N L I T Q E E T S A E E S R Q T A F T K M M E V A L L E I M T Q
UniRef90_R5VG44 A V D S K F S D D V L S L E E D R E K S L D N M I T L A L L D A I K
UniRef90_A0A023X5Q8 V S D T I G K E E R I S D E D L K R G V D E M M E L A L L D T L
UniRef90_B7C830 V S D S L S T N E H L S A D E R R Q T S F N E M I T L A L L E S A I R
UniRef90_H6N5U6 I S D N I A T K E F M S S K E R E V G L R N M I E I A L L G I L
UniRef90_C6X005 V S D I P T G E F I S A D Q R E T A L T P M I E L A L L E T A I N
UniRef90_R5BR35 I S D H L Y R K
UniRef90_UPI000412A7B3 V S D H L D H R S Y D M S A D E R E T R F Q A S L R L A V A A A L
UniRef90_X0XPP3 V S D C L V T G E Y A T A E Q R E R D F M Q M A E I A L L E V
UniRef90_UPI000472E769 I S D S L V T K E A T S A L E R R Q E A F T K M M E I A L L N T
UniRef90_B3PM93 I S D N L I T H E Y T T S E Q R R Q N S F K E M M K L A L S L A
UniRef90_R7IUH8 V I D S K Y I K E V A T P E E R R Q T G L T N M T K L A L L D S S L K
UniRef90_UPI0003B6F0D9 V S D L P G A E M T A A E R E A T F E N M V S F G L A A
UniRef90_U2DPN3 I S D T L K G E K Q I S S A D R E L A L T N M M E I A L L G I L
UniRef90_G9PMH0 V S D H L L D H S D M S A A E R E T R F A D S L R L A V A A A
UniRef90_G5GGT2 I S D S I T G E S T S S Y E R T R A F T S M M E V A L S L A
UniRef90_C0W2V2 I S D H L D H S A D M D A S E R E R T R F Q D
UniRef90_R5TQ85 V I D S K C T T E F V S S E D R E K S L T N M I E V A L D T I Y
UniRef90_Q8EWU7 C S D S L V T H E S M S A E E D R Q T K F V N M I N L A L K V V
UniRef90_UPI0003B572CA I S D N L I T K K E T S P E E R E K K F L K M V E V A L N I L
UniRef90_H3NP11 V S D N A E E E E S A E T R E K A Y T D M M K L A L E V A
UniRef90_D7BH91 V V N K V G D A Q F V A P E L T Q E G V N R M T R V A L E A F V Q
UniRef90_Q98PS4 I S D N L I T H E E A S S Q N T R Q N N F T K M F E I A L E I
UniRef90_E2SN28 C V A N Q E R E K L G L S N N V V H D T D A A I K V A I H A I
UniRef90_R5M2Y7 V V D S K Y D K R S L T S E E R E Q S L N D M I S L A L E S V
UniRef90_U5MSE3 V V A N Q E R E K A G L E N K Q V H D T E T A I E V A I Q A I
UniRef90_N2AB61 V M A N Q E R E K A G L D N P V V H D T D M A I R M A V E A I
UniRef90_I5ATB1 I S D H L F K P E H L T A E E L R T S F H E M M E I A L K T A A K
UniRef90_R6TW15 V S D N P I S G E Q I S S N E E R E K G L D K M I R I A L D L A Y E
UniRef90_H1PWJ7 V V A N Q E R E K V G L E N P V V H D T D A A I R V A I E A I
UniRef90_I5ASZ8 T I A N Q E R A K Q G L D N P Q V H D T D A A V R V A V E A I L
UniRef90_E8TC02 V V D N I E T G E Q T D Y S E R Q A L F T D M S R L A V A A E
UniRef90_E4QS89 I S D N L I T K S E L D S V I T R Q E K F V E M T E I A L E A I
UniRef90_R5SSM5 V T D L F Y D T K K L S S E D R E K G L D K M I I L S L E T L
UniRef90_UPI000417EC67 V S D H L L D H H D M S A R E R E T R F H D
UniRef90_G9WLP2 I V S N Q E R V K A G M S N P I Y H D T D K A I Q V A I E A I
UniRef90_K6V4T1 V S D H L L D G S D M S A E E R E T R F G D
UniRef90_U2WDS4 I M S N Q E R N K A G L S N P I E H D T D R A I R C S V E A I R Q
UniRef90_F0YYG6 V M A N Q E R A K Q G L E N P I V H D T D A A I R V A V E A V
UniRef90_D9R414 V S G N I V T G D V I Y E M E N R A G W D D E I R V V L E A I Y R
UniRef90_I3DMU6 V V A N Q E R E K L G L E N P V I H D T E A A I K L T V Q A I
UniRef90_E7MLI0 T V A N Q E R Q R A G L P N P Q V H D T D L A I K A A I E A V
UniRef90_C7NGM9 V S D H L I D G K D M S A Q D R E T R F
UniRef90_F9VNS5 I S D S L V K G G W I S K D L E K K V S D G A I A I L D A L I N
UniRef90_C4G909 V M A N Q E R E K A G L S N P V V Y D T D L A A R C A T E A L
UniRef90_R6LRV8 V M A N Q E R E K L G L E N P V V H D T D M A V Q V A V E A I R K
UniRef90_X4R8L9 V S D H M V P G R D M T P E E R E T K F
UniRef90_F7V6Y9 V M A N Q E R E K A G L P N P V V H D T E A A I K T A I A A V R E
UniRef90_R5UIP9 V L A N Q E R E K R G L P N V Q V H D T T Q A I A T T S D A I
UniRef90_D4GUE6 V D G N L V A G D E E L P E K A K N N V E R A I S L S L D A V
UniRef90_Q0TU58 T I A N Q E R E K E G L D N P Q V H D T E L A I K A G I E G I
UniRef90_R5S725 V L A N Q E R A K K G L S N V Q V H D T K T A I E T A V G A V R E
UniRef90_V4YC12 V D G N L V E G T K G L S E T E A K N N V E R A I R I T L E T V A E
UniRef90_R7IRM3 V M G N Q E R N A L G M E N P I V H D T E A A I M V A V E A I
UniRef90_E6UF62 A L W N M E R S K Q G L P D T M T D D S S R G I K C A V E A I R K
UniRef90_F4GI0 V V G N Q E R E K A G L E N I L I R H D T E T A V L V T V E A I
UniRef90_B5FER9 V I I N R T Q K E I P D H A T L K E T E V R S I K V V I E A A
UniRef90_R4VTB5 V D G N L V T D D E A L P P K A R D N V E R A I H L A L E A A T E
UniRef90_R5GZD5 A L W N V E R T N A E G L P D K R C D S S E R A I N C A I G A I R R
UniRef90_X4V610 V I V N R T Q Q E I P N A E T M A K T E S D A I K I V L G A R K
UniRef90_UPI00041DF09B T V A N Q E R A K L G L P N P Q V H D T G K A I E T A V E A I
UniRef90_A3DLR4 A I A N R E T E E F I V D A G V D D A I K V A N E A V
UniRef90_UPI0003FB0AE9 V I V N R T Q Q E I P D E Q T M K K T E T R A I D I V V E A A R K
UniRef90_S5ZA26 A V A N R K N E L V E N A G V E M A I R V A N E A V
UniRef90_R5JZZ7 V V G N Q E R R A A G Y E E T Q V Y D T E S A I K T A G A I R K
UniRef90_H9ZZF2 V I A N R V T N E F V P N A G V D D A V K V A D E A V

UniRef90_D9R415 H R E Y L T Y T G T I L A G V P V V S V T S T H I G G G P S S A I I A V E E E L F E C 80
UniRef90_D5U8N5 Y R E Y A T Y T G T I L A G V P V V S V T S T H I G G G P S S A I I A V E E E L F E C 80
UniRef90_H2FSU0 K R E F T S W L G E E Y D D G T K P I S V V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_C7P052 H R E Y R T A T T G T Y E Y D D G T K P I S V V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_G2MH42 H R E Y R T A T T G T Y E Y D D G T K P I S V V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_D2RVE1 H R E Y R T A T T G T Y E Y D D G T K P I S V V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_X1MMT3 H R E Y R T A T T G T Y E Y D D G T K P I S V V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_U1K7F7 T R E F H V Y L G D I K G Q S I V I V I C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_B5Y654 N R E F C S V R G K Y K G G V S V I V I V I C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_I0GJL8 Y R L L Y V Y T G L Y K G G V S V I V I V I C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_R9XT88 T R E F T S W L G Y V G G Q T I V V V C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_Q87H86 N R E Y R V F T G K Y K D Y P V S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_I2F7H5 N R G L I T Y T G K Y K D Y P V S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_UPI0003B6A9C0 N R E Y V T Y T G F L D G T K V V S V V S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_H2J3C0 N R E Y V T Y T G F L D G T K V V S V V S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_U2DXH4 N R E Y V T Y T G F L D G T K V V S V V S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_A8F6W6 N R A Y H V Y T G K L R G V K V V S V V S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_UPI00037B79CE L R E F T T Y R G E L E G K S V V T V T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_C5EM61 K R E F T T Y R G E L E G K S V V T V T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_B7CDB0 N R E Y V T Y S G Y M N G L L C S V V S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_A1SYK8 H R E Y T S Y L A Y I E G K A V L V V C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_I3VUD7 N R E Y K T Y S G F Y K G G V K I V V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_G5HMX4 N R E Y R T F V G E L E G A R V A V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_C5KW27 N R E Y R S Y N V T Y G G A E L S I C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_D9PZN7 R R E Y S S F R G V Y R G V D V A V S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_T1AU81 H R E Y N S W M V T V D S V P V L V C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_U1P7D0 H R E Y R T A T G Q Y Q E T G I S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_UPI000393E780 N R E F S V Y S A G W F G G K V I T I C C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_K2DVC4 S R E H V S Y L A N F H G Q K I L V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_UPI0003032053 N R E F R T V S G L Y K G V K V I S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_A3URL3 N R E Y R L F T G A Y K G K A I S V C C S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_N9XMQ7 N R E Y H T Y S G T Y K G G V P V I T V T S T H G V G G E G S T A A I I V V E E E L A R Q L V G D
UniRef90_D2TWP0 L R E F T S W R A E L N G K P I S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_A6G946 E R E F V T Y T G T Y R G M P M S V M G T G M S A N T E L I A V I E E E L A R Q L V G D
UniRef90_B0TYM5 N R E Y T S Y L A K I A D R N A I V I S T G M G G P S T A A I I V V E E E L A R Q L V G D
UniRef90_M8EAB7 N R E Y H S Y K G K W N G T E V A V V S T H G V G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_B0P6N0 N R E H K T W T G T L N G V K E V S V T S T G M G G P S T A A I I V V E E E L A R Q L V G D
UniRef90_V4Y7U8 H R E Y R T A T G T Y D G G V P I S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_N2A9Q9 N R E H K S V S G Y Y K G V R V M A V S T G M G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_A1RWF6 H R G Y L V V T G E Y R G E R V T L A T H G I G A P S T A A I I V V E E E L A R Q L V G D
UniRef90_M1Q1M8 N R E Y K S I K G K F K K T T V T G V S A G V G A P S T A A I I V V E E E L A R Q L V G D
UniRef90_K1Z625 N R E F R L G L G S F R E K R I S V T S T G I G G S P S T A A I I V V E E E L A R Q L V G D
UniRef90_G5IEB0 N R E H K T W T G T L D G E K V I S V T S T G M G G P S T A A I I V V E E E L A R Q L V G D
UniRef90_S2W9J3 N R E Y H S Y V G E Y G G K L I T V A S T H G V G A A G A A C C F E E E L A R Q L V G D
UniRef90_L8MA01 Y R G L H S Y L G D W T P K Q I L V A T S G M G G P S T T I V V N E E L I Q I V G G
UniRef90_V5CG51 H R E Y R A L R G D Y R G I E V L V V S T G M G G P S T A A I I V V E E E L A R Q L V G D
UniRef90_Q5E046 N R E Y R V F N G V Y K G T T I T I C S T G I G A P S T M I I A V E E E L K L C G G
UniRef90_G9RY32 N R E H K T W T G T L C G E K V I S V T S T G M G G P S T A A I I V V E E E L I K A G G
UniRef90_R6SJK7 N R E H K T W T G T L N G E K V I S V T S T G M G G P S T A A I I V V E E E L I H C G G
UniRef90_V7I8T3 N R E H T S Y R G Y L I G D T P V M V V S T G M G G P S T A A I I V V E E E L V K L G G
UniRef90_A8FZL3 V R G M L G F T G L Y K G K P I S V M A H G M G V P S V S I Y V H E L I E H Y F G
UniRef90_G5LXY5 V R G M L G F T G T Y K G R K I S V M G H G M G I P S V S I Y T K E L I T D F G G
UniRef90_UPI000465B883 N R E F R S L K G S F R G V E L M A V S T G I G G A S T A A I A V E E E L H R I T G G
UniRef90_G8W7D71 N R E F R A R G W Y Q G L E I L V L S T G I G G S P S T A A I I V V E E E L R Q I K
UniRef90_UPI0003F94EE8 G L D K P M Q T A T A E N I T I I N F G M G S P M A A T V M D L L S A I I K
UniRef90_E1QU43 H R E Y V T Y T G T Y K G A P I S A V S T G I G G P A A A I I V V E E E L L T L G
UniRef90_C7LL69 V R N A F V Y T G T Y K G H K V S A F A T S G M G Q P S G A A I Y V H E L F N N H N
UniRef90_D3EHZ7 S R E Y R T F V G Y E G V E L A V T S H H G V G G P S G A A V C F E E E L I R A G
UniRef90_W4QJJ1 N R E Y H S Y I G T Y H G E K I A I V S T H G V G G P S G A A V C F E E E L I T G G G
UniRef90_E0T830 N R E F R A L R G E F H G I E L A V S T G I G G A S T A A I I V V E E E L R R L T G G
UniRef90_F7YX94 N R E Y L T Y T G Y L I G E K V I S V M S T G M G A P A M A I G I E E L A T T N
UniRef90_E4T1J0 S R E F N T I T G T Y K G K R I S V M S T G I G T D N I D I V M N E E K K D F R
UniRef90_F0VME1 N R E Y R S F M N V Y D G Q P I T V V S T H I G G C P S T S I C C S E L T Y L G
UniRef90_R6VJR6 R E F L M N G V Y K G K V I S V C S T G I G V G S T S T E L C V S E L L E N G
UniRef90_L5MYD9 N R E Y H S Y A G S W R G T E V A V V S H G V G S P S G A A V C F E E L A K G G
UniRef90_R6HGW4 H R E Y T S W L A V V E G H N V L V C S T G M G G P S V A I G L E E L A R L G
UniRef90_M7N313 M G K S P M Q S A T A E N I T I I N F G M G S P M A A T V M D L L G A I R
UniRef90_E0NSL9 N R E F R T I T G L Y K G K R I T V L S T G I G G C D N I D I V L N E E Q E T F R
UniRef90_G5HQ81 Y R E H V T Y T G K I G D M D I S A C C S T G A G G S T A S A L E D L A E V G
UniRef90_R3W2V3 S R E F I V V S G F W N H L V I S I C C S T G I G V G S T E I A V I E E L I E N G
UniRef90_D8DYI9 N R E F K T V T G T Y N G K R I S T V Q S T G I G G C D N I D I V L N E L D A L A N
UniRef90_C7TLV7 S R E F V L V V G M F R G H H I S V C C S T G M G V G S T E I C V V E L I E N G
UniRef90_F0P1C9 K R E I S H T G S L N G K R I T V I S T G M G T D N I D I V L T E L D A L A N
UniRef90_R7NT69 S R E F K T I T G T Y K D K R I T V V S T G I G G C D N I D I V M N E L D A L A N
UniRef90_G9WPH8 R R E F N S Y T G T Y K G V P I V S T S T G M G A P T A A I A M E E M Y E A G
UniRef90_F9YTN8 K R E F C H T G T Y K G K R L S V L S T G I G P D N I D I A I N E L D A L F N
UniRef90_Q3CZZ9 E Y V T Y T G T L N G E K V S V T S T G I G G P S A X I A M E E L K L C G
UniRef90_UPI000470EE39 G M G K A M Q T A T A N D I T I I N F G M G S P L A A T V M D L L S A I R
UniRef90_F2L007 N R E F R T I T G T F H G K R I T A L S T G I G G C D N I D I V V N E L D A L A N
UniRef90_K1Y3E0 S R E F V T V T G R Y K G K R I T V L S T G I G T D N I D I V V N E L D A L A N
UniRef90_R5RXL1 N R E Y R S L V R G A Y R G A R I L A M S T G M G G V S T G I A V E E L H N I G
UniRef90_M5RUH0 V Q M P L H H I R D T R G N Q G I S I V N I G V G P S N A K N L T H L L A V L R
UniRef90_Q8I3X4 N R E Y K S V E C H Y K G Q K F L C V S H G V G S A G C A V C F E E L C Q N G
UniRef90_K9QRX8 H R G L N S Y L G Y P N G C P L S A T S G M G A P S L S I V V N E V D Q V G
UniRef90_R6EVM0 S R E F R T V T G T Y K G K R I T V I S T G I G G C D N I D I V M N E L D A L A N
UniRef90_S8GX44 G A D A N M P S A K A N G V T I V N F G M G S P N A A T V M D L L G A I H
UniRef90_D7JET3 N R E F K T V T G L Y G K K R V S C V S H I G T D N I D I V V T E F D A L V N
UniRef90_F8LIW7 T K T D P V V M T Y N G K K I C L A Q A P V G S A A A Q F M D W L I G Y G
UniRef90_I4B9E2 G A Q M A A Y H H V P D N A G I T L I N I G V G P A N A K T I T D H V A V L R
UniRef90_A3X0R9 G M D R P M P N A T A D G I T I I N F G M G S P N A A T V I D L L G A I S
UniRef90_UPI00036168EF L G R D A N M I S A T A G D I T I I N F G M G S P N A A I I M D L L S A I N
UniRef90_R7LJ39 S R E F R T I T G T F Q G K R I T V V S T G I G C D N I D I V V N E L D A L A N

UniRef90_D9R415 A H T M M R I V G S 90 A S G T S P K V K V I I P N G A V V R M E G T G L H Y L P
UniRef90_D5U8N5 A D T F L R V G T T G C C G A I I M N M K V V A V G D V I I V T T T T T G A V V R K G G G G G T M D N N Y L P
UniRef90_H2FSU0 V R T F L R V G T T G C C G A I I M N M K V V A V G D V I I V T T T T T G A V V R K G G G G G T M D N N Y L P
UniRef90_C7P052 A E T F L R V G T T G C C G A I I M N M K V V A V G D V I I V T T T T T G A V V R K G G G G G T M D N N Y L P
UniRef90_G2MH42 A D T F L R V G S C C G A I I Q P Q E G M E V V G D L V I V T T T T T G A V V R R Q E E G G T S T S D E E Y V R R
UniRef90_D2RVE1 C D P T F V R I G S C C C G A I I Q P P E R I M D V G D L V I V T T T T T E A L V R R R E E S T S T S D G S Y L P
UniRef90_X1MMT3 D P T F V R I G S C C C G A I I Q P P A R I M K L V G D L V I V T T T T T E A L V R R R E E S T S T S D G S Y L P
UniRef90_U1K7F7 V N T F L R I G T T G A I I Q P Q H I N E G D L V I V S T A A S V R L D D G G A S Q T H Y F A D
UniRef90_B5Y654 V K T M I R I G S C C G A I I Q D D N Q M K V V G D L V I V A T Q A G S V R D D D G G T T P K T N Y I L R
UniRef90_I0GJL8 G K V F I R I G S A G G A I I Q P S H I N V V G D V L V V A T T G A V V R L D D G G A S R S H Y F A
UniRef90_R9XT88 V R T F L R I G S A G A I I Q P S Q I V N Q L G D L V V P Y G C V R D D D G G A S K S Y Y V P
UniRef90_Q87H86 V T H V V R I G S V A G L Q E Y V N E G D L V V P Y G C V R D D D G G A S K S Y Y V P
UniRef90_I2F7H5 A R V L I R I G T T G G M A L N D V V K G G D L C I A S G A I I R A E D G G C S R E Y Y A
UniRef90_UPI0003B6A9C0 V H T F L R I G T T G G M A L N D V V K G G D L C I A S G A I I R A E D G G C S R E Y Y A
UniRef90_H2J3C0 V H T F I R I G T T G G L D K L N D V V K G G D S I I P T A A I R R G E D G T S M S K E Y L P
UniRef90_U2DXH4 V Q N F I R I G T T G G A I I Q D D L D V M G G D V I V V T T T A G A I R A E E G T T S R H A Y A
UniRef90_A8F6W6 A K T L I R V G S A G S R Q S Y M P I I G S L V I V A T T A A Y R G E D G T S R H A Y A
UniRef90_UPI00037B9CE I R T F L R I G S T T G A I I Q P S H I N V I G D V V I T T N G A V R R L D D G G A S T R G N H Y L
UniRef90_C5EM61 A H T M M R I G S A A S T S P K V R I G D V V I T T N G A V R R L D D G G A S T R G N H Y L
UniRef90_B7CDB0 C H T F L R V G T T G G M R L D V V Q G G D I V I V A S G A I R Q E D G G T T R E Y A
UniRef90_A1SYK8 V T T F L R I G T T G A I I Q P P E V N P G D L V I V T T Q A G A V R R L D D G G A S L H Y F A
UniRef90_I3VUD7 V K A M I R I G S C C G A I I Q P N I K L G D L V M A L G A V R D E D G G T S L T Y I L P
UniRef90_G5HMX4 A D T M M R V G T C C A S L V S P K V S L G D V V I V P N G A V K M E D G G V S L H Y L P
UniRef90_C5KW27 A K I T I R V G T C C G A I I K P E N I N Q D D L I V P T T A A C V R M D G G V T S Q A L V P
UniRef90_D9PZM7 A D T L I R V G S T G A I I Q D D D I E V G D L V I I T T T A A V R R M D G G T S Q A L V P
UniRef90_T1AU81 V K N F I R V G T T G S I V Q K D I E F G D I V I V S L A A V R L D D G G A S T H Y A
UniRef90_U1P7D0 A E T L I R V G S C C G A I I V R Q S H I V A V L G D L V I I T S G A M R G E D G T S K E Y L P
UniRef90_UPI000393E780 A T H L I R V G S A G A I I Q P F I N L G D L V I I A S G A V R R D D G G A S K D Y L A
UniRef90_K2DVC4 L K Y Y L R V G T C C G A I I Q P F I N L G D L V I I A S G A V R R L D D G G A S K D Y L A
UniRef90_UPI0003032053 V E T M I R I G S C C G A I I Q R S H I L P G E L L V I A S G A V R D D D G G S T T A Y V V K
UniRef90_A3URL3 V T H I I R V G S A G A M Q S H I G L G E L I I A E G A V R D D D G G S T T A Y V V K
UniRef90_N9XMQ7 A K V I I R V G T C C G M Q K E V T A G S L V I V K A A C R E D D G G V T E K M L P
UniRef90_D2TWP0 I R T F L R V G T T G A I I Q Q A N I N I G D L V L I T T G A A V R L D D G G A S L H A F A
UniRef90_A6G946 D A S I I R A G S C C G A I I Q A N I N I G D L V L I T T Q A A H R L R L D D G G T S Y H Y I
UniRef90_B0TYM5 I K K L I R V G T C C G A I I Q E N I D F G D L V L I T T A S V R L D D G G T S Y H Y I
UniRef90_M8EAB7 V K T I R V G T A G S V Q K E V E P G S L V I N T S A A V R R Q D D G G T S Q L V P
UniRef90_B0P6N0 A D T F I R V G T A G R V C K D K A Y D E D G V I N T S A A V R R Q D D G G T S H Y I
UniRef90_V4Y7U8 A D T F I R V G S C C G A I I Q D D I A V G D L V I V S T G A V R R Q D D G G A S S D Y I R
UniRef90_N2A9Q6 V K A M I R I G S C C G A I I K K G I R L G D L V I V N G A A V R D D D G G S K S Y F
UniRef90_A1RWF9 A K V M I R A G T C C G G L T P I A E S G K I L I E A A A Y E N S G G T L Y Q Y F G
UniRef90_M1Q1M8 A N T L V R I G T T G G S L N R S V D S G D L V I V I Q S A V R D D D G G F S R Q H L P
UniRef90_K1Z625 A K Y L I R V G T C C G A W R D D C P A G S I I P T A A S I R D E D G T T I E Y L
UniRef90_G5IEB0 A R T L I R I G T A G P V K R D D C E K Y D G A I C T A A I R D E D G T T H Y I
UniRef90_S2W9J3 A K Y I I R A G T A G G V Q R D V V D G D L V V V T G A A V R C D G G Y T E L V V P
UniRef90_L8MA01 I K K I R V I G T C C G A I I Q S Q I K V L G D L V I S A A A L C R Q D D G G A N D I A P
UniRef90_V5CG51 V D C L V R I G S C C G A I I Q S S M K V G D L V I S A S A V R R D D G G T G K A Y I
UniRef90_Q5E046 A T H V I R V G S A G A M Q D H I Q L G E L I V A E A A V R D E D G G S K A Y I
UniRef90_G9RY32 A D T F I R I G T A G P V R R D D C S E R Y D G V I V T G A A V R D E D G G T T H Y I
UniRef90_R6SJK7 A E T F I R I G T A G C R I P D E S Y D E S L V I I T G A V R D E D G G T V H Y Y P
UniRef90_V7I8T3 V T T F I R I G T C A S T S A L V E R G D I V I P T G A V R M E G T S S H Y V P
UniRef90_A8FZL3 V K N L I R V G S A G G V S E D I K V R D I V I A T G A G T A S L T N R R F A
UniRef90_G5LXY5 V K K L I R V G S C C G A V R M D V K L R D V I V P A G M G A C T D S K V N R I R F K
UniRef90_UPI000465B883 V R A M I R I G S C C G A L K K G I L L G D L I I A S G A V R N D D G G A S S Y V
UniRef90_G8W7D71 V T T L I R I G S C C G A I I Q D N L A L G D V I I A H A A I V M D D G G S S R T Y A P
UniRef90_UPI0003F94EE8 P K A A L F L G K C C G A I I Q D N V K L G D L I I P A A A I R G E D G G T S N D Y L P
UniRef90_E1QU43 A N T F I R V G T T G A L H E W I R V G D V I I N T G A V R F D G G A S N A Y A M
UniRef90_C7LL69 V N T I R V G T C C G Y R N N D I K L I G T V I E A K N A F S E V N I F E P N K T
UniRef90_D3EHZ7 A K T L I R V G T A G S Y R A D T P A G S L V V E A S T A A I R T D G G L T K Q L V P
UniRef90_W4QJJ1 A Q T M I R V G T A G S Y R K E I E A G S I V I S T A A V R C D D G G L S N Q L V P
UniRef90_E0T830 V T T L I R I G S C C G A I I Q D H M A M G D L V I A S G A V R D E D G G T S R A Y I
UniRef90_F7YX94 A K V I I R I G T T G A I I Q K H L K M G D S V I A T A A V R M D G G T T A Q Y I M
UniRef90_E4T1J0 Q L T I I R I G T S G G M Q P E I P L G S F L I S E K S I G F D G G M L N F Y A G
UniRef90_F0VME1 A K V I I R A G T C C G S L K P T L K Q G D V E V P F A S A Q E T T G L I T H L P
UniRef90_R6VJR6 A K Q I V R C G G C G A W R D D I E P G G D I I L N T G M A R T T G L M T Y V P
UniRef90_L5MYD9 V Q V I I R V G T A G S Y Q Q E I E P G S L V I S S A V V R Q D G G L T S Q L V P
UniRef90_R6HGW4 I K N F I R V G T T G C I L K E N I N L G D V I I N N A A V R L E G G T S A H Y A
UniRef90_M7N313 P H A A L F L G K C C G G L Q K E N T K L G D L I L P A A A I R G D G G T S N D Y M P
UniRef90_E0NSL9 Q L T L V R I G T C C G G L Q L Y T P T G T F I A S E K S I G F D G G L L N F Y V G
UniRef90_G5HQ81 C D T L I R V G T C C G A I I Q D Y I K P G D L I I C S T G A V R K E G G T S D G Y V T
UniRef90_R3W2V3 A K K I V R C G G C G A W V D G L E P G D L I I N S A M A R T Q G G M L G A Y V S
UniRef90_D8DYI9 I D F I V R I G T C C G G L Q P N T P I G T Y I V A S V K S I G F D G G L L N F Y A G
UniRef90_C7TLV7 A K Q I V R C G G C G A W R D D I P N P G D L I I N R A M A R T S G L M G D Y V P
UniRef90_F0P1C9 I N T L V R F G T S G A L Q D D I P V D S I C L G L G L G L G L D D G G L H H Y V G
UniRef90_R7NT69 I D F K V R I G T C C G L Q P Y T P V G T Y I C S E K S I G F D G G F I N Y M G W
UniRef90_G9WPH8 M K V A V R M G T V S M A L R D E L L P G K F L I P I G A L R R E K T S E T Y V
UniRef90_F9YTN8 I D M F I R F G T S G A L Q D D I P V D S I C L G L G L G L G L D D G G L H H Y V G
UniRef90_Q3CZZ9 A D T F I R V G T C C G S I D L D V V G G D I V I A T G A I R M E G T S K E Y A
UniRef90_UPI000470EE39 P K A V L F L G K C C G G L K K T Q V G D L I L P I A A I R G E D G G T S D D Y M P
UniRef90_F2L007 I D F K T R I G T C C G G L Q P Y T P V G T Y I A S V K S I G F D G G L L N F Y A G
UniRef90_K1Y3E0 I D L N T R I G T S G A I Q P D I P L G S F V L S H I S V G C D D G G L L N W Y A G
UniRef90_R5RXL1 V T H A I R I G S C C G A L Q N T D I A P G E L L I A A G A V R D D D G G T S R A Y V R
UniRef90_M5RUH0 P D A M L M V G S H C C A G V R N H Q E I G D F V L A T G Y M R G D H L L D E L L P
UniRef90_Q8I3X4 A K V T I R A G S C C G S L Q P D L I K R G D I C I C N A A V R E D R V S H L I
UniRef90_K9QRX8 I K K I R I I G T C C G S I Q S H L P V G S F V I S S A A L C R Q Q G A N D I A
UniRef90_R6EVM0 I D F I V R I G T C C G G L Q L Y T P A G T F V C S E Y S I G F D G G W S G N M C Q
UniRef90_S8GX44 P K A C L F L G K C C G G I S H K T P L G D L V I P I A A I R G E D G G T S N D Y Y P
UniRef90_D7JET3 I D F A T R I G T S G G L Q P E M P I G T Y V V P S N R S M G F D G E N A F C D F
UniRef90_F8LIW7 V E Q I I S T G T C G V L V D C M P E N V F L I P T R A L R D E D G G A S Y H Y V A
UniRef90_I4B9E2 P D L M M V V G H C C G G L R N H Q D I G D Y V L A S S Y M R A D R V M E E V L P
UniRef90_A3X0R9 P K A V L F L G K C C G G I K R K N Q R G D L I L P I A A I R G E G T S N D Y L P
UniRef90_UPI00036168EF P K A C L F L G K C C G G I N A K N K L G D L I L P I A A I R G E G T S N D Y F P
UniRef90_R7LJ39 I D F E T R I G T C C G L Q P F T P E G T F I A S K R S I G F D G G L L N F Y A

UniRef90_D9R415
UniRef90_D5U8N5
UniRef90_H2FSU0
UniRef90_C7P052
UniRef90_G2MH42
UniRef90_D2RVE1
UniRef90_X1MMT3
UniRef90_U1K7F7
UniRef90_B5Y654
UniRef90_I0GJL8
UniRef90_R9XT88
UniRef90_Q87H86
UniRef90_I2F7H5
UniRef90_UPI0003B6A9C0
UniRef90_H2J3C0
UniRef90_U2DXH4
UniRef90_A8F6W6
UniRef90_UPI00037B79CE
UniRef90_C5EM61
UniRef90_B7CDB0
UniRef90_A1SYK8
UniRef90_I3VUD7
UniRef90_G5HMX4
UniRef90_C5KWN7
UniRef90_D9PNZ7
UniRef90_T1AU81
UniRef90_U1P7D0
UniRef90_UPI000393E780
UniRef90_K2DVC4
UniRef90_UPI0003032053
UniRef90_A3URL3
UniRef90_N9XMQ7
UniRef90_D2TWP0
UniRef90_A6G946
UniRef90_B0TYM5
UniRef90_M8EAB7
UniRef90_B0P6N0
UniRef90_V4Y7U8
UniRef90_N2A9QF
UniRef90_A1RWQ6
UniRef90_M1Q1M8
UniRef90_K1Z625
UniRef90_G5IEB0
UniRef90_S2W9J3
UniRef90_L8MA01
UniRef90_V5CG51
UniRef90_Q5E046
UniRef90_G9RY32
UniRef90_R6SJK7
UniRef90_V7I8T3
UniRef90_A8FZL3
UniRef90_G5LXY5
UniRef90_UPI000465B883
UniRef90_G8W7D1
UniRef90_UPI0003F94EE8
UniRef90_E1QU43
UniRef90_C7LL69
UniRef90_D3EHZ7
UniRef90_W4QJJ1
UniRef90_E0T830
UniRef90_F7YX94
UniRef90_E4T1J0
UniRef90_F0VME1
UniRef90_R6VJR6
UniRef90_L5MYD9
UniRef90_R6HGW4
UniRef90_M7N313
UniRef90_E0NSL9
UniRef90_G5HQ81
UniRef90_R3W2V3
UniRef90_D8DYI9
UniRef90_C7TLV7
UniRef90_F0P1C9
UniRef90_R7NT69
UniRef90_G9WPH8
UniRef90_F9YTN8
UniRef90_Q3CZZ9
UniRef90_UPI000470EE39
UniRef90_F2L007
UniRef90_K1Y3E0
UniRef90_R5RXL1
UniRef90_M5RUH0
UniRef90_Q8I3X4
UniRef90_K9QRY8
UniRef90_R6EVM0
UniRef90_S8GX44
UniRef90_D7JET3
UniRef90_F8LIW7
UniRef90_I4B9E2
UniRef90_A3X0R9
UniRef90_UPI00036168EF
UniRef90_R7LJ39

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

UniRef90_D9R415
UniRef90_D5U8N5
UniRef90_H2FSU0
UniRef90_C7P052
UniRef90_G2MH42
UniRef90_D2RVE1
UniRef90_X1MMT3
UniRef90_U1K7F7
UniRef90_B5Y654
UniRef90_I0GJL8
UniRef90_R9XT88
UniRef90_Q87H86
UniRef90_I2F7H5
UniRef90_UP10003B6A9C0
UniRef90_H2J3C0
UniRef90_U2DXH4
UniRef90_A8F6W6
UniRef90_UP100037B79CE
UniRef90_C5EM61
UniRef90_B7CDB0
UniRef90_A1SYK8
UniRef90_I3VUD7
UniRef90_G5HMX4
UniRef90_C5KZW27
UniRef90_D9PNZ7
UniRef90_T1AU81
UniRef90_U1P7D0
UniRef90_UP1000393E780
UniRef90_K2DVC4
UniRef90_UP10003032053
UniRef90_A3URL3
UniRef90_N9XMQ7
UniRef90_D2TWP0
UniRef90_A6G946
UniRef90_B0TYM5
UniRef90_M8EAB7
UniRef90_B0P6N0
UniRef90_V4Y7U8
UniRef90_N2A9Q9
UniRef90_A1RWF6
UniRef90_M1Q1M8
UniRef90_K1Z625
UniRef90_G5IEB0
UniRef90_S2W9J3
UniRef90_L8MA01
UniRef90_V5CG51
UniRef90_Q5E046
UniRef90_G9RY32
UniRef90_R6SJK7
UniRef90_V7I8T3
UniRef90_A8FZL3
UniRef90_G5LXY5
UniRef90_UP1000465B883
UniRef90_G8WD71
UniRef90_UP10003F94EE8
UniRef90_E1QU43
UniRef90_C7LL69
UniRef90_D3EHZ7
UniRef90_W4QJJ1
UniRef90_E0T830
UniRef90_F7YX94
UniRef90_E4T1J0
UniRef90_F0VME1
UniRef90_R6VJR6
UniRef90_L5MYD9
UniRef90_R6HGW4
UniRef90_M7N313
UniRef90_E0NSL9
UniRef90_G5HQ81
UniRef90_R3W2V3
UniRef90_D8DYI9
UniRef90_C7TLV7
UniRef90_F0P1C9
UniRef90_R7NT69
UniRef90_G9WPH8
UniRef90_F9YTN8
UniRef90_Q3CZZ9
UniRef90_UP1000470EE39
UniRef90_F2L007
UniRef90_K1Y3E0
UniRef90_R5RXL1
UniRef90_M5RUH0
UniRef90_Q8I3X4
UniRef90_K9QRY8
UniRef90_R6EVM0
UniRef90_S8GX44
UniRef90_D7JET3
UniRef90_F8LIW7
UniRef90_I4B9E2
UniRef90_A3X0R9
UniRef90_UP100036168EF
UniRef90_R7LJ39

170 180 190 200
E L K S K W E A Y E K G G A T N S S M E S A T L F L V A A S L G I R M S S V M T
Q H A Y K W D S Y E K A G G L A N S E M E S A T L F A V G A S S K N L V R T G A A M L
G Q D E R Y M K E W Q S A M G V L N F E M E S A T A L F E T M C A S Q Q G L R K A G A C V A G
G Q D E R T I D A L R E A N V L N F E M E S A T A L L T L T L A N L Y G L R A G A V C C T
G Q D D L V Q E L R E A N V L N F E M E S A T A L L T L T L A N L Y G L R A G A V C C S
G Q G R P V E D L T K E A N V L N F E M E S A T A L L T L T L A N L Y G L R A G A V C C A
D N K D L V R R M R K A K V L N F E M E S A T L F A L A K V Y K I R V G A V C C A
G Q E R Y C E E W Q K L N V L M N Y E M E S A T L F T M C A A L G L K A A S V A G
D R N E I D N Y W S E R G V L A A D M E T S A A L F V I G R Q L R E V R T A S I L A
P Y P D E M E K F V K A K V K A V E M E S A T L F V I V S Q Y R G V R R A G A L F A
G Q E R Y D K Q W Q E L N V L M N F E M E S A T L F T M C S A L G L R S G M V A G
D D P E E I C Q S W S K R R L V S L E M E S A T L F T V G R Y L R N V K A G F I G I
Q H E E N W Q A Y C A L G T I L C S E M E S S T L F I V A S A L H V R R A G A M F M
R F F E D M D L F V R A R A N T L A I E M E S S A L F V L G N I Y N L K A G A V I T
Q H S N R W E A W K R A G T L G S E M E S A A L F T V Q N S L G C K A G A V M H
Q D E G L N K F L T D S G V A A E Q E S I A F L L G T T K H V R V G A I L A
G Q E R Y M E S W Q S M G V L N T S E M E S A T L F T M C A S T M G L Q R T A S V A G
E A K Y K M E Y V K G G A T N T S M E S A V L F L V G A S L G I R R T A S V M I
E L Q N K W S A Y C K L D C L A S E M E S S T V F L V S Q T R H V R S G A M F L
G Q E R Y M K E W Q E L G V L N Y E M E S S A L F T M C A T Q G G W R A A C V A G
D K E D E I D R W S T K G V L A A D M E T S A P L F V I G R L R G I R T A S I L N
E L M F K W S A Y E K G G A T S T S M E S A P L F A I G S C L G I R T A S V M A
S S A A D S T L L K N A G A I A V E M E S A P L F E V V A S L R G I R A A A V A T
G Q G R P G Y D L R Q M R V L N F E M E S A T L L T L T L A N L Y G L R A G A V H A
G Q E R Y D E E W R K L N V T N F E M E S A T L F T M C S A F G L S A A C L C G
G Q D D L V K T L K S A N V L N F E M E S A T L L T L T L G N L Y G L R A G A V C A
E E M Q L C Q F W H Q R G I L A A D M E T S A L L A V G R Y R G L K V A S V L N
S K R G A M D E W R A L N V M N F E M E S A S A L F V M A S T M G L H A A C I C G
D R E E Q I D R W S D K G I L A A D M E T S A L F V I G G T K G L N V A S V L N
D D E Q A C Q Y W N G K G I L G A D M E T S A L F T V G R L R G L N V A S I L
G L L E R V K L Y Q K A G V I A M E N E S A G L L V V A S L H G I K A G A I L A
G Q E R Y M E E W Q K M G V I N Y E M E S A T L T M C S S Q E L S A G M V A G A
A Q G R N T A E L Q R M G I S N L E M E S A T L L T L T L S T L R G F R A G A V C A
G Q R E S L D E W R K L N V L N L E M E S A L L T V C A T F G L Q A S C I C T
G V V D F H K L Y Q K A G V L M S E M E N T A L F V I S S I R G M K A G S I L A
Q H K E R W E A W R R G N V M S E M E S A A L F V I S S I R G C R A S S I M A
G Q G R A T E R L R E A N V K N I E M E S A A L M T L G N V Y D L R A G A V C S
E K E D L N E R W G S R G V L G S D M E T S A A L F V I G G L R G V K T A S L
K V E N A R W W A S L G V D F L E M E S A T L F A L G R L R G V K V G A M A L
G K R K D R E T L A E T G V L A V E M E S A A L F T I A Q L R G V S A G A V L A
G E Y M Q N D R W K E T P L L S S E M E S A A L F I L A S I R N V R A G A I L A
E L K E R W E A W K K G N A V C S E M E S A A L F I L A S I R N V R A G A I M N
S P I N D Q P K W R D A G A I G V E M E S A A L F I T A S I H R V K S G A I L A
G Q E R I T E Q Y G N L N I L N Y E M E A G V L F K M A G V Y G F K A A C V C A
D R Q E L C Q Y W S A K N G I L A A D M E T A P L M V V G A L R N M R I A S I L N
D E E D Q C Q Y W N K K G I L G A D M E T S A L F T V G R L R G L Q V A S I L N
E L K E R W R A W Q R G N V M C S E M E S A A L F I V S S I R G V R A G A I M N
Q H H K E R W E A W E K S G V M A S E M E T A A L F I V S S I R G V R A G A I M A
E L I N K W T A Y E K G G A T S T S M E E A L L F I A A T S L G V R A A S A L I

UniRef90_G5LXY5
UniRef90_UP1000465B883
UniRef90_G8WD71
UniRef90_UP10003F94EE8
UniRef90_E1QU43
UniRef90_C7LL69
UniRef90_D3EHZ7
UniRef90_W4QJJ1
UniRef90_E0T830
UniRef90_F7YX94
UniRef90_E4T1J0
UniRef90_F0VME1
UniRef90_R6VJR6
UniRef90_L5MYD9
UniRef90_R6HGW4
UniRef90_M7N313
UniRef90_E0NSL9
UniRef90_G5HQ81
UniRef90_R3W2V3
UniRef90_D8DYI9
UniRef90_C7TLV7
UniRef90_F0P1C9
UniRef90_R7NT69
UniRef90_G9WPH8
UniRef90_F9YTN8
UniRef90_Q3CZZ9
UniRef90_UP1000470EE39
UniRef90_F2L007
UniRef90_K1Y3E0
UniRef90_R5RXL1
UniRef90_M5RUH0
UniRef90_Q8I3X4
UniRef90_K9QRY8
UniRef90_R6EVM0
UniRef90_S8GX44
UniRef90_D7JET3
UniRef90_F8LIW7
UniRef90_I4B9E2
UniRef90_A3X0R9
UniRef90_UP100036168EF
UniRef90_R7LJ39

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

UniRef90_D9R415 S A T N Y K S Y T N D H K D Y P R E W E D R A I Q V G I E A M T Q
UniRef90_D5U8N5 V L H N Q E R K N N I N D P K D Y T G E E A I D L I I E S I
UniRef90_H2FSU0 V I V N R T Q Q E M P D D S T L Q A T E Q K A I A D I V V S A A R R
UniRef90_C7P052 V Y A N R R V T G E F R T E G E R R A A K T A S L A I R M D A A V E
UniRef90_G2MH42 V F A N R R I T G E F M T E G E S V A A E T A S L A V K L
UniRef90_D2RVE1 V Y A N R R E T G E F R T E G E S R A A E T A T L A T H L
UniRef90_X1MMT3 V Y A N R R E S K S F I S A K E M R K D A E M R C I L T G L K A I
UniRef90_U1K7F7 V L V N R T R Q E I P N V D H Q M V E K N A V S V V I K A A
UniRef90_B5Y654 I L E Q S T I N D Y A S G E R A A A M G E E R E I K L A L E T
UniRef90_I0GJL8 L D G N V Y L K K F D A E E L F K R A E E D A I N I G L E A I Y R
UniRef90_R9XT88 V I V N R T Q Q E I P N E A T I K G T E D R A V S V V V E A A
UniRef90_Q87H86 N N V V L Y Q Q D V K E G V I G Q Y V D E M M E T A L E A L I
UniRef90_I2F7H5 C Y A N R Y K Q S A G T K V D L E N S V K E T I E I T L T A I
UniRef90_UPI0003B6A9C0 A I A N Q E R E K Q G L S N P Q D H N L H P M F S C A V E T
UniRef90_H2J3C0 I R E E L Q E G D G E Y L A G E E Y E N G L E K S I Q I A I K A V I
UniRef90_U2DXH4 V V I Q N Q G E R A A L G M E N P Y D H D T E K A I K A T I E G I
UniRef90_A8F6W6 T D S N I W L N P Q P L E E K E K L F S K A E K K A I D V A L K
UniRef90_UPI00037B79CE V I V N R T G E N E T P D T E K L A S V E P N A I N T V I G A A
UniRef90_C5EM61 S A T N F C Y S N D A E E D Y P S G W E Q R A I E V G I E
UniRef90_B7CDB0 C L A N Q E R E K A G L S N I Q N H D L K P L M E C A V Q T I
UniRef90_A1SYK8 V I V N R T Q Q E I P D Q S T M K K T E V S A I S I V V A A A R K
UniRef90_I3VUD7 V V V A Y E G N L K E G I N E Y V D G K D A M I L T A L E A I V R
UniRef90_G5HMX4 S A T N C R N Y S D N G R N T E I D I E D R A I R T A I E A
UniRef90_C5KW27 V D G S P L K W D D G D Y D P H G E V V E R M I K V G L E A A
UniRef90_D9PZN7 V Y A Q R V K D E F V A H A G E E N L I K V A D E A V I
UniRef90_T1AU81 V I A K R T E S E E V N L E A Y A V A F S R L A K I I R G A I I N
UniRef90_U1P7D0 V Y A N R E T G E F V T A G A R D A A E T A S L A V V L
UniRef90_UPI000393E780 N V V L Y E Q D V Q Q G I A Q F N Q A E A D M M Q I A L E A L V
UniRef90_K2DVC4 V V A V R V E S E K V S V D T K Q G A A K N W E K I A I E G I Y Q
UniRef90_UPI0003032053 V V V E A D G D L E T G I N E Y K Q Q G E E R E I L V A L E T I L
UniRef90_A3URL3 N N V V L Y E Q D V K E G V I G Q Y V D E A
UniRef90_N9XMQ7 A D A P A V I E G Y Q P D E E M V A L A V I E H E I L I A L E A L I R
UniRef90_D2TWP0 V I V N R T Q Q E T P D E T L D R Q T E G N V L G I V V D A A R R
UniRef90_A6G946 V Y A N R R V D N T F I A D A D K S A A E K R C I Q A G L E G L L K
UniRef90_B0TYM5 V L A K R T T S E S V N K S R Y D E G M Q N I M S I
UniRef90_M8EAB7 I D G Y A D A D L L E T Y D P H T D F T R K A I E I A L D A I V
UniRef90_B0P6N0 Y T D M R K T V E
UniRef90_V4Y7U8 V Y A N R I T G E F R S E G E T R A A E C A S L A V K L
UniRef90_N2A9Q9 N N V V E A E G D L T D E I N N Y V D G A S A V A
UniRef90_A1RWF6 V V D N L L S G S E L V I E G R E E L E L K M V E A G L E A L R R
UniRef90_M1Q1M8 V N G D A S E D K S L I N R A I K R E I E V A L T A A
UniRef90_K1Z625 V N A N P E V K T E I T E D I T I Q T V D K M I R V A L E T
UniRef90_G5IEB0 W G D M E Q T I E
UniRef90_S2W9J3 I D G N P L K D E D T S Y E P D R E I V T K A I D A T L E T S L K
UniRef90_L8MA01 V V A Q R N N Q E N I L A D K D L A V S R A I K V A I E T I
UniRef90_V5CG51 V V V E H E G C L T E S I N D Y Q Q G E E H E I L L A L E A M Y Q
UniRef90_Q5E046 N V V L Y Q Q D V K E G V N Q Y V N D N K A M M N T A L E T L C K
UniRef90_G9RY32 W G D M N E T
UniRef90_R6SJK7 Y G
UniRef90_V7I8T3 S A T N Y K S Y D Q D N I L L S P L E I E K R V I I T G V E A
UniRef90_A8FZL3
UniRef90_G5LXY5
UniRef90_UPI000465B883 T V V Q Y E E S L E E N I N L Y T G G E S A M M R T A L Q A F V R
UniRef90_G8WD71 C L D S S I N D Y V Q Q E A L C Q Q G E E R Q I T L A L R A I Y
UniRef90_UPI0003F94EE8 V S D N P M T D V G V K T A E S D R K V T K H I N I G L E A M L E
UniRef90_E1QU43 V I A N R K T N E F V P D A G V E D A I K V A N E A V
UniRef90_C7LL69 V S D N L D H S N D L T A K Q R E I A T L K M Y Q D V L E K L
UniRef90_D3EHZ7 M D G F A D A D L A E Y D P N T N V V A D A V E T A L Q A V V K
UniRef90_W4QJJ1 I D G Y A D D D L R E Y N P N R E S V S R A I H I A L D A I R Q
UniRef90_E0T830 V V V T H N G G L E Q G I N D Y Q Q G E A R E I E L A L N A I R Q
UniRef90_F7YX94 V R E E L S E E
UniRef90_E4T1J0 I I A N R R V E A A N T D Y K P Y I E K L V T T V L E R I
UniRef90_F0VME1 V D G S P L K W D D G D Y D A T G A T T Q K M L K I V L K A C A N
UniRef90_R6VJR6 V H V S R R K N E K W E C E E D Y R K L H Y E M A Q L V L D A M L E
UniRef90_L5MYD9 I D A T P M
UniRef90_R6HGW4 V I A K R T Q S E S I A P P E A S E R F R A V A K K A L Q T L L K
UniRef90_M7N313 V S D N P M V P E G V K T A E S Q Q F V N K H L A I G I D A L M E
UniRef90_E0NSL9 V I A N R R T K E A N A N Y K N S I D G L I Q L V L D R I
UniRef90_G5HQ81 V V A N R V I E N S F Q Y D N S T V D H N L E V A
UniRef90_R3W2V3 V H V S R R K N E K W T N D E D Y R R I H K A S S E I V L S C L V
UniRef90_D8DYI9 V I A N R L A G E A N S S Y K N T I D G L I E K V L
UniRef90_C7TLV7 V H L S R A T Y K W E K P E D Y N R I H Q R S A E S V L E S V L
UniRef90_F0P1C9 I V A N R I R G E F S K N P Y E S V D R M I E Y A L E R I T K
UniRef90_R7NT69 V I A N R L I K E A N T G Y K N S I D E L I K K V L E R I
UniRef90_G9WPH8 T T V L E N L K K V L L G E E R K A E D L L C K V A L E G I Y R
UniRef90_F9YTN8 I I A N R A N G T F T K D T K A G E N L I V Y G L N Q L A K
UniRef90_Q3CZZ9 V V I G N Q E R N A L G M D N P M A H D T E A A I Q V A V E A L
UniRef90_UPI000470EE39 V S D N P M V P E G V K T E E S D R K V T K H L D I G I E A L A E
UniRef90_F2L007 V I A N R L A K E A N A G Y K N T I D G L I E K V L E R I
UniRef90_K1Y3E0 I I A N R H L H E S Q P D Y K P Y I K K L V T L A L E K L T Q
UniRef90_R5RXL1
UniRef90_M5RUH0 V S D K P L H G K P K L P G D A V A F Y N E T K K H H L S I A M E
UniRef90_Q8I3X4 V D G C P F K W D E G D F D N V P H Q L E N M I K I A L G A C A K
UniRef90_K9QRY8 V V A Q R T I T E E V I L S Q K D M A V N N A I A T A I Y A A
UniRef90_R6EVM0 V I A N R R I K K A D T S Y K N H I D N L I K E V L E R L
UniRef90_S8GX44 V S D R P M L P E G V K T E K S D K F V A E H V Q I G I D S L
UniRef90_D7JET3 I I A G R I S K D M N T N Y K G S M E G L V E T V L K R L V
UniRef90_F8LIW7 T A D S L A D I D N Y D Q R D W S E A F D K A L E L C L D I I V Q
UniRef90_I4B9E2 V S D K P L H G R P K L S G E A Q A F Y A N S K E K H L E I A I R
UniRef90_A3X0R9 V S D Q P M I P E G V K T E A S E N Y V E T H I K I G I E A L
UniRef90_UPI00036168EF V S D Q P M L P E G V D S E V T R N Y V R E H V E I G I A S L
UniRef90_R7LJ39 V I A N R V I A G R A N P N Y K N S I D N L I K L V L E R I

UniRef90_R6YN43
UniRef90_UPI00041BC787
UniRef90_UPI000478A0DA
UniRef90_F4B5L6
UniRef90_R6LQA4
UniRef90_UPI00047815F1
UniRef90_UPI000255D852
UniRef90_UPI00047BFEB9
UniRef90_H1Z7M4
UniRef90_U2JK14
UniRef90_F0IC60
UniRef90_H8KL84
UniRef90_UPI000465AC87
UniRef90_G4AIM0
UniRef90_G5GEJ2
UniRef90_UPI000428E2A0
UniRef90_L7WDS7
UniRef90_D5BFC4
UniRef90_F9ZBY6
UniRef90_UPI00016C3A73
UniRef90_R7PPX4
UniRef90_Q1Q2B4
UniRef90_I6YWH3
UniRef90_V4P9Z2
UniRef90_B1HZH8
UniRef90_UPI00042913BD
UniRef90_E1M2L4
UniRef90_D7VPC2
UniRef90_R6S7J0
UniRef90_UPI0003FD42D7
UniRef90_R6A758
UniRef90_J9FNB3
UniRef90_W2C624
UniRef90_UPI0003783EBF
UniRef90_F4FSY1
UniRef90_UPI000237D3F7
UniRef90_UPI0003730558
UniRef90_C9LDK4
UniRef90_D9R6U2
UniRef90_K0K033
UniRef90_V7I2U9
UniRef90_S0JRW4
UniRef90_C0MC30
UniRef90_I7I2W8
UniRef90_UPI00029A3EF7
UniRef90_UPI00047E2583
UniRef90_H0IXV8
UniRef90_D3IDP6
UniRef90_R5CRT0
UniRef90_C6Q1P7
UniRef90_U6GEW8
UniRef90_F0VVX7
UniRef90_UPI0001DD076B
UniRef90_R9VKG7
UniRef90_R3WKM6
UniRef90_W2UPN7
UniRef90_R5JJ18
UniRef90_G9RSH4
UniRef90_UPI0001C37173
UniRef90_W3ADI2
UniRef90_UPI000287AC7C
UniRef90_F2IG40
UniRef90_UPI00041253DC
UniRef90_I1E292
UniRef90_F5SCY3
UniRef90_R6ZDU0
UniRef90_T0UK37
UniRef90_R7EW76
UniRef90_UPI0004701F83
UniRef90_G221D2
UniRef90_Q0C2N1
UniRef90_I2J4F1
UniRef90_W0EZL5
UniRef90_D4W1V2
UniRef90_U7VCL1
UniRef90_G4QJW8
UniRef90_B7GIU7
UniRef90_G2HXT3
UniRef90_J0RTP2
UniRef90_UPI000371DED3
UniRef90_Q6L2U4
UniRef90_A0A011LZV1
UniRef90_D5TNU7
UniRef90_A0M1U8
UniRef90_UPI0003755FEA
UniRef90_J8T6U4
UniRef90_R6DRQ9
UniRef90_UPI0003B56985
UniRef90_S5U209
UniRef90_R5Y2M5
UniRef90_E3H7P1
UniRef90_C5LA72

1 10 20 30 40
Y H L H V K P E Q L A D K I I V V G D P A R V D L I A S Y F D D V E C Q L V
Y H L N L K P E H I A H D I I F V G D Q N R V E K I T Q F F D K I E F S A Q
Y H L N L K P E H I A H D I I F V G D Q N R V E K I T K H F D S V E F S T Q
T L Y M G A S E E T V A K Y V L F S G D P W R V E V V K K Y L D N P K K V A F
P H I Q L L D G S L D V R K A I V V G D P A R V D I V K S V L E N P Q D L T Y
F H L H L K P Q E V A D N I I L V G D P G R V D T V A G F F D R I E A G A Q
P H L P C G P G D L A E D V L I P G D P D R V E L L A S M L D N V I S F G R
Y H L N L R P E H L A E N I L F V G D Q N R V D R I S R H F D T I E E F S T Q
Y H L N L G K E N I A S T I I L V G D P E R V L V V S A H F D S V E E F T A H
G T E L K D F G E Y I L L T N F N N Y V R L F A E W E G V
G V P L E A F G E H V L L T N F G G Y L A H F A R M T G A E
G L S L E D F G E H I L L T N F N H Y V D L F C E L S G V P V E E T T S
D E F G D Y I I L T N F S K Y V Q L F A D W H D G A P
Y H L N L K P Y Q L A Q T I I T V G D P E R V V K E I S K H F D V I E L K V G
Y H L N L R P E H L A D T I I T V G D P D R V A K V T E H F D D I E F S I K
D F S K Y I L L T N F E Y Y L E L F S E L Y Q V P I V
E Q F G K Y I L L T N F A H Y V D L F A E R Y G V E
Y H T G L S K E L I A S Y A V V P G D P A R V E P L A K S I G Q N A A F L T S
Y H L D L N S K N I A K I A L L P G D P F R S Q I I A E T Y G T G N E R L A W
G T K I D E F G D Y L L L T N F Y N Y V T R F A D R F N C D V K G I G K
W R K
Y H L H L K P E H L A S V V F T V G D P D R V P M V S R Y F D Q I D F Q T R
H L P K K C V I Y A F L D E E E I D R Y A R E V D C V G E F L S A
Y H L N I M P E D L A N T K I I T V G D P D R V I A E V S K Y F D H I E L K K G
L K A M K G D N M R Y G I C A M D E E L K D L L E N L E D R T D K E
A R V A V I G A L E E E V T L I A A S L D N V S R E H A N
F H L H V K P E Q L A D K V I L V G D P G R V P L V A S H F D T K E C D V S
F H L H V R P D Q L A D K V L V G D P G R V E T V A A H F E T R E C E V E
K L E D F S D H I L A M A E E V R E L V A A M D D Y E Q V
I I C A M D E E L A I L K E A L S G E E T K H
D F T K H I L L T N F Q H Y V D L F S K W H N Q P I L G V N H
F H L H L R P E Q L S D K I V V C G D P G R V D M I A S R F D S R E C D V S
F H L H L K P E Q L A D K V I L V G D P G R V P M V A S F F D E K E C D V Q
P H I K L S E E H A V Y G L P G D P K R L D R I A A C L T D V E E L A F
H L H L T A G D V G G Y A L L P N N P D H V A A L A H L D P V F V A R
T L Y L K A D K E T I S K Y V I F S G D P W R V E M L A Q K L D D P K H I A F
A E I D D F P K T V V T C F A R A T F N R V L N A L P H R L I A T T S
Y H L D L R T E E I A D L I I T V G D P G R V S L V S Q H F D K I E V Q R S
F H L H L K P G E L A N N I I L V G D P G R V E T V A S F F D K T D F H S V
K I A I I G A M E E V L L R D N I D G R S Q E T
I I G A M A Q E V N L L A S Q L E N A A R Y E
F H L H L K P Q H L A D K V I L V G D P G R V E Q V S S F F D S I E C E V S
F H L H L K P C Q L A D K V I L V G D P G R V T L V A S H F D S I E C E V E
I I G A M D E E L E I L L K E M K L D R K E I K A
P H I Q L R K G Q V H P V V L T M G D P K R V D E V T A L C D S F E N L T F
I Q A L P D F P K T A V T C F A R G T F A R I L A E F P H R E I A K T S
W R R
C A G G N W L T A D T E A P E Q A I S D L A W K K
K I G I I G A M E Q E V K I L R E T M Q V P V S W E
Y H L N L L P E D I A D T V I T V G D P D R V T S V S R Y F D R I E I K K G
I N K I G V I G A M N E E V V S L T K M L N N K K E T R
L M G A M R E E I A L L C E R M T D K G E E T
I K N
Q V N E
G T E I S E F G E Y V L L T N F S N Y L N K F A K R F D C E I K G K G G
Y H L G I S P E N I A P T I L L V G D Q D R V A L I S S F F D K I T H Q S K
Y H L D L A P S Q L A T T I I T V G D P G R V E K V S K Y F D S I E A K A E
I I G A M P E V A L L R E Q I S E V T H H
I A I I S A M P E E V I P L R Q Q L G I G E P E Q
I I G A M D E E V A K I K E E M T Q V I Q V T R
D F P K T V V T C F A R A T F A R I L A D V P H R Q I A K T S
F H L H L K P E N L S D K I L L C G D P D R V G M I A S R F D S I E C D V S
Y H L N L K P E N I A N D I I F V G D Q D R V E K I T C L F D S I E F T Q Q
A S P W R R
K I G I I A A M P E E L I Y L V Y H L E K A Q E E L
Y H L D L R P E E I A T T I I T V G D P D R V R E F S K Y F D T I E V Q R Q
I A I I G A M E E E V T L R E A M E V E V K T
I I G A M N E E V I Q L K E A M V L N E T R E
K I A I L G A M D E E V K L I K E S L E D L Q Q V T
N I A I I G A M E E E V A L L R E K I A N R T E T T
K L A I M G A M E E E I E P L L A H F F E N V N I V E
Y H L N L R P E H I A H D I I F V G D Q N R V E K I T Q F F D S I E Y S A Q
K I A I I G A M E E E V L I L R E A M E N K E V K T
V S E N V I I V G N L E R Q R T V N S F L G N L E K V S E
L M V E P K V T E
I Q E E Q T
Y H L G L L P E E I A N T V I T V G D P A R V Q K I S V H F D S I E V K K Q
G T P A E S F Q R H V L F T N Y A M H V E A F L E R F D A Q G P S R S G
I I G A M E E E V E L L K S K I D N R V D T T
K T G I I S A M W V E A E K L H M A M E Q D T V K E Y E
Q I D P Q K V G E Y V L T V R D P L P A K L I A E K L E K S E R I G L
W K K
M M D I E K T V D
P M H V T V G R E H L G R F W I L P G S R D R A K H I A E N Y F R D V E V I P S

UniRef90_R6YN43 S R E F H T T T G T Y R G K R I S I I S T G I G C D N V D I V L N E I L D A L L A N 80
UniRef90_UPI00041BC787 K R E F K T Q T G T Y K G K R I T V M S T G I G P D N I D I V L N E L D A L V N
UniRef90_UPI000478A0DA K R E F Y K T Y G T Y K G K R I T V M S T G I G P D N I D I V L N E L D A L V N
UniRef90_F4B5L6 F A G Y Y T V G T Y K G E K R V S V V F H G I G P S L T L V T H D L D Y N L G
UniRef90_R6LQA4 M R E F N T Y T G T Y K G V E I L T V T S T G I G A P S A A I A M E E M Y E S L G
UniRef90_UPI00047815F1 N R E F K S A T G T Y K G H K L L V L S T G I G A P S M V I A I E E L K A I G
UniRef90_UPI000255D852 N R E F V F R T G N Y K G T R F T V L S T G I G T D N I D I V L N E L D A L V N
UniRef90_UPI00047BFEB9 K R E F A V I T G T Y K G H P L S I C S S G I G G P S T E I A L V E L S M L G
UniRef90_H1Z7M4 K R E F K T Q T G T Y K G K R F S V I S T G I G P D N I D I V L N E I D A L F N
UniRef90_U2JKI4 H R E Y R S L R G K Y K E M P V L A L S T G I G G P S A G I A L E E L K N I G
UniRef90_F0IC60 K R E F V T H T G T F Q G K R L S V A L S T G I G T D N I D I V L N E I D A L F N
UniRef90_H8KL84 L R G Q D K P M L N A T S R D I T L I N F G M G S P N A A L I M D L L S A I K
UniRef90_UPI000465AC87 I V G V D R P M P S A T A D G I T M I N F G M G S P N A A T M M D L L S A I R
UniRef90_G4AIM0 N M R A V T A N G I T M I N F G M G S P N A A L I M D L L S A I V K
UniRef90_G5GEJ2 I Y G L D K P M Q S V T A D G I T M I N F G M G S P N A A L A T M M D L L S A I K
UniRef90_UPI000428E2A0 K R E F H T H T G T Y K N K R I S V I S T G I G T D N I D I V F N E L D A L V N
UniRef90_L7WDS7 K R E F H T Q T G T Y R G K R I S V I S T G I G T D N I D I V L N E L D A L V N
UniRef90_D5BFC4 K R E F H T Q T G T Y R G K R I S V I S T G I G T D N I D I V L N E L D A L V N
UniRef90_F9ZBY6 G A D K T M P N Y S G K R I T L V N F G M G S P N A A T L L D L L S A I E
UniRef90_UPI00016C3A73 V M G R D R P M T S A T A E N I T L N F G M G S A M A A T V M D L L S A I E
UniRef90_R7PPX4 H R D Y T T W I T Y V N K Q P V L V M S T G M G G P C V T F A V E E L A R L G
UniRef90_Q1Q2B4 K R E Y C S Y L T E V S G K Q K I L I T S T G I G G P S A S I A V D E L A Q L G
UniRef90_I6YWH3 P M Q T A T N S K G L S I I N F G I G S A N A A T I M D L L I A R N
UniRef90_V4P9Z2 H Q M P A Y H L M R E G R Q G I T L V N I G V G P S N A K N I T D H L A V M R
UniRef90_B1HZH8
UniRef90_UPI00042913BD K R E F V T H T G R K N G Q R V T V M S T G M G T D N I E I L M T E L D A L V N
UniRef90_E1M2L4 T K T Y P V Y H T G M S Y K G K R I C L A Q A P V G S A P A V Q F M D W L I G Y G
UniRef90_D7VPC2 K R E F I T H T G T Y K G K R I S V I S T G I G T D N I D I V L N E L D A L V N
UniRef90_R6S7J0 V G G T E F Y T G K I K G K E V V L V R C G I G K V Q S G I T T A L M I V E F N
UniRef90_UPI0003FD42D7 V A H G S M T T R S G D T E V I A A T V G M G L V N A A A T T Q F L I D Q Y H
UniRef90_R6A758 N R E F R T I T G T Y H G K R I T V V S T G I G C D N I D I V V N E L D A L V N
UniRef90_J9FNB3 S R E F R T V T G T Y R G K R I T V V S T G I G C D N V D I V L N E L D A Q F R
UniRef90_W2C624 S Y G G Q L F Y D G T L S G I S V T I V N F G M G S S N A A T L M D L L S A V M
UniRef90_UPI0003783EBF Y G N A D Y Y L G T L H G Q T L V I V K S G I G K V Q A G I T T S T L I N E F H
UniRef90_UPI000237D3F7 N S R E F H T I T G T Y K G K R V T A L S H G I G G D N I E I V M N E L D A L V N
UniRef90_UPI0003730558 S R E F R T I T G R F Q N K R L T V V S T G I G C D N I D I V L N E L D A L A N
UniRef90_C9LDK4 H R E F R S L K G K Y R G V P V M A V S T G I G G A S A A I A V E E L A R I G
UniRef90_D9R6U2 N R E F E T W R G T L D R E T V V V T S T G V G G P S T A L A V E E L A A L G
UniRef90_K0K033 N R E F N T Y T G T Y H G I P V T I S S T G I G A P S A A I A M E E L Y D C G
UniRef90_V7I2U9 G A V F Y A G T Y A G H D V I V V Q S G I G K V L S S L T T S D I T Q Q Y E
UniRef90_C0MC30 V A N I P I Y E L D V K G H K L G F F N S Y V G A A G C V G V L E D I J A M G
UniRef90_I7I2W8 H R E F V T H T G Y L G T N R I T V L S T G I G M P N I D I V M N E L D A L A N
UniRef90_UPI00029A3EF7 N R E F V S Q T G T Y K G L P V I T V L S T G I G T D N I D I V L N E L D A L V N
UniRef90_UPI00047E2583 V A G C E F T F G Q M H G A N V I L L R S G I G K V N A A M S T T L L L E R Y K
UniRef90_H0IXV8 H A G F V F Y T G T R Y G L E V V V L Q S G I G K V N A A V I G T A L L E R H Q
UniRef90_D3IDP6 N R E F K S V T G V Y K D K R I T V V S T G I G C D N I D I V V N E L D A L A N
UniRef90_R5CRT0 S R E F H S I T G L Y S G K R I T V T S T G I G C D N I D F C T R M E K D E F R
UniRef90_C6Q1P7 N M L F N S G K I Y N Q E V V V V R S G I G K V N A A I C T Q L I D D F Q
UniRef90_U6GEW8 N R E F K S A N A V K N Q K F T V I S H I G S C S S M I C F E E L I K L G
UniRef90_F0VVX7 V T N I P I Y E L N F Q G Q K I A F F N S Y V G A S G C V A I L E D I V A M G
UniRef90_UPI0001DD076B H Q M P A Y H L I G E D G D G I T L V N I G V G P S N A K T I C D H L A V L R
UniRef90_R9VKG7 H Q M P A W H L V T A D G Q G I T L I N I G V G P S N A K T L C D H L A V L R
UniRef90_R3WKM6 R A G A L F V S G T I G K H E V I V R S G I G K V L S S I T T S L L I Q V Y G
UniRef90_W2UPN7 K R E F V T H T G E L N G K R L S V I S T G I G T D N I D I V L N E L D A L V N
UniRef90_R5JJ18 V A G L T F Y E G Q I S G K R D L V V V E C G I A K V N A A M T T Q L I S E F K
UniRef90_G9RSH4 V A G V T F Y T G L S G R R V A L C C A G I G K V N A A C A A Q L I A R F G
UniRef90_UPI0001C37173 I S G F D F Y I N Q H C G K T I I N A C C G I A K V N A A L C T Q V M I D N F H
UniRef90_W3ADI2 I A N C E F T T G T Y K G Q D V S L L K S G I G K V N A A M S T T L L L Q Q F K
UniRef90_UPI000287AC7C P M Q T A T N S N G L S I I N F G I G S A N A A T I M D L L T A C N
UniRef90_F2IG40 H R E F V C H T G T Y K G K Q I T A L S T G I G T D N I D I V I N E L D A L V N
UniRef90_UPI00041253DC H R E F K T H T G T Y K G K R I S V I S T G I G P D N I D I V F N E L D A L V N
UniRef90_I1E292 S G G Y T F Y Q G T A G M P V I V L V Q S G I G K V A A A L A T A L L I Q Q F K
UniRef90_F5SCY3 V G G L E L S M T E W N G L Q V I T A V S G I G K A Q A G A C I Q Y L I T R H H
UniRef90_R6ZDU0 T A G M D F Y V G K L C G Q D A V V V R S G I G K V N A G M C T Q L L A D R F Q
UniRef90_T0UK37 V A N I P I Y E L E F K G Q K I G F F N S Y V G A S G C V A I L E D I A M G
UniRef90_R7EW76 C Y F P I Y R V R G T N I G V V R T T V G A P I T A T L T E E I S Y V I S
UniRef90_UPI0004701F83 N R E F R T I T G F Y K G K R I T V V Q S H I G G D N I E I V V N E V K D D F R
UniRef90_G221D2 K R E F K T Q T G W Y K G K R I T V L S T G I G P D N I D I V M N E L D A L V N
UniRef90_Q0C2N1 F Q M P A Y H L R A N G A G I T L V N I G V G P S N A K T I T D H L A V L R
UniRef90_I2J4F1 V L G N T Y H T G S I S S V E V L V S S G I G K V M S A M S V A L A D H F Q
UniRef90_W0EZL5 H R E F V T H T G L I A G K R L T V L S S G I G P D N I D I V M N E L D A L A N
UniRef90_D4W1V2 I A H V E F T K G L L N G T S V V L L R S G I G K V N V A I A T T L F E H F D
UniRef90_U7VCL1 L G G Y K F Y R G T L G K E I V L V E C C G I G K V N A A I C S T L L I Q E F K
UniRef90_G4QJW8 Y S H L V F Y T G K L H G H E I V L V K C G I G K V A A A V A T T M I I E K F D
UniRef90_B7GIU7 V A N C S F Y S G T L D G A N V V L L K S G I G K V N A A M S T T L L E R F A
UniRef90_G2HXT3 F A N N K Y E G V I N G L D I V I A Y S K I G K V F A S L T A A T M I I E K F G
UniRef90_J0RTP2 K R E F K T Q T G T Y K G K R I S V V S T G I G P D N I D I V L N E L D A L V N
UniRef90_UPI000371DED3 I A G S E F T T G T L R G V D V I L L R S G I G K V N A A M T T S V L I H E F Q
UniRef90_Q6L2U4 F A G Y T S Y Q G E Y N N K K V T T V F H G I G I P S S L I T D D L I S L G
UniRef90_A0A011LZV1 L A G C K I F E G K I N H K R V A L L Q S G I G K V S A V G T T L L I Q L V Q
UniRef90_D5TNU7 I A G M P F Y I G E F M G T E V I A R S G V G K V N A A A C A Q T L I H K F N
UniRef90_A0M1U8 K R E F C T H T G T Y K G K R I T V M S T G M G T D N I D I A T T E L D A L V N
UniRef90_UPI0003755FEA V Q M P A W H H Q T E N G D G V S L I N I G V G P A N A K T A T D H V A V L R
UniRef90_J8T6U4 I A G C E F H Q G T M N G K E V V L L K S G I G K V N A A V G T T L L I Q L F K
UniRef90_R6DRQ9 Y N G M K F Y E G R I C G C D V I V L S T C G V G K L N A A I Y T Q L M L D K F A
UniRef90_UPI0003B56985 S G M F T S Y S G T Y K G A R I V L V S G S G A S E A E L L Y D Y M E Y S A
UniRef90_S5U209 Y Q M P A Y H L I A K E G P G I T L V N I G V G P S N A K T I C D H L A V L R
UniRef90_R5Y2M5 K A S L K F Y L G K L E G K D I V L V E C C G I G K V N A A L C A Q L I S E F G
UniRef90_E3H7P1 N L T F Y R G K L E G K D V V L V E C C G I G K V N A A I C T T L L D H Y K
UniRef90_C5LA72 P R G H D G Y I G K Y D A P D I G V I S T G M G A P S V D I I A T E M I K L G

UniRef90_R6YN43 I D F Q T R I L G T S G G L Q E A D I P V V D S F V M S E V S I G F D G W S G N M C C
UniRef90_UPI00041BC787 I D N I V R I L G T S G S L Q E A D I P V V D S F V M S E V S I G F D G W S G N M C C
UniRef90_UPI000478A0DA I D N I V R I L G T S G S L Q E A D I P V V D S F V M S E V S I G F D G W S G N M C C
UniRef90_F4B5L6 V K E L I R F G S A T G L Q A D V K P G E V V V P L G Y S Y N L G D N M L R S S Y L L N
UniRef90_R6LQA4 M Q V A V R M G T V M S M Q D S M L G H F M I P T A A M R R E G G T S Q S Y V V P
UniRef90_UPI00047815F1 V E S V I R A G S C G A M D S S F K V G E L M V V T G A V R D E D G L T E K Y V P
UniRef90_UPI000255D852 I D F I V R I L G T S G S L Q D S Y L P V G V D S W L F S D K A I G F D G L T E F Y N G E
UniRef90_UPI00047BFEB9 A K R V I R I L G G M S A L V P Q I P Q T G S F L V L V S Q N A I G M T G V G D L Y G E
UniRef90_H1Z7M4 I D N I V R I L G T S G S L Q E A D I P V V D S F V M S E V S I G F D G W S G N M C C
UniRef90_U2JKI4 V R Y A I R I L G S G A L Q A D I P V L G E L I L L A E G A V R E E G T P K M Y V R
UniRef90_F0IC60 I D K F I R L G T S G S L Q A E I P V L D S I V L L S A Y G L G M D C L L H S Y K D
UniRef90_H8KL84 P K A S L F L G K C C G L K K K N E L G D L V L P I A A I R G D E G T S N D Y F P
UniRef90_UPI000465AC87 P K A V L F L G K C C G L K K K N E L G D L V L P I A A I R G D E G T S N D Y F P
UniRef90_G4AIM0 P S A C L F L G K C C G L K K K N E L G D L V L P I A A I R G D E G T S N D Y F P
UniRef90_G5GEJ2 P K A V V F L G K C C G L K K K N E L G D L V L P I A A I R G D E G T S N D Y F P
UniRef90_UPI000428E2A0 P K A V V F L G K C C G L K K K N E L G D L V L P I A A I R G D E G T S N D Y F P
UniRef90_L7WDS7 V D F N T R V L G T S G A I V Q S D K I P V V D S F L L L S Q R G I G F D S L M H W Y D S
UniRef90_D5BFC4 I D F I R I L G T T G S I Q A E N S I V G D D T F L L L S E K A I G F D S L M H W Y D S
UniRef90_F9ZBY6 P E A V L R I L G K C C G L K K E N S I V G D D Y I L L P I A A I K G E G T S D D Y L P
UniRef90_UPI00016C3A73 P K G V L F L G K C C G L K S I K V L G D F I L L P I A A I R G E G T S H D D Y L P
UniRef90_R7PPX4 I T R F I R V G T T G S I Q E N I L E L G D V V I N N A S V R I E G A S K S Y A
UniRef90_Q1Q2B4 I Q T F I R V G T S G A I Q E Y I L D I G D V I I T T G A V R L D G A S T H Y A
UniRef90_I6YWH3 P K G V L F L G K C C G L K R S T E I G H F I L L P I A A I R G D E G T S N D Y F P
UniRef90_V4P9Z2 P H V W L M I G H C G G L R P S Q S I G D Y V L A H A Y L R D D H I M D D V L P
UniRef90_B1HZH8 P H V W L M I G H C G G L R P S Q S I G D Y V L A H A Y L R D D H I M D D V L P
UniRef90_UPI00042913BD V N Q I I R L G T S G S M Q E S I P V G S I L A S E A A V G M D T L M S Y Y P E
UniRef90_E1M2L4 V E Q L I R S T G T C G G L Q A D I P E E N A F L V S P V R A L R D E G A S Y H Y V A
UniRef90_D7VPC2 I D F Q I R V G T S G A V L Q A D I P E M G T I L A S E V G L G F D A L M Q Y Y I G
UniRef90_R6S7J0 V D C V I N S G S A G G I L G N G L H I V G D V V L S T G A A Y H D D G Y K K G Q L P
UniRef90_UPI0003FD42D7 P D A L V F S G I A G S L N K D L H I V G D V V L S T G A A Y H D D G Y K K G Q L P
UniRef90_R6A758 I D F A T R I L G T C G G L Q P N T P E G T F V A S E I S I G F D G L L N F Y A G
UniRef90_J9FNB3 Q L E M V R I L G T C G G L Q P N T P E G T F V A S E I S I G F D G L L N F Y A G
UniRef90_W2C624 P K A V L F L G K C C G L K R A N S I L G D Y V L P I A A I R G E G T S N D Y L P
UniRef90_UPI0003783EBF C Q V I L N T G S A G G I D D S S I Q D L V I A D D L T Y Q D G G Y V Y Q L P
UniRef90_F4FSY1 V D A V I N S G S A G G I G E G L S V G D I V V S T E T A Y H D G Y Q M G Q L P
UniRef90_UPI000237D3F7 P K A V L F L G K C C G L K K K N E L G D L V L P I A A I R S D G T S N D Y L P
UniRef90_UPI0003730558 I D T I V R V G T S G G L Q E D N D P V G A Y V A S E Y S I R F S D G V L H F Y A D
UniRef90_C9LDK4 I D F E T R I L G T C G G L Q P N T P E C D L A M E K A F V Q H M G W K G A Q C I
UniRef90_D9R6U2 V K A M I R I L G S C G S L Q K G I R L G D L L V N G A V R D D G A S S S Y V L
UniRef90_K0K033 V H T M I R V G V S G S L R P D I L G N G E L A V I T A A I R D E G A T S R Q Y L P
UniRef90_V7I2U9 M E V A I R M G T V M G L K D G M L G K L L I P N G S M R M E S T S D T Y V
UniRef90_S0JRW4 V D C V I N T G S A G G I G A G I L A V G D L V I P S E K L A Y H D Y A Y G Q V P
UniRef90_C0MC30 M K Q L L V F G T C G V L D A T I S E N S I I I P T S A I R D E G T S Y H Y Q P
UniRef90_I7I2W8 I D T I R I L G T T G G V T A N C M P G D L A I S R Y A I G F D S L L D Y Y Q Y
UniRef90_UPI00029A3EF7 I D F I V R I L G T S G S L Q K D L P V V D S W L L S R K A I G F D G L L N F Y D G
UniRef90_UPI00047E2583 P D C I N T G S A G G F N P Q S L N V G D A V I S T E V R H H D G G Y E L G Q V P
UniRef90_H0IXV8 P D A V I N T G S A G G F A T D L N I G D V I I S D E V R H H D G G Y E L G Q V P
UniRef90_D3IDP6 I D F E T R I L G T C G G L Q E T Y P T G T Y I A S E K S I G F D G L L N F Y A G
UniRef90_R5CRT0 Q L E F V R I L G T C G G L Q E T Y P T G T Y I A S E K S I G F D G L L N F Y A G
UniRef90_C6Q1P7 V D K V I N V G I A G G I L G K D V Y P G D I V I A N N L V Q H D M D T S A F G D
UniRef90_U6GEW8 A K V I I R A G T C G S M K P A T L K Q G D I V P Y A A A R D E D N D V C D L Y V
UniRef90_F0VXX7 A E N I L V F G T C G V L D S S I K E T S I I I P T S A I R D E G T S Y H Y A P
UniRef90_UPI0001DD076B P E A W L M I G H C C G L R S S Q K I G D Y V L A H A Y L R D D H V L D P V L P
UniRef90_R9VKG7 P D V W L M I G H C C G L R E S Q S I G D Y V L A H A Y L R D D H V L D A V L P
UniRef90_R3WKM6 V N M V I N T G S A G G I G E G L H V G D V I S E K L A Y F H V E L G Q L P
UniRef90_W2UPN7 I D D I R I L G T S G S L Q P D I P V V D S F L L S E Y A I G F D S L L H Y Y L S
UniRef90_R5JJ18 V D A V I N T G V A G A L H Q Q I K V N D V V V S T E A I Q Y D V D A S F M G D
UniRef90_G9RSH4 A K A L V F S G I A G N M T D K I G V G D V V I G G T L V Y H D A D R E M D T F
UniRef90_UPI0001C37173 P D C V I N A G I A G G M D T K V K V C D I V I S N E V L P H D L H F L K D Y P
UniRef90_W3ADI2 P D V V I N T G S A G G F D Q A S A E I V G A L V I S D E V R H H D G T S M G Q V P
UniRef90_UPI000287AC7C P K G V L F L G K C C G L K Q S A E I G R Y I I P I A A I R G E G T S N D Y L P
UniRef90_F2IG40 I D N L I R I L G T C G I L Q A D I P V H S Y L L S T H A I G I D N V A H F Y P I
UniRef90_UPI00041253DC I D F I R I L G T A G G L T P E V E V D S F L I S T M G I G L D N V M N Y Q D N
UniRef90_I1E292 P A A V N T G S A G G F D P E L V N G D V V I S T E V R H H D D G Y A M G Q V P
UniRef90_F5SCY3 P T E V V N I G A A G A L S D Q L R I G D L V L V E E S I Y H D G Q P H T F P
UniRef90_R6ZDU0 A D A V I N T G I A G S L K N E I N L G D I V I S T D T V Q H D V D A S G F G Y
UniRef90_T0UK37 A E N L L F T G C G L D S N I K E T S I I I P S A A I R D E G T S Y H Y A P
UniRef90_R7EW76 C R K F V M F G S C G G L D S S I A P G K L I V P T H A Y R D E G M S Y H Y A P
UniRef90_UPI0004701F83 Q L T M V R I L G T S G S L Q P E A P I G T Y V A E K A I G F D G V I N F Y A
UniRef90_G221D2 I D N I R I L G T S G S L H A N I P V G S F V M S E K L G I G L D N M L R S Y Q I
UniRef90_Q0C2N1 P Q V W L M V G H C G G L R H S Q S I G D Y V L A H A Y M R E D H V L D A V L P
UniRef90_I2J4F1 V D A I I N T G S A G A V A D G I A V G D V V L A D K L A Y H D G Y D Y Q M A
UniRef90_W0EZL5 I D F I R V G T S G S L Q A D I P V D S F V A S T H G L G L D N L N F Y R P
UniRef90_D4W1V2 I E A V I N T G S A G G L H P E A N I G D V V I S D G A I Y H D N Y A Y G Q V P
UniRef90_U7VCL1 V D K V L F T G V A G G L N P D I N I G D I V I S T D L I E H D F N C T A F G Y
UniRef90_G4QJW8 P D Y V V N T G S A G G F A P S L N V G D I V I S D V V T H H D G Y V P G Q C A
UniRef90_B7GIU7 P D V V I N T G S A G G F A P S L N V G D I V I S T E V V H H D G Y A Y G Q V P
UniRef90_G2HXT3 C D T L L F S G V A G G I N P K L K I G D L V I A D K L C Q H D G H A H G Y V P
UniRef90_J0RTP2 I D N I R I L G T S G S L Q E D I P V V D S F V M S K F G L G L D N M L R S Y L I
UniRef90_UPI000371DED3 P N V I I N T G S A G G L S P E L Q V G D I V I S S E V R H H D G G Y E Y G Q V P
UniRef90_Q6L2U4 A R R I I R F G S C A N A I K E E I P G S V V I P Q G Y S Y N F F G G T F R Q Y L
UniRef90_UPI00011LZV1 P D L I I N T G S A G G L S N L N V G D I L I S T E V R H H D G G Y E I G Q L P
UniRef90_D5TNU7 V D S I I N T G V A G G L H P D V K V G D V V I S T N V T H H D K N Q M K K L F
UniRef90_A0M1U8 I D D L R I L G T T G S I R K E I P V G S Y I I S E L A L G F D G L M H Y Y K D
UniRef90_UPI0003755FEA P D T M M M I G H C G G L R N H Q N I G D F V L A T S Y L R H D H V L D D V L
UniRef90_J8T6U4 P K A T I N T G S A G G F N E S L K V G D I V I S T E V R Y R H D G Y E F G Q V P
UniRef90_R6DRQ9 P D E L I H T G I A G S L M D P A V K H L D V V I A N G L T Y H D V R K T S Q E L F
UniRef90_UPI0003B56985 A T T Y I R P I G G S G M G D D V N P G D I V I S S G V Y R E D G R M T S S Y I P
UniRef90_S5U209 P H V W L M I G H C G G L R E S Q L L G D Y V L A H A Y L R D D H I L D A V L P
UniRef90_R5Y2M5 V D A V N T G V A G A I H S L L D V N D I V I S T E A I Q Y D V D A T P F G Y
UniRef90_E3H7P1 V D K I I F T G V A G G V N P D I E V G D V V I S T E L I Q H D F D H G V I P R
UniRef90_C5LA72 A K V L V R V G T A G A M Q K T L G I G D I V I A T G A I R D E G T T R H Y M P

UniRef90_R6YN43 P A P Y A [] H S D K E L V E R [] A R T 140 D M K R G [] T V A C G R [] P [] A D P H Q N
UniRef90_UPI00041BC787 D E V S N S A T I E E A F I N H T N W D A R K K G K P Y I F K G I T A T A G G F Y G
UniRef90_UPI0000478A0DA D S V T D K N L J E E A F I N H T N W D L R K K G R P Y V H K G F T G T A G G F Y G
UniRef90_F4B5L6 G E F T A Y T P D Y E E L L N K V V N N L K A K Q L K V R V G N V F T S D A L F T
UniRef90_R6LQA4 D L S Y P A V A D V E L V N V M N E T V Q Q M G K R Y L N G L N C T M D G F Y R
UniRef90_UPI00047815F1 K Y F P A L P S S E L L M R A M K Q T E I L P V K A G I A R S H D G F Y M
UniRef90_UPI000255D852 V E A I T N H S F E E A L L Q F I G W S E R L G S N L H G N G L T I S A P G F Y G
UniRef90_UPI00047BFEB9 K G S Q S F S D T E L S K A L I Q S A N K H G M T S F A G T V A T T D S Y Y N
UniRef90_H1Z7M4 E D I T D Y A M E E A F I A H T Q W D L R K G R P Y F I G I T G T A G G F Y G
UniRef90_U2JKI4 E N F P A V A N L N L L S T M K Q T A E E L G C P H R L G I I L S H D G F Y M
UniRef90_F0IC60 S P T V R E A D M E K N F I T H S H W N M D K G H P Y I V G I T G T A P G F Y P
UniRef90_H8KL84 A E V P A L P A F A L Q R A V S T T I R E H N R D Y W T G T V Y T T N R R V W
UniRef90_UPI000465AC87 P E V P A L P A F A L Q R A V S T T M I R D L G H D Y W T G T V Y T T N R R V W
UniRef90_G4AIM0 D N D F A I A D F G L T Q A A V Q A A K T L G V K A R V G N L F S A D L F Y T
UniRef90_G5GEJ2 S E V P S L P A F A L Q R A V S T T I R D N N R D Y W T G T V Y T T N R R V W
UniRef90_UPI000428E2A0 A E V P A L P A F A L Q R A V S T T I R D H S R D Y W T G T V Y T T N R R V W
UniRef90_L7WDS7 D G G D L A F A K A V S Q Q I K R S N V H A A P Y V V S C G N T I T N V G F Y G
UniRef90_D5BFC4 E E I T D N H F S E A F I K H M S W F P K K A H P Y V V K G I T A T N L R G F Y G
UniRef90_F9ZBY6 H E V P A L P A F S I Q A A C S K D K A H G R E Y Y T G V V Y T T N R R V W
UniRef90_UPI00016C3A73 A E V P A L P S F R L Q A A V I A A A S S K H D V D Y W S G T V Y T T N R R V W
UniRef90_R7PPX4 P V E Y P A V A D L M L T H S L I E A A K E L Q I P Y H V G I S V T T D S F W P
UniRef90_Q1Q2B4 P L E Y P A V A N H E I Y S L I E G A K Y S R I L K Y H V G I T A S S D T F Y R
UniRef90_I6YWH3 P E V P A L P S F K L H K F V S D K I V E R K M E Y R T G V V Y T T N R R L W
UniRef90_V4PZ2 R E I P I P P A E V Q Q A L H E E D G D A L K R R L R T G T V Y T T D D R N W
UniRef90_B1HZH8 G I D F A P I A D F D L L K A Y N A G K D A G L N L Q V G N I F T A D L F Y S
UniRef90_UPI00042913BD L D T E Q L P F A P Y Q V P A S D R L T R Q L D Q T F L K G I T L T C P G F Y A
UniRef90_E1M2L4 P S R Y M E I Q P Y E A T A A I E R V L E A K G I P Y E E V M T W T T D G F Y R
UniRef90_D7VPC2 Q Q F P D L H F P Y V I A Q A S D R K L L K Q F A S D L P K G M T A T A P G F Y G
UniRef90_R6S7J0 G Q P Q I F E A D K K L V S R L E K A A Q K T N L N V K T G L I V T G D Q F V S
UniRef90_UPI0003FD42D7 P K T E E F H S D P Q L L E I A E K T L N K L G V N H I V G T I A S G N Y F V D
UniRef90_R6A758 R N E V A D L P L E K H M N W H G T Q C I A H P Y A H R G I T I A C G G F F G
UniRef90_J9FNB3 R D E H C D L D L E K A F V I A H M Q W T G N Q C D D M V R G I T V A C G G F F G
UniRef90_W2C624 P E V P S L P A F S M L R A T I S A T R D K G H D Y W T G T V Y T T N R R V W
UniRef90_UPI0003783EBF Q M P A T Y P V D E K W L N T L K A T A A M Q K F N V K V G Q V T G D S F V A
UniRef90_F4FSY1 G F P A R F K A S E E L A D K I V K A A Q Q S G V T A H K G L I V S G D Q F I A
UniRef90_UPI000237D3F7 P E I P A L P A F S L Q R A V S T T I R D Y G R D Y Y T G T V F T T N K R V W
UniRef90_UPI0003730558 E A K V C D R D F E E A L L S G L D W Q I T D G T D I I H G V T I S A N G F Y V
UniRef90_C9LDK4 A H P Y I T D A D K E L I E R V A S E D M V R G V T I A C G R I P L A D S N Q N
UniRef90_D9R6U2 D S I F P A V P D T E L L L S C M E S A R Q L G A R T H V G I A R S H D S F Y D
UniRef90_P0K033 V E F P A V A S I D V V L A L Q E A A V A G G V P H R R G I V H T K D S Y Y G
UniRef90_V7I2U9 P K S F P A V A N I D L V N C M N R S V T M N G R E Y I N G I T C T M D G F Y S
UniRef90_S0JRW4 G M P L Y Y E A D A H L M Q A I E K A A E K T N S Q T Y T L G K T V T G D S F I A
UniRef90_C0MC30 A S H D I A V N Q A Y L Q T R A I D V L E Q H S Q T Y T L G K T V T D G L Y R
UniRef90_I7I2W8 Q P M M G E S G P F Y I S E S C P Q L A E Q F S A L G H T G I T A T C C G F Y G
UniRef90_UPI00029A3EF7 C E G I C N L G F E Q K L M E E T G W S D R L T K P Y V V G V T I S A P G F Y G
UniRef90_UPI00047E2583 Q L P A A F T A D Q K L I E V A E N A A K E L N F Q I V K G V I A T G D S F M E
UniRef90_H0IXV8 G M P A A Y Q A D K Q L R D A R G A I A A L G E V N V R E G L I A T G D A F M A
UniRef90_D3IDP6 R N E A C D L D F E A A F K K H M N W N E L L A A P Y V I G V T I A C G G F F G
UniRef90_R5CRT0 R N A V C D L E A M E R A L I N H L G W S G N D M V R G V T V A C G G F F G
UniRef90_C6Q1P7 P V G Q V P R L D A F D F K C D T D C K N I E K S N S F I G R I V T G D Q F I S
UniRef90_U6GEW8 P L R M P A V A T P R T Y S Q A L L K A G E D L K I N V R S G I A L T N G V F Y G
UniRef90_F0VX7 P A S E I A L N T R Y R K Q F K G L N A Q N I S Y T E G K I W T D G L Y R
UniRef90_UPI0001DD076B P E I P L P A I A E V Q Q A L A A A E E V S G Q Q L R T G T V V T T D D R N W
UniRef90_R9VKG7 P D I P I P S L A E V Q R A L Y D A T K E V S D M P L R T G T V V T T D D R N W
UniRef90_R3WKM6 G M P L Y Y E A S Y L K A E M G K A A K A T S H N V R E G L I V T G D S F I N
UniRef90_W2UPN7 K D I Q H Q A L Q E D F I K H T L W S K H K S T P Y I Y L G M T G T N V G F Y G
UniRef90_R5JJ18 P K G T I P R M D R L V A A Y R A F E H A K T N V Y K G R V V T G D K F V A
UniRef90_G9RSH4 P Y L K E F A A D P V L V A A A E A C A D A G V K Y I V G K I A T G D T F V G
UniRef90_UPI0001C37173 P Y C G I F K A D E K L M D T A E K T C A D N G V T S F R G R I V S G E A F I T
UniRef90_W3ADI2 Q L P A A F R S D E Q L I D L A V S K A V E E L G H P Y G V G L I A T G D S F M N
UniRef90_UPI000287AC7C P E V P A L P S F K L H K F V S D T V L E Y G Q E Y R T G V I Y T T N R R V W
UniRef90_F2IG40 E F N T Q F V G F P E E I T P Y C S E S S P E G P Q T Y S G I T V T S S G F Y A
UniRef90_UPI00041253DC T D K L M S D F A Q S F I E H T Q W N P D N S V P A V G I T I T N V G F Y G
UniRef90_I1E292 Q M P A A F V A H P K L I E A E Q S I T K L G V C T K K G L I A T G D S F I C
UniRef90_F5SCY3 G V P R V I P S D P A L V R T L S H V A A N L G I P C H S G R V A T G D A F V S
UniRef90_R6ZDU0 P K G Q I P R V D T F A F K A D C N E K V N S D I Q A F T Q G R V V S G D Q F I S
UniRef90_T0UK37 A G Q E I S L N V F R H R N L F K E F L E Q N I S Y T E G K V W T D G L Y R
UniRef90_R7EW76 P A D Y I E V R N H A F V A S V L D S L G V G H V I E G R T W T T D A F Y R
UniRef90_UPI0004701F83 N T R S I R D L E Y E K A L I E Q L E W K D A R V L R G S T I A C N G F Y A
UniRef90_G221D2 S A V S R L D Y E E A F I Q Q T W D S K G R P Y V I E G L T A T C G G F Y G
UniRef90_Q0C2N1 P E I P V P P I A E V Q V A L Q Q A A A K V T G K R L R T G T V V T T D D R N W
UniRef90_I2J4F1 R Q P L Y F E S D S N F I S K T S L S Q L E Q T W H L G L I A T G D S F I A
UniRef90_W0EZL5 E Q T D E E S Q I L H S F T T H V K M L K H F V D G F H Q G I T V T C P G F Y G
UniRef90_D4W1V2 G M P A I F T P D A T L V E K A K T V L E K S N K T Y W M G Q I G T G D S F I N
UniRef90_U7VCL1 D Y G V I P R M E N S K F K A D K E L L N F G K E R V F T G T I V S G D S F V A
UniRef90_G4QJW8 G M P E N Y V C N E S Q L I E A A E K S A Q I D G V K V K G L V C A T G D S F V G
UniRef90_B7GIU7 G M P A R Y A A D E R I Q A A E T S A A H I R D I Q V A K G L I A T G D S F M H
UniRef90_G2HXT3 G G K V F V E T T K S L R E I A I K V A N E N N L K V I V G T I A T G D Q F V H
UniRef90_J0RTP2 D F V K H T N W D K L G K P Y V T Q C S E K S D R I F K G I T A T A G G F Y G
UniRef90_UPI000371DED3 Q L P A A F I A D A R L V Q I A A A C A E D Q K V K T V K G L I A T G D S F M N
UniRef90_Q6L2U4 N D E Y S Y I P D Y D L M L N T V N E L E S L G I K T F K G R V F T S D A L F T
UniRef90_A0A011LZV1 S N P A A F S P N E E L V F A K K A Q K A G F N V V S G L I C S G D A F I N
UniRef90_D5TNU7 P F Q E E F I A S K E L I E L A R K A C N S N N I Q A H Q G R I V S G E C F V E
UniRef90_A0M1U8 D S F L K K D I A N A F V E Q T N W S V K K A L P Y V V E G F T A T N V G F Y G
UniRef90_UPI0003755FEA P T T V P V V P P R L N M L L D E L D K R N A E Y R L G T V Y T T D R N W
UniRef90_J8T6U4 Q M P A Y Y Q P A Q E L V T L A T E A A K K V G V P S V P G L I L S G D S F M S
UniRef90_R6DRQ9 P F R Q V F P T D P E L T G L L L E S A G T A R T H K G M L L T G D L F V T
UniRef90_UPI0003B56985 Q S F P A V C N Y E V V L A M V R A E E L K C S Y H V G I T L S S D F V G
UniRef90_S5U209 P D I P I P N I A E V Q R A L Y D A T K A I S G K P G H E G T V V T T D D R N W
UniRef90_R5Y2M5 K K G Q I P Q M D N S V F K A D E E Q A K G E D F K I V K G R V A T G D L F I S
UniRef90_E3H7P1 M E N S V F T A D V T L K N I A E E V A V G K E K V W T G R L S G D Q F V A
UniRef90_C5LA72 L E F P A E L E D E D E H T E G G A Q W I Y D A G P V H T K D S L M A R E F K P

UniRef90_R6YN43 E K I G S F E Y D G L R I T N Y E M E T A A I Y G L S A L L G S R L L G H R A T T V C L 170 180 190 200

UniRef90_UPI00041BC787 P Q K M D N F K F E D N R I T N L E M E T A A I Y G L S A L L G H H E T A L S F N A

UniRef90_UPI000478A0DA H S K G R V L R L Y N G S R N M I A V E L E G A G L Y F L A N L L G F K A V S V H L

UniRef90_F4B5L6 P Q S K E F L D K L S S R N H T A V E L E G A G L Y F L A N L L G F K A V S V H L

UniRef90_R6LQA4 D M S K T F E E V K K L G V T G I D M E T S S A L L T L G R L M G V K T C I L T V

UniRef90_UPI00047815F1 P D N N M A V I E F W S R K K V L G A D M E T S S A L L Y V V G S Q L L R G H R T L S I L Y

UniRef90_UPI000255D852 P Q G R V I R F E G E K I T N Y E M E T S S A I Y G L S Q L L G H R A T V C A

UniRef90_UPI00047BFEB9 A A S K Y L D R F R E Q G A L G V D M E T S H V I L S V S K R L G L K A A C L G

UniRef90_H1Z7M4 P Q G R E D N F K F N D Y R I T N F E M E T S A I Y G L A K L L G H H A V S I L N T

UniRef90_U2JKI4 D T E E S A Y W S K G V L G A D M E T A T I Y T I G R L R K L C C A S I L N

UniRef90_F0IC60 E D E H L N E K L H S F Y T N M E M E T A T I Y G L S K L L G H Q A V S I L N A

UniRef90_H8KL84 E H D D D F F K Y L R R L R S M A I D M E T A T I F S A G F S N Q I P I G A L L L L

UniRef90_UPI000465AC87 E H D D D F F K Y L R R L R S M A I D M E T A T I F A A G F A N R I P S G A L L L L

UniRef90_G4AIM0 P D V A M F D V M E K Y G L G V D M E T A A G I Y G V A A E Y G A R A L T I C T

UniRef90_G5GEJ2 E H D D D F F K Y L R R L R S M A I D M E T A T I F T T G G F A N K H I P T G A L L L L

UniRef90_UPI000428E2A0 E H D R E F F K Y L K E T R A M A I D M E T A T I F T T G G F A N K H I P T G A I L L L

UniRef90_L7WDS7 P Q S R K I R L Y E G S K I T N L E M E T A G I Y A M A S L L G H R A V S I L N A

UniRef90_D5BFC4 P Q G R S L R L Y H D K S T R A M A I D M E T A S G I Y G M S K L L G H N A V S M N V

UniRef90_F9ZBY6 E Y D D R F F K Y L K S T R A M A V D M E T A T I F T V G F A N R I P T G A L L L L

UniRef90_UPI00016C3A73 E H D D R F F K Y L R D I R A S A I D M E T A T I Y V V G F V N R I P K G A L L L L

UniRef90_R7PPX4 K F Q E R Y D H E F Q S Q L G C T N Y E M E N A T V E T L T S V L G L Q A A S I C A

UniRef90_Q1Q2B4 K F Q G L T K E F Q S L N V L N Y E M E A S T V L F T I T A S M L G L K A G G C I T

UniRef90_I6YWH3 E W D E T F K Y L K K L G V I A I D M E T A T L F V G H S N Q I A R G A L L L L

UniRef90_V4P9Z2 E L R Y T A R R F S Q S Q R A V A I D M E S A A L L Y A Q G Y R F R V P Y G T L L C

UniRef90_B1HZH8 D E H Q N E K L A Q Y G V L A V E M E S A A L L Y T L A A K F G R K A L S V L T

UniRef90_UPI00042913BD P Q G R E V R L R P R F D S M N F E M E T A G Y Y A M G K L L G H E M L S I L N A

UniRef90_E1M2L4 E T A E K V A Y A R K E E G C A V A V E M E T S A L L Y A A V A A L R G V L W G E L L F

UniRef90_D7VPC2 P Q G R N R F R V G D R R I T N L E M E T A G I Y A M A A A L G H H A L S I N A

UniRef90_R6S7J0 S D E A I A Q I K A I Y D A L C C E M E G A A I A Q A A Y Q L R T P F V V V R A

UniRef90_UPI0003FD42D7 T P Q K V A A V I E E T Q A D A V E M E S A A V A H V A A R N D V P A L V I R A

UniRef90_R6A758 P Q G R Q V R L Y E G K H I T N F E M E S S A V A G L S L L M G H K A L T C C M

UniRef90_J9FNB3 P Q G R Q L R L Y G G L H I T N F E M E S S A L L A G L G R L M G H K A M T C C M

UniRef90_W2C624 E D T S F K E Y L V R T H A T G I D M E T A T L A G L T A G F A N Q I P T G A L L L C

UniRef90_UPI0003783EBF S S K H I A T I K K H P Q A L V T E M E G A A V L A Q V C Y Q F Q V P A L V V R M

UniRef90_F4FSY1 D S N K I A Q I K H N F D A L C S E M E G A A V G Q V A Y Q N K V P Y A V I R A

UniRef90_UPI000237D3F7 E Y D D R F F K Y A K T R A M A I D M E S A T I F T V G F A N S I P S G A L L H L

UniRef90_UPI0003730558 P Q G R M D F E Y R G H R I T N F E M E G A A I A G I G S I L G H R C L T V C T

UniRef90_C9LDK4 E K I M H F E Y D G L R I T N F E M E S A L L A G L A R L M G H K A M T C C M

UniRef90_D9R0K3 E E K E V C A F W A G K G V M G S D M E T A A L F V V G G L R G V K T A S I L N

UniRef90_UPI0003730558 E M E E R L D I W R R G G A I S S E M E T A A V L V V G S V L D V R T G V L M

UniRef90_V7I2U9 Q M R E T F D D I S R Y N I S G V D M E T S C M L V L G S L M D I K V C S V T M

UniRef90_S0JRW4 D P E K I Q V L E H F P E L A C E M E G A A I A A Q T A M Q F D V L P F L V I R A

UniRef90_C0MC30 E T R D K M I Q R K Q E G A I C V D M E T S A I A A L A A F R Q L E H F Q F F Y

UniRef90_I7I2W8 P Q G R Q L R L T Q N Y S V I N L E M E T A A I Y A L G S M L G H K C L S L S V

UniRef90_UPI00029A3EF7 P Q G R V L R Y S E D E R I T N Y E M E S A I Y G L S K L M G H N A A T V C A

UniRef90_UPI00047E2583 D P A R V D F V R S K F E N D L A V E M E A A A A Q V A H R F G V P F V I V I R S

UniRef90_H0IXV8 D P E R V A T T R A Q F T M L A V E M E G A A I A Q T C H L Y G C P F V V I R A

UniRef90_D3IDP6 P Q G R E L R I Y N G Y K I T N F E M E S S A L A G L A K L M N H K A M T C C M

UniRef90_R5CRT0 P Q G R Q L R I Y D G L K I T N F E M E S S A L A G L S C L M G H K A M T C C M

UniRef90_C6Q1P7 D T Q K I K W L N E K F E A L A C E M E G G S I A Q V C Y L N N I P F V V I R S

UniRef90_U6GEW8 H G Q E H L D N L T N W S K D I V D C E F Q A L F L V G L G R G I E T G A I A A

UniRef90_F0VXX7 E T H Q K T A N R K T Q G A I A V D M E S A I A A F A N F R K I N H F Q F F Y

UniRef90_UPI0001DD076B E L R Y A M S A R R F S R A V A I D M E S A T I A A Q G F R F R V P Y G T L L C

UniRef90_R9VKG7 E L R Y S A S S I L R F N R A V A I D M E S A T I A A Q G Y R F R V P Y G T L L C

UniRef90_R3WKM6 S P E K M E Q I L T H F P E L A C E M E G A A I A Q T A Q Q F N I P F L V V R A

UniRef90_W2UPN7 P Q G R V L R L Y R G L K V T N L E M E T A G I Y G L A K L L G H R A A S M N C

UniRef90_R5JJ18 D K D T K L E L R D H F K G Y C C E M E G G A I A H V A Y L N G V P F V I T R A

UniRef90_G9RSH4 D S A T K N A I A A D C A P D C V E M E G A A V A H V A A K Y G V P F V V L R A

UniRef90_UPI0001C37173 S T E V K N A I K D K F D P Y A V D M E S A A V A G H C C Y L N K M S F V S V R C

UniRef90_W3ADI2 D P E R V E K V R A F F P M K A S E M E T A A V A Q V C H Q F N I P F V V I R A

UniRef90_UPI000287AC7C E W D N F E K R L R D L S A I G I D M E T A T L F I V G H A N K I S R G A I L L

UniRef90_F2IG40 P T Q D I N E K L E Q H R V I N F E M E S S A L F S L G K A M G H Q C V I T C L

UniRef90_UPI00041253DC P Q G R V L R Y R K N K E L T N L E M E T A T M Y A M A K L L G H R A L S M N A

UniRef90_I1E292 D P V R I A T I R Q Q F P M L A V E M E G A A I A Q V C H M L N T P F V V I R S

UniRef90_F5SCY3 D K E Q R L S I R R E T E A V L V E M E T A A F A Q I A H L N G V P F V S V R S

UniRef90_R6ZDU0 D T K K K W L A E E F G A S C T E M E G G A I A Q A A Y L N G I P Y L V I R A

UniRef90_T0UK37 E T Q K M A M R K A Q G A I A V D M E G A I A A L A D F R N I N H F Q F F Y

UniRef90_R7EW76 E T D V L C R K R A E G C I A V E M E V S A V Q A A A D F Y G F E F Y N F L Y

UniRef90_UPI0004701F83 P Q G R K L R Y K D F Y K I T N F E M E S S A L S G M A S L L G H H A L T I C C

UniRef90_G221D2 P T K M D Q F L Y E N Y Q I T N M E M E T A I Y G L S A L L G H H A L S L N A

UniRef90_Q0C2N1 E F T A S A R R F N K S R A V A I D M E S A T I A A N G F R L R V P Y G T L L C

UniRef90_I2J4F1 G N D K I E E I K S H F N V L A V E M E G A A I A Q A A H S L D L P F L V I R A

UniRef90_W0EZL5 P Q G R V L R L Y E G H R I S N F E M E T S A I F L G R L G H N C L A L S I N A

UniRef90_D4W1V2 R P D Q M E L I K K N C N V A I E M E A T A V A Q V C H Q Y Q K P F I I L R A

UniRef90_U7VCL1 S N D K I K W L R D T F V G E C T E M E G A S V A H V C Y V L N K P F V I I R S

UniRef90_G4QJW8 S D E L A A T L R Q K P M M A V E M E G A A I A Q T A Y L M G I P F L V I R S

UniRef90_B7GIU7 D P A R V D F V R T Q F P D L A V E M E G A A I A Q V C H Q F N V P F V I R A

UniRef90_G2HXT3 S T Q R K D F L Q S T F N A D A L E M E G A S V A V V C S D A L N V P F I L R A

UniRef90_J0RTP2 P N K M D N F R N E T K I T N L E M E T A I Y G L S A L L G H N A L S L N A

UniRef90_UPI000371DED3 D P V R V Q A I A E K F T N L A V E M E A A I A Q V A H Q F N V P F V I I R A

UniRef90_Q6L2U4 H S R E F I E K M A K D N H M A L E L E G A G L Y L I A G L K N V K A L S V H L

UniRef90_Q0A011LZV1 G A E K I A E I R N F N V A V E M E A A A A Q V C H A F D V P F V V V R A

UniRef90_D5TNU7 D S K L K A K L I D E Y A P H C T E M E G A A I G H V A Y I N D I P F L V I R C

UniRef90_A0M1U8 P Q G R I L R A Y N G H S V T N L E M E T S G I Y G L S R L L G H N A A S M N L

UniRef90_UPI0003755FEA E Q R A P L A A I Q T A R C L A A D M E S A T I A A N G F R Y R I P N A T L L C

UniRef90_J8T6U4 D H N R V L E L K E I F N P A C A E M E A G A I A Q V C H Q F G T P F V I I R S

UniRef90_R6DRQ9 D A A S K T R L K E Q F P M L C V E M E S C A V A Y T A F V N K I P I A G V R C

UniRef90_UPI0003B56985 W N V Q M P G I V L N R A G V L N G D R E S A I V T L A N L F G F R G V S V C S

UniRef90_S5U209 E F S A T S R F S L S R A V A V D M E S A T I A A Q G Y R F R V P Y G T L L C

UniRef90_R5Y2M5 S K E L K E E L D K D F N A Y C T E M E G G A I A H A C Y L V N I P F V I I R S

UniRef90_E3H7P1 S D K I K W L R D T F N G E C T E M E G A A V A H A C Y L V N I P F L I L R S

UniRef90_C5LA72 E H K R Y M E V L E K L G C L A S E M E V A M L F T L G Q V Y G V K T G C V L A

UniRef90_R6YN43 V I A N R V A Q E A N T D Y K K L M N N L I Q M V L L E R I I
UniRef90_UPI00041BC787 I I A N R A S G T F S E D P Y K A V D E L I K Y V L L D K L I
UniRef90_UPI000478A0DA I I A N R A N G T F S E D P Y K A V D E L I V Y V L L N K S L V N
UniRef90_F4B5L6 I Y R N A N G E S M S A E D I N K T E K V I A E A L L E S L
UniRef90_R6LQA4 V T V L E N L K E T L K G Q D R V D A E D L L C R T A L L E G I Y N
UniRef90_UPI00047815F1 M E P L A D G V N E L V I S G E S Q M K L G E L I K L A L L T V L T E
UniRef90_UPI000255D852 I I A N R K A G T Y S K N Y K H G M K A L I Q Y V L L E R L
UniRef90_UPI00047BFEB9 V H G N R A T N D W L V I D Y E S T Q R N L L C I A
UniRef90_H1Z7M4 I I A N R A N G T F S E D P Y A A V D Q L I L Y T L L D K L S E
UniRef90_U2JKI4 N V V L Y G Q D T S E S I G D Y A Q G E K N E I H L A L L E T
UniRef90_F0IC60 I I A N R P T G T F T A D T K K A V E K L I E Y A L L
UniRef90_H8KL84 V S D Q P M T G V K T A E S D K K V T V E Q H L R I G I D S L Y Q
UniRef90_UPI000465AC87 V S D Q P M V P E G V K T E A S D E F V E N H I Q I G I E A L
UniRef90_G4AIM0 V S D H I R T H E Q T S A E E R Q L T F N E M L K I A L L E A I L
UniRef90_G5GEJ2 V S D N P M E A E G I K T G E S D R K V T N F A E T H V R I G I E
UniRef90_UPI000428E2A0 V S D Q P M T A E A D A S Q T A V K H V E S H L K I G I D S L
UniRef90_L7WDS7 I L A N R A T G E F S D K P K D T V E K L I K F T L D C L V
UniRef90_D5BFC4 I L A N R A T G E F S T T P Q K T M E K L I G H C L D K L
UniRef90_F9ZBY6 V S D R P M I S D G I K T A E S D K H V T N F V K Q H L E I G V E
UniRef90_UPI00016C3A73 V S D N P M T P E G V K T S K S D A T V T E M V R K H L D L G I
UniRef90_R7PPX4 V V A K R T E K E S I A P C E Y Q Q A E Q R F Q Q V V
UniRef90_Q1Q2B4 G V V N K R G M E K I T E Q C L K T G E T H L I K A A I A S L
UniRef90_I6YWH3 V S D L P M F P E G I K T E K S D K Y V T K H L D I G I E A M T E
UniRef90_V4P9Z2 V S D K P L H G E L K L P G Q A N H F Y E R A L R E H I D I G I E
UniRef90_B1HZH8 V S D H I T G E V T T S E E R Q T T F N D M M V V A L E A I Q
UniRef90_UPI00042913BD I V A N R P L G Q F D K E A E K T V D R M T R A A I E V F V
UniRef90_E1M2L4 T A D S L A D L D Q Y D S R P D W S E A F E K A L E L C L E I A F Q
UniRef90_D7VPC2 I L J A S R V I S A T F S P E P Q K I V E K A I Q Y V L E R I
UniRef90_R6S7J0 M S D N G N G D A A Q S F D E F I
UniRef90_UPI0003FD42D7 L S D N A D T D E E F K E F D I S E Y A N V A A K I T I D I
UniRef90_R6A758 V I A N R V A H R A N P N Y K N S I D T L I K L V L D R I
UniRef90_J9FNB3 V I A N R A A G K A N P N Y K N S I D T L I Q T V L D R I
UniRef90_W2C624 V S D K P L E E N G V K T Q E S D K G V T E H V E L A L E M I
UniRef90_UPI0003783EBF V S D K P M I S T G I T A E S D Q K V T R E F V I E Q A
UniRef90_F4FSY1 M S D V G D E E A E V S F D K F I I T A
UniRef90_UPI000237D3F7 V S D Q P M I S T G I T A E S D Q K V T R E F V I E Q H L Q I G I
UniRef90_UPI0003730558 I I A G R K K Q D M N T S Y K N S I D T L D G L I E R V L D R I
UniRef90_C9LDK4 V I A N R L A G R A N P N Y K N S I E L L I E R V L E R I
UniRef90_D9R6U2 V V E H E E S L G E D S I N S Y T G G E S A M M R T A L E A F V R
UniRef90_K0K033 W S E D A I R D G G P A P A V E P L F A T A V G A L R R
UniRef90_V7I2U9 T T V L K N L K E V L Q G E A R T K S E E D L C K I V L D G I
UniRef90_S0JRW4 M S D T A D H D A T Q S F D E F I E I A
UniRef90_C0MC30 S A D N L D A D E W L A N E A D L E A K D N I A F I A L E L A L R
UniRef90_I7I2W8 V I N N R I H G S F V T D
UniRef90_UPI00029A3EF7 I I A N R K A G A Y S K D Y K P V I K S L I Q Y V L D R L
UniRef90_UPI00047E2583 L S D I A G K E S E V S F D Q F I D Q A
UniRef90_H0IXV8 L S D P G S G D N H L S F E Q F L D I A A D
UniRef90_D3IDP6 V I A N R R A K E V N S N Y K N S I D G L I E R V L N R I
UniRef90_R5CRT0 V I A N R L T K K S D T G Y K T H I D D L I R L V L D R I
UniRef90_C6Q1P7 I S D N A N N G A H M D Y E K
UniRef90_U6GEW8 V D G S P L Q W D Q A N Y D P T G K V V E R M L K V A I H T C A E
UniRef90_F0VVX7 S A D N L D A E T W L A N D A D L E T K D R I A N I A L S F A V E
UniRef90_UPI0001DD076B V S D K P L H G E I K L P K Q A N T F Y E E A T A A H L Q I G I
UniRef90_R9VKG7 V S D K P L H G E I K L P G Q A N R F Y E G A I S E H L Q I G I R
UniRef90_R3WKM6 I S D T A D E A T Q S F D A F I E E A
UniRef90_W2UPN7 I I A N R P N G T F S K D P K T S V D N L I K Y T L K K L T N
UniRef90_R5JJ18 I S D N A D D E A G V S Y E D F V V E A A E I S R E M V V N
UniRef90_G9RSH4 M S D N A D E E A Y D T L V V K E F D I T E Y C T T A A R I C
UniRef90_UPI0001C37173 I S D N A D D E G A M S F D E F E K I A A L R V A E I V L K
UniRef90_W3ADI2 L S D I A G K E S N I S F D E F L P V A
UniRef90_UPI000287AC7C V S D M P L M P E G V K T Q E M D K K V T K Y V D M H L E M G I Q
UniRef90_F2IG40 G I A N R P L M E F S K G Y E Q E M N D L I K Y V L D R V
UniRef90_UPI00041253DC I I A N R A R G T F S K N A S K T I D A L I Q Y T L G K I T E
UniRef90_I1E292 L S D I A G K E S P Q S F E A Y L E V A
UniRef90_F5SCY3 V S D N A D G G A E V S F Q T F L T E V S K R N A T L L E A Y L R
UniRef90_R6ZDU0 I S D K A D D S A G M D Y A E F E Q A L R H S V N L I L E M A
UniRef90_T0UK37 S A D N L D T E S W T L A N D A D L E T K D C I A I A L N F A T E
UniRef90_R7EW76 R A D N L D A E S W E S S Y L A K M P H D E H F Y V A L E I A R R
UniRef90_UPI0004701F83 I I A G R Q N L N M N T D Y K G S I E G L T D L V L D R I
UniRef90_G221D2 I I A N R A S G T F S E D P L A A V D Q L I E Y L N K I
UniRef90_Q0C2N1 V S D K P L H G E G A A N R F Y E R A I G E H I R I G I E T L
UniRef90_I2J4F1 M S D N A N H E A N V T F D E
UniRef90_W0EZL5 I V A N R I V K E F S K D S K T A I E N L I L K F L D T
UniRef90_D4W1V2 L S D I A G K E S H I S F N E F I E V A
UniRef90_U7VCL1 I S D K A N H D A N M N F D E F V K L A A Q N S K I I I E G M L E
UniRef90_G4QJW8 L S D
UniRef90_B7GIU7 L S D I A G K E S N V S F E Q F L Q K A
UniRef90_G2HXT3 I S D T A D M D A G F D D E A K N S A D Y L I K I V K E L I
UniRef90_J0RTP2 I I A N R A S G T F S A D P Y K A V D E L I A Y T L N K L
UniRef90_UPI000371DED3 L S D I A G K E S D I S F E Q
UniRef90_Q6L2U4 A Y G N L L N N K K M D A S E I S E K E K I A K G I L N V L T R
UniRef90_A0A011LZV1 V S D V A D K E S H L S F E F L P L A A E
UniRef90_D5TNU7 I S D S A D D E A Q V S Y D N F A K T A A N Y C E I T E I L
UniRef90_A0M1U8 V L A N R A T G E F L E N A S E M M D E L I Y T L N K I
UniRef90_UPI0003755FEA V S D K P M H A A P K L S G E A V K F Y Q S S K R Q H L D I A L
UniRef90_J8T6U4 L S D I A G Q E A K L S Y E Q F L E K A
UniRef90_R6DRQ9 I S D L A I D G A A H E D Y D E F E K K A S D T A A E I V M R
UniRef90_UPI0003B56985 V A D N M I T G K F E A G C H L N A I D L V L E
UniRef90_S5U209 V S D K P L H G E I K L P G Q A N H F Y E G A V S E H L Q I G I
UniRef90_R5Y2M5 M S D K A D G S A D V T Y E E F V D K A A E N S K D L V L R
UniRef90_E3H7P1 I S D K A N H D A D V D F A E F V H L A A K N S K E I L E G I L E
UniRef90_C5LA72

1 10 20 30 40

UniRef90_I2K6H2 K I A I M G A M P E E I E P I I D K L D N V G T T V L

UniRef90_R9L096 I I G A M E L E V A E L K S K T D V K N V V E

UniRef90_F8DHJ3 L S S G E I C D T I I L S F N G E I V E R V K Q I D G V Y E G G Y L T

UniRef90_H1PZ36 I I G A M N E E V V E L K A V M S D I I K S E N

UniRef90_UPI00037264A6 Y H L N L K P E H V A H T V I F V G D Q N R V S R I S K Y F D S I E F E T Q

UniRef90_S1R8F8 I I G A M D Q E V K L L K E K M E A P M S W E T

UniRef90_UPI0004641BC4 I A K G E I C K T I I L S F N G E I L L K R L I E S E E V Y P C L K N L

UniRef90_I0S8H4 I I G A M E E E V E L L K K K M N V R E E Q V

UniRef90_C5ZVNV I S P L L D H Y K T Y E T I

UniRef90_UPI00040DCAC3 I I G A M E E E V E L L K K K M N V R E E Q V

UniRef90_W1Q241 L M M E P K V T E

UniRef90_J4KDW9 P I A I I G A M E E E V N L L R N E L S E R K D T V

UniRef90_B1YJD6 K A A I I G A M E E E V T I L R E Q M E G R E E T V

UniRef90_F8CTA1 E N F P E V C I T T F S E S I I E D F A K K N E K I A E L Y T A

UniRef90_B0NAA5 G K Y V I I A A M P E E M E A I K S K M I N T K E V D

UniRef90_R7FB19 I I G A M D E E V A N I A S A L S D I T V T E E A G

UniRef90_A0KIZ1 R L N D D D R Y E R L V L P G N V V I P R G L A E D E A I A R V T G

UniRef90_R6NTX8 Y H I G F G R S D L G D I A L L S G D P E R A R L I A Q T A L R G A R V L S E

UniRef90_UPI000474C578 Y H I G F G R S D L G D I A L L S G D P E R A R L I A Q T A L R G A R V L S E

UniRef90_A7NLM5 K I G I I G A M E L E V E A L K E Q M D H F Y I E K K

UniRef90_S5R5Y1 Y H L N L L C K S D Q L A D R I I T V G D P G R V D T V S A A C F D G S V R F R S E

UniRef90_B8D909 Y H L N L L P E Q I S D T I I T V G D P E R V A R V S R Y F D S M E V I Q V Q K

UniRef90_R7R4L9 Y H L N L L F P E D L A S T V I T V G D P D R V A E V S K H F E V V E I I K K G

UniRef90_Q4DKS7 I I G A M E P E V A I L L I A N M D I E E T I E

UniRef90_UPI0004151AAE I I G A M E P E V A I L L I A N K T E T S

UniRef90_K2PTA5 K I A I M G A M P E E V E P L L K F F G E Y E T I K N

UniRef90_T4VWY0 Y H L N L R P E D I A D T I I T V G D Q E R V P E V S K Y F D K I E L K K G

UniRef90_U1K1K58 I I G A M S V E V K L L I K Q M S D V K R V S K A K

UniRef90_A5Z754 K I G I I A A M P E E L K L L V J E H L E M A E K H Q

UniRef90_UPI00046909E9 I I G A M E E E V K A L A D M M S N V E T A T

UniRef90_UPI00041C1EE5 I I G A M E Q E V A I L K A Q L E N C E T H N

UniRef90_UPI000479F0F1 I I G A M D E E V E L L K E S L S E R K D Q T

UniRef90_NOC4R6 K N K D L Y T V G I I G A M K P E V D A I K E L L K D G D T Y T

UniRef90_R7BLD6 I I G A M E E E V L K L K K M M K V D R I E K

UniRef90_F2PCB7 I I G A M A E E V A L L A K L L E D S T T S S

UniRef90_W4QKP9 I I G A M D E E L E I L L K E T E V E K T Q I

UniRef90_C2SLJ2 I I G A M D E E L E I L L K E T E E E I T

UniRef90_T0CWJ9 G T D P E H F Q N F V I F T N Y Q F Y V D A F A Q L C Q Q R V A P A R T

UniRef90_E6UHP4 G S L G R F W I L P G S R D R A K Q I A E T F L Q D C E V I F S

UniRef90_I7LJ30 V A I I S A L D E E A A H I A D S L D N M T V T E R S

UniRef90_UPI000468D26A K I E G F P E I C V I S T F S E N I I Q K F A K S V E K I A E L Y T A

UniRef90_J3D924 R M V L P G N V L V E R D M N E E T M Q A V V V W H R

UniRef90_D9SKL2 I I G A M V E E I T P L L L E K F G E H K K I Q

UniRef90_G2KUE5 I I G A M V E E I T P L L L E K F G E H K K I Q

UniRef90_B8F704 I I G A M V E E I T P L L L E K F G E H K K I Q

UniRef90_UPI000467BB32 I I G A M V E E I T P L L L E K F G E H K K I Q

UniRef90_C5LL50 L Q I H S E D M P A Y A I V C G D P A R A E K I S R K L E Q A R E L A F

UniRef90_D3R3N9 I F A H T D D I P Q K L I V V F N I N T V N S I L E R Y D C T E C S A R M

UniRef90_R5TQX1 G C S A G D F R T N L I L T N F P R Y V D Y F A E S R G I Q V

UniRef90_U3H766 I M T D K T E H K

UniRef90_S5IX33 Y H L N V K P E E L A S T I I T V G D P G R V A E V S K H F D K I E G K Y E

UniRef90_I2FJB3 I Q Q K S G N I R I G I I G A M D E E V E L L K G S L S D R E D H E

UniRef90_A0A031K6E4 F P A K A V F A F L G D E V E N Y A H T H D Q I D E F E S A

UniRef90_S5ZY84 L T N F Q N Y V E K F S K T F N I P I N G I G G

UniRef90_A3UF19 D E I E A F A L D H Q G K K I A E F V S A

UniRef90_W4BGR1 V I T W N T N L P D T L I E R V Q S G V A P I C Q

UniRef90_R5Q965 I I G A M D E E V D I L V Q L M E V R E T V E

UniRef90_E6UAZ2 F P Q I C I S T F S E N I I N H F I E T N E A R I H L Y S S

UniRef90_B2VE28 Q V F K

UniRef90_K2EEZ1 I A I L G A M Q E E I T P I L E M V G E Y K T T E

UniRef90_A6VPH1 I I G A M E E E V R E L I E D M T E C E M Q E K A S

UniRef90_A3QBQ0 I I G A M E E E V A A L K S E M A D A K V T E F A S

UniRef90_UPI00041DD9B8 V Q P I A I M G M D A E I E K L L P E I Q H R K T H T

UniRef90_UPI0004718BE2 K L D M Q I E K E V I

UniRef90_Q2BGV0 K V A I I G A M E Q E V A L L R E L I D A Q S A L S

UniRef90_T2BHY6 V I V P M E E E I K L F K D S M D A V K S E T

UniRef90_UPI00036008B5 V I V P M E E E I K L M K E S L T D I Q T V T

UniRef90_C5WHF6 I E P R K G K L P P A A V L I F T P L D L E V F S S R F P Q R P S M N N R

UniRef90_UPI0002D271FB L M K D K I V I T K

UniRef90_A6DBX5 K I A I M G A M P E E I S P I L E K I G S Y K S T S

UniRef90_UPI0004787D94 V A L R E L I Q D C E T Y K

UniRef90_G5HEY8 A K I G V L S A M P V E I E S I I Q K D M H V Q S T E E

UniRef90_R8AMV4 C G A K P L S T

UniRef90_F7VDI2 R Q T H T

UniRef90_A7ZC47 K V A I I G A M E Q E V A L L R E L I D A Q S A L S

UniRef90_D4M501 V I V P M E E E I K L F K D S M D A V K S E T

UniRef90_R6TBN9 V I V P M E E E I K L M K E S L T D I Q T V T

UniRef90_UPI00036008B5 I E P R K G K L P P A A V L I F T P L D L E V F S S R F P Q R P S M N N R

UniRef90_UPI00021976E4 L M K D K I V I T K

UniRef90_A6QB43 K I A I M G A M P E E I S P I L E K I G S Y K S T S

UniRef90_XOR5U7 V A L R E L I Q D C E T Y K

UniRef90_K6CBZ6 A K I G V L S A M P V E I E S I I Q K D M H V Q S T E E

UniRef90_D2U407 C G A K P L S T

UniRef90_UPI0002491EE1 R Q T H T

UniRef90_UPI00021976E4 K V A I I G A M E Q E V A L L R E L I D A Q S A L S

UniRef90_A0LI68 V I V P M E E E I K L F K D S M D A V K S E T

UniRef90_U1S7Z9 V I V P M E E E I K L M K E S L T D I Q T V T

UniRef90_Q30QR2 I E P R K G K L P P A A V L I F T P L D L E V F S S R F P Q R P S M N N R

UniRef90_UPI0003F6E774 L M K D K I V I T K

UniRef90_U2PY92 K I A I M G A M P E E I S P I L E K I G S Y K S T S

UniRef90_E6U8J4 V A L R E L I Q D C E T Y K

UniRef90_A8H2V2 A K I G V L S A M P V E I E S I I Q K D M H V Q S T E E

C G A K P L S T

R Q T H T

UniRef90_I2K6H2
UniRef90_R9L096
UniRef90_F8DHJ3
UniRef90_H1PZ36
UniRef90_UPI00037264A6
UniRef90_S1R8F8
UniRef90_UPI0004641BC4
UniRef90_I0S8H4
UniRef90_C5ZVN7
UniRef90_UPI00040DCAC3
UniRef90_W1Q241
UniRef90_J4KDW9
UniRef90_B1YJD6
UniRef90_F8CTA1
UniRef90_B0NAA5
UniRef90_R7FB19
UniRef90_A0KIZ1
UniRef90_R6NTX8
UniRef90_UPI000474C578
UniRef90_A7NLM5
UniRef90_S5R5Y1
UniRef90_B8D909
UniRef90_R7R4L9
UniRef90_Q4DKS7
UniRef90_UPI0004151AAE
UniRef90_K2PTA5
UniRef90_T4VWY0
UniRef90_U1KX58
UniRef90_A5Z754
UniRef90_UPI00046909E9
UniRef90_UPI00041CEE5
UniRef90_UPI000479F0F1
UniRef90_NOC4R6
UniRef90_R7BLD6
UniRef90_F2PCB7
UniRef90_W4QKP9
UniRef90_C2SLJ2
UniRef90_T0CWJ9
UniRef90_E6UHP4
UniRef90_I7LJ30
UniRef90_UPI000468D26A
UniRef90_J3D924
UniRef90_D9SKL2
UniRef90_G2KUE5
UniRef90_B8F704
UniRef90_UPI000467BB32
UniRef90_C5LL50
UniRef90_D3R3N9
UniRef90_R5TQX1
UniRef90_U3H766
UniRef90_S5IX33
UniRef90_I2FJB3
UniRef90_A0A031K6E4
UniRef90_S5ZY84
UniRef90_A3UF19
UniRef90_W4BGR1
UniRef90_R5Q965
UniRef90_E6UAZ2
UniRef90_B2VE28
UniRef90_K2EEZ1
UniRef90_A6VPH1
UniRef90_A3QBQ0
UniRef90_UPI00041DD9B8
UniRef90_UPI0004718BE2
UniRef90_Q2BGV0
UniRef90_T2BHY6
UniRef90_UPI0003686110
UniRef90_C5WHF6
UniRef90_UPI0002D271FB
UniRef90_A6DBX5
UniRef90_UPI0004787D94
UniRef90_G5HEY8
UniRef90_R8AMV4
UniRef90_F7VDI2
UniRef90_A7ZC47
UniRef90_D4M501
UniRef90_R6TBN9
UniRef90_UPI00036008B5
UniRef90_UPI0002EF1B58
UniRef90_A6QB43
UniRef90_X0R5U7
UniRef90_K6CBZ6
UniRef90_D2U407
UniRef90_UPI0002491EE1
UniRef90_UPI00021976E4
UniRef90_A0LI68
UniRef90_U1S7Z9
UniRef90_Q30QR2
UniRef90_UPI0003F6E774
UniRef90_U2PY92
UniRef90_E6U8J4
UniRef90_A8H2V2

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

UniRef90_I2K6H2 C D M L L F S G V A G A L S N A Q S E I N L S I L G D L I V I A S D G L C Q H H D G M D V T A L G Y P
UniRef90_R9L096 V D A V I N T G V A G S L R N Q E I N L G D I V I V S T D A C E H H D M D V T A L G Y P
UniRef90_F8DHJ3 F N N F I V L T G V A G C G L D N P S E I N Q A D K I I V I P S S D A L R E H D E F T S T A F Y A P
UniRef90_H1PZ36 V D K V L F T G V A G G L V N Q P D I N Q A D K I I V I L P S G N D L I E H H D E G T S T A F Y G Y
UniRef90_UPI00037264A6 I D F I V R V G T S G A L Q D D I P V D S I V V L S S T H G L D L N G M L H A Y K I
UniRef90_S1R8F8 V N M V I N T G S A G G L A G E G L N Q V G D V V F S S E K L A Y F D Y E Y G Q G L P A
UniRef90_UPI0004641BC4 P D L I I N T G S A G G L A G E G L N V G D I V V V S S D E K L R Y H D D G Y E I G Q Q M A
UniRef90_I0S8H4 F K N F I L L G S C G V L D H S I L E A D R I I L P A A A L R D E D G T S Y H Y A P S
UniRef90_C5ZVN7 C N K I I F N G V A G G L P N E Y K I G D L V I V G S E K L C Q H H D G H P F G Y F S
UniRef90_UPI00040DCAC3 P D A I I N T G S A G G F H K E L A V G D V V I V S S T E L R Y N D D G Y E F F G Q V P
UniRef90_W1Q241 V D L V I N T G S A G A L G H G L K V G D V V V A S D Q L R R H H D D G Y Q I G Q Q M A
UniRef90_J4KDW9 P D V V I N T G S A G G L A T N L K V G D L V V S S T E V R H H D D G Y E Y I G Q Q L P
UniRef90_B1YJD6 P S S V I N T G S A G G F R A G L N V G D V V V S S T E V R H H D D G Y E Y I G Q Q V P
UniRef90_F8CTA1 P D Y V I N T G S A G G F L S T L N V G D V V I S S T E V V H H D D G Y E Y G Q Q V P
UniRef90_B0NAA5 A K K M I F G C A G S L N D D V E V Q G D I I V P G S S T I R D E D G T S Y H Y L P
UniRef90_R7FB9 I D Y I I N L G S A G S L N D D V E Y G D I V I V I G K Y V L Q H H D F D I T A F G H
UniRef90_A0KIZ1 P D C V I N T G S A G G F A Q D L H I I G D V V I A G S E M R F H D D G Y E M G Q M A
UniRef90_R6NTX8 P D A V I F S G I A G N L R N Q S H L H I N D V V L A G G T L R Y L D D R T D M R L V G Q
UniRef90_UPI000474C578 P H C W L M U P I G H C G L R N Q S Q M L G D Y V L A H A Y L R O D R I L D E A V P
UniRef90_A7NLM5 V R T I I R V G T S G S I Q L H I P P G S I V I A S S A A L C R Q G G A A D D I A P
UniRef90_S5R5Y1 V D V V I N T G S A G A V A P S G L K I G D V V V A D K L V Y H D D G Y D Y G Q M A
UniRef90_B8D909 P D T I I N S G S A G A L Q S F L K I G D I I V P K K K T C Y Y D D G Y T R G Q I P
UniRef90_R7R4L9 V D A V I N T G V A G S L R A E I N I G D I V V I S T D A C E H H D M D V T A L G Y
UniRef90_Q4DKS7 P S K M I R V I G T C G S P F P D M P L A A L A I T R E Y V I G M D N T C L F Y Y K P
UniRef90_UPI0004151AAE I D K I I R I V G T S G A L Q K E G V P L D S H L A S K Y A V G L D D T L M H Y Y Q S
UniRef90_K2PTA5 I D F I V R I G T T G A I L Q K E L K V D S T L A S K Y A V G L D D T L M H Y Y Q S
UniRef90_T4VWY0 V D A V I N T G V A G A L N E P L N V G D V V I S N E D A I Q H H D F D T I V F G D
UniRef90_U1KX58 P D C V I N T G S A G G F E E P L N V G D V V I S N E V R H H D D G Y E I G Q V P
UniRef90_A5Z754 V S A L V N T G V A G S L N N D I N V I C D I V V S T S A L E H H D M D V T P L G Y
UniRef90_UPI00046909E9 C E K L L F S G V A G A V S P D L K V G D L V A T K L G Q H H D G H P Y G F V P
UniRef90_UPI00041C1EE5 I D F E Q R L G T S G S I N K D V E M G S I L A S H G L G L D S L M H Y Y E R
UniRef90_UPI000479F0F1 V S A V I N T G V A G G L M P E L E V G D V V V S S E L M E H H D M D V T A L G F
UniRef90_N0C4R6 V T A V I N T G S A G A V A P G L E I G D V V V A S D R L V Y H D D G Y D Y G Q M A
UniRef90_R7BLD6 V D C V I N T G V A G S L K N E I N I G D V V I A S D A L Q H H D M D A T G F G Y
UniRef90_F2PCB7 P D V V I N T G S A G G F E S S L N V G D V V I S S T E V R Y H H D D G Y E I G Q M A
UniRef90_W4QKP9 P D V I I N T G S A G G F D E S L N V G D V V I S S T E V R Y N D D G Y E F F G Q V P
UniRef90_C2SLJ2 V N S I I N T G V A G G L H P D V K I G D L V I S T N V T H H D D V N K N Q M L F
UniRef90_T0CWLJ9 V S A L V N S G V A G T M D T K L N Q G D I V I S T D A V Q H H D F D T T V F G D
UniRef90_E6UHP4 P D V I I N A G V G G S L T T D K L D I G D A G I A S A D V V Q H H D M D T T P F G D
UniRef90_I7LJ30 V D L V I N T G V A G R V N E K L N P G D V V I A S K D L V Q H H D D T G T C I D Y
UniRef90_UPI000468D26A P D A I I N T G S A G G F A A S D L E I G D V V I A S S E V R H H D D G Y E Y G Q V P
UniRef90_J3D924 P H G W I M L G H C A G I S S Q R M G D Y V L A H A Y V R D D H V L D D D L P
UniRef90_D9SKL2 V D Y V I N V G I A G G I G A N V K P G D V V I A G D S L V Q H H D V E A I A F G Y
UniRef90_G2KUE5 I D V M I H S G S A G I G D G L K V G D I V I A T S T A Y H H D G E V W G Q L P
UniRef90_B8F704 P E M V I N T G S A G L D A N L N V G D L V I A T E V R H H D D G Y E K G Q L P
UniRef90_UPI000467BB32 P H A W L M L G H C A G L R N T Q R L G D Y V L A H G Y V R E D H V L D H H E L P
UniRef90_C5LL50 A K V L V R V G T A G A M Q K T L G I G D I V I A T G A V R D E G T T R H Y M P
UniRef90_D3R3N9 P E A V I F S G I A G N L N K S L H I N D L V L P K T L R Y L D D R T D M R G W K
UniRef90_R5TXQ1 A K K F V M S G S C G V L D D E K V K D N M I I P V S A V R D E D G T S Y H Y I A
UniRef90_U3H766 P H C W L M I G H C G G L R Q S Q T I G D Y V L A H A Y M R R D G L D R V L P
UniRef90_S5J33 V N Q L I F T G I A G A S D P K L D P L D V V I A S T R T V H H D V D L T A F N K
UniRef90_I2FJB3 C E K L I F S G V A G G L N A D L K V G D L L A E K L C Q H H D G H P L G F I P
UniRef90_A0A031K6E4 P E A W L M I G H C G G L R E S Q R I G D Y V L A H A Y L R D D H V L D P V I P
UniRef90_S5ZY84 V N L I I N T G T A G G L K E G L N V F D Y V V A S D A V R Q Y D G Y S L G Q V P
UniRef90_A3UF19 P E C W M M I G H C G G L R K S Q R L G D Y V L A H A Y L R Y D S V L D R D L P
UniRef90_W4BGR1 V T T L I R V G T A G S Y T A D Y P A G S V I V S S T A A V R T D G L T R Q L V P
UniRef90_R5Q965 I E Y V I N I G S A G G L K D Y Q N V G D V V I S S H V S Y H D D G R P M G E L P
UniRef90_E6UAZ2 D K K L L F F G S C G G L K D K I S S G K L V P T E A Y R D E D G T S Y H Y A P
UniRef90_B2VE28 P D V V I N T G S A G G L A A T L K V G D L V V S D E V R Y H H D D G Y E A G Q M A
UniRef90_K2EEZ1 I R A S L L L G M C G G L R R R Y E V G D Y V L P V I A I R G E D G T S D F Y F P
UniRef90_A6VPH1 P D V V I N T G S A G G V A Q G L K V G D I V I S S T E T A Y H H D D G Y A K G Q L P
UniRef90_A3QBQ0 P D Y V I N T G S A G G F V D S L A I G D L V L S S E V R H H D D G Y E I G Q M A
UniRef90_UPI00041DD9B8 I D F S T R T G T S G A L Q A D I P V D S F V A S T H G L G V D N Y L D H F Y K Q
UniRef90_UPI0004718BE2 V S A L I N T G S A G G V N A K L S V G D L V I S S N R L V Y S D N Y D Y F G Q L P
UniRef90_Q2BGV0 P D C I I N T G S A G G Y D P S L E V G D I V I S S E V R H H D D G Y E Y G Q V P
UniRef90_T2BHY6 V T K I I S V G S C G G L E D I L E N R F I L P V S A L R D E D G T S Y H Y L P
UniRef90_UPI0003686110 P K G V L F L G K C G G L K K T T E L G H F I L P I A A I R D E G T S D D Y F P
UniRef90_C5WHF6 V K E I M S T G T C G G V L V P I E E N R F L V P T K A L R E E G T S Y H Y V A
UniRef90_UPI0002D271FB P H V W L M L G H C A G I S T E V Q R I G D Y V L A H A Y V R D D H V L D E E L P
UniRef90_A6DBX5 A K K I L F S G V A G A I S T E D L K I G D L I A T A K T C Q H H D G Y P Y G Y I P
UniRef90_UPI0004787D94 V D A I V N T G V A G A L H A D L G V Y D I V I S T D A I Q H H D D K K G V I P R
UniRef90_G5HEY8 A K G I V L F G C G G L N Q S V V Q N K I I P S S A V R D E D G T S Y H Y I P
UniRef90_R8AMV4 P D V I I N T G S A G G L N Q S R L N V G D I V V S S E V R Y H H D D G Y A Y Q L P
UniRef90_F7VDI2 P H C W I M V G H C A G L R R S Q T L G D Y V L A H G Y V R D D H V L D D D L P
UniRef90_A7ZC47 A S K L I F T G V A G S L D E S I K I G D M L Y A T S L V E Q H H D H P Y G F V P
UniRef90_D4M501 V D Q L I N T G V A G S L D A E I N I G D I V V S T D A V E H H D D P V G Q V P R
UniRef90_R6TBN9 V D T L I N T G I A G S L D A R I N I G D M V I S T D A V H H D D A I G Q V P R
UniRef90_UPI00036008B5 P D V I I N T G T A G G L G T S V H D I V L A T E A V R H H D D G Y E V G Q Q A
UniRef90_UPI0002EF1B58 A D Q I I F T G I A G A A S P E L N V A D V V I A S S A L V Q H H D V D L T A F G A
UniRef90_A6QB43 C D M L L F T G V A G A I S P D L K I G D L I V A S T Q L C Q H H D G H P H G Y V P
UniRef90_X0R5U7 V T S L I F T G V A G G L L E L D V G D I V I S T S A M H H D D G S Y L G F Q K
UniRef90_K6CBZ6 P D Y V L N T G S A G G Y H T E L N V G D I V I S T D V R H H D D G Y E Y I G Q Q V P
UniRef90_D2U407 P E I I I N T G S A G G L V P T L Q V G D I V V S S Q V C Y H H D D G Y P G Q M A
UniRef90_UPI0002491EE1 P D F I V N T G S A G G I G E G L K I G D I V I S D K L A Y H H D D G Y A M G Q L P
UniRef90_UPI00021976E4 P D F I V N T G S A G G I G E G L S V G D V V I S D K L A Y H H D D G Y K I G Q L P
UniRef90_A0LI68 V R K V F A V G W C G S L Q G R V S V G D V V V P D T A V S E E G T S D H Y P L
UniRef90_U1S7Z9 P D L V I N T G S A G G V A E G L N I G D V I V S T E T Q Y H H D D G Y A K G Q L P
UniRef90_Q30QR2 A T K L L F S G V A G A I S T N L K V G D L I V A T K L S Q H H D D H P Y G Y V P
UniRef90_UPI0003F6E774 P S R V I N T G S A G G F D P S L K V G D V V I S S E V R Y H H D N Y E M G Q L P
UniRef90_U2PY92 V D K V I N V G V A G G I A K D I Y P G D V V I A N N L V E H H D M D T A F G D
UniRef90_E6U8J4 V D C I I N M G I A G G L A K D I T L D V V I G N E V F Y H H D F N P A E K Y Y
UniRef90_A8H2V2 V N S I I F T G I A G A A G P D L N V A D V V L S T A L V Q H H D V D L T A F G A

UniRef90_I2K6H2 NE E R K N W I G T T F K A D A L E M E G A S A V A V V C N A L N V P F F I L R A
UniRef90_R9L096 D G D T K D R L I T L F N A S C T E M E G A S A V A H A A F L N K K I P Y V V L R A
UniRef90_F8DHJ3 E T A A K V K R R L J A A D G A K V T D M E G A S A V A M A W A Q Y R Q A K V Y Q F F Y
UniRef90_H1PZ36 S V E R I K W L R R D T F E A D C V T E M E G A S A V A H V C H V F N M P F L I I R A
UniRef90_UPI00037264A6 P Q G R V L R L F N G T K I T N L E M E T S A I Y G L S K L L G H D A I S L N A
UniRef90_S1R8F8 S P E K I A E I K S H F P E L A C E M E G A A I A Q T A R Q F N I P F L V V V R A
UniRef90_UPI0004641BC4 S G A E G L A K I R N F P Q V A V E M E A T A I A H V C H N F G V P F V V V R A
UniRef90_I0S8H4 E T P D K V K R R L A A G A Q V V D M E T S A I M A W S Q F R K T K V Y Q F F Y
UniRef90_C5ZVN7 S K E R K E W I K K E F N A D A L E M E G A S A V A V V C H D N L N T L C V I T R A
UniRef90_UPI00040DCAC3 S H A R V E D I R T R F N P Y C S E M E G A G A I A Q V C H Q F Q C P F F V I R A
UniRef90_W1Q241 G P S Q Q A P I K A N F P T L A C E M E S A A I A Q A A Y V L K T P C V V I R A
UniRef90_J4KDW9 G N E A I S K I R A N F P L V A V E M E A A A I A Q V C H A F D V P F V V V R A
UniRef90_B1YJD6 D T E R S N L I K T N F P D V A V E M E A A P I A Q V C H Q F D V P F V V T R S
UniRef90_F8CTA1 D P A R V E F V R S K F P E L A C V E M E A A A I A Q V C T Q F A V P F V I T R A
UniRef90_B0NAA5 E T H G R L K E R E Q D C I A V E M E G A S A V L A V C R F R G V P A I Q F L Y
UniRef90_R7FB19 S R K M K D K I R T K F D A D C V E M E G A A I A Q T A Y L S D T P F I I R S
UniRef90_A0KIZ1 K P D A I A K A R A D F Q M L A V E M E G A A I G Q V C H M F K V P Y L V V R A
UniRef90_R6NTX8 D P K K V E Q V I R E T R G A D A V E M E G A A V A H V A A R N G L P V L V I R A
UniRef90_UPI000474C578 E L R W S Q E V R N L S R A I A V D M E S G T I A A Q G Y R L R V P Y G T L L C
UniRef90_A7NLM5 G Q E R I T D E Y R R L N I L N Y E M E A G T L F K M G L V Y G F A A G C V C G
UniRef90_S5R5Y1 G Q D K I D A I K A R F P S E V A V E M E S A A I A Q A A H N L H K P F I V V R A
UniRef90_B8D909 E N E S I K I L K K Q F P S I A V E M E S S A I A Q V C Y K F N I P F I I K S
UniRef90_R7R4L9 G E E T K N K L I D L F D G S C T E M E G A A I A H A A F L N E I P Y V V I R A
UniRef90_Q4DKS7 C Q G R A V G R F R E H I V A N I E M E T S A V Y C F L S H L L G Y Q A G S M C V
UniRef90_UPI0004151AAE P Q G R A L R L E T K F Q L T N F E M E T A G Y Y A L G S R L L G H E V I S L N A
UniRef90_K2PTA5 P Q S R V L R L Y K N Q K I T N L E M E T S A I Y G M S K L L G H K A I S L N S
UniRef90_T4VWY0 N K E L K D E L V K E F N G Y C G E M E G A A I A H V C Y V N H T P F V V I R A
UniRef90_U1KK58 D P V R I D Q T R K D F P M L A V E M E G A A I A Q A C H V L H T P F V V I R A
UniRef90_A5Z754 T H E A K V Y L R D T F N G D C A E M E G A S I A H T A Y L N K T P Y V V I R A
UniRef90_UPI00046909E9 D N E R K E W I A K T F Q A D A L E M E G A S V A L T C N A L N V P V F I L R A
UniRef90_UPI00041C1EE5 P Q G R K V R A I N K I H N L N L E M E T A G I Y A L A N A L N G H E A I S I N A
UniRef90_UPI000479F0F1 R T E K V E F L K N V F N G Y A V E M E G A A I A H C A Y L N G V P F V V I R G
UniRef90_N0C4R6 G Q D K I D Q I K A H T F D V L A V E M E G A A I A Q A A H S L G L P F M V I R A
UniRef90_R7BLD6 D K I V T K K R I S D F H A Y C T E M E G A A I A Q A A Y L N K I P F V I R A
UniRef90_F2PCB7 S A E K Q N F I R T N F P V V A V E M E A A A I A Q A C H Q F K V P F V V V R A
UniRef90_W4QKP9 E H E R V Q E L K Q R F T P S C S E M E G A G A I A Q V C H Q F E V P F V I R A
UniRef90_C2SLJ2 D S K L K E Q L V T E Y T P H C T E M E G A A L G H V A Y I N D I P F F V L R C
UniRef90_T0CWJ9 G G E V A N R I K E N F G D V A V E M E G A S M A Q V A Y L N K V P F V I L R S
UniRef90_E6UHP4 S S A K R D E L R S E F S D A I L C E M E G A A I G H V C S Y V N E V P F C V L R T
UniRef90_I7LJ30 D S K K L I W L K E T F D A L A V E M E G A A I A H A S Y I N N I P F V V I R S
UniRef90_UPI000468D26A D P E L V A L T R S R F D M L A V E M E A A A I A Q T C F V Y D M P F V V I R A
UniRef90_J3D924 E L R D H R T R F S Q S R A I A L D M E S A T V A A N G F R F R V P Y G T L L C
UniRef90_D9SKL2 D L N K I K Y I K E T F D A I A C E M E G S A V A Q S C Y S L N Q V P F V V L R S
UniRef90_G2KUE5 G K A M V A E I K K H F D V L A G E M E G A A V G Q V A H Q F N V P Y V V V R A
UniRef90_B8F704 G N D M I A R L R N D F P S V A V E M E A A S I A Q V C H A F Q V P F V V V R A
UniRef90_UPI000467BB32 E P E V I R R M S Q S R A V A L D M E S A S I A A N G Y R F R V P Y G T L L C
UniRef90_C5LL50 E H K R Y M E V L E D L G C L A S E M E V A M L F S L A Q V Y G V K A G C V L A
UniRef90_D3R3N9 T P Q K V S Q V I E Q T H A D A V E M E G A S V A H V A A R N D V P A L V I R A
UniRef90_R5TQX1 E T I P A I J E E R R Q E G C L A V E M E G A S M L A V S Q Y R Q I P F I Q F L Y
UniRef90_U3H766 E L R W A Q E R I N L S R A V A V D M E S G T I A A Q G Y R L R V P Y G T L L C
UniRef90_S5IX33 S K V K V T G I Y Q E F N A M A V E M E G A A L G Q V A T A F K V P Y V V I R T
UniRef90_I2FJB3 D S E K K Q W I S N F K A D A V E M E G A S V A Q V C D L L Q V P F C V L R S
UniRef90_A0A031K6E4 E Y T E S A K R F S L S R A I G I D M E S A T L S A Q G Y R F R V P Y G T L L C
UniRef90_S5ZY84 D K K L R A N E I K N F S P A C T E M E G A A A A Q V C V L N K I P F L I L R S
UniRef90_A3UF19 E L R Y N Q E A R R Q S R S I A V D M E S A T I A N G F R L R V P Y G T L L C
UniRef90_W4BGR1 G V I E P H R K Y K Q A G A L A A E M E I A A L Y I V S T L R G A R A G A I A
UniRef90_R5Q965 Q E G Q V S K I K K D E F N A L C S E M E A S A V G H T C Y K F G V P F I T R S
UniRef90_E6UAZ2 E T K R N M L A K A E G C S A V D M E A A L M A C A Q F R G Y E Y E F V Y
UniRef90_B2VE28 G A A P L A H I R N T F P Q I A V E M E A T A I G H V C H Q F G T P F V V V R A
UniRef90_K2EEZ1 E F N E E F K R L K N T R A Q G I E M E C A T L F S A S Y K R K L T L G S L L L
UniRef90_A6VPH1 G G E R L A Q I K A D F P P T A V E M E A A A I A H V C H A F G V P F V V V R A
UniRef90_A3QBQ0 D P E R T K V M L N N F P T M A C E M E G A A L A Q V C H Q F K V P F V V I R S
UniRef90_UPI00041DD9B8 P Q G R I L R L Y G N H F E T L N F E M E T S A M Y G L G K T L N H N C L S L S A
UniRef90_UPI0004718BE2 P Q H L L N R L L D H F E T L A T E M E G A A I A Q V A H V I T E T P C I V I R A
UniRef90_Q2BGV0 D P E R V E R K R K F P E M K A V E M E A A A I A Q T C L Q F D T P F I V I R A
UniRef90_T2BHY6 E T V E M V Q Y R K E E G C Q V V E M E C S A L A A C A K F R K V T W A M L L E
UniRef90_UPI0003686110 E H D D E F K Y L R K I R V L G I D M E T A T I F I T G F A N G I N R G A L L L
UniRef90_C5WHF6 E T K E K V A Y R R E E G C S V V E M E C S A L A A V A Q L R K V L W G Q L L F
UniRef90_UPI0002D271FB E L R D H R I H L N Q S R A I A L D M E S A T V A T N G F R Y R V P Y G T L L C
UniRef90_A6DBX5 S K E K K E W I K K T F A S A L E M E G G A V G C V C F T L N I P F F M L R A
UniRef90_UPI000478D94 S K E L K D E L V N E F D A Y C G E M E G A A L A H V C S L N A T P F V I I R A
UniRef90_G5HEY8 E T T G L T E R K K Q G C I A V D M E C A S L A V S K F R N V P V I P F L F
UniRef90_R8AMV4 G A D N L A R I Q K H F P Q I A V E M E A A G V A H V C H S N Q Y Q L P F V V V R A
UniRef90_F7VDI2 E L R Q L F T Q I N M S R A I A V D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_A7ZC47 D N E K K E W I K K I F N A S A T E M E G A S V A L V C E T L G V P F F I L R A
UniRef90_D4M501 E K E V K E R I V N N F G A K C A E M E G A S I A H G A Y L N H V P C V I R A
UniRef90_R6TBN9 S G E M K A R I V E N F Q A L C T E M E G A G I A H A A Y L N K V S Y V I I R A
UniRef90_UPI00036008B5 D P A R L K Q I E A F P Q L A V E M E G A A A I A Q T C H L L K T P F I M L R A
UniRef90_UPI0002EF1B58 D K G V V K M L R E E F D A M A V E M E G A A V A Q V T D M F D V P L V V I R T
UniRef90_A6QB43 D S E R K E W I A K T F D A D A L E M E G A S V A V V C D A L N V P F F V L R A
UniRef90_X0R5U7 N R E K V L T L R E E F G G I C V E M E G A A L A Q V A Y L N Q V P F V I I R S
UniRef90_K6CBZ6 D P V R V D F V R G K G D V I A V E M E A A A I A Q V C H L F N V P F V I I R A
UniRef90_D2U407 G A K A L T Y I R Q T F P A I A V E M E G A A I G H V C H Q F G I P F V V V R A
UniRef90_UPI0002491EE1 D K A K I A T I K K A F D A L A S E M E G A A V A Q V C T Q F K T P F V V I R A
UniRef90_UPI00021976E4 G K E I A T I K K S F D A L A A E M E G A A V A Q V C V E F K T P F V V I R S
UniRef90_A0LI68 E T R R K V L Q Y Q N S G V L A V D M E T S A L L T V A A F R Q I R L A V V L T
UniRef90_U1S7Z9 G G E R L A Q I K Q D F K V I A V E M E A T A I A Q V C H A E N V P F V V V R A
UniRef90_Q30QR2 N E E R K N W I G T F F G A D A L E M E G S A V A G V C H A N L N I P F F I L R
UniRef90_UPI0003F6E774 A P E R V A K A R A D F P T M A V E M E G A A I A Q V C H L A N I P F V V I R S
UniRef90_U2PY92 N E J E K I Q W L S E F E A F A C E M E G S I A H T C C F L N E I P F V V I R S
UniRef90_E6U8J4 E A G E T K A L I R E L G G V C E M E G A A I G H V C C F L N E V P F L I V R T
UniRef90_A8H2V2 D K A V V S M L L K E F S A I A V E M E G A A V A Q V T D M F D I P L V V I R T

UniRef90_I2K6H2 I S D S A D M D A S F N F D E F L E S 210 220 230
UniRef90_R9L096 I S D K A D G S A H M D Y P E F E R A A A A H C A K L V I E N L V
UniRef90_F8DHJ3 T A D Y V D H H N H E W D E F R K A D A M T F F K T I A V D I A L E
UniRef90_H1PZ36 I S D K A N H D A K V D F D E F V K L A A K N S K T I I E G I L N
UniRef90_UPI00037264A6 I T A N R V L G T F S K D P G A V I E N L I T Y T L N K L T E
UniRef90_S1R8F8 I S D T A D H Q A T M S F D E F I D E A G K R S A E M V T I E
UniRef90_UPI0004641BC4 I S D V A D Q T S H L S F D E F L A V A A K Q S S L M V E T L V Q
UniRef90_I0S8H4 T A D Y V N H H N Q T W D N E R K A D A M T F F T I A L T I A
UniRef90_C5ZVN7 I S D N A G D E A L I S Y E E F E H S A K Q S A A L V I K M I
UniRef90_UPI00040DCAC3 I S D S A D D Q A N I T F D E F I L L J A
UniRef90_W1Q241 I S D S A D E E A S L S F D E F L E I A
UniRef90_J4KDW9 V S D V A D K T S H L S F D E F L E I A
UniRef90_B1YJD6 I S D S A D E E A S L S F D E F L E I A
UniRef90_F8CTA1 I S D I A G K E S N I S F E Q F L D T A
UniRef90_B0NAA5 G A D N L S T D K W E P M D L M E Y G I D R Y M A L A L E C G A R
UniRef90_R7FB19 I S D S P N E E N Q I D F N K Y L K M A A D R C
UniRef90_A0KIZ1 M S D I A G K E Q V E S F D A F I E V A A E V I I K
UniRef90_R6NTX8 I S D N A D T D Y I E F K E D I S E Y A D T A A K I A V N I V
UniRef90_UPI000474C578 V S D K P L H G E I K L P G A N A F Y E R A V I G E H L E I G L K
UniRef90_A7NLM5 I V A Q R T A S E A I I V E R K A V A I E
UniRef90_S5R5Y1 M S D T A A H D A N I T F D E
UniRef90_B8D909 I S D A S D N N A T V N F K E N I D I V S K F V K I L L E N L I
UniRef90_R7R4L9 I S D K A D G S A H M D Y P E F E R A A A A H S A K L V I E N L V K
UniRef90_Q4DKS7 V V A K R A G A E H T T S E Q S G Q A L K N A I Q I A L E A I V
UniRef90_UPI0004151AAE I V A N R I T H Q F T S S N P D A V V D D L I L K T L E R L V
UniRef90_K2PTA5 V V A N R A N G T V I S K D P K L A M K K L I V F A L D K I
UniRef90_T4VWY0 M S D K A D G S A D V T Y E E
UniRef90_U1KK58 I S D I A G K E S P Q S F E E Y L E V A
UniRef90_A5Z754 I S D K A D G G A Q M D Y P T F E K A A E N S I K L
UniRef90_UPI00046909E9 I S D A A D M D A S F S F D E
UniRef90_UPI00041C1EE5 I L A N R L N F E F A T N P A L I V E N M L K N V L E K L
UniRef90_UPI000479F0F1 I S D K A D E K S G M S F E E F T Q
UniRef90_NOC4R6 M S D T A S H D A N I T F D E F L L E A G K R S A E T I L Q
UniRef90_R7BLD6 I S D K A D D S A N S M D Y G E F E R K A L E H S V L L M E N L V Q
UniRef90_F2PCB7 I S D V A D K E S P M S F D E F L P L A A K S S S I M V E K M V E
UniRef90_W4QKP9 I S D I A G H D A K V S Y D Q K K A S V N S A K Q V L L
UniRef90_C2SLJ2 I S D S A D D S A K V S Y D D F A K T A A N Y C S E I I V E
UniRef90_T0CWJ9 I S D K A N G E A D L S Y E E
UniRef90_E6UHP4 V S D N G D D S H N D Y A Q S L A K A K A E L D I L V
UniRef90_I7LJ30 I S D F A D E N H V A D Y E K Y I N I A I E
UniRef90_UPI000468D26A I S D I A G K D N N S Q S F E E F L H V A
UniRef90_J3D924 V S D K P L H G E G M A N R F Y E Q R V A Q H L K I G I R A L
UniRef90_D9SKL2 I S D N A D N G A H M D Y E K F Q H
UniRef90_G2KUE5 M S D T G D E D A N Q S F S E F L V Q A
UniRef90_B8F704 I S D V A D K E S H L S F D E F L P L A A E
UniRef90_UPI000467BB32 V S D K P L H G E G M A S E F Y R Q R V E Q H L E I G L K A L
UniRef90_C5LL50 I
UniRef90_D3R3N9 M S D S A D T D E E F K D F D I S E Y A D T A A R L V V R I L
UniRef90_R5TQX1 G A D S L S S E K W
UniRef90_U3H766 V S D K P L H S E I K A S A F Y Q R A V S Q H L R I G I A A L
UniRef90_S5IX33 I S D K A D G S A D V V Y S E L K K A T D N S A T I T L N M L
UniRef90_I2FJB3 I S D S A D G S A D V S F D E F E S S A K R S A E F V L E S L L E
UniRef90_A0A031K6E4 V S D K P L H G E I K L P G Q A N R F Y E E A I A S H L K I G L
UniRef90_S5ZY84 I S D N A G K Q T A A K D E F S K Q A A R N S A Q L V L E M I R Q
UniRef90_A3UF19 V S D K P L H G E I K L P G A N R F Y A K S V S E H L A A G I E
UniRef90_W4BGR1 I D G F A D S D L A A E Y D P H T D A V I G Q A V E
UniRef90_R5Q965 I S D V Y G H G E S S M Q F D E Y L K I A S E
UniRef90_E6UAZ2 A A D C L D G D E W I L G S G E K D I C G T M A D I A I E T I R
UniRef90_B2VE28 I S D V A D Q Q S H L S F D E F L A V A
UniRef90_K2EEZ1 I S D L P L N Q E G I T K E S S Q K V Y D L Y T K N H V E I G I R
UniRef90_A6VPH1 I S D A G D G E A G M S F E E
UniRef90_A3QBQ0 I S D N A N N D S P V D F D S Y
UniRef90_UPI00041DD9B8 I V A N R V Q Q S F S K D G G K A V E S L I V K S L E I L
UniRef90_UPI0004718BE2 I S D V A G K E E T A T T F D Q F I
UniRef90_Q2BGV0 I S D I A G K E S G V S F D Q F L V T A
UniRef90_T2BHY6 S A D T L A D P H K Y Q E R E W K T S I S I A L E L A L D A V L
UniRef90_UPI0003686110 V S D T P M I P E G V K T E E S D R E V T R H I K L G M E A M A R
UniRef90_C5WHF6 T A D T L A D I E A Y D Q R N W A D S F T F A L N L C L E V L
UniRef90_UPI0002D271FB I S D K P L H G E G I T R H F Y E K S V N Q H L K I G I R A L
UniRef90_A6DBX5 I S D S A E E G A G V D F D E
UniRef90_UPI0004787D94 M S D K A D G T A D I T Y D E F V Q D
UniRef90_G5HEY8 G A D H L D S D R W L T D Y G R H L S D K Y I A I A L E I A L
UniRef90_R8AMV4 I S D V A D K E A S M S F E E
UniRef90_F7VDI2 V S D K P L H G E G M A N A F Y R E R V S Q H L M V G I E T
UniRef90_A7ZC47 I S D G A G N E A E F D D K F Q D S A N V S A K F I L E M V
UniRef90_D4M501 I S D K A D G S A Q V D Y P T F E K
UniRef90_R6TBN9 I S D K A D N S A T M D Y P E F E K
UniRef90_UPI00036008B5 I S D K A G E G N A I S Y E K
UniRef90_UPI0002EF1B58 I S D K A D G S A H M V Y A E A K Q T A D N S V A I T L K
UniRef90_A6QB43 I S D A A D T D A T F D F D E
UniRef90_XOR5U7 I S D K A N G E A S L S F A D F T K
UniRef90_K6CBZ6 I S D I A G K D S D V S F D K F L E K A
UniRef90_D2U407 I S D V A D K E S H L S F E E F L P V A
UniRef90_UPI0002491EE1 M S D V G D E N A S V N F D D F V
UniRef90_UPI00021976E4 M S D V G D E N A S V N F D E
UniRef90_A0LI68 V S D E L H S M H W V H G Y R E P R F L E T R E K V V D A V L
UniRef90_U1S7Z9 I S D A G D G K A N M S F E E
UniRef90_Q30QR2 I S D A A D M D A S F S F D E F L E S
UniRef90_UPI0003F6E774 I S D I A G T E S P V S F D A F L E T A
UniRef90_U2PY92 I S D N A N N G A H M D Y E K
UniRef90_E6U8J4 I S D L A D E T A P I T Y E E F E Q K A S V Q S N H V V E G I L K
UniRef90_A8H2V2 I S D K A D G S A H L V Y E E A K Q T A D N S V A I T L N M L

1 Y H L H L R P E E L A N T I I T V G D P D R V S M V S Q Y F D R I E V K Q Q 40
UniRef90_UPI0004169359 E I I D K I E T E K V T
UniRef90_A8SJU5
UniRef90_C8NE51
UniRef90_E3C6G7 P H T Q L T T E I G T D S A I I V G D P A R V D T A T Q L L D D V Q G W A F
UniRef90_I3DFR8 H I E K
UniRef90_B7VJ21
UniRef90_UPI00036CD2EE P H L P A R L G H F P G V C L L P G D P A R V D L A A T V L S D F S V L G Q
UniRef90_F5L3X6 I M G A M K E E I E L F L K A M A D I Q E K Q
UniRef90_U3AAS1 D P E G A M H I P A K M P Q M P
UniRef90_UPI0002628BA5
UniRef90_UPI00042A6207
UniRef90_R6HET0
UniRef90_M4WS77 I H L G L E R R D D P R F V V L P G D E G E A N A I V A G V E W H R
UniRef90_E4KP53 I I E
UniRef90_C4Z1B8 I I G A M D E E V E Q L V E V M E I T R E E T
UniRef90_UPI000366C143
UniRef90_V8LWN4 I I A A M E Q E L V L L V E Q L E N K V E K I
UniRef90_M2BAB3 K I G I F G A E E Q E V K L L K K H L V G E I R K I A S
UniRef90_A7H007 G R L P E K C L F A F L G D V V H D Y A N E H G A E I V I V T V
UniRef90_Z4WZF5 E A F V A P G N V I T R N A L A G G G T T G A A S E R T
UniRef90_U1H852
UniRef90_C0QYJ4
UniRef90_E9S932
UniRef90_G2LMT0
UniRef90_E4NZ11 I A I I G A L D D E V A L I A A S L D V T H P Y V K K T
UniRef90_C8NRK6
UniRef90_D4LIV7
UniRef90_V6U045 Y H L F I R P G E A A N R V L T V G D V P R A V A I A K T P G F E V K F I R R
UniRef90_UPI000465B2B2 I I G A M K E E V D A I K K Y M N I V D T K T
UniRef90_L7WRE8
UniRef90_D8QJD1 Y H L G V R P G E V A N R I V T V G S P S R A H T L A S L L D A S P K P F T S
UniRef90_S5SZ97 R L I L P V G E T L T A E T A S E A D I E D L T L E S A
UniRef90_D7GS21 I I G A M E V E V E K L R A K M T E T E M K T V A
UniRef90_I0TE45 I I V A M D K E F T Q L K S I L S D T Q T E R Y H H
UniRef90_A8UBN3 K I G I I G A M Q E E I T V L K N S M R D K R E W V E
UniRef90_UPI0002F0455B I L C A M D E E I K E L K A Q L S D E T T T T
UniRef90_R6ZW34 N T I G L I G A M D E E V A I L K E Q M T D T K E M T K
UniRef90_UPI000248E067 E L F H E H M E Q V R E
UniRef90_D1AZU6 K L A I M G A M V E E I T P L L D F F G T Y E T L E
UniRef90_U2TZC5 T L Y M G G D S S T I A P T V I F S G D P W R V E V V K D Y L D R P K K V A F
UniRef90_U2EUP1
UniRef90_V5F5R3
UniRef90_D3FX73
UniRef90_R5FXG5 M S V E E T I T
UniRef90_C2B147 A D V C I V S F S R H V L D M F L E S F E N K S I G H T S
UniRef90_UPI00040A7058 K L P K K C V F G F L E D H I D Q Y A R K A K K I A E F E S A
UniRef90_R7JUG5 N M T V K N T V K
UniRef90_W5I1Q2 E K Q S F R R I A V L G A L D E E I N L I A H N L T K V R Q I L L S V
UniRef90_R5ESJ9 E N F P E T V V A V F S H Q L F A S V A A F L K R I A H T R D A
UniRef90_A4EGR3
UniRef90_X2HFB6
UniRef90_D3QCF4
UniRef90_F6CB85 K I A I I V P M A E E A E F Y R N H F H A E K K E M
UniRef90_A0A033UZF5
UniRef90_L0B7S6
UniRef90_E6LDP9
UniRef90_UPI0003687C61
UniRef90_B3E6E4 I M P L D M P Q C C V I C F F R E V I D K I V I E H N A K V L V T D E
UniRef90_UPI00036C57C1 V I G A M D V E V D L V A K S L E D V R E N S Q A
UniRef90_R5GV50 A K I G I I G A M E L E V D A L K A A M E V K N T V T
UniRef90_E6PN80 R V G E A A E S H D A G A V P A R M
UniRef90_Q0ASN6 P W R R
UniRef90_F2NUZ3 V T K
UniRef90_E0QJ36 V E N
UniRef90_H4GL66
UniRef90_J3JC96 Y G I I C A M P E E I K E L T A Q L E H P V T T T
UniRef90_UPI000471062F
UniRef90_UPI0000E0E5FC A Q T I I G A M D E E I E L L L S S M E Q Q N R V E
UniRef90_F3PT59 I L I L G A M D E E I A L L L T Q S L N S P L E E T
UniRef90_UPI00046312E9 I I S A M D S E H R Q L A G R L Q E K R E R D
UniRef90_R6YQW3 K L P K K C V F A F L G D Y I E E Y A D K S D T R Q V F I S A
UniRef90_D0R4R9 K I A I I V P M E E E A E F Y K K H F K S E N K E V
UniRef90_S8FGX6
UniRef90_W9EG74 N I E P K R I A I I C A M D E E I K L L Q E A L T D G H C Q Q
UniRef90_D8IG97 L Q P I V I Q G A L P V E S E R M A A K L D N A T V E T I K
UniRef90_N9PS93
UniRef90_H5S942
UniRef90_UPI00047C5A8F M T I K N T V N
UniRef90_B9CYE0 I A I L G A M R E E V A P L L E R I K D Y K E V K
UniRef90_E0WUN3 I I G A M E Q E V I H L R A Q I K E C K I Q P L R S
UniRef90_R6LKT0 V I S A M D S E H R Q L A E R L Q E K K V I T G
UniRef90_C1CVJ7 I I G A M D E E I E L L L A D L T A H E Q L T
UniRef90_B0S2Q0 K L Q P I A I I S A L I E S E Q E Y F R E Q F N P I K M D K
UniRef90_N9GFA7 I V I Q G A L P V E S E R M A A K L D H V T V I E T
UniRef90_R7N3R6 K I G I I G A M E L E V E T L K E H M S A A N I T K
UniRef90_G2PI25
UniRef90_C6LHF3
UniRef90_M7Y3M6 Y H L N L K P E H L P E K C V I T F F R K E L D Q F A E N N L S V I G Y L N E
UniRef90_R6CL56
UniRef90_X8K620
UniRef90_UPI000255863F I T G P L E D I P A T T K M
UniRef90_UPI000471ED76 K I A I I L G A M P E E I E P F L D E F E C E K I D Y A

UniRef90_UPI0004169359 K R E F V T H T G Y I G S K R L T V T S S G I G T D N V E I L L T E L D A L A N 80
UniRef90_A8SJU5 R G C F T F Y L T N I S N K E S V V L V G T C G I G K V N S A I Y T Q S M T D H F N S
UniRef90_C8NE51 V A N W E F I L E G T L V G K S R I L V L M S T G I G K V M S A L A T G L L I D R F G
UniRef90_E3C6G7 N R E Y K S L I E G T Y K N K R I L V L M S T G I G A P S A G I G V E E L H N V N
UniRef90_I3DFR8 I G D L E F M L G K L Y G R E V V L V E G G I G K V N A A L C A T L L N Q H F Q
UniRef90_B7VJ21 K G G C T F F S G Q L N G V D V V L L Q S T G I G K V A A A V G T S V L L S E Y Q
UniRef90_UPI00036CD2EE R R E F R I G T G Q V A G V P V A V C S T G I G G P S T E I A V V E L A R L G
UniRef90_F5L3X6 R A G I T F Y Q G R M H E K D V V L C Q S G V G K V N A S V C T Q I L I D D Y D
UniRef90_U3AAS1 P T Y H L K R A N G Q D V T L V N I G V G P S N A K T A T D H I A V L R
UniRef90_UPI0002628BA5 V A G T F Y Y Q K T M A G Q D V V L L Q S G I G K V N A A L A T T L L S H F R
UniRef90_UPI00042A6207 G T F F F S G Q L F G T D V V L L K S G I G K V N A A L A T T L L K T Y Q
UniRef90_R6HET0 H I T F I E G K V E E K N V L V C Q G I G K V N A A M V T Q A L I D S Y N
UniRef90_M4WS77 F Q M P A Y H L I A E D D G D G V T L V N I G V G P S N A K N I T D H L A V L R
UniRef90_E4KP53 L A N K T F Y K G K L A G K T I V L V E S G I G K V N A A L V T T L L L N H F P
UniRef90_C4Z1B8 K A C M T F K A G K L A G K D V V L V R S G I G K V N A A A C T Q L V D D F K
UniRef90_UPI000366C143 Q M P A Y H L V G P A D H D G I T M V N I G V G P S N A K T M S D H V A V L R
UniRef90_V8LWN4 V L G N I Y Y T G R L G K H D V V L V Q S G V G K V M S A M S V A V L A D H F E
UniRef90_M2BAB3 G L S F F A G K L M G K D V V L V C S G I G K V N A A L C C A S I L I S K F K
UniRef90_A7H007 Y A N N K F Y L A S Y K M G K Q L V I A Y S K L G K V N A A L T A S I M I E K F K
UniRef90_Z4WZF5 S R D I K V Y V L D S Y G E K I C L V Q S P T G S A S S T H V M D I L V T C G
UniRef90_U1H852 P Q M P A F H L V E S G Y R G I T L L N I G I G P S N A R N L T D H V A V L R
UniRef90_C0QYJ4 T Y Y K G T L C G Y K N I V L L K S G I G K V N A A I A T T L A I E R F N
UniRef90_E9S932 V S G V E F V Y G E L F G M N V V A A V C G I G K V F A A I C A E A M I V T F K
UniRef90_G2LMT0 I S N F K L Y E R R F M G K N N I F L I Q S G I G K V S A S L S T M Q L L N L Y Q
UniRef90_E4NZ11 L D V T R G T L E R T N D G G T V T A V V G M G L V N A A A T T Q H L I D A Y H
UniRef90_C8NRK6 F Q M P R F D L T T A E G D G L T T I N I G V G P S N A K T I T D C L A V L R
UniRef90_D4LIV7 R A G M D F Y E G V L E G K K V T V L V Q S G I G K V N A G M C T Q L L A D L I Q
UniRef90_V6U045 A P R F T T I T G L Y K G V P V T I V T S L M G I P N A D F T F R E L R H C F G
UniRef90_UPI000465B2B2 I L D C T F Y Q G T I E N K E V V L L Q G G I G K V N A A I C T T L L L T N Y Q
UniRef90_L7WRE8 V A H V K F Y T G E L N H K E V V I T Q S G I G K V N A A L S T T L L I E K F N
UniRef90_D8QJD1 E R G F L T I T G R Y K G V P I S I M S I G M G S P N L D F F V R E S R E C V G
UniRef90_S5SZ97 Y Q M P R Y D L A T D D G D G I T M I N I G V G P S N A K T I T D C L A V L R
UniRef90_D7GS21 G M N F C K G K L E G K D V I V L V R S G I G K V N A G I C S Q V L V D L Y Q
UniRef90_I0TE45 K D F V T G T L E D K E I V I L Q C G I G K V N S A I G A V E M I N H Y N
UniRef90_A8UBN3 A N A S F T S G K I E Q I E V V L V Q S G I G K V N S A I A A T L L L A R H E
UniRef90_UPI0002F0455B V G K V D F F S G Q I N G S N K T V V V V S G I G K V E A G L V T A L L I T N F D
UniRef90_R6ZW34 A G M T F V E G N L W G L S T V V V V S G I G K V N M A V T C T Q I L I D F S
UniRef90_UPI000248E067 S A G I T F Y E G V F H G K S I V L C K S G V G K V N A A V T T Q L L I D T Y G
UniRef90_D1AZU6 F A K N R Y T T T Y K G M E L V I A Y S K L G K V N A S L T A T T L L I E K F G
UniRef90_U2TZC5 N R E F N Y T T G S Y K D V P V T V T S T M G A P T A A V A V E E M Y A S G
UniRef90_U2EUP1 V A G G T Y L S G Q L G K Q Q V V L T C S G I G K V N A A I S A Q I T L C G R Y R
UniRef90_V5F5R3 F A G C T F F A G D L D G V E V V L L Q S G I G K V A A S I G T T L L L S D Y Q
UniRef90_D3FX73 F A K V P F Y V G K M C G I D I V L C K S G V G K V N A A L T T Q I L I D R F E
UniRef90_R5FXG5 N G P L E I Y L F E F E G K K L L F Y M S P I G A S A S S A I M Y E A H Y V S G
UniRef90_C2B147 T K T Y P V Y L T K H R G Q E I C L V Q A P V G S A P A A Q L M D W L I G Y G
UniRef90_UPI00040A7058 K A S M E F F E G T L G N T G V V V V R S G I G K V N A G I C V Q I L V D T F G
UniRef90_R7JUG5 K A S M E F N H G Y L N G K E V V V V R S G I G K V N A G I C T Q I L V D D Y G
UniRef90_W5IQ2 T Q G E M D P G S D C P P Y L A A T V A G M G L V N A A A A T Q F L L D S F G
UniRef90_R5ESJ9 D G D W P L E Y V T Y R G S R L A G F C K A R V G A P A C A G Q F E E L I A M G
UniRef90_A4EGR3 Q M P T Y H L K R A N G S G I T L V N I G V G P S N A K T A T D H I A V L R
UniRef90_X2HFB6 F H Y R G E I K G V P V I L A L S G I G K V N A A L T T A V I I E R F A
UniRef90_D3QCF4 I A H V E F Y Q G K L N D V D V L L T R S G I G K V N A A I S T T L L I Q Q F K
UniRef90_F6CB85 F G S T E F E H F S V N G N D V Y L G L S G I G K V Q A A M N L A S L L S N V D
UniRef90_A0A033UZF5 I A H V I F Y K G N I E D K Q V T L V L A Q S G I G K V N A A T A T L L I N E F K
UniRef90_L0B7S6 Q M P A Y H L T R P N H S G I T L V N I G V G P S N A K T I T D H V A V L R
UniRef90_E6LDP9 K F Y A G T I D H Q E V I V V E S G I G K V A S I T A S L L I Q K Y A
UniRef90_UPI0003687C61 Y Q M P A Y H L V A A D H G V T L F I N I G V G P S N A K N I T D H L A V L R
UniRef90_B3E6E4 D G P H P V Y E I A Y N D Q R L A L F H P I G A P L A A G L L E K V I A Y G
UniRef90_UPI00036C57C1 G F T V F D G N L P G A D V R V V A T V A G M G T V N A A A T T Q H L I D A Y Q
UniRef90_R5GV50 R A G M F K E G T L N R S G D V V V V R S G I G K V N A A L C V Q L V D L E Q
UniRef90_E6PN80 P Q M P A Y H L L R R D R S G I T L A N I G V G P S N A K T I T D H I A V L R
UniRef90_Q0ASN6 F Q M P A Y H L I A P G G R G I T L V N I G V G P S N A K T I T D H L A V L R
UniRef90_F2NUZ3 A G G M T F T E G K I N G T P V V L V Q S G V G K V N A A C A Q R L I L K F G
UniRef90_E0QJ36 I S H L T Y I G A Y N D I E V I V V R C G V G K V N A A M C T Q I L I D R F N
UniRef90_H4GL66 I G D K D Y L S G Q I S G Q E V V L V E S G I G K V E A A T T A E H L I T D L K
UniRef90_J3JC96 I A G V D F Y Q G T I S G Q T V I L V R S G I G K V Q A G M T T Q L L L S R Y T
UniRef90_UPI000471062F R A G I T Y V E G T I E G R T V V V C K S G V G K V N A A V T T Q I L I D R F Q
UniRef90_UPI0000E0E5FC V Q H L T C H R G E Y A G Q Q L I I A R C G I G K V A S A L A V G V L V N A Y R
UniRef90_F3PT59 D G G F R Y V E G V L G A N R V I L T Q C G I G K V S A A V G T T E L L R R F S
UniRef90_UPI00046312E9 K A S M E F F E G T I G A N E V V V V R S G I C K V N A A G I C V Q I L A D T F G
UniRef90_R6YQW3 T K R Y P I Y V T Q Y K G E E I V L C Q A P V G A A A A V Q I L D W L I G Y G
UniRef90_D0R4R9 F G T T E F D H F S V N G N D I Y L G L S G I G K V N A A M N L T S L L T K E D
UniRef90_S8FGX6 F R F T K G M I G Y N D I L G M C G I G K V N A A V G T V E L I R R F Q
UniRef90_W9EG74 V G A I T F Y Q G K I K H Q P V V L V K S G I G K V E A G I T A A L L T N F K
UniRef90_D8IG97 I A G L T Y K G K L H G K D V V L L K S G V G K V N A A V A T T I A I E R F N
UniRef90_N9PS93 I G G W K F W K G Y K G Y P V V L V S K T R M G M S N S A A T A L A I Q H Y Q
UniRef90_H5S942 K R E Y R T W L I G Y I A R T S I L V T S T G I G G P S T S T A I D E A Q L G
UniRef90_UPI00047C5A8F K A S M E F F E G T I G T E V V V V R S G I C K V N A G I C V Q L L V D T F G
UniRef90_B9CYE0 H A N N V F Y L A N F G G K E V V I A Y S K I G K V N A A L T A S A M I E D F F G
UniRef90_E0WUN3 L K G I E I Y T G E L Q G V N V A L L K S G I G K V S A A M G T T L L L D S C Q
UniRef90_R6LKT0 D G N F R Y A E G M L G G N R L V L T R C G I G K V S A A V G A A E L I R R F A
UniRef90_C1CVJ7 F P G V T L H R G V L D G V P V L V T R G I G K V N A A M T T Y L L T Q G
UniRef90_B0S2Q0 F N H Y E I Y V S E F E D K K L I N C V C G I G K V N S A A L T Q R I I D M Y N
UniRef90_N9GFA7 I G G W K F W K G T Y K G Y P M I S K T R M G M S N S A A T A I A I Q K Y Q
UniRef90_R7N3R6 K A N M E F Y E G T L N G A D V I V R S G V G K V N A A L C V Q I L A D L F H
UniRef90_G2PI25 V L D M P V Y E Y Y G E E R L C L I T M A F C G A P A A V T L E E L H A M G
UniRef90_C6LHF3 K R E F V T H T G W Y R G T R I T A I S T G M G T D N I E I F M T E L D A L V N
UniRef90_M7Y3M6 Y I E G T I N N N D V V L M Q C G I G K V N A A A G A V E L I R N F T
UniRef90_X8K620 T K K Y P V Y V T E L R G E K I A F C Q A P V G A P A A T M V M D W L I G Y G
UniRef90_UPI000255863F P Q M P S Y H L K R P G G G T L V N I G V G P S N A K T A T D H I A V L R
UniRef90_UPI000471ED76 N N S F Y L T N F K N H E L I A Y S K I G K V N S T L T A T I M I E K F K

UniRef90_UPI0004169359 L D F I I R I G T S G T L R A D I V P L 100 L L A S V Y G L G L D T L M S F Y P L 120
UniRef90_A8SJU5 P E I I I N I G V A G S T D D S N L V K I G D L V I G T E Y F Y H D D F D C Y E A G Y
UniRef90_C8NE51 V D L V M N T G S A G A G F M Q S G I E L G D L V I G G E L A Y C D D N G Y A Y Q Q M P
UniRef90_E3C6G7 V K K V I R V G S A G A G A G S G I E L G D L V I G G E V V R D D D G L T Q K Y V P
UniRef90_I3DFR8 V D A L L F T G V A G A G L H P E I L E L A D I V L L G S T E L V E H D D F D V T A F G Y
UniRef90_B7VJ21 P D V V L N T G S A G A G F D S D N L P L G S V V L A V T H A V P R T G G A A V Q M A R
UniRef90_UPI00036CD2EE V H T V L R V T G G M G A G L R D W V R N L G S V C A V T H A V P R T G G A A V Q M A R
UniRef90_F5L3X6 V D Y L I F T G V A G G V D P Q L N I G D L V I S T E C Q Q H D D F K K G E I P F
UniRef90_U3AAS1 P H A W L M V G H C A G L R N K S Q R L G D F V L A H G Y L R E D H V L D D D L P
UniRef90_UPI0002628BA5 P D V V I N T G S A G G F N K S Q R L G D F V I S T E V R Y H D D Y E Y G Q V P
UniRef90_UPI00042A6207 P D M V I N T G S A G G F N P E L N I E V G D L V V S T E V R Y N D D G Y E Y G Q V P
UniRef90_R6HET0 I E Y L V N I G V A G A G L R N Q S Q T I G D V V L A D K L I Q H D G H S K G Y I T
UniRef90_M4WS77 P H C W L M V G H C A G L R N Q S Q T I G D V V L A H A Y M R R D G L L D R V L P
UniRef90_E4KP53 I N L L I N T G T A G S L D P A V K L G D V V I A H S L T Y H D G Y E R G Q M A
UniRef90_C4Z1B8 A D Y L I N T G I A G L R K A N S Q D L I A D V V L S S D V L H H H M D A T G F G Y
UniRef90_UPI000366C143 P H A W L M L G H C A G L R N Q S Q T I G D V V L A H G Y V R E D H M D A T G F G Y
UniRef90_V8LWN4 V D A L I N T G S A G A G L V A P E I K I G D V V V A S R L V Y H D D G Y D Y G Q M S
UniRef90_M2BAB3 V D A V I N T G A A G G L L E G L N I F D M V V A S T D A V Q H D G H P I G Q V P
UniRef90_A7H007 A D K L L F T G V A G A L S E G L K I N V G D L M Y A T S L A Q H H D G H P Y G Y P
UniRef90_Z4WZF5 C K K L V A V G S C G V L K E I Q E N A F L V P T K A L R A E G T S Y H Y L P
UniRef90_U1H852 P H A W L M I G H C A G L R N T Q R L G D Y V L A H G Y V R E D H V L D H E L P
UniRef90_C0QYJ4 V E K I I F T G V A G S G N P D Y I S D I V I A S K D L I E H D F D T S A L D G P
UniRef90_E9S932 P D V I I N A G V G G S L T D K L D I G D A G I A T A V V Q H D F M D T T P L G D
UniRef90_G2LMT0 P D L I I N S G S A G S L L K I G D I I I P E Y T C Y Y D G Y A Q G Q W P
UniRef90_E4NZ11 P D A V I F S G I A G N L N R N L H I N D V V L G G T L R Y L D T D M R Q W K P
UniRef90_C8NRK6 P E A W V M I G H C A G L R D A R M R I G D L I L G N A Y Q R E D H I L D R H I P
UniRef90_D4LIV7 V E A V I N T G I A G S L N N D I N I G D I V L S T D V L H H H M D A T G F G Y
UniRef90_V6U045 P F A I V R I G T A C G T P L E D A K V G D I V P D V Y R T V L R N P D A F V P
UniRef90_UPI000465B2B2 I D F V I N V G S A G G L C L D Q E V G D V V I S D A V C Q Y D D R V L G E V P
UniRef90_L7WRE8 P K Y I I N T G S A G A L D E S L E L G D V L I P R A C V N V W R N V D F L
UniRef90_D8QJD1 D M A L V R L G S C G G L L D V Q P G T V V V P R A C V N V W R N V D F L
UniRef90_S5SZ97 P E A W I M I G H C A G L R D G R M R I G D L I L G N A Y Q R E D D G R I D H S M
UniRef90_D7GS21 V D G T V N S G I A G S L R N E I N I G D L V L S T A V Q H D D V D A G G F G Y
UniRef90_I0TE45 P D L V I S S G C A G G A D T S L E V T D V V V A S E C T Y H D A Y C G D E M P
UniRef90_A8UBN3 V D V I I N T G S A G G I G E G L A V G D V V I S T E L A Y H D D A Y V I G Q V P
UniRef90_UPI0002F0455B V D V V I N S G S A G G I G T G L T E V G D V V I A D E T A Y H D D Y V Y Q L P
UniRef90_R6ZW34 V D T V I N T G V A G S L N N T L E I G D I V L S R C A Q Q H D D M D V S P L G D
UniRef90_UPI000248E067 V E A V I F T G V A G A L V D P S L N V G D I V V S T E C L Q H D D F P R G T I P Y
UniRef90_D1AZU6 A E Q L L F S G V A G L D N D P N L R I G D V V L A T A L A Q H D G H P H G Y V P
UniRef90_U2TZC5 M R V A I R M G T V M S L L D D M L G E F F V P V A A M R R E A T S D T Y V
UniRef90_U2EUP1 V D A L L N T G I A G N L A D D L G L G D V V V A E Q V L Y H D F D P S I F C H
UniRef90_V5F5R3 P D V I I N T G S A G G F D S L E N L G D V I V S T E S A M R H H D G Y A S Q M A
UniRef90_D3FX73 V S H I L F T G V A G A L D E S L E V G D L V I S T S A M R H H D L D A S P L G F
UniRef90_R5FXG5 A T K F I V Y G S C G V I D K D K C S G K L I V P S H S Y R D E G V S Y H Y M A
UniRef90_C2B147 V R E I I S T G T C G C L I D M P E S T F L L P T R A V R Q H D E G T S F H Y I K
UniRef90_UPI00040A7058 V T H V I N T G A A G S L D A R I N I N I G D I V I S T D V C Y H D M D V R I F G Y
UniRef90_R7JUG5 V D C V I N T G I A G S L R N E I N I G D I V I S T D A V Q H D D M D V R I F G Y
UniRef90_W5IQ2 P D A V I F S G I A G N L N P S L H L N D I V L P K T V R Y L D D S D M S G Q A Y
UniRef90_R5ESJ9 A R R F I L L G N C G V L D K R I E D C G I I I P T K A I R D E G T S Y H Y A P
UniRef90_A4EGR3 P H A W L M V G H C A G L R N S Q R L G D F V L A H A Y L R E D H V L D D D L P
UniRef90_X2HFB6 P D Y V I N T G S A G A L K A G I S I L G D V V V G C E I T H H D G Y V G Q V P
UniRef90_D3QCF4 P E M I I N T G S A G A L D E D L S I L G D V V V S D S V I Y H D G Y Q Y G Q V P
UniRef90_F6CB85 I D V I F M T G S A G A L Q K D V H Q E D L V L P S A F A Y Y D D Y V E G Q I P
UniRef90_A0A033UZF5 P D L I N T G S A G S V D S E L N I G D Y I I A S N K V Y Y H D G Y K L G Q V P
UniRef90_L0B7S6 P H V W L M L G H C A G L R D S Q R L G D Y V L A H G Y V R D D H V L D E D L P
UniRef90_E6LDP9 V D V L I N T G S A G G I G A G L S V G D I V L A S T K V A Y H D Y E Y G Q L P A
UniRef90_UPI0003687C61 P H C W L M I G H C G G L R Q S Q T I G D Y V L A H A Y M R R D G L L D R V L P
UniRef90_B3E6E4 G R K F M V C G C G V L D K D M S V S G S L M V V S A I R D E G V S Y H Y L P
UniRef90_UPI00036C57C1 P D Y V L F S G I A G N L T D H L H I N D V V L G K T L V Y L D T D M R M I S Q
UniRef90_R5GV50 I T H V I N T G V A G S L N A D L I G D L L I S K D A I H H D V D A T V F G Y
UniRef90_E6PN80 P H G W L M L G H C A G L R N S Q R L G D Y V L A H G Y V R E D H V L D E D L P
UniRef90_Q0ASN6 P Q C W L M I G H C G G L R H S Q R L G D Y V L A H A Y L R Y D A V L D E D L P
UniRef90_F2NUZ3 C E T H I I N T G I A G A M A S G L K V L D F V A S T D A V Y H D M D F G Y K K T
UniRef90_E0QJ36 P E Y V I N T G V A G A V S D V V S I G D I V L S T Y L V E H D F D C T A F G Y
UniRef90_H4GL66 A D V V I N S G S A G G I G E G L A V G D V V V S T A T A Y H D G Y E N G Q L P
UniRef90_J3JC96 P D V V L N T G S A G G I G S G L K I G D V V V S S E V A Y H D G Y A L G Q L P
UniRef90_UPI000471062F T T T I L F T G V A G A V D P E L N V G D M V I S S T C M Q H D M D K G I P Y
UniRef90_UPI0000E0E5FC P D I V I N T G S S G G Y D K R L N V G D I V V A D E L V Q F D G Y V H G Q P A
UniRef90_UPI00046312E9 P D C I I S T G A A G S L D A C L K V I T D V V S E R L V Y H D V W C G D N E Y
UniRef90_R6YQW3 V T H V L N T G A A G S L D A R I N I G D I V L S T D A C Y H D V D A T I F G Y
UniRef90_D0R4R9 I D V I E S T G S A G S L Q E D V N K R K D L I L P N K F M Y H D N Y V E G Q I P
UniRef90_S8FGX6 P D C L I S T G V A G G I D T R L N M D V V A S R Q V V Y H D V W C G E N E Y
UniRef90_W9EG74 I D V L I H S G S A G G I G E N L Q V G D V V L S T E T A Y H D G E V L G Q L P
UniRef90_D8IG97 I E K I T F T G V A G S G H P N Y N I A D I V I S K N L I E H D F D T S D I D G
UniRef90_N9PS93 P I A I I N Q G T A G G H D P D L H V F D I V L G K Y T I N I G A F K T P H K P
UniRef90_H5S942 V T T F L R V G T T G A I Q P Y I N V G D V I I T T G A V R L D G A S T H Y A
UniRef90_UPI00047C5A8F V T H V L N T G V A G S L D A R I N I G D L V L S T D A A Y H D Y K K G E I P Q
UniRef90_B9CYE0 A D K L L F T G V A G A L N P N L K I G D M L Y A T S L V Y H D G H P H G Y V P
UniRef90_E0WUN3 P D Y V I N T G S A G G L S K D L N I G D I V I S Q E V L Y H D G Y A K G Q M A
UniRef90_R6LKT0 P D C V V S T G V A G G I D A C L K V G D V V V S E S A Y H D H W C G E G N E Y
UniRef90_C1CVJ7 A T R V I F T G V A G G V H P E L R V G D I V V S T D C I Q H D D Y P L G T V P
UniRef90_B0S2Q0 P D L V I N C G V C G G L D K S L S F D E V I L A D K L K Y H D I N L D I F N I
UniRef90_N9GFA7 P I A I I N Q G T S G S H D P E L N I F D I V L G K Y T T N S D A L T W H E A P
UniRef90_R7N3R6 V T A V I N T G V A G S L N A K L N I G D L V L S T D A L H H H D Y Q P G E V P Q
UniRef90_G2PI25 V R R L V T V G T A S L Q P H L N P G D L V V C D S A L R D E G V S R H Y L P
UniRef90_C6LHF3 C E K F I C G G A G A L A K N S K V G E I A P V S A V R D E G T S Y H Y L E
UniRef90_M7Y3M6 I D N I V R V G T S G S M R R E I P E G S L I A S E Y A I G L D T L M A F Y K T
UniRef90_R6CL56 P D C V I S T G V A G G I D T C L K V M D V V A S A Q I V Y H D V W C G E N A Y
UniRef90_X8K620 S Q T L L A S G C C G A L E D I D E N V F L V P S K A L R D E G T S F H Y A P
UniRef90_UPI000255863F P H A W L M V G H C A G L R N S Q R L G D F V L A H A Y L R E D K V L D D L P
UniRef90_UPI000471ED76 A Q I L L F T G V A G A L K E G L K I G D I L Y A T S V V Q H D G H P Y G F V P

UniRef90_UPI0004169359 A P E Q Q Q A G V A E S F Q Q A L R L P F R P Y C D L Y Q G N T L T A P G F Y A
UniRef90_A8SJU5 V M G Q I F V A D K K L V D I S Y E K A K K V E N R L F R G I I A T G S D D I F V A
UniRef90_C8NE51 G M P A R F A M N Q D F L P S I L E Q A L A K V D L K S H T G L I V S H D D G F Y M
UniRef90_E3C6G7 P L Y P A V P A F R L M A L A H K Y A P Q A V Y G L I R S H D D G F Y M
UniRef90_I3DFR8 P L G K I P R M D V H A F P A D P R I L I F G E S H I F Q G R I L S G D D Q F V A
UniRef90_B7VJ21 G Q P A F F K A D D D K L M A A E Q A L A Q M E D K H A V R G L I C T G S D A F V C
UniRef90_UPI00036CD2EE D S E P R T A D P K E V L D R L R A E A T A L G T E L A R I T V I A S S D T Y Y L
UniRef90_F5L3X6 A K T S V F K A D P F L I R L A E S Y R P E E D T Q I V K G K I A S S G D Q F I A
UniRef90_U3AAS1 V W V P I P A L A E I Q I A L E E A E G Y D L K R I M R T G T V I A T I D N R N W
UniRef90_UPI0002628BA5 K M P A A Y Q A D G R L M N L A E K A A K T N A H Y V V K G L I A T G S D F M S
UniRef90_UPI00042A6207 Q M P A A Y A A D G G L I T A S L E A A E Q E D I P L Q K G L I A S G D S F M S
UniRef90_R6HET0 G V I G D F I Q T D E N L K N K L E K L N H N N D Y K I K L G L I A S G D I F C T
UniRef90_M4WS77 P H I P I P A L A E V Q V A L Q E A A A L V T G R R L R T G T V L T Y D D R N W
UniRef90_E4KP53 G M P S L Y Y P D S Q L I R L S Q A V V R G M G I E P I V G Q I V S G D Q F I N S
UniRef90_C4Z1B8 P L G Q I P R M D T L S F A A D E R L L K L A G L I G V H V G R V I A S G D Q F I S
UniRef90_UPI000366C143 P W V P I P A M J A E I L Q A L Q A Q A V A E V L K A I L R T G T V A T T D N R N W
UniRef90_V8LWN4 M Q P L Y F E S D P S F V E T F E K V L J A Q A S I D S K I G L I A T G D S F I A
UniRef90_M2BAB3 M T K S P F W P A F K T M Q K E S D D E H I K N L K L T E G R I A S G D Q F V S
UniRef90_A7H007 G I E V F S K T D E G L N K L A I Q V A A K K G L D L K S G V I A S G D Q F V C
UniRef90_Z4WZF5 V S R Y T E L D K E P I S V I E E T F K K D G L P F E T C T T W S T D G F F R
UniRef90_U1H852 L W V P I P A L A E M Q V A L E E A V G E V T G R L M R T G T V I A S V D N R N W
UniRef90_C0QYJ4 D E Y Y P A D A S L I Q L A K E S A Q K V I T E N K V Y V D T I A T G D Q F V G
UniRef90_E9S932 P N K V Y F D C A D E C V S L L T E A A A E H G I N C A K G V I A S G D C F V N
UniRef90_G2LMT0 K Y P K K F I T N K K I H E F C K K N A L K Y Q L K F T K G L I S G D S F I R D
UniRef90_E4NZ11 G T E Q Q F H S D D R L L S L A D Q A A L S A M G V T H I I G L I A S G N Y F V D
UniRef90_C8NRK6 P I P A I P E I Q K A L E A S V D E I Y G D D N D L M R T G T V L S T D D R N W
UniRef90_D4LIV7 P K G Q I P Q M S F Q A D E C L R K I A H D V C I R V F E G R I A S G D Q F V C
UniRef90_V6U045 G K S F P M P H D L T S I L R K H V A A L S Y K M H A G S C L S C C C F Y S
UniRef90_UPI000465B2B2 G L P P K I K A D Q E L V D R A K N V L E N L S K L N Y T A G L T V S G D K F V A
UniRef90_L7WRE8 Q M P E E K Y A N E Q L S E T V S E V V Q Q H L N A K T G L I V S G S F I G
UniRef90_D8QJD1 N C E E E N P K D A Y M V S K P A S A D Q E L H D I V S I S S F Y S S Q G R Q T
UniRef90_S5SZ97 P I P A V P E V I Q R A L E A T V I E I Y G D A K A L M R T G T V L S T D D R N W
UniRef90_D7GS21 P A G E I P P A D E R L L A L A E A C R E A N P D I V K G R V A S G D Q F I D
UniRef90_I0TE45 A R F K A P T E L I E K A L S L N T R N D C K D I H V K A G L T V S G E W F V N
UniRef90_A8UBN3 Q M P A R Y Q A D N F L V E Q T K E A A V K V G L K T V Q G L I V T S D S F V A
UniRef90_UPI0002F0455B Q Q P A R F T A S E K W A N E I K A A D A T G L A V K R G L I V T G D S F V A
UniRef90_R6ZW34 P V G I P R M D E S I F A A D E T L V K N S D L I C H V G K V V S G D Q F I A
UniRef90_UPI000248E067 E A T S V F A A D T G L R S A A G A S R E L F G T V K E G R V L S G D Q F I A
UniRef90_D1AZU6 E G S V Y V D T D A S L R A L A H K V A K A Q N I L L Q E G I I A T G M D G F Y C
UniRef90_U2TZC5 D K S F P A V A D F D L N V M N E V V H D Y G F H R S S N G I S C S M D G F Y T
UniRef90_U2EUP1 P Y T P V L K A D G A L V E Q I C R C L D E I G V R Y K R G V V A T G D Q F V S
UniRef90_V5F5R3 G Q P A A F K A D E K L I N A Q S A L D K M A D T H A V H G L I C T G D T F V A
UniRef90_D3FX73 K R G E I P M Y D G D S D I F K A S T R L V E I D R Q V V C G R I L S G D Q F I A
UniRef90_R5FXG5 P S D Y V E I K N C N K T V D I F Q K Y N L P F V V G K S W T T D A V Y M
UniRef90_C2B147 P S R Y I G L N P I A L S A L E D L F K E R R L K Y R E V M T W T T D G F Y R
UniRef90_UPI00040A7058 P L G T L A F T A N L R K K A E A I K V D L G V F E G R I C S G D Q F I C
UniRef90_R7JUG5 P L G E I P Q M D E H L A E V A E E V C K E V N P E I Q V G R V V S G D Q F I S
UniRef90_W5IQ2 P S G L T E Y H S D P V L L S A A S A V L D S L G I M Y K K G T A W S G N R F I Q
UniRef90_R5ESJ9 A S D L I D V N T R Y I P E F I E V L R E F G Y P Y Y Q G A J A T T D A F Y R
UniRef90_A4EGR3 V W V P I P A L A E I Q I A L E T A V A Y E L K R I M R T G T V I A T I D N R N W
UniRef90_X2HFB6 Q L P A R F N A N V Y L A D A R K A A H F T G A E I Y T G L I V S G D S F I V G
UniRef90_D3QCF4 Q M P L H F E A D K H Y L L D N V L V L K A Q S V L N A K V G L I V S G D S F I G
UniRef90_F6CB85 Q Q P A Q Y V L D S P E R A S F A E F L K K Q N V E F R E G L V V T G D S F V A
UniRef90_A0A033UZF5 S M P E F Y E T D K E L I D L A K S S I E Q L D L N G I V G E V A T G D S F I G
UniRef90_L0B7S6 L W V P V P A L A E V Q V A L E K S V A W D L K R I M R T G T V I A T I D N R N W
UniRef90_E6LDP9 G M P L Y F E A D A T L V E D F A A A T A T K L S S K K G L I V T G D A F I D
UniRef90_UPI0003687C61 P H I P R P A L A E V Q Q A L Q E A A A Q V I G R R L R T G T V L T Y D D R N W
UniRef90_B3E6E4 P S R E V F A N P A G V K A L E D T L N I K N I T H L V G T T W T T D A P F R
UniRef90_UPI00036C57C1 P F L N A Y H S D D Q L L S V A D A V L A D M G I E H I Q G T I A T G N T F V S
UniRef90_R5GV50 P G I R E F I A D E T L V N I A V E S C K K V N P D V R T G R V V S G D Q F I S
UniRef90_E6PN80 P W V P I P P I A E I Q I A L E Q G V A S V S G D N L R T G T V A T Y A D R N W
UniRef90_Q0ASN6 L E V P I P P I A E I Q I A L E Q G V A S V S G D N L R T G T V A T Y A D R N W
UniRef90_F2NUZ3 E L P Q M K C S D F P A D G K M L E A A F P A E H K L V F G R I A S G D Q F I S
UniRef90_E0QJ36 E K G I P R D D E L L K I A E K S K N I L S D I N F F N G V I V S G D V F V S
UniRef90_H4GL66 G Q P A R F T A D Q S L V A A L V K A G A E T G L T V R T G L I V S G D Q F I A
UniRef90_J3JC96 Q Q P A R F K A D A N V A R V Q R A S A V N L A S R T G L I V S G D Q F I A
UniRef90_UPI000471062F Q E V S E F A A A P A L I Q L A E Q A C S V L G A N Y R I G K V L S G D Q F I A
UniRef90_UPI0000E0E5FC G M P A R F T C D S D I V K S T I Q C A S H L D I N A F S G L I G T S D K F I C
UniRef90_F3PT59 G Q V Q G F P A A Y E G C P S L L K H A L S L N D R I H S G L I C S T G D Q F I T
UniRef90_UPI00046312E9 K K G E I P Q L G T Q V F T A D K E K K A A P D L G I F E G R V I A S G D Q F I S
UniRef90_R6YQW3 P S R F M E I N E R A K K A T E K T I V E H N M K Y Q E V I T W S T D G F F R
UniRef90_D0R4R9 Q E P A G Y T L D N S F R A K F A A Y L K E H D I P F K E G L T V T G D S F I A
UniRef90_S8FGX6 G Q V Q N F P A R F S G N E T L M D C A L K L D M K I Y D G L I C S T G D Q F I T
UniRef90_W9EG74 N Q P A R F A A D A E W R A R L A T A S Q T A Q L T V H Q G L I V T G D Q F I A
UniRef90_D8IG97 D D D N Y Y P A D E T L E I A K K S A E T N S K V V E D T I A T G D Q F V G
UniRef90_N9PS93 G G S N A L E W N E A F D A A Y K A K S V N Y T K G Q V V E G V I G S A D T W N N
UniRef90_H5S942 P I E Y P A V A H Y T V V N A L V Q A A Q A L K I P Y H L G I T C S A D T F Y P
UniRef90_UPI00047C5A8F M G V L S F P A D K E L I E K A A A I K T A A P D V F E G R V I C S G D Q F I A
UniRef90_B9CYE0 E T S I L F K S D D A L N A L A S A V A E K G I E L K G G V I A T G D Q F I C
UniRef90_E0WUN3 G C P A R F K A N E K L I K M A E K C L Q Q L K L S V I T G L I C S G D A F I N
UniRef90_R6LKT0 G Q V Q G F P A V Y K G C V P L L E H A L S L N N R I H G G L V C T G D Q F I T
UniRef90_C1CVJ7 G E L P A W P A D E V L R A A A L D A A R E V G H V V S G R I A S G D Q F I A
UniRef90_B0S2Q0 P Y T D T F E A D P E T L K K L D E I M T Q E N L K H R I G L I V T G D Q F I S
UniRef90_N9GFA7 D V L P E D E S D P E P I A A Y A A K A N S K G Q V V E G T I G S A D V W N N
UniRef90_R7N3R6 L G C R E F V A D A R L A E L A V A A C E E V N P D I H T G R V L S G D Q F I S
UniRef90_G2PI25 P S P S I T P P G E L T A R L T K A L R D Q D H V M V H Q G P G W T T D A P Y R
UniRef90_C6LHF3 P S R E V E C H K E T A E I V S C L E Q M G I P F T T G K T W T S D A I Y R
UniRef90_M7Y3M6 D Y T E F E E F R P K E T A R G S E K L M K T V G K G L I G N T V T C P G F F Y
UniRef90_R6CL56 G Q I Q G L P T F F S G N E T L Y N C A M S L D T A I H G G L I C S G D K F I T
UniRef90_X8K620 P S R F I E L D D K M R N L T K E G M E R R N I N Y R E C I T W S T D A F Y R
UniRef90_UPI000255863F V W V P I P A L A E A M R Q E T Q L E G Y D L K R I M R T G T V I A T I D N R N W
UniRef90_UPI000471ED76 G S P L F V I E T D K K L N E I A L K T A K N L G L N I T P G I I A S G D Q F I N

UniRef90_UPI0004169359 P Q G R Y L R L H G Q H Q T Y N F E M E S A G Y Y A L A K L L G H R M L S L N A
UniRef90_A8SJU5 K K E I K N K I K Q N F N S L C C E M E S G A S I I H T C H L N G V K Y L A L N R S
UniRef90_C8NE51 T R E Q R T H L K K H F D G L V M A S E M E S G A A I L M T I G R Q R G M E T F I L S I L A
UniRef90_E3C6G7 D D N A K N E F L W S G K G K D L V G A S D E M E S G A A V L A H V C H I L G T P F L I I R S
UniRef90_I3DFR8 D L E K I Q F L R E T F D G Y C T E M E S G A A V L A H V C H I L G T P F L I I R S
UniRef90_B7VJ21 T A E R Q E F L R K H F P V V A V E M E A S A V A Q A C H Q F Q V P F V V V A
UniRef90_UPI00036CD2EE G Q G R P L A J A L R G L D V D G I D E M E T E T V F S V A R A L G L G L R A G A L L V
UniRef90_F5L3X6 D P E H V E Q L Y H M F N G S C V E M E S G A T V A Q V C H L N Q V P F V I I R S
UniRef90_U3AAS1 E L R D Q V Q R L S Q S P A V L A L D M E S A T I A A N G F R F R V P F G T L L C
UniRef90_UPI0002628BA5 D S E R V A F V M T K F P R A L A A E M E S A G A I A A Q V C Y R F E T P F V I I R S
UniRef90_UPI00042A6207 S D E Q I A F L K Q T F D P Q C A E M E S A G A I A Q V C Y R F E T P F V V I R S
UniRef90_R6HET0 T E H M K N K L Y S K F D A D C V E M E S G A A I A Q V C Y L N E V P F V V M R S
UniRef90_M4WS77 E L H W A Q E R I N L A R A L A V D E M E S G T I A A Q V C Y R L R V P F Y G T L L C
UniRef90_E4KP53 S I E K T Q E I R A S F R A R A C E M E S T A I A A Q V A Q V L E V P F V I I R A
UniRef90_C4Z1B8 D K A V K E R L S S N F D A D G F C T E M E S G A A I A A Q V S Y L N K V P F V I L R T
UniRef90_UPI000366C143 E H Q A P E R V Q R F S Q S R A I A I D M E S G A T V A A N G F R F R V P F V I L L C
UniRef90_V8LWN4 G Q D K I D A I K G H F P E L A V E M E S G A A L A Q A A Q S V K K P F I V V R A
UniRef90_M2BAB3 D K K L R E R I I K E F N P A C V E M E S G A A A Q V C C I N K I P F L I L R S
UniRef90_A7H007 N K D K K D W L K A V F K A D V V E M E S G A S V A A Q V C T Q L G V P F F I L R A
UniRef90_Z4WZF5 E T K D M V E Y R L Q E G C S V V E M E S A L A A C C R K R G A Q F G Q F L F
UniRef90_U1H852 E P Q V L R R M S Q S R S A I A L D M E S A T I A A N G Y R F R V P Y G T L L C
UniRef90_C0QYJ4 D N N K V K Q I H N K F K A G A I E M E S G A V A H A A L M Y K V P F V V I R S
UniRef90_E9S932 S A A K R D E L R N D F S A I V C E M E S G A I G H V C Y V N G T P F G V L R T S
UniRef90_G2LMT0 D N A H I K L L K Q F P S A I A V E M E S A A I A Q V C Y K F N E P L I V I K S
UniRef90_E4NZ11 T P A Q L A K V I H D T G A D A V E M E S G A S V A H V A A R N E V P A L V I R A
UniRef90_C8NRK6 E W H T P R K L W E W F N G V A I D M E S S T L A T N G Y R Y R I P Y G T L L S
UniRef90_D4LIV7 D Q G V K D N L V K E F S A Y A V E M E S A A G Q A A A L N G I P F L I I R A
UniRef90_V6U045 S Q G R Q D Q N F Q D G G F S M M E M E S A H F C D L A R C V N S K C G A V H R M
UniRef90_UPI000465B2B2 D K N T V D Y I K E N F D A K C C E M E A A A V G Q T C Y K F N T K F I T R S
UniRef90_L7WRE8 S A E Q R K L I K S R F D A M A V E M E A T A I A Q V C Y K F K V P F L I T R A S
UniRef90_D8QJD1 S F P D H N R L R E V E G L A T E M E T F H L Y H L A R C W G R K R T T A S S
UniRef90_S5SZ97 E W H T P K D L W E W L R G A A V D M E S S T L A T N G Y R Y R V P Y G T L L S
UniRef90_D7GS21 S K E K K N W I H D T F D A Y C T E M E S G A S I A Q A A Y L N K K P F I V I R A
UniRef90_I0TE45 S R E K M Q Q I L D K F P S A T A V D M E S C S I A Q V C H I Y K K P F I S F R V
UniRef90_A8UBN3 D K K V V Q K I K H H F D A L A S E M E S G A A I A Q V C Y Q F K K P F V I V R A
UniRef90_UPI0002F0455B S D E T I K E I K T H F P E A V C E M E S G A A V G Q V A H Q F D V P F L V I R A
UniRef90_R6ZW34 D G E K K Q Y L I D T F E G D C A E M E S G A A M A Q V A Y L N H V P F L I I R A
UniRef90_UPI000248E067 S R E T V Q L L H K E L Q G A C V E M E S G A A V A Q A C S M N G I P F V I I R A
UniRef90_D1AZU6 D G V K K E W L H T T F K A D A T E M E S G A S V A V V C D A L K I P F C V L R A
UniRef90_U2TZC5 Q M H D I F H E L H N L H V I G G V D M E T S C M L T V C R L M G V K A C S L T V
UniRef90_U2EUP1 D S A V K A D T I A R T G A D C A E M E S G A A V G H T A V K N G V P F G V I R L
UniRef90_V5F5R3 T A Q A Q Q R I R T D F P V I A V E M E S A S I A Q T C H R F A V P F V V V R A
UniRef90_D3FX73 N K E A V K Q L K E L F N G V C V E M E S G A S V A H V S D M D M D V P F V I I R S
UniRef90_R5FXG5 E T Q N K V Q K R K E E G C V S V E M E S S G L Q A I C N Y Y G F E L Y T F F F
UniRef90_C2BI47 E T K D L V K Y R V E E G C S V V E M E S A L A A V A E M R K V T W G E I L F
UniRef90_UPI00040A7058 E Q S I K N A I V S E F S G I C C E M E S G A G I A Q A C H L N N I P F L I I R A
UniRef90_R7JUG5 S K E V K N H L I E E F N G S C A E M E S G A A I A Q G A Y L N K I P Y V V L R A
UniRef90_W5IQ2 G D T A I A E V K E Q T G A D A A E M E S G A A V C H I A A K N D C P A L I I R A
UniRef90_R5ESJ9 E T P A K V A A R R R M G A V C V E M E S C A M Q A M C D F R G V E F F Q Y F Y
UniRef90_A4EGR3 E L R E Q V Q R L S Q S R A I A L D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_X2HFB6 T A E Q N R L I K E K F P V V A V E M E A A A I A Q T C Y Q L N I P F V I I R A
UniRef90_D3QCF4 S T D Q R L L I K E R F P Q V L A V E M E A T A I A Q T C H Q F K Q P F I I T R A
UniRef90_F6CB85 S T E Q K D A I K Q N F N A L A C E M E S G A A F A Q V A Y A F N K P L V A M R A
UniRef90_A0A033UZF5 S I D Q R K V L K S N F T A V V E M E S A G A I A Q T C Y Q Y N V P L I V T R A
UniRef90_L0B7S6 E L H D Q Q L B K R F A Q S R A I A L D M E S A T I A A N G F R L R V P Y G T L L C
UniRef90_E6LDP9 S E E K I K T I L H H F D A L A C E M E S G A A I A Q T A F Q F G V P F V V I R A
UniRef90_UPI0003687C61 E T R W A Q E R I N L S R A V A V D M E S G T V M A A Q G Y R L R V P Y G T L L C
UniRef90_B3E6E4 E T P D R I A K R K E E G C L A V E M E S A G M A V A Q F R G V T L G Q I L Y
UniRef90_UPI00036C57C1 E G E A A A E V K K L T H A D A V E M E S G A A V A H V A M R N E V P V L I I R A
UniRef90_R5GV50 S D D V K K R L I E V F R A I G D C A E M E S A T I A H G A Y L N K I P F L V I R A
UniRef90_E6PN80 E L Q P F K R R F S Q S R A I A L D M E S A T I A A N G F R L R V P Y G T L L C
UniRef90_Q0ASN6 E L R Y A A Q A R R Q S R A I A V D M E S A T I A A N G L R L R V P Y G T L L C
UniRef90_F2NUZ3 D K E K K S A I Q E T C S P A C V E M E S G A A V A H A C H I N E I P F V I I R C
UniRef90_E0QJ36 S K A M K D A T I Y T R Y G A M C T E M E S G A S I A H V C H I N S K P F L V I R S
UniRef90_H4GL66 S Q A Q I A V I K Q K F D V L S S E M E S G A A V G Q V A N D H Q V P Y A V V R A
UniRef90_J3JC96 S H A A S A K I L A N F D A L A S E M E S G A A V G Q V A A Q F K V P F V V I R S
UniRef90_UPI000471062F N V I E K V A S L Y E A N F M Q G A C S E M E S G A A V A Q V C H M H R V P F V V I R S
UniRef90_UPI0000E0E5FC E A A D T Q R I S E F P D I T A V E M E S G A A I A Q A C H M L N T R C L V I R C
UniRef90_F3PT59 D R T E L D A I K Q R F G L A V D M E S A A I A Q T C Y L Y G I P C L S F R I
UniRef90_UPI00046312E9 S Q E V K D A L K A D F G G M C T E M E S G A G I A Q A C F L N N I P F V I I R A
UniRef90_R6YQW3 E T R E K V I E Y R R S E G C S V V E M E S A L A A C A A F R K A I W G M I L Y
UniRef90_D0R4R9 S E A Q K D E I K K N F D A L G V E M E S G A A F A Q V A R H F N T P L V A L I R A
UniRef90_S8FGX6 A G E R L K Q I K R R F P E L A V D M E S G A I A Q V C Y L Y A V P F I S F R T
UniRef90_W9EG74 G A A M K K R I L A F P D A L A A E M E S G A A V G Q V A H Q F K V P Y V V V R A
UniRef90_D8IG97 N N E K V K L I H D K F K A G A I E M E S G A S V A H T A L M Y K V P F V V I R S
UniRef90_N9PS93 E L D R I K Q F H T V Y I G T S V I E M E A S A V A Q I A Q Q F K V P F L G I R V
UniRef90_H5S942 G Q E R Q D E E W R K L H V L N Y E M E A A T V L T L C N A L G L I G G C V T G
UniRef90_UPI00047C5A8F E K D V K D A T I K D L K G M C C E M E S G A G I A Q A C Y L N K I P F V I I R A
UniRef90_B9CYE0 D N A V K E W L K T T F K G A D A A E M E S G A S V A L V C E S L G V P F F V I R A
UniRef90_E0WUN3 G G K P L N D I L T T F D A I A V D M E A A A I G H I C H Q Y G I P F V V V R A
UniRef90_R6LKT0 D R T E L D V I K H R F P G L A V D M E S A A I A Q T C Y L Y G I P F L S F R I
UniRef90_C1CVJ7 S R E G V Q R L W T F F G A A C A E M E S G A A V A Q V C S K A G V P F V V I R S
UniRef90_B0S2Q0 T T E K Q E E L F E K Y H A L G T E M E G C S I A H T C Y L N D V K F L V I R S
UniRef90_N9GFA7 E L D R I K F H I R T Y G T S V I E M E S A S V A Q I A H Q F K V P F L G I R I
UniRef90_R7N3R6 S K A V K E H L I Q E F H G D C T E M E S G A S I A Q G A F L N E I P F V I I R A
UniRef90_G2PI25 E T R A E I E Q Y A A T G V M T A D M E A A A V F A V T A H R R V E A A A L F A
UniRef90_C6LHF3 E T Q D M L A L R N E G C I T V E M E A A A F F A V S Q Y Y H I P L A Q L L Y
UniRef90_M7Y3M6 P Q G R E P D L I E K L G K L N F E M E T A G Y Y A M G R L L G H E L V L S L N A
UniRef90_R6CL56 D R S E L D A I K K N F D G L A V D M E S G A I A Q V C Y L Y K V P F I S F R I
UniRef90_X8K620 E T P A K L K A R K A E G C S V V D M E S A L A A C A K F R D A D Y G Q I I F
UniRef90_UPI000255863F E L R D Q R Q R L S Q S R A V A L D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_UPI000471ED76 S N E K K E W I K T T F N A S A E M E S G A S V G Q V C H A L N V G Y F L M R S

UniRef90_UPI0004169359 I V A N R A Q G Q F 210 S V N P L K T V D R L I Q Q T L E R L 220 230
UniRef90_A8SJU5 I S D N A N E K A D C D F E T F V L E S A K I V K I L L D I I
UniRef90_C8NE51 I S D I P E R G
UniRef90_E3C6G7 G V N D L V N G D D L M A K G E V A S L K L A L D L L
UniRef90_I3DFR8 I S D K A N H E A Q M D Y P E F V K I A A K N S K K M I E G I L L Q
UniRef90_B7VJ21 I S D V A D K E S P M S F E E
UniRef90_UPI00036CD2EE A H A N R A T D A W L E D Y E P A Q L A M L R L A A R S A
UniRef90_F5L3X6 L S D K A D R E A N I N F A E F I K V A A Q R S Y E
UniRef90_U3AAS1 V S D K P L H G E G M A S D F Y K T Q V A R H L M L G I R A
UniRef90_UPI0002628BA5 L S D I A G R E A P A S F N E F L Q T A
UniRef90_UPI00042A6207 L S D I A G R E A K Q S Y D Q F L K K A S E
UniRef90_R6HET0 I S D S P N G K N A I L T F D K F L K I A
UniRef90_M4WS77 V S D K P L H S E I K L P G A A T A F Y Q R A V S Q H L S I G I
UniRef90_E4KP53 I S D N A D H Y A S V S F D D
UniRef90_C4Z1B8 I S D K A D D S A T M D Y
UniRef90_UPI000366C143 V S D K P L H G E G M A N H F Y R Q R V D Q H L R I G M R A V
UniRef90_V8LWN4 M S D T A A H D A N I T F D E
UniRef90_M2BAB3 I S D T A G K D E A
UniRef90_A7H007 I S D E A G G G A E F D F D E F L N S
UniRef90_Z4WZF5 T A D S L A N V H E Y D E R D F K D S H E K A L L L G L E I L
UniRef90_U1H852 V S D K P L H G E G M A S E F Y R Q R V G Q H L Q I G L K A L
UniRef90_C0QYJ4 L S D K A D S D A V V D P K F V V K S A Q N S M K I V V E M L
UniRef90_E9S932 I S D N G D D E S H N D Y A V S L K K A A A E L D I L
UniRef90_G2LMT0 I S D S S D N N E T F N F K K A S F Q F S K F V K I I L E D I L N
UniRef90_E4NZ11 L S D N A D T D E E F K G F I S E Y A D T A A R I V L D I L R R
UniRef90_C8NRK6 V S D L P L H S V P K L P A Q A Q A F Y S N S K E A H V M C A V R
UniRef90_D4LIV7 I S D K A D S N A N M D Y P A F E K L A I E H S V R
UniRef90_V6U045 S A H R K N S D N F L S N E K K H E I E M G L G K A I L D A L V E
UniRef90_UPI000465B2B2 L S D I F D K G D S T I Q F D E Y L N K A A N A
UniRef90_L7WRE8 V S D L A N G E A D M T F E E A A V S S S E M V E L L V K K L
UniRef90_D8QJD1 G A P L A T G
UniRef90_S5SZ97 V S D L P L H A V P K L P A Q A Q A F Y E N S K Q A H M M C A V K
UniRef90_D7GS21 I S D K A D D S A H M D Y G E F E K A V E H S V N L M L A L V K
UniRef90_I0TE45 I S D I P L K D N K A S
UniRef90_A8UBN3 M S D V A D E E A G M S F D E F I
UniRef90_UPI0002F0455B M S D T G N G D A G V S F D E F I
UniRef90_R6ZW34 I S D K A D N S G H M D Y
UniRef90_UPI000248E067 M S D K A D G S A H V N F A E
UniRef90_D1AZU6 I S D A A D M D A G E S F D E
UniRef90_U2TZC5 A T V L E N L K A A L S G K A R T D A E D L L C R V A L E G A Y R
UniRef90_U2EUP1 L S D T A D D E A E S I Y E D F A D R A A E L S A E L L V R
UniRef90_V5F5R3 I S D V A D K E S P M S F E E
UniRef90_D3FX73 M S D K A N G E A Q I S F Q E F T D I A S E Q S H L L V K A M L K
UniRef90_R5FXG5 P A D D L W S K A N L G G E I E H N I Q R E T F K V A L K I A M E
UniRef90_C2B147 T A D T L A D I E N Y D Q R N W R D T F A Y A L E L A M D A V C K
UniRef90_UPI00040A7058 I S D K A D G S E I M D Y P E F E
UniRef90_R7JUG5 I S D K A D D S A T M D Y
UniRef90_W5IIQ2 L S D N A D T E Y D T F K E D I S E Y A N T A A R I V V E V I R E
UniRef90_R5ESJ9 A G N L D H P Q W D P
UniRef90_A4EGR3 V S D K P L H G E L K L P G M A S N F Y K T Q V A A H L M I G I R
UniRef90_X2HFB6 I S D N G D A N A S V S F D Q F Q Q A A G N S A Q M V I N L I
UniRef90_D3QCF4 I S D I A N G N A D I T F E Q F I E Q A
UniRef90_F6CB85 I S D N G D G S A N E D F D
UniRef90_A0A033UZF5 V S D L A D K E S D V T F E E F L K V A
UniRef90_L0B7S6 V S D K P L H G E G M A S D F Y L K Q V S Q H L E I G V R T L
UniRef90_E6LDP9 M S D T A D H Q A T Q S F D E F I D
UniRef90_UPI0003687C61 V S D K P L H S E I K L P G A A G A F Y E R A V A Q H L H I G L
UniRef90_B3E6E4 G G D L T C V I E W D E R L W Q S N T T E K L F W L C A D A V L
UniRef90_UPI00036C57C1 L S D N A D T E Y E T F R E D V R E Y A D N A A R I V L
UniRef90_R5GV50 I S D K A D G S A E M D Y T A F E H E A A K H S A R L V I E D L V Q
UniRef90_E6PN80 V S D K P L H G A E M D R F Y R E R V D Q H L R I G I R A L
UniRef90_Q0ASN6 V S D K P L H G E G A N L F Y Q R S V S E H L A A G I E T I
UniRef90_F2NUZ3 M S D M A D D D G E
UniRef90_E0QJ36 M S D R A D G D A P E S A E N S K L F I Q E M I R
UniRef90_H4GL66 M S D N G D E D A G V S F D E F I
UniRef90_J3JC96 M S D V G D E D A G V I F D D F V
UniRef90_UPI000471062F M S D K A D G S A H T S F A E
UniRef90_UPI0000E0E5FC V S D L A N E E S T H T F E E Y L D K A
UniRef90_F3PT59 I S D T P G V E D H
UniRef90_UPI00046312E9 I S D K A D G S D I M D Y P E F E K A A H D C A A L V L E L L
UniRef90_R6YQW3 T A D S L A D I A Q Y D E R H W G N A Y E Y A L I L C L D A V L
UniRef90_D0R4R9 I S D N G D A N D N D F D K F V K E
UniRef90_S8FGX6 V S D T P E T D F W K T I A D R S F S V T R A F L N A L
UniRef90_W9EG74 M S D V G D E N A N T S F N E F I V K A
UniRef90_D8IG97 L S D K A D S D A E V D P K F V I Q A S D N S A K I V S E M I
UniRef90_N9PS93 L S N I T N N G A Y D P A T G E A C Q D Y A L D V A
UniRef90_H5S942 V I V R R T K S E R I T K K D L K L I G E G N A V K V A A K A
UniRef90_UPI00047C5A8F I S D K A D G S D V M D Y P E F E K
UniRef90_B9CYE0 I S D E A G G S A E F D F D K
UniRef90_E0WUN3 I S D V A C Q E S H L S F E E F L D T A
UniRef90_R6LKT0 V S D T P G V E D H S S Q Y A D F W G T M A E
UniRef90_C1CVJ7 V S D T A D H D A N V D Y R
UniRef90_B0S2Q0 L S
UniRef90_N9GFA7 L S N N I T N N G A Y D P A T G E A C Q D Y V L D V A
UniRef90_R7N3R6 I S D K A D D S A Q I D Y P V F E K A A A L H S A R L V E
UniRef90_G2PI25 V A D S L T R R T P R R D Q A S V R A A A R T G L E T A L
UniRef90_C6LHF3 A G D D V S G E V W D S R N W K N I R Y N L T A T A I E L V
UniRef90_M7Y3M6 I I A N R I S K K F S K D P Y G L V D Q L I R H T L N
UniRef90_R6CL56 I S D T P G T E N H F D
UniRef90_X8K620 T A D S L V N L D S Y D V R G W K D S F V K A L E L C L D L I
UniRef90_UPI000255863F I S D K P L H G E G M A T D F Y R T Q V S R H L M I G I R A
UniRef90_UPI000471ED76 I S D E C E S A E F D F D D F M V E S A K K S A E F M L K M I

UniRef90_W1EJU4
UniRef90_UPI00037357E4
UniRef90_Q8IMQ8
UniRef90_D3PVF7
UniRef90_A8TLS5
UniRef90_UPI00042A09FC
UniRef90_Q11JW2
UniRef90_R9N766
UniRef90_A5TUM2
UniRef90_S2ZDN1
UniRef90_H1X6T7
UniRef90_R6WVN5
UniRef90_A5EVB1
UniRef90_D3UVM0
UniRef90_R6XIP8
UniRef90_R5PTJ6
UniRef90_UPI00040E989D
UniRef90_C9YDH2
UniRef90_E0NUP7
UniRef90_F0F542
UniRef90_I0K989
UniRef90_J0UXW2
UniRef90_UPI000405BA96
UniRef90_UPI0003B4FADC
UniRef90_UPI00036BCB2D
UniRef90_B1C8E5
UniRef90_H0FCS9
UniRef90_UPI00046F26A9
UniRef90_R5ASA9
UniRef90_D2FMD8
UniRef90_B1LU85
UniRef90_C5DAT5
UniRef90_E7QYI7
UniRef90_R6BKQ5
UniRef90_R9LI75
UniRef90_U4TYV3
UniRef90_K8VXP2
UniRef90_C8PRA8
UniRef90_A4H689
UniRef90_UPI00037B4D80
UniRef90_F8EYR1
UniRef90_S7QP14
UniRef90_UPI00035C737F
UniRef90_UPI00046F3B38
UniRef90_UPI00046F7E17
UniRef90_C6LET4
UniRef90_R6TMU2
UniRef90_V9HLB1
UniRef90_J9CBK8
UniRef90_Q2HXR1
UniRef90_X4Z0I3
UniRef90_UPI00046ABFB0
UniRef90_UPI0003676759
UniRef90_I0XBQ5
UniRef90_T0ZLR5
UniRef90_W0I7E4
UniRef90_UPI00032A1B2F
UniRef90_F6DB49
UniRef90_U2KPH6
UniRef90_G1Y150
UniRef90_UPI0004260E4C
UniRef90_J9DDV9
UniRef90_S3WVB6
UniRef90_C5WF23
UniRef90_UPI0003F0D730
UniRef90_UPI00041DAA34
UniRef90_R6MDK7
UniRef90_S9ZLT9
UniRef90_I2EXP6
UniRef90_Q31DQ5
UniRef90_B0TZL4
UniRef90_UPI0003B3BFC6
UniRef90_S9X4E7
UniRef90_C0QJ87
UniRef90_W77UG5
UniRef90_UPI00047C8922
UniRef90_M3Z392
UniRef90_F0NZE8
UniRef90_F5ZBA4
UniRef90_UPI00035F8C66
UniRef90_UPI0003739230
UniRef90_E3BQX3
UniRef90_N8TBQ8
UniRef90_R6QSH6
UniRef90_E0RXU5
UniRef90_E9GTM3
UniRef90_R5CLG6
UniRef90_R7NWU8
UniRef90_E9CPE1
UniRef90_A0A058SR10
UniRef90_V8NLC2
UniRef90_C2SL11

1 10 20 30 40
K I G I I G A M E E E V T L L R D K I E N R Q T I T
I I G A M E P E V A I L K D K M V N R E T I K I S D
L Q E M F G D V K F V C M G G T P K R M E N F A H F I M N E I T Q L Q D
T H Y T G T P A E S F E R H V L F T N Y A M H V E A F Q D R F P D A E G P V R D S
G E V C E T M I F S F N G E I V D R V R Q L P E S R E G G Y L E
L M A R G G E G Y E C F V E P G N I L T M P G E S T S P H M T V S R Q
I G A M E E E V A A L K D A M E I E E T V E
N E V Q
T P V G K
I I N A M A E E K A A L V A A M T D E K Q S T
M E I E E V V E
E F Q P Y V I A A M P E E L A A L R A L M Q E C E P L T L A
L L L T N F A Y Y V D V F A E I Y Q V P V
I I V A M D K E F V Q L K T L L S D T T V E R F H H
A E L F S A M T E T K E E
R V G L P A E A A D A L G K E P P R
I I V A M N K E F V Q L K A L L N N G M T E T
I I V A M D K E F T Q L K A I L S Q T A K E H
I G A M R E E I E P I A L L G A F G E E V K L I E A S L D G A T A Q T
F Q K I E
K F G I T A A M P Q E L K I L L D H L Q E G I E T E
Q I D P A A V G D F V L V R D P L P A E Q F A E H L D D V V L A G K
G E V C D T M I F S F N G E I V N R I K W L R G V Y E G G H
I G A L H E E I A D L L A A M D P G A E T E D
K E N T I A P L G I L A A A D E I R D L I A A L E P G A Q V H R
V I G A M D S E L A T L I A A L S Q P A Q E T V
R I D E K D V P S A M I V H G A W E H E T N L Q Q W K Q I L R E T T W
L P E A V V L C Y S R G L M D Y L T E T H D G Q H V I G N
E E
V L C A M E E E I R T L R A Q L T D A G Q V T I G T
K T E
T F H V A C T S K H L A D R I I F V G D P G R V K T V G A Y L D T S I T Y E A S
N I I Q K K T
Y H L G L R A G E V A N R I I T V G S P S R A G S I A S F L D A E P K P I T S
I V A M D K E F A Q L R S L L E N E K A E T
L I G A M D E E I K L L L E S M E D K V S I V K
I I G A M E V E V A Q L K A T M W Q Q R M V T R A K
V K I
I I S A M D S E H R Q L L A E R L Q Q K S E C V A
T Y H L G V K K G D L A S L I V I T V G C E Q R A R V L A A K F L T D V T E V S S
Q V H R
I I G A M D E E I Q L Y H E R L E R I E E T H
K K E V T
T D
Y H T G L E R S Q I A E F A I L P G D P G R V P E L A K A L D T S A R A I H M
E K E P Y E K Y L I V F T D I A A N Y A K Q L L N D V E L K E E
L P A M F G D V K F V I V G G T P K R M E S L A K Y F M H E M K Q L S D
Q T A P I A V I A A M E E E I L L R E Q L V D R E T I K
I I G A M S V E V E H L Q R L L K K A E P V K K
D M E I S R T F E
I M K I G I I T A M S S E Q K Q V A Q L L A D K K E Y A E
A N Q L E Q I G T M D M V
L Q A M F G E V K F V C T G G S S A R M E V F A K F M L E E L H M H C N
C Q V H Q
A L K G L M D N A V V E T
G T P L E E F R P Y I L L T N F G N Y V E M F A E K F G V E V R
K I A I L G A M E I E I Q P I L L Q K L E K Y E T V E
I I G A M D V E V A T L K K D M T I A R T L S
A M F G D V K F V C V G G S P S R M K A F I K Y L D H P G A D Y P N
T L H L G L K E G Q I A S R I L L T V G C P G R A G L I A K V L D K P I F S H T S
P T A I L S A L P Q E Q H G L M E L L Q H P R K L S
A M F G D V K F V C I G G S P T R M E A F A K Y M D H P G A E Y P N
I L G A I P E E I N Y I I P L I E N K R E E K
L A P I M I Q G P M P I E A E Y F V S L L T D V R V E H
H T
L Q P I I I Q G A L P V E S E Q M A S K L S N S T V E T
I I V A M D K E F A Q L K T L L S D S K T E H R N H
G D V K F V C M G G T P K R M E Q F A N F I M D E I T T L L D
I I G A M D V E V A S L K E K M V I S R T E T
W K K
G D I K F V C V G G S P S R M K Y I A E L L D N P G Y D Y P N
I L V S A W E P E L T Y L H Q H Y P S E R V E K

UniRef90_W1EJU4
UniRef90_UPI00037357E4
UniRef90_Q8IMQ8
UniRef90_D3PVF7
UniRef90_A8TLS5
UniRef90_UPI00042A09FC
UniRef90_Q11JW2
UniRef90_R9N766
UniRef90_A5TUM2
UniRef90_S2ZDN1
UniRef90_H1X6T7
UniRef90_R6WVN5
UniRef90_A5EVB1
UniRef90_D3UVM0
UniRef90_R6XIP8
UniRef90_R5PTJ6
UniRef90_UPI00040E989D
UniRef90_C9YDH2
UniRef90_E0NUP7
UniRef90_F0F542
UniRef90_I0K989
UniRef90_J0UXW2
UniRef90_UPI000405BA96
UniRef90_UPI0003B4FADC
UniRef90_UPI00036BCB2D
UniRef90_B1C8E5
UniRef90_H0FCS9
UniRef90_UPI00046F26A9
UniRef90_R5ASA9
UniRef90_D2FMD8
UniRef90_B1LU85
UniRef90_C5DAT5
UniRef90_E7QYI7
UniRef90_R6BKQ5
UniRef90_R9LI75
UniRef90_U4TYV3
UniRef90_K8VXP2
UniRef90_C8PRA8
UniRef90_A4H689
UniRef90_UPI00037B4D80
UniRef90_F8EYR1
UniRef90_S7QP14
UniRef90_UPI00035C737F
UniRef90_UPI00046F3B38
UniRef90_UPI00046F7E17
UniRef90_C6LET4
UniRef90_R6TMU2
UniRef90_V9HLB1
UniRef90_J9CBK8
UniRef90_Q2HXR1
UniRef90_X4Z0I3
UniRef90_UPI00046ABFBD
UniRef90_UPI0003676759
UniRef90_I0XBQ5
UniRef90_T0ZLR5
UniRef90_W0I7E4
UniRef90_UPI00032A1B2F
UniRef90_F6DB49
UniRef90_U2KPH6
UniRef90_G1Y150
UniRef90_UPI0004260E4C
UniRef90_J9DDV9
UniRef90_S3WVB6
UniRef90_C5WF23
UniRef90_UPI0003F0D730
UniRef90_UPI00041DAA34
UniRef90_R6MDK7
UniRef90_S9ZLT9
UniRef90_I2EXP6
UniRef90_Q31DQ5
UniRef90_B0TZL4
UniRef90_UPI0003B3BFC6
UniRef90_S9X4E7
UniRef90_C0QJ87
UniRef90_W7TUG5
UniRef90_UPI00047C8922
UniRef90_M3Z392
UniRef90_F0NZE8
UniRef90_F5ZBA4
UniRef90_UPI00035F8C66
UniRef90_UPI0003739230
UniRef90_E3BQX3
UniRef90_N8TBQ8
UniRef90_R6QSH6
UniRef90_E0RXU5
UniRef90_E9GTM3
UniRef90_R5CLG6
UniRef90_R7NWU8
UniRef90_E9CPE1
UniRef90_A0A058SR10
UniRef90_V8NLC2
UniRef90_C2SL11

50 60 70 80

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

UniRef90_W1EJU4 P D V I I N T G S A G G G L A S T L K V G D I V V I S D E A R Y H D G Y E Y G Q V L P
UniRef90_UPI00037357E4 P A C V I N T G S A G G G F D P A L H V G D I V I G D A V K H H D G Y E M G Q V L P
UniRef90_Q8IMQ8 D D P V F I R I G T C C G G I G V D Q G R T V I I T E D A L S Y G Q L R D N S H E F T I L L
UniRef90_D3PVF7 P D T M I M I G H C C G G L R N T Q R L G D F V L L A S Y Y H R D D H V L D D D L L S
UniRef90_A8TLS5 P N A W I M L G H C C A G L R N T Q R L G D Y V L L A S A Y H R D D H V L D D D L L S
UniRef90_UPI00042A09FC F E N F I V L G S C C A G V L D E S T Q A A A D K I L P S H A Y L R D E D H V L D D D L L S
UniRef90_Q11JW2 P H A W L M L G H C C A G L R H T Q A L G D Y V L L A S H A Y V R E D H V L D D D L L S
UniRef90_R9N766 V D T L I N T G I A G S L D A R E L D I V G D M V I L S T D A V H H D M D A T I F G D
UniRef90_A5TUM2 V E K L I F T G V A G A V N P E L K V T D L V I L G N A Y Q R K S D M D V G E I P R
UniRef90_S2ZDN1 P E V W V M L G H C A G L D G R M R I G D L I L G N A Y Q R K S D M D V G E I P R
UniRef90_H1X6T7 V D A V I N S G S A G A L G A D L R I G D V V V A S E L A Y S D G Y D Y G Q V L P
UniRef90_R6WVN5 A G V L I N T G V A G G I D A A R I D I G D I V I A S T A A V Q H H D M D A T V F G D
UniRef90_A5EVB1 L T A V I N T G S A G G I D A R V K I G D V V V A N Q V A H H D G Y K K G Q L P
UniRef90_D3UVM0 A T A A I M L G M C G G L R S H Y Q I V G D Y F V P V A S I R K D G T S D A Y F P
UniRef90_R6XIP8 P D L V I N S G I A G S L D V E M N I T D V V V G T E Y V Y H D M D E C G G Q
UniRef90_R5PTJ6 P S L I I S T G I A G S L P E L H I G D V V I A D K V C Q Y D M D T S G C G D
UniRef90_UPI00040E989D P E C W V M I G H C A G L D A R M R I G D L I L G N A Y Q R R D H I L N D R I A
UniRef90_C9YDH2 P H A W I M L G H C A G L R N S Q Q L G D Y V L L A H G Y V R E D H V L D D E E L P
UniRef90_E0NUP7 P E L I V S T G V A G G A D V H L N V T V V V A S T C T Y H D V A Y C G D E C A F
UniRef90_F0F542 P D L I V S S G C A G G A D T T L E V T D V V V A S A C T Y H D V A Y C G D E V A
UniRef90_I0K989 P R Q V I F T G I A G G V R H D L K I P G D I V I A G K E V G S H H D M H P G V S F T
UniRef90_J0UXW2 V E K V L F T G V A G G I S K D L K I G D L I Y A T K L A Y H H D G Y H P H G V F P
UniRef90_UPI000405BA96 V D I I V N T G S A G A V A S E G I A V G D V V V A D Q L A Y H D G Y A Y G Q M A
UniRef90_UPI0003B4FADC A H T F L R V G G S G G M H P S V N P G D L V I A S G V R D E G M T A S Y V L P
UniRef90_UPI00036BCB2D F K N F I V L G S C G V L D K S I Q A D K I L P A T A L R D E G V I S Y H A L
UniRef90_B1C8E5 P D L L I N C G V A G G L K T G I E V G D V V L S T K T V Q S D M D V T Q L G Y
UniRef90_H0FCS9 V S R V I F T G L A G G L H P R V R V G D V V V A D A L M Q H H D M D A R P L F G A
UniRef90_UPI00046F26A9 V G R V I F T G V A G G L H R D V R V G D I V I A S Q A L Q H H D M D A R P L F G A
UniRef90_R5ASA9 P G A V I N T G I A G G L A S G L A V G D I V V A D G L V Q H H D G C V C M G D P
UniRef90_D2FMD8 P D I I N T G S A G A L D E S L A V G D V L L A S D D V K Y H D D G Y E Y G Q I P
UniRef90_B1LU85 P D C W L M V G H C G G L R Q S Q T I L G D Y V L L A H A Y L R R D R I L D E L V P
UniRef90_C5DAT5 T R W F I Q T G Y F G G L S R N V Q F G D I F I V T G A E M A D G V S H W Y L P
UniRef90_E7QYI7 V E T F L S I G F A G C L D D T I E M G D F I V C D K A I R D E G M T S H H Y A E
UniRef90_R6BKQ5 V K A V I N T G I A G S L K A E I N I N I G D L V I S S D L V H H D M D A V I F G Y
UniRef90_R9LI75 V E Q I I V I G V A G A I N P D L Q I G D T V I S S S Q V A Y H D V A D E Q Q Y H P
UniRef90_U4TYV3 P D L I V N T G S A G A L G Q G L A V G D V V I S T G V A Y H D V A Y Q P G Q L I S
UniRef90_K8VXP2 V Q N F I V I G T S G A L S L N L S I A D I I L C N S A L R E E G T S R H Y I S
UniRef90_C8PRA8 A E V I I N T G T A G G L N D S L H V F D L V V S T D A V Q H D G Y A K G Q I A
UniRef90_A4H689 P K K R R R V G T C G T P N E E V Q V G C L A I C N G A I G M D N T S Y H Y D A
UniRef90_UPI00037B4D80 V R R A V S I L G G A G G L H P A Q Q I G D L V V C N G A V R D E G V S Y H Y L P
UniRef90_F8EYR1 P T A L I N T G S A G G I A P A N L H F G D V V I S E G L M Y H D G Y L P G Q I P
UniRef90_S7QP14 D M I V V R L G S C G C L D P H P V I G T I V P A C V A L V S R N Y D Y D F G I G
UniRef90_UPI00035C737F V D C V L F T G V A G A L D P E L E L G D I V I S T S A L Q H H D M D V R P L G F
UniRef90_UPI00046F3B38 P Q L V V S T G V A G G A D V Q M N P L E V V V G T Q Y A Y H D L Y C G T E V A
UniRef90_UPI00046F7E17 A V R V L F T G V A G A V H P E L G I G D I V I S H C I Q H H D M P R G V I P Y
UniRef90_C6LET4 V D V I I N T G I A G S L K S D I N I G D I V I S T D V V H H D M E A C G F G Y
UniRef90_R6TMU2 P D V I I N T G V A G T L T D R L N I G D L V I A G R T V Q H H D M D T S A L G D
UniRef90_V9HLB1 T D C I I N T G S A G G L G T E L H I G D A V I A G T Q V A H H D G Y T H G Q V P
UniRef90_J9CBK8 P D C I I S T G V A G G I D C S L R V A D V V A S S R L B Y H H D V Y C G Y G O I
UniRef90_Q2HXR1 P L A V V R I G S C G I V D Y A T R P G T L M L S D E S M Y C Y R N Y C H F D G
UniRef90_X4Z013 I G Q V I F T G V A G G I H S G V R V G D V V I G A Q A L Q H H D M D A R P L F G
UniRef90_UPI00046ABFBD V T H V I F T G V A G G V D P L N I G D I V I S E D C I Q H H D D V T A L G F
UniRef90_UPI0003676759 V D A I I N T G S A G A V A E G L A I G D V V V A E S L V Y H D G Y A Y G Q M A
UniRef90_I0XBQ5 V A K L I N T G I A G A T G G G L K I F D F V A S T E A V Y H D G Y K P G Q V P
UniRef90_T0ZLR5 V K N F I R V G T G S I Q K N I E F G D I V I S L A A V R L D G A S T H Y A P
UniRef90_W017E4 K E F L V V G E A G A I K E G V T I G D V I L P T W A L R E E G T S Y H Y M P
UniRef90_UPI00032A1B2F N P V F I R L G T C G G L G L K P G S V V V T E T A V D Y K F E P V F E L Q A L
UniRef90_UPI00032A1B2F P Q A V I N T G S A G G G H T D L E V G D I V I S S S V C H H D G Y V H G Q L P
UniRef90_U2KPH6 V T H V I N T G V A G A V R K D L H L F D V V V S T D A V H H D G Y K P C E L P
UniRef90_G1Y150 P H V W L M L G H C A G L R E T Q R L G D Y V L A H G Y V R E D H V L D D A D L P
UniRef90_UPI0004260E4C I T H V L N T G I A G S M D A K I N I G D I V V S T D A C Y H H D V D A R I F G Y
UniRef90_J9DDV9 P D C I I S T G V A G G I D R C L K V M D V V V S Q Q I V Y H D V W C G E N A Y
UniRef90_S3WVB6 V R V A I A V G S C G A L P P F E G E F L I P V R A L R D E G T S Y H Y L P
UniRef90_C5WF23 V D A I I N T G S A G A V A P G L A I G D V V V A D Q L V Y H D G Y A Y G Q M A
UniRef90_UPI0003F0D730 D L I T F F R I G T C G G L G L K P G S V V V T E T A V D Y K F E P V F E L Q A L
UniRef90_UPI00041DAA34 V E A L I F T G V A G A L D P E L E V G D L V V S T S C I E H H D G F E R G E V P
UniRef90_R6MDK7 P D I M I N V G V A G G L S E E F K I G D I A V A D S V V E H D M D T S P I G D
UniRef90_S9ZLT9 P H V W I M L G H C A G L R N T Q R L G D Y V L A H G Y V R E D H V L D D E E L P
UniRef90_I2EXP6 P K A V L F L G K V G G L K K T T K L G D L V L P L A A I R G E G T S R N D Y A R
UniRef90_Q31DQ5 P D Y V I N T G S A G G F H T D L E V G D I V I S S Q S V C H H D G Y A R G Q V P
UniRef90_B0TZL4 V D A L L F T G V A G G L Q D L E V I G D M I A A T A T V Q H H D G Y P Y G K I P
UniRef90_UPI0003B3BFC6 V T H I I N T G V A G S M D A R I N I G D I V I S T D A C Y H H D G Y K K G E V P
UniRef90_S9X4E7 H A R C I R I G T S G G I G L E P G S V V I T R Q A V D A C F K P E F E Q M
UniRef90_C0QJ87 A R T L L V F G W C G S L S T D L A I G D I V L V D G A I A D E G T S R N Y M E
UniRef90_W7TUG5 P L L I T R F T G C A G L C T P D V A V G S V V V A S P G S V S V L M R N P D A F L
UniRef90_UPI00047C8922 V R R M V F T G V A G G M G T G V K V G D V V V A S D F M Q H H D D V S P L F L
UniRef90_M3Z392 N V T I I R I G T S G G I G L K P G S V V I T Q Q A L D A S F K P V F E Q M
UniRef90_F0NZE8 I T Q L I F T G V A G A L H P D V K I N G D I V L A R K L I Q H D M N A S P L M P
UniRef90_F5ZBA4 P R I I I N Q G T S G G H P K L N V G D I V L G E K S I N A S N F A K T P K L E
UniRef90_UPI00035F8C66 P N R V I F T G V A G G L N P D L Q I G D I V I A Q T T A Q H D T K N P I D G K
UniRef90_UPI0003739230 P D V I V N T G V A G G I D P L T R V M D I V I G H D V W C G F G E N E Y G Q V Q
UniRef90_E3BQX3 I D L I F I T G S A G A L Q T N I H Q Y D L V C P D A F R Y H D A G N T M Q I P
UniRef90_N8TBQ8 P I A I I N Q G T S G G H D P N L N V Y D I V L G R Y T T N G E G S N S L E W T
UniRef90_R6QSH6 P D L V I S T G V A G G A D I S L N V T E V V V S T E C V Y H D A Y C G E C A F
UniRef90_E0RXU5 C E K F L L F G G A G C L D K E I A H G K V M I P T A A Y R D E D G Y S H Y A P
UniRef90_E9GTM3 D P V F F R L G T C G G I G L D G G Q L V I T D E A V D G M M R P F L E L P
UniRef90_R5CLG6 V T H I I N T G V A G G I D N A I N I G D I V V S T D A V Y H H D G Y Q K G E V P
UniRef90_R7NLU8 P D C I I S T G V A G G I D S G L K V M D V V A G S Q I Q Y H H D V W C G E N A Y
UniRef90_E9CPE1 P D M V I N T G S A G G L A S T L K V G D L V V S E E V R Y H D S Y E P G Q M A
UniRef90_A0A058SR10 P D V W L M I G H C G G L R E S Q A I G D Y V L A H A Y L R D D H V L D A V L P
UniRef90_V8NLC2 N V T I I R I G T S G G I G L T P G S V V I T K Q A V D A T F K P Q A F E Q K
UniRef90_C2SL11 P D Q L F M T G I C G S L S D K V K N G H I V V A L N T L Q H D G E D S F N L Y

UniRef90_W1EJU4 G C P A G F K A D E K L V A A A E S C I K A L D L N A V R G L I V S G D A F L N
UniRef90_UPI00037357E4 K M P A A F T A H K T L I T A A E S K A A Q S L G L Q I K T G L I A T G D S F M C
UniRef90_Q8IMQ8 G T H R P A K L D K R L L A R E L K S L D A L S P D D P Y T I G K T L C T V N D R F Y N
UniRef90_D3PVF7 P V I P V I P N H R K R L N Q F L L D A L E K R D D A S Y R L G S V C T V D N D R N W
UniRef90_A8TSL5 V W V P I P A L A E V Q Q A L E K A V A D V T G R I M R T G T V A S T D N R N W
UniRef90_UPI00042A09FC A S D E I S Y D P A L L T M E K A L D Q A G I E H V I Q A K T W T T D A F Y R
UniRef90_Q11JW2 V W V P L P A L A E V Q V A L Q E A V A E I T G R I M R T G T V A T I D N R N W
UniRef90_R9N766 P I G Q V P R M D F P A D E A L V Q K A V Q A N I H T F T G R V I A S G D Q F I A
UniRef90_A5TUM2 M K S S Y F K A D P E Y V L F T L A E S V A I K L S D K V H K G R I I S R D F V A
UniRef90_S2ZDN1 A D I P L P A V P E V Q R A L E R A V A D V Y G D E M R T G T V L S T G D R N W
UniRef90_H1X6T7 Q Q P A R F V T D A T L S A L A E A Y G D V T D A R L V R G L I V T S D S F I S
UniRef90_R6WVN5 P L G Q V P Q M D T F Q K A K E V N E K V N P D I H T F T G I V I S G D Q F I A
UniRef90_A5EVB1 D L P L F F P C M D K N L C A L A E K A A A F D S T V H Q G L I V S G D Q F V D
UniRef90_D3UVM0 P E V P A L A N F V V I Q K M I T N I L E A K N L P Y H I G I T H T T N I R F W
UniRef90_R6XIP8 I T G M P A K F Q D A K E L V E K A L A A G G D T P V H G G L I V S G E W F V D
UniRef90_R5PTJ6 P V M V Y F P C Q E K A I A A A V K A V S E M K D L G V R I G T I A T S G D R F I A
UniRef90_UPI00040E989D P I P A V P E V I Q R T L E A A V L E V Y G E N Q D L M R T G T V L S T D D R N W
UniRef90_C9YDH2 L W V P I P A L A E I Q V A L E Q A V A N A L K S I M R T G T V A S T D N R N W
UniRef90_E0NUP7 G Q M M G M P A V Y P S P S S L V E K A L S L G T P V H A G L I V S G D W F V D
UniRef90_F0F542 F G Q T I G M P A Y E K A L S L N D L P D C R E L H I R S G L I V S G E W F V N
UniRef90_I0K989 L N P L Y F P A D P E Q A T Q S L D L A M L P G P K A L V G R I L T G D Q F I A
UniRef90_J0UXW2 E G S V F V E S S S D L N R I A D E V A T D L G V K L K S G I I A S G D Q F I A
UniRef90_UPI000405BA96 G Q E L Y F P A D Q T L L K Q L R S V L E E Q E M A S H V G L I V T G D S F I A
UniRef90_UPI0003B4FADC P S Y P A A A P E L L V L S T M E A A L N K A S G I A H V R T K S W T D A F Y R
UniRef90_UPI00036BCB2D A S D E I S Y D E A L L S T M E K A L N K A S G I A H V R T K S W T D A F Y R
UniRef90_B1C8E5 E V I G C Y F V Q N K A F N E I A E D I K Y D F D F G V Y F G N T L T A D K F V S
UniRef90_H0FCS9 R H E I P F D A D P A L S A L L L E S A R E F P Q V H H G L I A T G D V F V N
UniRef90_UPI00046F26A9 R H E I P P A L S E Q L Q A S A R R F L A G R A S R V I H R G L I L T G D R F V G
UniRef90_R5ASA9 G A P T V F A P D A V L S A L L A R T A G N A A Q R V H R G L V A T G D Q F I S
UniRef90_D2FMD8 Q M P V A F Q S S K P L I E K V S Q V V Q Q Q Q L T A K V G L I V S G D S F I G
UniRef90_B1LU85 P D V P V P A L A E V Q V A L Q D E Q A D A L K R R L R T G T V V T Y D D R N W
UniRef90_C5DAT5 D Q Q M V Q A D I Q L V E A A V Q F C E K K Q Y R Y V T G T V F T T G A I M V
UniRef90_E7QYI7 S E K F A P H A S E S L T D E T I G L L R N D E R F H V G S S W T I D A M Y R
UniRef90_R6BKQ5 P K G F I P Q M D V F S F E A D R A L D R N P E I Q V F H G R V V S T G D Q F I A
UniRef90_R9LI75 W M E S I Y F T A D P S L V H G I S L A N A D D P S V M T G R I V T G E S F I A
UniRef90_U4TYV3 Q M P Q V F A S D E S H Y A A M L A E A A Q A K G Q T I R T G L I V S G D Q F I A
UniRef90_K8VXP2 D G Y I F S P T E K W H N D L K T I N T N I P L I T E G R T W T D A P Y R
UniRef90_C8PRA8 G T P S P F W K A F T Q L K T D C A E D F A H T D S M I A G R I A S G D R F I V
UniRef90_A4H689 P A V N S T A D V Q E C T A L N S K A N A S E Q Q R Y Y V G A T C S A S G F Y G
UniRef90_UPI00037B4D80 P G E R Y V Y P N E E L T A R L L E A V E E R A E H V V V G R T W T D A P Y R
UniRef90_F8EYR1 G Q P Q I F T T D K T L Q M L A E K A I V S L K Q N Y E K G I T S S G D I F M H
UniRef90_S7QP14 N S P E P P Y R I L S K P I A A G F Q Q P D A L S R V L S D V V N A S A D S F Y S
UniRef90_UPI00035C737F A R G V I P F Q E S D F Q A D E Q G A K L F P G R Y R K G K V L S G D Q F I A
UniRef90_UPI00046F3B38 Y G Q L P A R F D A A Q M V N C A L A L D A E T P I H G G L I V S G D W F V D
UniRef90_UPI00046F7E17 Q E V S S F P A D P A L V N L A E E A C R T L K Q K S I T G V V L S G D Q F I A
UniRef90_C6LET4 P E V F S F K A D E K L R A A A K E V C Q R V N P Q V F E G R I V S G D Q F I C
UniRef90_R6TMU2 P V G M Y L P C D A G F S E V L L S A A E K S G A N C I S G T V A S G D R F V C
UniRef90_V9HLB1 Q M A A R F N S H V D L V R A A E L A A P N A G L R V Y R G L V A S G D Q F I H
UniRef90_J9CBK8 Q G M P L Y Y E A H P V L L R H A L S L Q V E D V H I C G G L I C T G D R F V E
UniRef90_Q2HXR1 E L T A P V K A D K R L T D L T E A N L N A Q G A A V K R G L N C S A E T F F A
UniRef90_X4Z013 R Y E V P L H A D G Q L S R R L A E C A E H F G S R V H C G L V A T G D R F V G
UniRef90_UPI00046ABFBD R R G E I P Y A D F V A D A K L I Q I A Q E S G E S I L H T G R I L S G D Q F I A
UniRef90_UPI0003676759 G K L Y Y Q A D Q A L M D S L Q K V L T Q Q G I H S H V G M I A T G D S F I A
UniRef90_I0XBR5 G M E P F F T A D K T M V K A F A N T K F A A E H K I L Q G R I A S G D Q F I S
UniRef90_T0ZLR5 I E Y P A
UniRef90_W017E4 P D Y I P K P S E R L F N V L E K E V K H Q I G R K V F K G G I W T T D A P F R
UniRef90_UPI00032A1B2F I L G N I V A R P T K L D V N L A Q E L K S L D Y Q T V V G K T Y C A D D F Y A
UniRef90_F6DB49 G L P A C F I P D E M L I A K A K L A I E S L G E V T H M G L I A T G D R F V H
UniRef90_U2KPH6 G I K R I E F P A N P F L I E C A R R A W E K G N F L T E G R I A S G D I F V N
UniRef90_G1Y150 T W I P V P L A E V Q V A L E K A V G H V T G L E M R T G T V A T I D N R N W
UniRef90_UPI0004260E4C P M G E I P S L G T R F F E A D K W K A A N P D V N V F E G R V I S G D Q F I G
UniRef90_J9DDV9 G Q I Q G L P A R F E G H P T L F D C A L S L D T P I H G G L I C S G D K F V T
UniRef90_S3WVB6 A S E W V G T D M G V R R A A R V L A S H G L V G R E V N V W T T D A F I R
UniRef90_C5WF23 A Q P L Y F N C D P Q V F N T F K E V L A Q S S T G S R V G L I A T G D S F I A
UniRef90_UPI0003F0D730 G K I I S T P T N L N K D L A Q D C S D Q S D E F D I V V G N T M C T N D F Y E
UniRef90_UPI00041DAA34 M F E Y S S V F S A D E S L A Y D A A S L N E G A V K K G V V L S G D Q F I A
UniRef90_R6MDK7 P V G L I S G I N L V N I P C D K K L A D L M E Q Y V K R G V I A S G D Q F I S
UniRef90_S9ZLT9 L W V P I P A L A E A V Q E T T Q L S G H A L K R V L R T G T V A S T D N R N W
UniRef90_I2EXP6 P E I P A L S F R L Q R A V S M I K K H E L D Y L T G T V Y T T N R R V W
UniRef90_Q31DQ5 G H P E C Y L A D I H L I D I A K R S I D A L Q E V T H M G L I A T G D R F M H
UniRef90_B0TZL4 I S E V I E A T S A R L L E Q A K V I A K E L N L N L H T G V I A T G D Q F V H
UniRef90_UPI0003B3BFC6 Q M G R L E F P A D E W L R N K A K E A I K A D L G I F E G R V I S G D Q F I G
UniRef90_S9X4E7 V L J R K R V R N T D L D E R L V R E L M Q C E F P T V V G N T M C T L D F Y E
UniRef90_C0QJ87 P G E D F P R P D S D L R A R L G N E L S A G G I A F K S G T L W T T D G I Y R
UniRef90_W7TUG5 P L P T P S G T S A D E I D P I A T G G A P H S E H V R R G M N V A S C S F Y S
UniRef90_UPI00047C8922 R Y E V P S Y R K A R F D Q E C L A T H R F P G A R V H Q G L I A S G D R F V S
UniRef90_M3Z392 P V V Q R T R L D E K V A Q E L M Q C A L E L T F P T V L G N T M C T S D F Y E
UniRef90_F0NZE8 R H E I P F E V D T K F T E A E K D E F H L H P T I H F G L T A S G D L F F S
UniRef90_F5ZBA4 A G E G S R P L N P M D L M A S E G E H K S G N V V K G T I A S G N F W N N
UniRef90_UPI00035F8C66 R N P V F F P A D P G E L N P F Q T P Q G Q R H P R I I K G T V V T G D V F V A
UniRef90_UPI0003739230 G L P A R F V S D K K L Y E Q A L S V E H D G N V Y G G L I C S G D R F V T
UniRef90_E3BQX3 Q E P A E Y D L N S M L R D D F I K Y L Q A K K I R Y F S G L A V T G D S F I A
UniRef90_N8TBQ8 E A F D V L P T D E S D P E A Q R A K T N Y S K G R V V E G T I G S A D V W N N
UniRef90_R6QSH6 G Q I L G M P A T A F A T P S E Y V E K A G N I H P K I H A G Q L V S G E W F V D
UniRef90_E0RXU5 A A D Y L T I N S D I V A E C M K A N G L P F V I Q K T W T D S F Y R
UniRef90_E9GTM3 V V I Q R P S K L D T E L A K E L Q S L S T Q D D P F T H V G R T M C T Y D F Y E
UniRef90_R5CLG6 Q M G I V A F P A D P S L R A A A V R A V G H D V A V F E G Q V L S G D Q F I S
UniRef90_R7NWU8 G Q I Q G L P A L F E G N D T L F N C A M S L D T E I H G G L I C S G D K F I T
UniRef90_E9CPE1 G C P A A F V A D G A L I A L A E S G I K Q L N L N A V R G L I C S G D A F I N
UniRef90_A0A058SR10 P D I P I P S I A E V Q R A L Y D A T K A V S G M P L R T G T V T T D D R N W
UniRef90_V8NLC2 S V I R S T Y L D E K L T E D L M E C A K E L D Q F T V I G N T L C T L D F Y E
UniRef90_C2SL11 D G R T A P I E T T K S L V K R M K K L R S Y D P V H F G T F L S G D Q R I R

UniRef90_W1EJU4 G S V G L A K L R H N F P Q I L A V E M E A T A I L A H V C H N F K V P F V V V R A 170 180 190 200
UniRef90_UPI00037357E4 D P E R I E K T R G H F D M L A V E M E S A T I F A A Q S A H M L Q T P F L I I R S
UniRef90_Q8IMQ8 E F K M A Y G L E K L R E N G R V V N I E M E S A T I F A A A L T H H A G I K A A V V C V
UniRef90_D3PVF7 N I R N Q A G V L M R A R A C V G V D M E M E S A T I V A A N G F R Y R I P Y N T T L L C
UniRef90_A8TSL5 E Q H E P D R A L S L S R A I A L D M E S A T V A A N G F R F R V P Y G T L L C
UniRef90_UPI00042A09FC E T A A K V K R R L T A G A M V V D M E S A T I M A W S Q F R R Q A N V Y Q F F Y
UniRef90_Q11JW2 I R E Q R Q R L S Q S R A L A L D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_R9N766 S K D V K A K I V E N S F H P M C V E M E G A G I A Q A A Y L N K V S Y V I I R A
UniRef90_A5TUM2 S S E K V N K L R E I F S A E C V E M E S A A V A H V C E V M N I P F L V I R S
UniRef90_S2ZDN1 E W H T P N T M W E T L R G V A V D M E S C A L A A N G Y R Y R V P Y G T L L S
UniRef90_H1X6T7 G D E Q K Q N T L K H F P E Q S A E M E G A S I A Q V A H Y F D V P F A V V R A
UniRef90_R6VVN5 S K E A K E K I V T N F H A F C A E M E G A A I A Q A A Y L N K V S C V I I R A
UniRef90_A5EVB1 G G D K L T Q L R R H F G V L A C E M E A A I G Q L C Y Q A A V P F V V I R A
UniRef90_D3UVM0 E N K E F R R K L Y E N K A Q T V E M E S C A T L F A A G Y R R N L P L G A L L L
UniRef90_R6XIP8 S K E K M G G I V T N F H A F C A E M E S C S I A Q T C H I Y H V P F L V I R A
UniRef90_R5PTJ6 N A A E K E K I N S V F P A I S C E M E G G A V G A N G Y I L N E V P F F V I R V
UniRef90_UPI00040E989D E W H T H W Q L L R G S T A V A V D M E S S A L A A N G Y R Y R V P Y G T L L S
UniRef90_C9YDH2 E D N Q P Q R R F S R A V A L D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_E0NUP7 S R E K M R S I L A E F P T K A V D M E S S C S I A A N G C H V Y G T P F I S F R I
UniRef90_F0F542 S R E K M Q Q I L D R F D A T A V D M E S C A I A Q V C H I Y R T P F V S F R I
UniRef90_I0K989 S A P R A E A I R A E Y E A D A I E M E G A A V A Q V C Y Q Q G I P C L V I R S
UniRef90_J0UXW2 D S P R K S W I R K E F G A D A V E M E G G S V A V C C D S L G I P F I I R A
UniRef90_UPI000405BA96 G Q D K I A I L K E H F P E L A V E M E G A A I A Q A I N A G K P F L V I R A
UniRef90_UPI0003B4FADC W H L D V A E S W I T R A G A T N G D R E S A A V I T L A R L F R A R G G S L C
UniRef90_UPI00036BCB2D E T A D K V A K R R L A A G A T V N D M E A S A I M A W A Q F R A K K V Y Q F F Y
UniRef90_B1C8E5 N N K D K E Y L I K T F D G Y C T D M E T A S L A Q V C H I N D I S F A G I R G
UniRef90_H0FCS9 D N D L A H S L R E R P D A L C L E M E G A A M A Q V C H E F G V P F A V M R V
UniRef90_UPI00046F26A9 D A G T G H S L R E R P D A L C V E M E G A A V A Q V C H E F G V P F A V V R T
UniRef90_R5ASA9 G T A A K A A I R R A F P A M A A E M E G G A V A Q A A S M S G V P F A V V R A
UniRef90_D2FMD8 S V E Q R Q K L K Q A F N A M A V E M E A T A I A Q T C Y Q F N V P F V V V R A
UniRef90_B1LU85 E L R F S Q R R R Q S R A V A V D M E S G T V A A Q G F R L R V P Y G A L L C
UniRef90_C5DAT5 E T K E M A E A W A Q K G H I G V D M E T A T T L A V A K K F G K K A V A L L N
UniRef90_E7QYI7 E T K R E V I E R Y A D E G L T V E M E S A A I F T V A A H R N E V D A S M F V
UniRef90_R6BKQ5 D K E T K E N I S T F A G Y C T E M E G A A I A Q T A H L N E V P F V V L R A
UniRef90_R9LI75 D Q E G R E E I I E R Y D P L C V D M E T A G V A H V C Y A N T V P F A A I R S
UniRef90_U4TYV3 S Q A Q I D R L K G Q P Q Q A L A V E M E G A A V A Q A A H E F Q T P C V I I R A
UniRef90_K8VXP2 E T K S K V M S L Q Q G V L C V E M E A S A L F A V A E F H K V N I A S V F V
UniRef90_C8PRA8 D P A V K Q D T I S T F K A D C V E M E G A A V A Q T C V M N A V P F V I L R C
UniRef90_A4H689 C Q G R S V G R F R E Q R G V V N I E M E S S A L C Y L S N L L G Y Q A G A V C V
UniRef90_UPI00037B4D80 E T R E E V L H Y R A E R G V L T V E M E A S L A A V A L H R G V A F A T A F A
UniRef90_F8EYR1 E Q Q K I E Q M R K T F P H V A V E M E G A L A H C C T L F H V P F L V L R S
UniRef90_S7QP14 S Q G R Q T S F P D H N Q D L
UniRef90_UPI00035C737F S R E T V K E L H E M G G V C T E M E G A A L A Q V C A M N G I P Y V V I R S
UniRef90_UPI00046F3B38 S K E K M R S I L E H F P E K A V D M E S C S I A H T C H R Y Q T P F V S F R I
UniRef90_UPI00046F7E17 S A A V V A E L R G Q L D G A C A E M E G A A V A Q V C Y M N E I P F V I I R S
UniRef90_C6LET4 D R E T K N R L A D T F D G G C A E M E G A A I G H T A Y L N N I P F V I I R A
UniRef90_R6TMU2 D S G D R K R I S D L F G A S A C E M E G A A I A Q V C Y I N G T P C C V M R A
UniRef90_V9HLB1 S E S D R Q L I R Q H F D V A V E M E A A A I A Q T C V L N K P F V I I R A
UniRef90_J9CBK8 D K N E L A V I K Q H F D G M A V D M E S A A L A Q V C H I Y G V A F I S F R I
UniRef90_Q2HXR1 C Q G R E L P L W N D N G V V S L E M E T H Q I F H L M H Q R Q I P N G I G L V
UniRef90_X4Z013 D A V T G A D L R A S P D A L C V E M E G A A V A Q V C H E F G V P F W A L L R T
UniRef90_UPI00046ABFBD D R E L V Q T L Y S E L K G A C V E M E G A A V A Q V C F L N Q I P F V V I R S
UniRef90_UPI0003676759 G Q D K V A V I K N H F P Q L A V E M E G A A V A Q A A Q A N G K P F L V I R A
UniRef90_I0XBQ5 D S A V K N H I K E V F N P L C V E M E G A A I A H A C T L N K V P F L I L R C
UniRef90_T0ZLR5
UniRef90_W017E4 E T E D K V R E Y S N R G I L G V E M E T S A L M S V A S F R R V D L A V A L A
UniRef90_UPI00032A1B2F D K M K W L N M L R Q K G V V N I E M E S S M F A A L T N Q A G V R A A I I C A
UniRef90_F6DB49 L J E D V A H T R T R K F E M L A C E M E A A V A Q V C H N Q F E M P F V I I R A
UniRef90_U2KPH6 S A Q Q K E A I Q D L C D P A C V E M E G A G V A Q V C Y L S A V P F V I I R C
UniRef90_G1Y150 E L R D Y R E R S Q S R A I A L D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_UPI0004260E4C G D V P K D R E L L E F N A L C T E M E G A G I A Q A A W L N H L P F V V V R A
UniRef90_J9DDV9 D R A E L D A I K G N F P E L A V D M E S G A L A Q V C H L Y H I P F V S F R I
UniRef90_S3WVB6 E T R E L V A D R V G R G C A A V E M E G A A W A W A K F R G V R F G Q L L F
UniRef90_C5WF23 G Q D K I D N I K T F P T V L A V E M E G A A I A Q A A H A T G K P F L V V R A
UniRef90_UPI0003F0D730 D K M N Y L H E L Y N V I G I R N I E M E S L C F A S M M N R A G I K A G V V C V
UniRef90_UPI00041DAA34 D P E K V V J E L R E N F D G T C V E M E G A S V I A H G A M V N Q T P F V I L R S
UniRef90_R6MDK7 K E Q R D R L K R N F D G A I A A E M E G A S I G H V C Y M N G V P F G V L R A
UniRef90_S9ZLT9 E A S N P E R R F S Q S R A I A L D M E S A T I A A N G F R F R V P Y G T L L C
UniRef90_I2EXP6 E H D E F K E Y L R E L R A M A L D M E T A T I F V L G F V N A I P H G A L L L
UniRef90_Q31DQ5 L P E D V A T R E F L D M I A C E M E A A V A Q T C H A F E T P F V I I R S
UniRef90_B0TZL4 S A E R K D F V V K E F D A K A I E M E G A A S V N L I C N E M N I P S F I L R S
UniRef90_UPI0003B3BFC6 G G V S K E P L K E F G A L C T E M E G A A I A Q A S Y L N K V P F V I I R A
UniRef90_S9X4E7 D K Q E Y L Q A A Y A G I R N I E M E A S V F A S M C N A C G L R A V I C V
UniRef90_C0QJ87 E T P K K V E F F R N R G A A G V D M E S A L F A V G R Y R K V R M A A L L V
UniRef90_W7TUG5 S Q G R R D A F F D D R N E D S M E M E S F Q L L A L A R A S R V R A A A S L
UniRef90_UPI00047C8922 G A N E A L A G A G H E V L A V E M E G A A V A Q V C L A R D Y G V P F A A V R T
UniRef90_M3Z392 D K Q K Y L K E A Q A A G V C N I E M E S S V A A I C G A C N I P V A V V C V
UniRef90_F0NZE8 T T K Q K E K L N K R Q N L L C V E M E S A A I A Q I C Y E F S I P F C V M R V
UniRef90_F5ZBA4 E I D R I A W L H K N L G T S V E M E S A S A Q I A H A Y G V P F L G I R I
UniRef90_UPI00035F8C66 S D A K K T V L H N N L G A D A V E M E G A A V A Q I C W Q H N V P C L V I R S
UniRef90_UPI0003739230 D K E E L E I K K R F P E L A V D M E S T S I A Q V C Y L C G V S E L S Y R L
UniRef90_E3BQX3 T F E T K N A L K N F D A L C V E M E G A A F A Q V A S K F G V P L V A L R A
UniRef90_N8TBQ8 E L D R I A F F H K N Y G T S V E M E A A S V A Q I A S Q Y K V P F L G V R I
UniRef90_R6QSH6 S K E K M R S L D H F P Q M A V D M E S C S I A Q T C H I Y Q T P F I S F R I
UniRef90_E0RXU5 E T R N I F E K H K A D G C I S V E M E S C A A V Q A V C D F R G L E L Y P F F T
UniRef90_E9GTM3 E K L E F L H K V H D N N L N M E M E S L A F A A L T H H A G I R A A V I C V
UniRef90_R5CLG6 T R A R K E E I M R D F H G K C T E M E G A A I A Q A S Y A N K I P Y V I I R A
UniRef90_R7NWL8 D R Q E L N S I K A F P A G L A V D M E S G A I A Q I C H I Y K V P F L S F R I
UniRef90_E9CPE1 G A E P L A R I S A T F N V V A V E M E A A I G H V C H L F S T P F V V V R A
UniRef90_A0A058SR10 E L R M Y S A L R F N R A V A I D M E S A T I A A Q G Y R F R V P Y G
UniRef90_V8NLC2 E K M Q Y L K E A H K T G V R N I E M E S S V F A M G N L S G L K G A V V C V
UniRef90_C2SL11 S S E M R Y L L H T V Y G A L A V D Q E V A F A Y V C R V N N K P F L C L K A

1 10 20 30 40

UniRef90_UPI000289BF8B
UniRef90_UPI00047E25AA
UniRef90_B6IRJ1
UniRef90_C7MPF7
UniRef90_Q4P8Q9
UniRef90_UPI0003623C27
UniRef90_P96122
UniRef90_S2LR7
UniRef90_I5B7C2
UniRef90_M5JD27
UniRef90_R5JF27
UniRef90_UPI00036B936D
UniRef90_UPI00029A4F99
UniRef90_W5XFY1
UniRef90_UPI00036D12C1
UniRef90_UPI0004680894
UniRef90_C5KDA2
UniRef90_F9DIT2
UniRef90_A7Z721
UniRef90_E0Q2F9
UniRef90_W0X328
UniRef90_R6UXL9
UniRef90_F9D485
UniRef90_R6E1N0
UniRef90_UPI0003658046
UniRef90_R5LZA1
UniRef90_X4ZV66
UniRef90_UPI00037D3AEC
UniRef90_B1C0L3
UniRef90_E3KVP2
UniRef90_U2AZX0
UniRef90_UPI00046E6710
UniRef90_M7E511
UniRef90_R5XC11
UniRef90_UPI0003B5A795
UniRef90_D3R2N4
UniRef90_W5JTZ8
UniRef90_W3VM35
UniRef90_J9K4G6
UniRef90_W5M5V5
UniRef90_UPI0003B6BA6A
UniRef90_A6LKA1
UniRef90_F6ZQM1
UniRef90_UPI000258E286
UniRef90_N9A371
UniRef90_W5MVW4
UniRef90_L5N644
UniRef90_G4ELV5
UniRef90_J9YTG5
UniRef90_F8DFA4
UniRef90_K2NUN8
UniRef90_B1XX51
UniRef90_A0A016TXU7
UniRef90_UPI00041E978E
UniRef90_Q9CEG1
UniRef90_E6MI03
UniRef90_UPI000359F743
UniRef90_I9BTV2
UniRef90_W4RLL5
UniRef90_D1AYC0
UniRef90_UPI000444883D
UniRef90_B5XM03
UniRef90_M4KKJ4
UniRef90_R9KSB8
UniRef90_UPI000380901B
UniRef90_U2DR91
UniRef90_UPI00046969B0
UniRef90_S4RF50
UniRef90_W3AFC5
UniRef90_H9JM89
UniRef90_F6QXQ0
UniRef90_G3VU46
UniRef90_D0KVB0
UniRef90_R6V0A7
UniRef90_S5ZMJ5
UniRef90_G3X0L5
UniRef90_F2F3J1
UniRef90_B0S373
UniRef90_UPI00029AA6E7
UniRef90_H3H380
UniRef90_W0RPA4
UniRef90_M4RMC7
UniRef90_UPI000465B814
UniRef90_UPI0003750C33
UniRef90_V9KEZ3
UniRef90_R5Z5G7
UniRef90_K0DNS0
UniRef90_A8WM47
UniRef90_D4LY23
UniRef90_E4UA15
UniRef90_UPI000472CA0C
UniRef90_R4K131

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

UniRef90_UPI000289BF8B I G N R T Y Y E G Y L G N Q K V V V V V S R I I G K V A A A V T V S T L L L E Y K
UniRef90_UPI00047E25AA I A M R D F Y L G E I L A G R Q P C V V V V L S R I I G K V A A A T T T A T L I E R F G
UniRef90_B6RJ1 I G G F V F R R G L L A D G R H A C V V V V E C G V I G K V N A A A V V S T L L I E R F F G
UniRef90_C7MPF7 V A G A P Y C Q G G L L A G V P A C V V V V R C G V I G K V N A A A L C T Q V L V D H F F E
UniRef90_Q4P8Q9 Q R N F L T T G T Y Q G V P I S I V A I G M G F S V V D F F V R E C R A V V G
UniRef90_UPI0003623C27 V A H A D V Y R G T L E A G R E I A L V E S G V I G K V N A S I T T A L L I D R Y D
UniRef90_P96122 R A G L T F Y V R S V G A L Q V V V Y V C G V I G K V N A A L C T Q L L I S E F G
UniRef90_S2LR7 H V G S T F H L G R L H G V L D V V I L Q S G V I G K V N A A V G T T L L L D M Y H
UniRef90_I5B7C2 H R G I V T F Y T G T S E P S V R T T V T T A G M G T P S L E I V V N E L V A D F P
UniRef90_M5JD27 K S G M D F Y K G T I E G K N V V V V K C G V I G K V N A A M C T Q T M I D V F N
UniRef90_R5JF27 I A N Q P I Y V A E L A G Q K I G L F N S V V G A P A C V A I L E D L V A M G
UniRef90_UPI00036B936D I G D V S F Y Q G T Y A H K Q V V L T R S G I G K V I Q A G M T T A L L I T E F K
UniRef90_UPI00029A4F99 S F N P K I Y E V Q I D N E F F T L C Q A P L G A P A A V Q L L E W L I T Y G
UniRef90_W5XFY1 L L S K D Y Y S G Q Y A G H A D L V L V E S G V I G K V M S A M T V S V L V E L F K
UniRef90_UPI0004680894 L H H K D F I L G I G N H A L V V M Q Q C G I G K V N S A I G A V E M I D N F H
UniRef90_C5KDA2 R L G K T E R Y S M Y K V G P V V S V S H G M G G P S I H I L L N E L A K L C D
UniRef90_F9DIT2 K E F V I G V E G N K D I V L L Q K C G I G K V N S A V G A V E M I D N Y K
UniRef90_A7Z721 A H C E F T T G S Y E G V E I V L L K S G I G K V N A A I S T T L L L D R F K
UniRef90_E0Q2F9 I A H C E F T T M K K M G S K V A V A I A T I G A P M V V G L L E E L K A R G
UniRef90_W0X328 P S N A K T L T D H I A V L R
UniRef90_R6UXL9 K A M L V F H C G N I D R V E V V L L Y S G V C K V N A A I A A Q L L I D C F A
UniRef90_F9D485 R H A K D F V T G R M G P A E I V M L Q C G I G K V N S A I G A V E L I N A F H
UniRef90_R6E1N0 I H G L Q L V E E G R M G N H E I V L M R C G I G K V N S A I G A V E L I H C H C L
UniRef90_UPI0003658046 I A H L R F D H G R L H G R D V L V L G T G I G K V N A A M V A T H L I D R L G
UniRef90_R5LZA1 I A G I I F Y K G K L C D K D I V L L K S G V I G K V N S A V A T T I A I E I F K
UniRef90_X4ZV66 G G I Y Y S G T F D G R D L V L L Q S G I G K V N A A L T T A L L I E R Y R
UniRef90_UPI00037D3AEC I A G R R Y Y Q G T L D G Q H Y V V V L S R I G K V A A S T A T L I N K F G
UniRef90_B1C0L3 K A M L K F Y E G Q I C D M Q V V A L F S G V C K V N A T I A T Q L L D I F G
UniRef90_E3KVP2 Q R G F T T F T G C Y L G V P V S I V A I G M G Y P M I D F F V R E V R A V V G
UniRef90_U2AZX0 R G H P D V C F T K G G Y G C P A A V D T L E T V R A L G
UniRef90_UPI00046E6710 G G G K L Y A G V L D G Q E V V L L Q S G I G K V N A A M T T L L L E R F H
UniRef90_M7E511 V L G K T Y Y S G R L G Q H D L V L V Q S G V I G K V M S A M S V A V L A D H F G
UniRef90_R5XC11 I A G V D F V C G E I L N G C T V C A A Q C G P G K I N A A L C A Q I M A D R F D
UniRef90_UPI0003B5A795 H A G L R F V T G K K K D K D T V M A I S G V I G K V N A A V C T Q L M I D L F K
UniRef90_D3R2N4 I S E V L L G K L A G Q E V I V A Q S G I G K V Q A A L Q A Y L L S N Y E
UniRef90_W5JTZ8 I S A Y S Y R Y S M Y K V G P V L S V S H G M G V P S V G L L H M Y H A K V K
UniRef90_W3VM35 Q R N F L T T G T F K G V P I S I V A I G M G F S V V D F F V R E C R A V V G
UniRef90_J9K4G6 I S R Y S Y R Y S M Y K V G P V L C I S H G M G M P S V G I L L H E T I K M F H
UniRef90_W5MVV5 C E G T D R Y C M Y K V G P V L S V S H G M G I P S I A I M L H E I K L L H
UniRef90_UPI0003B6BA6A A G Q R T Y Y Q G Q L W G Q S V V V V F S H W G K V A A A S T V T Y L I S C L G
UniRef90_A6LKA1 I L K R P Y V R G L I G V N E V L L V Y G L I G K V E S A M M A Q A L I D R F K
UniRef90_F6ZQM1 I C A G T D R Y A M Y K V G P V L S I S H G M G I P S I S I M L H E L I K L L Y
UniRef90_UPI000258E286 I S Q Y S Y R Y S M Y K V G P V L S I S H G M G I P S V G I L L H M Y H A K V K
UniRef90_N9A371 I G G W K F W K G Y H G P V I I S K T R M G M S N S A A A T A L A I E R Y Q
UniRef90_W5MVV4 C E G T D R Y C M Y K V G P V L S V S H G M G I P S I A I M L H E I K L L H
UniRef90_L5N644 V A G S K Y I E G T L Y D V P V V L L L S G I G K V N A A V S A T T L H E Q Y E
UniRef90_G4ELV5 S L K Q K F Y I T Y L N D N M F V L V F V S G V G K T N A A M T L N L I K T F N
UniRef90_J9YTG5 Y Y S G R Y G E H E L V L V Q S G V G K V M S A M S V A L L V E S F K
UniRef90_F8DFA4 G K V Y Y T G S I G R H E V V L V E S G I G K V M S A M S V A V L A N D F K
UniRef90_K2NUN8 N R E Y R M G C G N W Q G T L I G V C S T G I G G A S T E I A M V E L A A M G
UniRef90_B1XX51 V A G R D F H C A T L H G Q P V V L V L C G I G K V A A T T A V L L A E R F G
UniRef90_A0A016TXU7 L S K S D R F V L Y K T G Q V V V W N H G M G N P S L S I M L V E M F K L M H
UniRef90_UPI00041E978E I A G C V F Y K G T M H G K E I V L L K S N I G K V N A A L A T A V L H E R Y Q
UniRef90_Q9CEG1 R H G L V F H T G S I G R H E V L L V Q S G I G K V M S A L A V G V L V D I F D
UniRef90_E6MI03 S A G V A V T C G I I G G R E V V L A Q S G V I G K V N A A L C A Q A L I S V Y A
UniRef90_UPI000359F743 A Q G S D R Y Y K T I G P V L S V S H G M G I P S L S I F H E Y H A G C Y
UniRef90_I9BTV2 I G M R D Y T G Q I Y G Q D V V V V L A R V G K V A A A T T V T L I R D F S
UniRef90_W4RLL5 G S E F Y Q G E I D S L Q V V L L K S G I G K V N A A M G T A T L I D K F Q
UniRef90_D1AYC0 V N G N T F Y I G L L N N K K V I L V G C G I G M V N A A I V T T L L N E F K
UniRef90_UPI000444883D I C E G T D R Y A M F K V G P V L S V S H G M G I P S I A I M L H E Y H A R C T
UniRef90_B5XM03 I T K V S W Y Q I G Y R G Q K L A V A Q A P L G S P A A T M Y L E M L I D F G
UniRef90_M4KKJ4
UniRef90_R9KSB8
UniRef90_UPI000380901B Y L E N T Y Y S G R L G K H D V V L V Q S G V G K V M A A M S V A V L I N N F E
UniRef90_U2DR91 F L F P T P V Y A V K G E E G V C F L D G G R G A P Q G A D T V E T L F A L G
UniRef90_UPI00046969B0 I Y E V E I N N E K L T L C Q A P L G A P A A V Q L L D W L I S Y G
UniRef90_S4RF50 L C E A T D R Y C M Y K V G P V L S V S H G M G V P S I G I M L H E F H A K S R
UniRef90_W3AFC5 G S T F S F Y I G T V E G Y P V I V T K T G K G M A N T G A A T A L A I E K Y N
UniRef90_H9JM89 I S H F S Y R Y S M Y K V G P V L S I S H G M G I P S V G I L L H M Y H A K V R
UniRef90_F6QXQ0 I C A G T D R Y S M Y K V G P V L S I S H G M G I P S I S I M L H E H H A K C R
UniRef90_G3VU46 I C E G T D R Y A M Y K I G N R P V L S V S H G M G V P S I G I M L H E Y H A R C S
UniRef90_D0KVB0 L K V E D Q I L R Q F G G N R G F I A F I G R G L I D F T E R I R I L A T V S R
UniRef90_R6V0A7 G I D F D K G I L A G K E L L V M K S G V G K G N A G M A T T L L L E N F S
UniRef90_S5ZMJ5 N G N T P I Y K M N L N G E D I G F Y L S I G S A I A G E C F E A N W T T G
UniRef90_G3X0L5 I C A G T D R Y C M Y K T G P V L S I S H G M G I P S I S I M L H E L I K L L H
UniRef90_F2F3J1 I A N S E Y T T G T Y E G K E V L L K S G I G K V N A A M S T T L L L E K F N
UniRef90_B0S373 V N G S R V I Y K S R F E G Q E F V F Y L T M M G S A L A S G D C Y E V N W I T G
UniRef90_UPI00029AA6E7 R F L N S C P I Y K A P E N E I C L L D G R G A P M A V D T I E V L K A V G
UniRef90_H3H380 A R G F S T F K V K G V Q V S I V A T G M G V P N M D F V V R E T R A V V G
UniRef90_W0RPA4 R G N R R Y H R G T L W G H D V V V V F S H W G K V A A M T A T T L V S E L G
UniRef90_M4RMC7 I A G C K I Y E G K I N G A N V A L L Q S G I G K V A A A V G T T L L Q I A K
UniRef90_UPI000465B814 G R E I I S L T T G I G K V N A T M W N S Y I I A K Y K
UniRef90_UPI0003750C33 I G M R D Y H V G H L Y G Q P C V L V L A R M G K V A A A T T V T L V R E F G
UniRef90_V9KEZ3 I C E G T D R Y C M Y K I G P V L S I S H G M G V P S I S I M L H E H H A K C R
UniRef90_R5Z5G7
UniRef90_K0DNS0 H G R R D Y H V G T V H R A P C V V T L A R V G K V A A A T V S A L L H A F D
UniRef90_A8WM47 N L S R S D R V I Y I K T A P V C W I N H G M G T P S L S I M L V E S M H A F G
UniRef90_D4LY23 K A M L K F H A G Q I D S V E V V A L F S G V C K V N A A I A A Q L L I D V F C
UniRef90_E4UA15 W P A F A G E L G W H E V R L L E S G I G K A A A G A V G W A V A R Y A
UniRef90_UPI000472CA0C Y G M R D Y T A G K L N N V D T V C V L S R I G K V A A A M T A S I L V E K F G
UniRef90_R4K131 S F R P K I Y E V K I K D E Y F T L C Q A P L G A P A A T K L L D W L I N Y G

UniRef90_UPI000289BF8B V S K I T F L G V A G G I H S D I V K I G D I V V V A S S N L V Q Y D M D A S P L R P P
UniRef90_UPI00047E25AA V T G V I F A G L A G G I H P S V G I G D I V V V A S S L V Q H D L D A R P L F P P
UniRef90_B6RJ1 C R L L L F S G A G G L D D A L G I G D V V V A G T R L V Q H D M D N L Q V Y Q P
UniRef90_C7MPF7 V T H I I N T G A A G S L D A T L G D I G D V V V A L D C V Q H D M D N L R V P G L P
UniRef90_Q4P8Q9 E M I I V R L G S C G S M Q P D Y G I G T V V V P K A S F G I S R N Y D Y F H H
UniRef90_UPI0003623C27 I K I V V N T G V A G A L S T A L D R I G T D M V V S T N V L H H D V D Y P G Q L P
UniRef90_P96122 A R V L I N T G I A G A L S T E R L C V V F D V L V S V D A V Q H H D V G V T A F G Y
UniRef90_S2LR7 P E A V I N T G S A G G F D D R L E V G D V V I S T E V R H H D G Y E H G Q V P
UniRef90_I5B7C2 R L H I L R V G T S G A L Q A S T K I G T P I I A S Y A I G M D N T G L F Y E A
UniRef90_M5JD27 V D A V I N T G S A G A L G A D L R I G D I V I A D N L A Y G D D G Y A Y G Q V P
UniRef90_R5JF27 V D S I I N T G I A G S L N A D I R I N I G D I V F A C D A V E H D G Y E P G I P
UniRef90_UPI00036B936D M E T L V L F G T C G V L D D D I K E T S I I V P T M A I R H D E G T S F H Y A
UniRef90_UPI00029A4F99 V D A V I N S G S A G G I G A G L Q V G E L V I S S Q T A Y H D D G Y Q I G Q L P
UniRef90_W5XFY1 V E T V L T I G T A G A L N D L P E N E M F L V K R A I R D E G T S F H Y M D
UniRef90_UPI00036D12C1 V D A L I N T G S A G A V A S D L Q I G D I V V A G T E C V Y H D Y D Y G Q M S
UniRef90_UPI0004680894 P D L I I S T G V A G G V D S L N N V T E V V V A G T E C V Y H D A Y C Y G Q L
UniRef90_C5KDA2 R A K W I R M G T S G G C G V P P G T V V V T T Q A M N D E V E P Y W R C V
UniRef90_F9DIT2 P D L I V S S G C A G G A D T T L N V M D V V V A T E C V Y H D S C G S E A A K
UniRef90_A7Z721 P D Y V I N T G S A G G F H H T L N V G D V V I S T D V R H H D D Y E Y G Q V P
UniRef90_E0Q2F9 F K N F I V L G S C G V L D Q S I Q A D K L I L P S S A L R D E G T S Y H Y A P
UniRef90_W0X328 P H V W L M L G H C A G L R N S Q R L G D Y V L A H A Y M R E D H V L D D D L P
UniRef90_R6UXL9 V D C I I N A G T A G G I Q E Q V Q L F D T V I S E R I A Y H D D Y A Y G Q V P
UniRef90_F9D485 P D L V V S T G V A G G A S V E L N P L D V V V A T A C A Y H D A Y C G Q Q V M
UniRef90_R6E1N0 P D L V V S T G V A G G A D V S L R V M D V V V A T E C V Y H D V Y C G G E C A M
UniRef90_UPI0003658046 A R T I L F S G V A G G L P A L A I G D V V I A D R L V Q H H D G H L P F L P
UniRef90_R5LZA1 A K K I I F T G V A G S C N P N Y V I A D I V I S K D L I E H D F D T S A L D G
UniRef90_X4ZV66 P E L I I N T G A A G G I G S L R I G D V I V G S T D A T A F S Q Y E Y G Q V P
UniRef90_UPI00037D3AEC V R S V V F A G L A G G I H P D A L I G D I V I S T S I Y Q H H D L D A S P L F P
UniRef90_B1C0L3 V N I V I N A G V A G G M D P K L K I F D T V I S T S E V C Y H D V A Q D V L T E
UniRef90_E3KVP2 D L I I I R L G S C G T L V P E I P V G R V V V C S S L A I W T N Y D Y F Q L
UniRef90_U2AZX0 V K R I L V V G M C G G F G K E I Q V G D V V V P E S I L C E E G T S H H Y F
UniRef90_UPI00046E6710 C E L I I N T G A A G G L A A D L K V G D V V I A E E L V Y S D F S Y A Y G Q V
UniRef90_M7E511 I Q A V I N T G S A G A V A P E L N I G D V V I A D R L A Y H D G Y D Y G Q M S
UniRef90_R5XC11 A D E I I N T G V G C S L S A P D V A I K N I V V A S D V C Y D I D I T A L G S E
UniRef90_UPI0003B5A795 P E I I L N V G V A G S L T P D L N V T D I V I A S Q L V Q H D G S G E R F F P
UniRef90_D3R2N4 I E G I I N I G S A G G L R A D E E V G D I V V G S T T Y Y D L N L F D S A H P
UniRef90_W5JTZ8 D P C F I R I G T C G G I G I D G G T V V V T E S A Y D G L L R N S Y E L A L L
UniRef90_W3VM35 E M I I V R L G S C G S L Q P E Y G I G T V V V P K A S F G I S R N Y D Y F H H
UniRef90_J9K4G6 A K V F F R I G T S G G I G L E G G T V I I S D E A V D G T P Q P H L E L Q
UniRef90_W5M5V5 H A K C V R I G T S G G I G L E P G T V V V T K Q S V D A K F Q Q F E Q V I
UniRef90_UPI0003B6BA6A V D E V I F T G V A G G M D R R L K V G D I V V A D K L Y Q H D M D V R P I L P
UniRef90_A6LKA1 P K Y F I H C G S A G A I N K E R K I G D I V C G S E Y I E H D I S F R E K N V
UniRef90_F6ZQM1 H S K C L R I G T S G G I G L E P G S V V I T S Q S V D A S F R P Q F E Q I
UniRef90_UPI000258E286 D P I F F R I G T C G G I G L E G G T V V I S E E A V D G M L K P Y L D L P
UniRef90_N9A371 P V A I I N Q G T S G G H D P K L N V Y D I V L G Q Y T N I G A F K T P H R P
UniRef90_W5MVW4 H A K C V R I G T S G G I G L E P G T V V V T K Q S V D A K F Q Q F E Q V K
UniRef90_L5N644 I D A V I N T G S A G G F A K E L E V G D V V V S T S V T H H D D Y A Y G Q V P
UniRef90_G4ELV5 P Q A I I N V G S C G S P N K E S F I K D I Y L I N D F Y H L D G Y E L G Q T P
UniRef90_J9YTG5 V D A I I N T G S A G A V A T A G L N V G D V V V A D T L V Y H D G Y D Y G Q M S
UniRef90_F8DFA4 V E A I I N T G S A G A V A P M A V G D I V L A N K L A Y H D G Y K Y G Q M A
UniRef90_K2NUX8 V D V T I R T G G M G A L A A D L S L G D F L I A D E A V R N S G V A S F Y A G
UniRef90_B1XX51 A R R L I F T G V A G G L A Q V R V G D V V L A E T L L Q H H D M D A S P L F P
UniRef90_A0A016TXU7 H A K F I R L G T S G G V G V E P G T V V V T T N A M N S E L T D K F V I Q W I A
UniRef90_UPI00041E978E P T H V I N T G S A G G F A E E L S V G D L V I S S E V R H H D D Y E Y G Q V P
UniRef90_Q9CEG1 V D A I I N T G S A G A V A Q G L A I G D V V V A D K L A Y H D V D V F G Y A Y
UniRef90_E6MI03 V D C V I N V G V A G A L D R R L T A G Q L V V A K D C V Q Y D G F D L G E V P
UniRef90_UPI000359F743 D V I F F R I G T S G G L G L E A G S V V I T E E A V D G L L R P Y M E V P
UniRef90_I9BTV2 V D T V V M T G L A G G L A R G V A V G D I V V A D R L Q H H D L D G R P F W P
UniRef90_W4RLL5 P D V I I N T G S A G G F H K N L N V G D V V I S T E V R H H D G Y E Y G Q V P
UniRef90_D1AYC0 V K K I Y F S G V A G S T S N K I K I G D I V I S T E L Q E Y L F D T T E F G Y
UniRef90_UPI000444883D D V I T I R I G T S G G I G P G S V V I T Q Q A V D A L Q R P E F E Q M V L G K
UniRef90_B5XM03 V R E M I S T G T C G V L V S I A E N R F L V P V K A L R D E G T S Y H Y V A
UniRef90_M4KKJ4 A R T V I A V G S C G G A L T A L P E E Q L L I P T V A L R D E G T S F H Y L A
UniRef90_R9KSB8 C C G C G V L A D I P A G D V I I P T R A L R D E G A S Y Q Y L P
UniRef90_UPI000380901B V D A L I N T G S A G A L A P D L A V G D V V V A D R L A Y H D G Y A F G Q M S
UniRef90_U2DR91 V K K F I L V G Y C G C F A G E V G L C D A V A P P R L L V E E G T S H H Y H P
UniRef90_UPI00046969B0 V K K V L A F G N A G L E D L P E N A M L I P T R A I R D E G T S F H Y M G
UniRef90_S4RF50 N V R I F R I G T S G G I G L E P G S V V V S R T A V D E Q F R P E F R Q V
UniRef90_W3AFC5 P A A I I N Q G T S G G H D P A L N V F D I V L G E R S V N G E L E P T E W K
UniRef90_H9JM89 D P V F F R I G T C G G I G Y E G G T V V I S D V D G A L R N V L E L T V L G K
UniRef90_F6QXQ0 D V T I I R I G T S G G I G I E P G T V V V T D V A V D S F F R P Q F E Q V
UniRef90_G3VU46 D V V I R I G T C G G I G L E P G S V V L T R R A T D S C F K P Q F E Q L
UniRef90_D0KVB0 I K D I L F I G T A G S L S N E L I G D L N I P K Y A I P F E N V S D F Y A D
UniRef90_R6V0A7 I D C L V N I G T A G G L Q V Q Q N I L D A V I S T Q V V Q H D Y D T S P V D G
UniRef90_S5ZMJ5 A T K F I M F G S C G S L N K E V T A G K Y I I P T E S Y R G E C S Y Y A P
UniRef90_G3X0L5 H A K C C R I G T S G G I G L E P G S V V I T D T A V N S F F K P Q F E Q I
UniRef90_F2F3J1 P K V V I N T G S A G G F D A A L K V G D L V I S D E V R H H D G Y E I G Q M A
UniRef90_B0S373 A N K F I M F G S C G S L D K E K T F G K Y I I P T E A Y R G E G A S Y Y A A
UniRef90_UPI00029AA6E7 V E T I I S I G L M G S I A E G I D V G D I V I P S K A Y V E E G T S H Y Y K
UniRef90_H3H380 P M S I I R F G T C G S V L K D V T P G S V V V S G K G S V M V T R N P D A F F
UniRef90_W0RPA4 A E L L L F T G V A G G V D P T L R V G D V V I S T E R L V Q H H D L D A R P L F A
UniRef90_M4RMC7 P E M V I N T G S A G G L D S H L N V G D I V I S E V R H H D G Y E K G Q L P
UniRef90_UPI000465B814 I T H I I N S G T A G G L Q E S P N I K D I V I S S Q T A F H D G H K I G Q V P
UniRef90_UPI0003750C33 V D E I V F T G L A G G I G A R T R V G D V V V A D R T L Q H H D L D A R P F F A
UniRef90_V9KEZ3 D V I I I R M G T S G G I G L E P G T V V V T G T A V D S F F Q Q F E Q I
UniRef90_R5Z5G7 Y A
UniRef90_K0DNS0 V E A V V F T G V A G G V G E Q V R V G D I V V A N A L L M Q H D L D A S P L F P
UniRef90_A8WM47 V K N P T F I R L G T S G G V G V P P G T V V V S T G A M N D T Y V Q V I A G K
UniRef90_D4LY23 V D I I I N S G T A G S M E P E L E I F D T V I S T E V C Y H D V A P D I L T E
UniRef90_E4UA15 P S R A V W L G V A G S L N P E L S T G D V L I A D D A V Q W D M R E P G E L D
UniRef90_UPI000472CA0C V T H I V F T G V A G S G N D V G V R V G D I V V A D S L V Q H H D M D A S P L F S
UniRef90_R4K131 V K R V L A I G N A G A L V D L P E N T M L L P S R A I R G E G T S F Y Y L K

UniRef90_UPI000289BF8B K Y E I P F N T D Q D W S H E I V S K I L N S L A P K V H F G T I A S G D Q F F V S N
UniRef90_UPI00047E25AA R Y E V P F A P D A A L S Q L L Q E H A G P R R P Q A H R G A I A T G D D I F V S N
UniRef90_B6RJ1 G V T H G Y T L D L P A V D E A T V R A A L D G L E P R I T F R G T I A T G D D I F V S N
UniRef90_C7MPF7 S A I F P V D G E L S D A V A A A R A A V P E I L S I Q R G R I A T G D R F I C
UniRef90_Q4P8Q9 D T N A Q E R S S G A M E P Y L I T K P L D A D S E V H A G N T A S A D S F Y G
UniRef90_UPI0003623C27 Q K M R K F Y I A D K G L N K A L Q A V K K N T E I T G H S G L T V S G D D A F V G S
UniRef90_P96122 G K G R I P R M D G F D L C T R D P E W T E G A C S R L V E G R V A S G D D F V S
UniRef90_S2LR7 R M P A A Y Q P D P R L V N I A R E C I E S M G E R V L E G L I A T G D V F M A
UniRef90_I5B7C2 P Y P D Q I C E R E L E Q D D A L L E G S A S L G V P A K L G L T V S T S G F Y A
UniRef90_M5JD27 Q Q P A T F V P D E A L A S A M D E F A K K A T G K L Y R G L I A T S D S F I A
UniRef90_R5JF27 D T E M S V F K S D E A H L L D I A K N A C G L T V G V F T G R V V T S G D Q F I S
UniRef90_UPI00036B936D P V S D E L L L N Q G T Q E H L L A F L E K N Q I S Y A T G K V W T T D G F I R
UniRef90_UPI00029A4F99 Q Q P A R F V A D P I L Q K S L Q Q A A E Q A G L Q A K I G L I V S G D D Q F V A
UniRef90_W5XFY1 P G Q F V D L D R D F L K Q V E K A L S E L N L D Y D E V T T W T T D G F F R
UniRef90_UPI00036D12C1 M Q P L Y F E A D R H F V D Q F A E L V L R K E K R K S K L G L T A T G D S F I A
UniRef90_UPI0004680894 G M P A T F P A P S Q L I E Q A L A I N G P D V P R I H S G Q I V S G E W F V D
UniRef90_C5KDA2 Q L G K V V K I P T D C V D M K F V D A I P D N I N A V K G K T M A N D F Y D
UniRef90_F9DIT2 G Q I M G M P A R Y T S P T E L V E K A L S L N C I T V R A G L T V S G D Y F V T
UniRef90_A7Z721 G L P A A Y K A D E K L I S I T E E A V S E L G I G V A K G T I A T G D S F M N
UniRef90_E0Q2F9 A S D E I A Y D E T L L L T M E A L N K S G I E H I R T K A W T T D A F Y R
UniRef90_W0X328 V W I P L P A L A E V Q V A L Q D A V A E V T G Y I M R T G T V A T I D N R N W T
UniRef90_R6UXL9 P W M D Y F Y A D E N L L Q S A K A Y S N T T K R V I L F G T M V S G E G V V T
UniRef90_F9D485 G L P A R Y T A P E L V E R A L E D A D G R P G R V C S G L T V S G D W F V D
UniRef90_R6E1N0 G Q V M G L P A T Y K P P S E L V A K A L R L N P P T V R A G Q I V T G D W F V D
UniRef90_UPI0003658046 T E R F G Y L R P D T R S E L V E A L S G L P P K I V F G T V V T G D Q Y V N
UniRef90_R5LZA1 D E L T V L V K G Y D K N A K S S A E K V I K N N K V Y I D T I A T G D Q F I G
UniRef90_X4ZV66 R M P S R Y P A Q E E F L A L A R K L A A G K D G R V F T G L I T A D S F I A
UniRef90_UPI00037D3AEC K C L D Y L D N D F D K P E Q K Q R F F Q R Q K P Q F H V G L I G S G D L F V N
UniRef90_B1C0L3 F H P W L K T I F F E A D R E L I K I S E R A K G K V F W G R I V T G E S F I T
UniRef90_E3KVP2 S M S R P I G C D Q E T H D A L Y E N L E K T V D Q G L V S S G A S A D T F Y A
UniRef90_U2AZX0 E T V E F V R P E T F D F N Q V R E Y F Q G K F H T V N S S T V T T D S F Y R
UniRef90_UPI00046E6710 P Q M P Q R Y P A A A G L L A Q A R K L V R R G E Q I V T G L I T T A D S F I S
UniRef90_M7E511 M H P L Y F K S D S H A F L E V F K E V F N K E H R P S K V G L I T T S D S F I A
UniRef90_R5XC11 P R G Y I I P T N H A I S E K S Q I A I A S G E R I H R G T V A S G D T F I A
UniRef90_UPI0003B5A795 A N Q Y V V D K S I D L L N S E K E K K G E K Q I H S M F G T I A S G D L F V S
UniRef90_D3R2N4 R E P Y T F T T D A S W L K C M V K V L S D L N L P Y R Q G E L V T G D Q F I S
UniRef90_W5JTZ8 G K I E H R P A L L D R R L A H H L K S P D D P Y E A I T G K T M C T Y D F Y A
UniRef90_W3VM35 D
UniRef90_J9K4G6 I L G K T V K R S S V L D Q K K L Q W E L K S L P Y P T V I G K T V C T S D F Y E
UniRef90_W5MVV5 G K T V I R P T D L D E Q D L L Q C S K E I D E F N T V I G N T M C T L D F Y E
UniRef90_UPI0003B6BA6A R H E L P A A Q D F V N Q D L N I D E F N L R H P D V I T A D I A S G D Q F I S
UniRef90_A6LKA1 R I F K A S D V L M E R F Y D I F N D I K F G V I A S G D V F V D
UniRef90_F6ZQM1 I L G K T V V R N T E L D S E L A R E F F Q C K F N T V I G N T M C T L D F Y E
UniRef90_UPI000258E286 V L G K I V R R P A K L D R Q L A H D L K A L A H R T V I G K T M C T Y D F Y N
UniRef90_N9A371 G G S D A L T W N E A M A A Q R V K S T Y S K G K V E G T I G S A D V W N
UniRef90_W5MVW4 T V I R P T D L D E E L A Q E L L Q C S K E I D F N T V I G N T M C T L D F Y E
UniRef90_L5N644 G M P A M F D A D E Q L M E K A M E A I A K T D A R A A K G I I A T G D S F M Q
UniRef90_G4ELV5 K E L P Y F S S N K L N D K I K I L K S N E Y K F K N G K C G T T D S F I N
UniRef90_J9YTG5 M Q P L Y F H S S D K T F V S T F E A V L S K E E M S K V G L I A T G D S F I A
UniRef90_F8DFA4 Q P L Y F E S S R Y F V S E M K K V L E E E A A T T H V G L I T T G D S F I A
UniRef90_K2NUN8 P G E R V R A A S S V V D A L E A R K A L G L P G R T G K P A T A D G Y R
UniRef90_B1XX51 R Y E V P F D T D P D H H G P D A Q A L G V T A P V L H R G L V I S G D F V A
UniRef90_A0A016TXU7 G I E R E T W L D E D L R K D L I A T A A E K N I P V E T G S T L C A D D F Y D
UniRef90_UPI00041E978E G M P A Y Y Q P D E E L V A L A E Q A T R K L D I H S V R G L T A T G D S F M Q
UniRef90_Q9CEG1 G Q M A Q Q P L Y F E S S K Y F V S E L K K V L E N V H E V G L I T S S D S F I S
UniRef90_E6MI03 G M R Q A Y T A A P N L V A L A E A V A H K L N V T T R I G R V L T G D R V V A
UniRef90_UPI000359F743 T L G M I L Q H P S K L D Q E V A M E L M S L G Y S T V I G K T M C T T D F Y E
UniRef90_I9BTV2 Q Y Q V P P F C D P T L R K R E A M A R L K N P T L H T G M I A S G D R F I G
UniRef90_W4RLL5 R M P A Y F A P D E K L V T V A L R S A E K I G I Q I V K G L I A S G D S F M N
UniRef90_D1AYC0 E M G I T P R M E T S I F V K P R D A M N K L K G E K I H F G K L V S G D K F V S
UniRef90_UPI000444883D R V V R S T D L D E Q L V E V E L L Q C S K D L N F P T I V G N T M C T L D F Y E
UniRef90_B5XM03 P S R Y I D I D P K M L R L I E K T L L A Q G L A Y Q E V I T W S T D G F Y R
UniRef90_M4KKJ4 A A D W V E L D P K V I Q V L G T T L T K A C L P W Q M V K T W T T D A F F R
UniRef90_R9KSB8 P G R Y V E L H Q Q P I Q L F K D V L E E C K I S Y M E C T T W S T D C F Y R
UniRef90_UPI000380901B G Q P L Y F E S D R Q M V Q T F E K V L D Q H Q I K S K I G L I T T S D S F M A
UniRef90_U2DR91 R I R W A A P S P E L H R Q A V A F L S P R L R V W E Q P T V T T D A V I R
UniRef90_UPI00046969B0 P G R Y I D L K S E Y L S E V E K A V N E F G L E Y D E I T T W T T D G F F R
UniRef90_S4RF50 V L G E V V I T R D S E H E L L Q C A E D F A D E F P T T V G D T M C T N D F Y A
UniRef90_W3AFC5 P M D R Y E G D K E L L A A A N A K D T H T K G K V V E G T I G S A D F W N
UniRef90_H9JM89 I V I Q R P A K L D R R L V R E L K A L A D P E D P Y T V T G K T M C T Y D F Y T
UniRef90_F6QXQ0 V L D K V V R N T D L H R E L A E D L L Q C S F P T I I G H T M C T Y D F Y E
UniRef90_G3VU46 V L G K R I V R N T E L S D D L N Q E L M M N E F N T V I G N T M C T L D F Y E
UniRef90_D0KVBO P T I A I P Q A D E K L L N E V Y A E E T G V K T H S T L H A T L D F Y S
UniRef90_R6V0A7 G I G L Y F E A D Q D L G D M C E Q A L N K L G V V H R G L V A S G D Q F V A
UniRef90_S5ZMJ5 P A D Y I K I K N S D K V A A I F E E L N V P Y V R G K V W T T D S M I R
UniRef90_G3X0L5 I L D T V V T R S T E L D K E L A E E L L N C S E E I R E G H T M C T Y D F Y E
UniRef90_F2F3J1 G M P A A Y K S D E N L M E V A K Q A V K E V G H N Y S V G L I C S G D V F M S
UniRef90_B0S373 P S D Y L D I K N H D K L E E F F I K E K A P Y T K G K V W T T D V M L R
UniRef90_UPI00029AA6E7 R I E Y S T P D L E L L N I S E K S S N S I R P I I T D S I Y R
UniRef90_H3H380 P
UniRef90_W0RPA4 R H E I P L E A D P T L R A A V H D A A A T F A P R V V E G L V A S G D R F F A
UniRef90_M4RMC7 A N P V A F I A D R E L I D L A A S E T E K A G L N A V L G L I C S G D Q F I N
UniRef90_UPI000465B814 G F P Q K F K S D E T L L K S V V N I I K D K N I N V H I G L I L T G D Q F I N
UniRef90_UPI0003750C33 R H E V P L L D R A E F P A D P A L T A E L R A P A L H V G M L A S G D Q F I G
UniRef90_V9KEZ3 I L G K V I T H S T E L D K D L A L L L N C G F P Q T I I G N T M C T H D F Y E
UniRef90_R5Z5G7 P I E Y P A V A D L D T T N A L V A A S R K L G Y T Y H T G V V Q C K D A F Y G
UniRef90_K0DNS0 R F E V P E R F D A E E G A A S A A R F G T R E P Q V H C G L I S G D Q F V A
UniRef90_A8WM47 R I E R P T Q L D A T L R E A L C A V G K E K N I P V E T G K T M C A D D F Y E
UniRef90_D4LY23 F H P W M N S V F V A D P K L I D M S K S T S G K V V W G R M V T G E S F I T
UniRef90_E4UA15 S G E R F I P A D P A L A G A L H A S A Q R L G Y H H V R G R V A S G D K F V A
UniRef90_UPI000472CA0C R F E I P I A S D R E L T R R L S S A A R D F S P Q F H R G L I A S G D Q F I N
UniRef90_R4K131 P S Q F I K I N R N Y L T Q V E K A L N L G F K Y D E I T T W T T D G F F R

UniRef90_UPI000289BF8B T Q N Q K D T L H H N S P E V L C V E M E G A A A Q V C Y E F N T P F L V I R T
UniRef90_UPI00047E25AA D A G A G A D L H H N R P D V L C V E M E G A A A Q V C Y E F N T P F L V I R T
UniRef90_B6RJ1 C E S D T R Q R L H H R F F G A A A C V E M E G A A A Q V C Y E F N T P F L V I R T
UniRef90_Q7MPF7 S E D D D K H Y L H A H A F G A C C C V E M E G A A A Q V C Y E F N T P F L V I R T
UniRef90_Q4P8Q9 S Q G R I D P A F R R F G V A T L E M E T F V L N H L V H K G K I R T G A V Q M S
UniRef90_UPI0003623C27 S A P Q T R G M I T E K F R Q L A G V D M E G A A A Q T C Y Q H S T A F V I I R S
UniRef90_P96122 D A Q K T A R A R L I R E F F G A H G V E M E G A A F A H V A S V N G S T P F V I I R C
UniRef90_S2LR7 D P D A V A A R R R F P T M L A A E M E T A A A I A Q T C H L Y G C P F V V I R A
UniRef90_I5B7C2 P Q G E Y D P M L G G Q R P E M S A E M E G A S F L I H F L G A L G Y W A G S I C T
UniRef90_M5JD27 P E Q K D V L L G H F P L E M S A E M E G A A I A Q V A T T Y N K P F A V V I R A
UniRef90_R5JF27 S K E K K E W L V N Q F G G L C A E M E G A S I G H V A C L N R V P F L V C R A
UniRef90_UPI00036B936D E T V G K L N R C K E L G A I C V D M E G A S A V A A W A D F R E V S V C H F F Y
UniRef90_UPI00029A4F99 G E A Q T A V I K Q N F D A L S C E M E G A A V A Q V A Y Q F K K P F V I V R A
UniRef90_W5XFY1 E T P K K V A Q F K Q L G A A T V E M E G A A L A A C A Q F R D V D F A Q I L F
UniRef90_UPI00036D12C1 G S D K I A E I K G H F P E L A V E M E G A A I A Q A A Y A T G K P F I V V R A
UniRef90_UPI0004680894 S R E K M Q T I L D R F P E H M A V D M E S C S I A Q A C F I Y Q T P F I V S F R I
UniRef90_C5KDA2 D K M A F M K R L Y D A G V R N I E M E S V J A M M G F C N R A N I T G A C V C V I
UniRef90_F9DIT2 T K D K M L S I R N D F A P E T A V D M E S C S I A Q V C Y I Y N V P F V S F R V
UniRef90_A7Z721 D P K R V E D V I R A K F A D L A V E M E A A A I A Q V C H Q F K T P F V V I R A
UniRef90_E0Q2F9 E T A D K V K R R L A A G A T V V D M E A S A I A M A W A Q F R Q A K V Y Q F F Y
UniRef90_W0X328 E L R D Q R K R L S Q A R A I A L D M E S A T I A A N G F R F R V L P Y G T L R C
UniRef90_R6JXL9 E E N R E Q I L T L G F T P L C T D M E T A A V A H V C Y V N K L P F L A I R T
UniRef90_F9D485 S R E K M Q T I L D R F P E M A V D M E S C S I A Q T C H L Y H T P F I S F R I
UniRef90_R6E1N0 S R E K M S A I L A Q V G Q M A V D M E S C S I A Q A C D L R G V D C V V I R A
UniRef90_UPI0003658046 C E A T R Q R L F E T Y G G R A T E M E G A A L A Q V C D L H G V D C V V I R A
UniRef90_R5LZA1 D G A K V K Y I R D K F K A G A I E M E G A S V G H V A L M F K I P F V V I R S
UniRef90_X4ZV66 S K E A A D F I R G R G P E L A T D M E G A A I A Q T A Y R F G V P F L A V V R A
UniRef90_UPI00037D3AEC A L E A K Q N Q I A E Q M D T L C V E M E G A A V A Q V C Y E Y D I P F A I F R I
UniRef90_B1C0L3 S E G R K E L N D E F T P L A T D M E T A S I A H V C Y V N K I P F L S I C C
UniRef90_E3KVP2 G Q G R L E D S N F M D H N H V T L E M E T T H L E H L A A L N Q S H T K K G Q I R V
UniRef90_U2AZX0 Q T F A K E A Y W R E K G C V G V D M E A S A L L S V S R Y S M T A A A V L L
UniRef90_UPI00046E6710 D P E R A M S I V S R F P E K A T D M E G A A I A Q T A Y Q S G V P F L A V R A
UniRef90_M7E511 G Q D K I D C I K A H F E T A I C V E M E G A A I A Q A A H A A G L P F L V I R A
UniRef90_R5XC11 S P E L K A E I A S G F A I C V E M E G G A I G Q V A A A N K I P F A V I R S
UniRef90_UPI0003B5A795 E D S V K K K I V A E F Q A V A C E M E G A A V A Q V C V A N E L R F G V V R A
UniRef90_D3R2N4 T D E Q L K T L L S R C P E I A V E M E G C A I A Q V A A A W K P S L I I R S
UniRef90_W5JTZ8 D K M Q Y L Q R L R D F G I V N I E M E C T I F A A L T H Y A G I R A A I V C V
UniRef90_W3VM35
UniRef90_J9K4G6
UniRef90_UPI00036B6A6A E R M E Y L N E K L K F N G V R N I E M E S L A F A A L T H H A G L I K A A V V C V
UniRef90_UPI0003B6BA6A D K L N Y L N E A Y S A G V R N I E M E S S V F A S M C K L S G L R G A V V C V
UniRef90_A6LKA1 S N E A V Q D L R E R L P S V A C E M E S G A A V A Q V C S E F G I P F S V V R T
UniRef90_F6ZQM1 S E E E K E R L Y R E D T N A E V V D M D S A A I A K V C A E N D I K A V C A L K T
UniRef90_UPI000258E286 E K M Q Y F L K A A Y D A G V R N I E M E S S V F A A M C N I S G L K A A V V C V
UniRef90_N9A371 D K L E Y L N K L H E A G V V N I E M E S L S F A A L T H H A G I K S A V V C V
UniRef90_W5M5V4 E L D R I K F F N T R Y G T S V E E M E S A S V A I L A S Q F N V P F I G I R V
UniRef90_L5N644 E T G N Y L N E A Y S A G V R N I E M E S S V F A S M C K L S G L R G A V V C V
UniRef90_G4ELV5 D P V R V D F V R G K F D M I A A E M E A A A I A Q V C H K Y G T P F V V I R A
UniRef90_J9YT5 K N F E K F N N K L F H P M M N C L D M E S A S I A Q L C F K T K I M F S S I K L
UniRef90_F8DFA4 G Q E K I D V I K G H F P M L A V E M E G A A I A Q A A Q T G K P F V V V R A
UniRef90_K2NUN8 S E E K V A A I R E H F P E L A V E M E G A A V A Q A A H A A G R P F M V I R A
UniRef90_B1XX51 A Q G R P D D A L A A K G A D G V E M E A E V V L A A G A A L G L K A G A V L A
UniRef90_A0A016TXU7 T A A Q S L A L Q G A P E A L A V E M E G A A L A Q V C H D L G L P C A V L R T
UniRef90_UPI00041E978E D K F D F L R K I H D K G V R N I E M E S A C F A S L T Y R A G V K G L S
UniRef90_Q9CEG1 D K T R V D F V R T K F P Q L A A E M E G A A A I A Q V C V Q Y E T P F V I I R S
UniRef90_E6MI03 S S S K I A E I K E H F D V L A V E M E G A S I A Q A A T A L G K P F V I I R A
UniRef90_UPI000359F743 S A A L K Q A L A D H F G L C A E M E G A A V G Q V A A V N Q V P F A V I R G
UniRef90_I9BTV2 D K M A F L K R V Y A R G L C N I E M E S L C F A A Y C Y R A G I R G A V V C T
UniRef90_W4RLL5 D S G A V S Q L Q A S P A A L C V E M E G A A V T Q V C H E Y G V P C A I M R T
UniRef90_D1AYC0 D P E R V E F I R A K L P D L A A E M E A A A I A Q V A H Q F E V P F V I I R S
UniRef90_UPI000444883D N A D E K I K L G E N F K A L C N I D M E S A S V A H C S Y L L G V D F L I I R S
UniRef90_B5XM03 D K Q D Y L Q A A Y A G I R N I E M E S S V F A A M C S A C G L R A A V V C V
UniRef90_M4KKJ4 E T K E K V A Y R Q E E G C S V V E M E C S A L A A V A Q L R G H P L G V T L I
UniRef90_R9KSB8 E T V S K V K A A R Q Q G C C Q V V E M E C C S A L A A C S A F R Q V S F G Q L L Y
UniRef90_UPI000380901B E T K D M A V A H R R K Q G C L A V E M E C S T M A A V A A Q F R G K I D F A Q I L F
UniRef90_U2DR91 S Q A K T D F V K E H F D V Q A V E M E G A A V A Q A A R A A K R P F I V V R A
UniRef90_UPI00046969B0 Q T V R K E A L W R Q Q G C V G V D M E A S A V L S V S Q Y L G A E A V A L L L
UniRef90_S4RF50 E T P K K V A Q F R Q L G A T V E M E C A G M A A C A Q F R K I D F A Q I L F
UniRef90_W3AFC5 Q K L E Y L K R A Y S A G V R N I E M E S S I F A A M C K L C G I R A A V V C V
UniRef90_H9JM89 E V D R I N W I H E K Y G T S V E E M E T A S A A Q I S A A Y D I P F L G I R I
UniRef90_F6QXQ0 D K M E Y L E S I H K A G V N I E M E S L S F A A L T H H A G I K A A V V C V
UniRef90_G3VU46 E K F E Y L Q A R A F T A G V R N I E M E S T V F A A M C Q L C G L K A A V V C V
UniRef90_D0KVB0 D K Q E Y L Q A A Y N A G I R N I E M E S S I F A A M C G A S G L K A A V V C V
UniRef90_R6V0A7 E T T E F L N Y L N J G V S T I D M E V S A F Y K M S R F Y G K R A V A V L R
UniRef90_S5ZMJ5 R E A Q L Q R L N E F P D A V C A E M E A G A I A Q V C A H Y H I P F V V L R S
UniRef90_G3X0L5 E T V G L V N K R K S E G C I A V E M E L A G V Q A V C D F N Q L E L Y N F L E
UniRef90_F2F3J1 Q Q G D Y L Q R A Y K A G I R N I E M E S T V F A A M C G L C D L K A A V V C V
UniRef90_B0S373 N P E R V E A V R K D F P T M A V E M E A A A V A Q V C H Q F N T P F V V I R A
UniRef90_UPI00029AA6E7 E T R G L V S K R K A E G C I A V E M E L A G V Q A A C D F Y G F E L Y N F L E
UniRef90_H3H380 Q T Y Y K E K L W R D K G C V G I D M E T S A L M S V G K Y L N M N V C S A L M
UniRef90_W0RPA4
UniRef90_M4RMC7 S D A A R A E L R R D P E I T C V E M E G A A A V A Q V C V E H G V P F A V V R T
UniRef90_UPI000465B814 G A E S I A Q I R R H F Q V A A V E M E G A A A I A Q V C H A F D L P F V V V R A
UniRef90_UPI0003750C33 D E Q Q L A K I K N D F D V A A V E M E G A A A I A Q V A H T F N I P F L V T R A
UniRef90_V9KEZ3 S P A A A A E L R E R P S V L A V E M E G A A V A Q V C H E Y G V R H A V M R T
UniRef90_R5Z5G7 E K Q E Y L K N A Y E A G V R N I E M E S A V F A A M C H E Y G D L K A A V V C V
UniRef90_K0DNS0 Q H T N K W E A W K R M G C K A S E M E S A A L F I V A A H L G V R C G T D L L
UniRef90_A8WM47 S S A G V E A L R E A P D A L A V E M E G A A I A Q V C H E Y G V P C A V V R T
UniRef90_D4LY23 D K Y A F L R K L N S L G V R N I E M E S T C F A S F T C R A G F P S A I V C V
UniRef90_E4UA15 D E S R Q K I N D E F A P L T V D M E T A S I A H V C Y A N D I P F I A I R C
UniRef90_UPI000472CA0C D P E T A R W I R A T F A A D A V E M E G A A A L W A A R K L G V P M A L V R
UniRef90_R4K131 K R S Q I A A L K D A F E L A V E M E G A A V A Q V C F E L G I P F S V I R T
E T S K K V A Q F R Q L G A S T V E M E C A A L A A C S Q F R K V D F A Q L L F

UniRef90_UPI000289BF8B I S D N A N Q E A S F S F Q 210 220 230
UniRef90_UPI00047E25AA I S D H A D P G A K
UniRef90_B6IRJ1 L S D I A G A E S H M D F Y T F V A A A A R C A
UniRef90_C7MPF7 I S D K A D G S D A E A Y
UniRef90_Q4P8Q9 I F A N R S T S A F I S P E E C E T L E H W A G K S V L A A L
UniRef90_UPI0003623C27 I S D K A D D T A D M S Y N E
UniRef90_P96122 I S D G A G A E Q D V S M S Y K E F S T R A A R R S A L
UniRef90_S2LIR7 L S D I A G K T S N L S F Q R F I E Q A V E A M I Q
UniRef90_I5B7C2 T I N N R R T N T F D H H Y Q E A V K N S T R V A L L A L
UniRef90_M5JD27 I S D N A N G E A G P T F D E
UniRef90_R5JF27 I S D K A D D T A D M D P T F A A M A I D N S I K M M T E I I
UniRef90_UPI00036B936D A A D H L S E E D W D P
UniRef90_UPI00029A4F99 M S D T A D D Q A S Q S F D D F I
UniRef90_W5XFY1 T A D T L A D M E N Y D E R D W S E S H S A G L E I G S K V L T Q
UniRef90_UPI00036D12C1 M S D T A A H D A N I T F D Q
UniRef90_UPI0004680894 I S D V P L K D H Q
UniRef90_C5KDA2 T I V D R L K G D Q I T A T K R E L A
UniRef90_F9DIT2 I S D I P L K D
UniRef90_A7Z721 L S D I A G K E S D V S F D K F L E Q A
UniRef90_E0Q2F9 T A D H H N H E W D A R H E E R K T D A M T F F E I A L V I A R E
UniRef90_W0X328 V S D K P L H G E G M A S A F Y R T Q V S Q H L K I G I L A L
UniRef90_R6UXL9 I T D T A E H K
UniRef90_F9D485 I S D V P L K D H K
UniRef90_R6E1N0 I S D I P L Q D H K
UniRef90_UPI0003658046 L S D L A G H S S K M D F N A F V D A V S Q S S A R I V E R V L
UniRef90_R5LZA1 L S D K A D S N A I V D P K F V V E A S E N S T K I V I E M L
UniRef90_X4ZV66 I S D L A G T A E E L F A S N L E L A A A N S A G F A L D
UniRef90_UPI00037D3AEC I S D R A D S N A I M D F N E
UniRef90_B1C0L3 I T D T A E H N G I E N F E E K A S V I A K D I T V A L
UniRef90_E3KVP2 A A A H R I S G D F I E P K E V E K L E F Q A G K G C L E T L I N
UniRef90_U2AZX0 C S D H P L S E T E S G W K W G T E D F N R I R E A Y V R A A I
UniRef90_UPI00046E6710 I S D I A G S G A A L F K S H L E L A A A N S A E V V L E I L
UniRef90_M7E511 M S D T A A H D A N V T F D E
UniRef90_R5XC11 V S D
UniRef90_UPI0003B5A795 I S D S A N E S S K M D Y G E
UniRef90_D3R2N4 L S D I T V R E G N E T D
UniRef90_W5JTZ8 T L L D R L K G D Q V M A
UniRef90_W3VM35
UniRef90_J9K4G6 T L L D R L K G D Q I T S
UniRef90_W5MVV5 T L L N R L E G D Q L T S
UniRef90_UPI0003B6BA6A I S D S A D H S A H V D
UniRef90_A6LKA1 V V D S S M E G S E I
UniRef90_F6ZQM1 T L L N R L E G D Q I S S
UniRef90_UPI000258E286 T L L D R L K G D Q V L A
UniRef90_N9A371 V S N N I T N N G K Y D G G T G E A C Q E Y V L H V A
UniRef90_W5MVV4 T L L N R L E G D Q L T S
UniRef90_L5N644 L S D I A G K E S S I S F D E F L P K A A E N A A Q
UniRef90_G4ELV5 V S D N L F N S D S N N D V Q F N E N L N D
UniRef90_J9YTG5 M S D T A A H D A N I T F D E
UniRef90_F8DFA4 M S D T A D H A A N I S F D E
UniRef90_K2NUN8 V H A H R R S D G W L A E D Y E K T Q R D L L F I G A R A A
UniRef90_B1XX51 I S D R A D D S A H V D F L R F I D V V
UniRef90_A0A016TXU7
UniRef90_UPI00041E978E L S D I A G K E S N V S F D Q Y L E K A A K H A
UniRef90_Q9CEG1 M S D T A D H D A N V N F D K F I
UniRef90_E6MI03 I S D
UniRef90_UPI000359F743 T L L D R L K G D Q I T S
UniRef90_I9BTV2 V S D R A D D T A H L D
UniRef90_W4RLL5 L S D I A G K D S N I S F D Q F L E T A
UniRef90_D1AYC0 I S D T L S D E S T M E F E K F V N L A A E
UniRef90_UPI000444883D T L L D R L K G D Q I S S
UniRef90_B5XM03 Y S
UniRef90_M4KKJ4 T A D T L A Q L E H Y D P R H W G A G V L V A I E L A T E S L
UniRef90_R9KSB8 S G D I L V I G T Q D Y D D R N W K S A R E R L F Q I T V K A L L R
UniRef90_UPI000380901B M S D T A A H D A N I T F D E
UniRef90_U2DR91 V S D K H P T A E D P T P R R R V E A R D R F F Q A A I D F A
UniRef90_UPI00046969B0 T A D T L A N M E N Y D E R D W
UniRef90_S4RF50 T L L N R L E G D Q I S S
UniRef90_W3AFC5 L S N N K T N D G A Y N P D T A A A N Q D Y V F Q V V K E
UniRef90_H9JM89 T V L D R L K G D Q V L A D E W Q Q R P T K L V
UniRef90_F6QXQ0 T L L N R L E G D Q I A E S H D T L I E
UniRef90_G3VU46 T L L N R L I E D Q I S S
UniRef90_D0KVB0 I S D M P L K Q E L I K A R R E I A V N A V F R I T L
UniRef90_R6V0A7 L S D V A H S K D
UniRef90_S5ZMJ5 A G D V L G E C S Y E I E E L R N A N H N L A L Y I A F K M L A K
UniRef90_G3X0L5 T L L N R L E C D Q I S S
UniRef90_F2F3J1 L S D I A G Q E S S M S F D E F P V A A K H S T E I V L N A I T K
UniRef90_B0S373 A G D V L D E
UniRef90_UPI00029AA6E7 V S D Q K S W G W K L T E S K R Q E F L E N M L D I V L
UniRef90_H3H380
UniRef90_W0RPA4 I S D A A G D H A A V D
UniRef90_M4RMC7 I S D V A D K E S H L S F D E F L P L A A E
UniRef90_UPI000465B814 I S D F P S N K N N H M D F N K F L Q N A
UniRef90_UPI0003750C33 L S D R A D D T A H V D
UniRef90_V9KEZ3 T L L N R L D G D Q I T
UniRef90_R5Z5G7 V M G N Q E R N A R G M D N P I V H D T E A A I S I A V E A L
UniRef90_K0DNS0 I S D T A D D H
UniRef90_A8WM47 T L L N R M D G D Q I D K E K Y I E Y E E R P F R L V
UniRef90_D4LY23 V T D T E K H S G V D N F D K N C A K A S S I A K D I T V
UniRef90_E4UA15
UniRef90_UPI000472CA0C I S D N A N E D A A V D F M H F V Q T V
UniRef90_R4K131 T G D S L A K M E N Y D R R N W R K S Y S M G L E I G A K V L T I N

UniRef90_R7FLT9
UniRef90_D6WB45
UniRef90_UPI0002626853
UniRef90_UPI00047DCF6B
UniRef90_Q49Y40
UniRef90_A2SLT8
UniRef90_UPI0003F18B44
UniRef90_I1ZNR4
UniRef90_UPI0004411BC9
UniRef90_UPI00037D985F
UniRef90_UPI0004572C17
UniRef90_A0A031GPC3
UniRef90_S2Y331
UniRef90_G2NI25
UniRef90_R7BSD5
UniRef90_F6ALN6
UniRef90_A1STE7
UniRef90_C2MBB7
UniRef90_F0TE48
UniRef90_Q5FK64
UniRef90_A6AL1
UniRef90_B5DW01
UniRef90_E0VS64
UniRef90_M3CHZ2
UniRef90_R7UD79
UniRef90_K2DPT3
UniRef90_R2ST60
UniRef90_R8W8S8
UniRef90_R7K7K9
UniRef90_K2CGW9
UniRef90_UPI00035DCCB1
UniRef90_G4TVV7
UniRef90_V5GYM2
UniRef90_I3J4R9
UniRef90_G4KWS1
UniRef90_I7KGF5
UniRef90_H5XR74
UniRef90_E9CCX5
UniRef90_S9T0C0
UniRef90_UPI000360240D
UniRef90_UPI0003B66B97
UniRef90_K3X2L3
UniRef90_G4Q4A3
UniRef90_UPI00039580C5
UniRef90_R6X138
UniRef90_T0QWC1
UniRef90_C5CIA5
UniRef90_UPI00046F1032
UniRef90_UPI00047319AB
UniRef90_Q3AN92
UniRef90_R4WHI1
UniRef90_X4ZH69
UniRef90_W0J1R1
UniRef90_E7QXN5
UniRef90_L7RCK7
UniRef90_K2GSA7
UniRef90_Q6F192
UniRef90_Q7U9T4
UniRef90_UPI00036D8F95
UniRef90_K6TVR6
UniRef90_A3PE90
UniRef90_UPI00034FEF7E
UniRef90_R6VSF4
UniRef90_U1QYV3
UniRef90_C4FCB6
UniRef90_U5V2J6
UniRef90_UPI00047B50DD
UniRef90_UPI000344E2F3
UniRef90_M7B8S7
UniRef90_U46WT2
UniRef90_A2EM76
UniRef90_B5FFJ4
UniRef90_I1K708
UniRef90_K4RMS9
UniRef90_UPI00037C7187
UniRef90_W5SEZ1
UniRef90_C2BH39
UniRef90_G1WHB2
UniRef90_Q122W5
UniRef90_J2KS48
UniRef90_U7DAT1
UniRef90_E8TW81
UniRef90_UPI000255D6D3
UniRef90_F4GI17
UniRef90_Q6ARG8
UniRef90_A4S3Z1
UniRef90_T1KRC6
UniRef90_UPI00029A147B
UniRef90_UPI0004781AB9
UniRef90_B1MZK6
UniRef90_B7A6N4
UniRef90_L0R9C4

1 10 20 30 40
E A V L L A I P M E S E F K A L K M A L N E R L E P K T
G D V K F V C M G G T A K R M E H L A Q Y L Q S E I N Y E C D
I I G A M D E E I A L L L A A K D N M T E K E E T A
I I G A M E E E V A L L K D K I V N L E I I N V A H
L P A M F G D V K F V C V G G S P N R M K A F A L F Y E E S G E E I K D
Y H L G T R A G E V A N R I L L T V G H H S R A L K A A E L F D D A V F K V E S
M Q A C Q S H V
A M F G D I K F V C V G G S R W R M K A F S Q H M A E M L D D I P N
H S
K
I I T A M A E E T L P I F K K L G N V V A Q N T
I I G A M D E E V S I L K A K L N N M E T T I
A V K L V E R T L V E E K P F A S
Y A F V P E D E V N S F L E Q H S H K V L G K F K T I
L Q K D S N P K A I I E P N Y E N H P F R F H P T L L F A F V P K E D
E T T
G D V R F V C M G G T A E R M E R F A Y K I M N P A T T L R N
G D V K F V C L G G T P K R M E Q F A G H K L P C G T T L Q D
G P I V V Q G A M P V E A E R F A Q R L E N P R E E Q
G D V K F V C V G G S P R R M G H F A N F I M K E L H Y L T N
K I A I I T A M E K E C D P I Y K H L G S V I G S E S
H F M S N V H K K K
Y H L G I K P G E L A N R I I T V G D P A R A R T I G R Y L D R Q A T A K A S
T T H L K E M F G D L K F I C M G G T P T R M Q Q F A H F A L P T G A D L Y D
G D V K F V C V G G S P W R M K A F T E Y M E D P Q S E Y P N
I I T P M A E E K L S L I A A L D N T K T K Q
V I L T A L D L E Y E A V L R R M A N P R V H R H A T
Y H L G A M F G D V K F V C M G G S N N R M L E F A K R V L P V I G A A T A D
I I T A M E E E M A P F R S Q S Q I I A R I Q V G K
P P K V I L A F T R P D C Q L I K K A L G L E
F H I G L S F G D V K F F V T G G S S E R M T Q F A Q S V A E V L D I A T P
L P A M F G D I K F V C V G G S P N R M R A F A Q F M Q R E L E D V A D
G D I K F F I C G G S A E R M K T F A L K L A E T L G I K A S
V G I I G A M E E E V T I L K N Q L Q A A R H K V
F H I G A M P E E L G E I I N N L K N V N E E S
L I A Q M Q A A G D V R T V T
H G G A L P E M P K A V I L G F E D E L F E A V D E R A T E S V N Y
D V A F I C F C P M P S L F E K F K I D V E F K N R L F L H
K L I I G A M H E E L Q D S I A F Y K L N K V E N E K
P T V V V L T A L S L E F Q A V H E Q L T D V R V V E H
V I G S N E R G I M P F I G E I A N T E V S E
L P A M F G D V K F V C V G G S P N R M K A F A L F M H K E L E D I K D
P I V V L T A L N L E Y Q A V R E H L T E I E V H R H
L R T P R L H Q H
G D V K F V C V G G S P S R M K Y I A E E L G L G S V D Y P N
E V D S L V A A M R H E D A R A I H
P Y H F G C T G A E I S N D F L I T T D Y Y L A E Q I A K L F E K E P F C F R S
P I V L Q G A M D V E V N Y M V E Q L Q N K Q E V T
I S N I V I V V A M Q T E A L P I V N R F Q D P H S P F P R
P T I A I I G A L E K E V R Q I Y T S I E H G T V C E
P I A I L S A L L E E Q H G L M E L L Q Q P H K V T
E I L L H Q P H K V T H
V L L T G H T S F A W L Q E Q L E K K Q A T R
K M K E T P S L L I L C A M P Q E L K G I C R M V K N V K K
Y H L G L T K G D V R F I C T G G A A H R M Y T Y A L M M K E E L R I D G D
I V V F A A M P E E A A P F V E V L A D A R E V P T P
I I T P M A E E K I S L L A A L S D T K T K Q

UniRef90_R7FLT9
UniRef90_D6WB45
UniRef90_UPI000262853
UniRef90_UPI00047DCF6B
UniRef90_Q49Y40
UniRef90_A2SLT8
UniRef90_UPI0003F18B44
UniRef90_I1ZNR4
UniRef90_UPI0004411BC9
UniRef90_UPI00037D985F
UniRef90_UPI0004572C17
UniRef90_A0A031GPC3
UniRef90_S2Y331
UniRef90_G2NI25
UniRef90_R7BSD5
UniRef90_F6ALN6
UniRef90_A1STE7
UniRef90_C2MBB7
UniRef90_F0TE48
UniRef90_Q5FK64
UniRef90_A6AL1
UniRef90_B5DW01
UniRef90_E0VS64
UniRef90_M3CHZ2
UniRef90_R7UD79
UniRef90_K2DPT3
UniRef90_R2ST60
UniRef90_R8W8S8
UniRef90_R7K7K9
UniRef90_K2CGW9
UniRef90_UPI00035DCCB1
UniRef90_G4TVV7
UniRef90_V5GYM2
UniRef90_I3J4R9
UniRef90_G4KWS1
UniRef90_I7KGF5
UniRef90_H5XR74
UniRef90_E9CCX5
UniRef90_S9T0C0
UniRef90_UPI000360240D
UniRef90_UPI0003B66B97
UniRef90_K3X2L3
UniRef90_G4Q4A3
UniRef90_UPI00039580C5
UniRef90_R6X138
UniRef90_T0QWC1
UniRef90_C5CIA5
UniRef90_UPI00046F1032
UniRef90_UPI00047319AB
UniRef90_Q3AN92
UniRef90_R4WH11
UniRef90_X4ZH69
UniRef90_W0J1R1
UniRef90_E7QXN5
UniRef90_L7RCK7
UniRef90_K2GSA7
UniRef90_Q6F192
UniRef90_Q7U9T4
UniRef90_UPI00036D8F95
UniRef90_K6TVR6
UniRef90_A3PE90
UniRef90_UPI00034FEF7E
UniRef90_R6V5F4
UniRef90_U1QYV3
UniRef90_C4FCB6
UniRef90_U5W2J6
UniRef90_UPI00047B50DD
UniRef90_UPI000344E2F3
UniRef90_M7B8S7
UniRef90_Q46WT2
UniRef90_A2EM76
UniRef90_B5FFJ4
UniRef90_I1K708
UniRef90_K4RMS9
UniRef90_UPI00037C7187
UniRef90_W5SEZ1
UniRef90_C2BH39
UniRef90_G1WHB2
UniRef90_Q122W5
UniRef90_J2KS48
UniRef90_U7DAT1
UniRef90_E8TW81
UniRef90_UPI000255D6D3
UniRef90_F4G117
UniRef90_Q6ARG8
UniRef90_A4S3Z1
UniRef90_T1KRC6
UniRef90_UPI00029A147B
UniRef90_UPI0004781AB9
UniRef90_B1MZK6
UniRef90_B7A6N4
UniRef90_L0R9C4

50 60 70 80

ING[S]GYTF[50]S[K]K[K]G[L]V[F]A[Y]E[S]V[G]R[V]N[T]A[L]D[L]G[L]A[A]S[L]D[80]
L[T]E[K]S[H]R[F]A[M]Y[K]V[G]P[L]L[C]V[N]H[G]M[G]V[P]S[L]G[L]L[H]M[Y]H[A]K[V]D[K]
A[A]N[C]L[F]R[F]L[K]G[K]L[F]G[H]D[A]V[L]M[K]C[G]G[L]G[K]V[N]A[A]M[A]T[A]L[L]H[E]R[F]N
I[A]G[C]R[F]R[L]G[R]L[G]T[R]D[L]V[L]A[E]A[G]I[G]K[V]N[A]A[M]V[A]T[L]L[L]H[E]R[F]N
V[L]G[V]F[Y]K[G]R[L]H[D]K[E]V[L]A[T]Q[S]G[L]G[K]V[N]V[A]S[T]T[L]L[L]N[R]F[H]
H[A]G[R]A[F]H[R]G[R]L[D]G[H]E[V]V[L]V[R]S[G]L[G]K[V]A[A]A[T]T[A]L[L]L[A]D[R]Y[G]
I[C]A[E]T[D]R[Y]C[M]Y[K]I[G]P[V]L[S]I[S]H[G]M[G]V[P]S[L]S[L]M[L]H[E]Y[H]A[R]C[C]
D[R]G[F]L[L]L[T]G[T]Y[E]G[V]P[I]S[L]I[S]I[G]M[G]G[F]P[M]V[D]F[M]V[R]E[L]R[E]C[V]G
I[G]P[C]T[F]Y[Q]G[Q]L[N]G[Q]D[V]V[L]L[Q]S[S]G[V]G[K]T[A]A[A]M[A]A[T]L[L]I[D]Q[Y]R
I[C]E[G]T[D]R[Y]N[M]Y[K]V[G]P[V]L[A]V[S]H[G]M[G]I[P]S[L]S[L]M[L]H[E]L[L]I[K]L[L]Y
H[G]M[R]D[Y]T[L]G[T]L[W]N[L]D[A]V[L]C[V]L[S]R[L]G[K]V[A]A[A]M[A]T[A]S[L]L[V]E[K]Y[G]
I[A]H[T]V[F]Y[K]G[L]L[N]D[K]E[L]L[L]T[Q]S[G]I[G]K[V]N[V]A[L]S[T]A[L]L[L]I[N]E[F]K
I[S]G[V]A[L]S[Q]L[E]Y[D]G[D]T[I]Y[L]A[T]S[G]V[G]E[I]K[A]A[A]L[A]V[Q]L[L]V[D]L[D]Q[Y]R
H[A]G[R]M[F]W[R]G[R]L[H]G[H]D[V]V[C]A[L]S[G]I[G]K[V]A[A]A[T]T[A]L[L]E[R]F[G]
I[A]G[C]E[F]Y[Q]G[E]L[N]G[K]Q[V]I[L]T[K]S[G]I[G]K[V]A[A]A[V]A[T]T[L]L[L]E[R]F[N]
Y[R]Y[T]L[R]I[E]G[H]Q[T]E[W]T[F]H[L]L[E]T[G]I[G]K[V]H[A]A[L]A[T]Q[L]A[I]V[R]Y[G]
S[F]R[P]Q[V]Y[E]V[E]L[N]N[K]E[L]L[L]C[Q]A[P]L[G]A[P]A[A]V[K]L[L]D[W]L[I]A[Y]G
I[D]N[F]D[L]Y[E]I[E]R[R]G[K]Y[F]T[L]C[Q]A[P]L[G]A[P]A[A]T[Q]L[L]D[W]L[I]S[Y]G
V[G]S[W]T[F]W[G]G[E]L[D]G[Y]P[V]V[V]S[R]T[E]V[G]L[A]N[A]A[A]S[T]T[L]A[I]E[H]F[K]
M[A]E[H]T[F]R[Y]A[L]Y[K]V[G]P[V]L[C]V[S]H[G]M[G]C[P]S[L]S[L]L[L]H[E]L[L]K[M]L[H]
I[S]R[F]S[Y]R[S]M[Y]K[V]G[P]V[L]S[L]S[H]G[M]G[I]P[S]V[G]L[L]L[H]E[L]M[Y]H[A]K
I[G]G[W]R[F]W[H]G[T]V[D]G[Y]P[V]V[V]S[E]T[L]K[G]M[S]N[A]A[A]A[T]A[L]A[T]Q[F]H
I[A]K[A]T[D]R[Y]A[L]Y[K]I[G]P[V]L[A]A[S]H[G]M[G]I[P]S[V]S[L]M[L]H[E]F[H]A[G]K
M[I]D[G]K[P]I[T]V[F]H[P]G[V]G[A]P[L]A[A]G[F]L[E]E[L]A[A]V[G]
Q[N]G[Y]A[L]Y[L]V[E]T[G]I[G]K[A]N[A]A[A]S[A]S[L]L[C]E[T]I[K]
Y[Q]T[K]N[C]Y[L]A[L]R[C]G[A]G[E]I[Y]A[A]A[T]Q[Y]L[L]D[K]Y[K]
A[G]G[M]T[I]Y[R]F[A]V[G]D[N]D[V]F[L]L[S]C[G]I[G]E[L]Q[A]S[A]A[T]Q[L]V[I]D[K]Y[D]
I[K]G[M]T[Y]F[H]N[L]G[R]E[F]I[V]A[L]V[T]G[I]G[K]Q[T]N[S]A[F]S[T]S[S]V[H]Q[F]D
W[E]F[H]F[G]N[L]S[G]V[E]L[S]V[I]T[G]V[G]K[V]Q[C]T[S]C[V]Q[L]L[L]S[E]F[D]
E[R]G[F]L[T]I[T]G[T]Y[K]G[T]P[V]S[L]V[S]I[G]M[G]S[A]N[M]D[F]F[V]R[E]A[R]E[V]L[G]
I[S]H[Y]S[Y]R[S]M[Y]K[I]G[P]V[L]S[V]S[H]G[M]G[A]P[S]L[S]I[L]M[H]E[Y]A[D]C[K]
I[C]A[G]T[D]R[Y]A[M]Y[K]V[G]P[V]L[S]V[S]H[G]M[G]I[P]S[L]A[L]M[L]H[E]Y[H]A[K]C[T]
I[L]A[C]A[G]V[G]G[K]V[N]A[A]I[T]A[E]L[L]C[R]R[F]G
H[G]G[T]S[L]T[G]T[Y]K[G]H[E]V[L]L[T]E[S]G[L]G[K]V[N]A[A]A[S]A[T]V[M]I[D]N[E]F
G[T]R[F]E[T]G[T]L[R]G[T]T[Y]R[V]A[L]G[L]V[G]K[G]N[H]T[A]A[V]L[A]E[R]A[L]V[E]F[S]
V[S]R[T]D[R]Y[C]L[Y]K[V]G[P]V[I]S[V]S[H]G[M]G[I]P[S]S[L]S[L]L[L]H[E]I[T]K[L]M[H]
V[I]T[E]E[A]M[Y]H[G]Q[S]L[L]V[E]S[G]I[G]K[V]N[A]A[V]A[T]L[V]I[E]R[Y]K
D[Y]H[T]G[T]V[H]G[V]P[C]V[V]T[L]A[R]V[G]K[V]A[A]A[T]A[G]A[L]I[H]A[F]G
K[K]A[T]F[F]L[T]E[F]W[Q]K[N]N[M]A[L]C[G]P[V]L[G]A[P]Q[A]A[I]A[L]E[Y]L[K]A[A]G
F[L]G[S]T[S]R[Y]L[F]K[V]G[P]V[L]I[A]N[H]G[M]G[M]P[S]V[S]L[L]L[H]E[V]T[K]L[L]G
Y[G]D[F]F[W]R[G]T[F]G[R]P[L]I[S]A[N]H[G]T[A]A[A]G[A]T[A]L[A]C[A]L[Y]Q
I[C]A[G]S[D]R[Y]A[M]Y[R]A[G]P[V]L[S]I[S]H[G]M[G]I[P]S[L]S[L]M[L]H[E]H[A]K[C]R
Y[D]T[Y]L[V]S[R]E[N]A[L]I[V]Y[A]V[S]G[M]G[E]S[A]A[G]A[T]E[Y]L[A]K[Y]D
H[I]G[S]T[S]R[Y]T[T]Y[K]V[G]P[V]L[A]A[N]H[G]M[G]P[S]S[L]S[L]L[L]H[E]V[T]K[L]L[G]
G[K]N[E]V[V]A[S]G[F]V[G]K[V]E[T]A[A]L[A]Q[K]F[I]D[E]F[S]
I[A]G[Y]E[F]S[E]G[T]L[G]D[R]E[V]L[V]K[S]G[L]G[K]V[N]A[A]V[A]T[L]L[L]Q[L]K
F[G]D[L]K[I]Y[K]G[F]W[R]G[N]I[S]L[A]W[S]G[W]G[K]V[S]A[A]R[A]T[R]T[N]K[N]K
W[G]D[E]V[R]L[S]L[A]W[S]G[W]G[K]V[S]A[A]R[A]T[R]L[L]A[D]P[S]
L[G]R[E]Y[Y]V[G]S[V]H[G]V[A]A[V]V[T]L[A]R[I]G[K]V[A]A[A]A[T]S[A]L[L]H[V]I[G]E
Y[Q]A[S]Y[G]H[E]L[F]L[G]V[A]G[T]Q[K]N[T]A[A]A[L]Q[A]L[L]I[T]G[Y]R
I[K]G[F]R[F]Y[R]G[V]V[E]G[K]N[V]L[V]V[E]T[G]M[S]L[V]N[A]A[M]A[L]Q[L]T[L]D[H]F[P]
V[R]N[Q]T[V]R[L]L[S]E[E]V[G]F[I]G[D]F[G]I[G]P[T]V[T]A[V]V[E]N[A]I[A]A[G]
T[H]N[L]H[L]L[F]G[Q]Y[H]D[Y]K[F]I[V]I[S]E[V]Y[G]G[P]I[G]V[T]T[V]E[E]L[K]Y[Y]G
P[S]N[A]K[N]I[T]D[H]L[A]V[L]R
F[T]L[Y]K[N]E[E]I[M]F[C]L[T]G[I]G[L]V[N]A[A]A[Q]L[S]Y[L]L[S]K[Y]N
W[G]D[G]V[R]L[T]L[A]W[S]G[W]G[K]V[S]A[A]R[A]T[R]L[L]A[A]D
P[H]G[T]L[F]D[V]G[R]V[P]G[W]R[V]A[V]V[E]I[G]E[G]N[S]G[A]A[H]T[E]R[A]V[A]F[F]R
H[S]M[L]K[F]Y[S]G[M]H[E]G[L]E[V]V[S]A[L]G[E]A[Y]K[I]N[S]A[A]A[Q]L[L]N[N]F[N]
L[S]I[A]W[S]G[W]G[K]V[S]A[A]R[A]T[H]K[Y]K[R]T[N]
I[C]A[G]T[D]R[Y]C[M]F[K]T[G]P[V]L[S]I[S]H[G]M[G]V[P]S[L]S[L]M[L]H[E]L[L]K[L]L[H]
D[T]M[S]I[I]N
H[V]Q[R]F[A]L[G]L[I]D[G]R[T]V[L]V[V]T[S]G[I]G[E]A[N]A[A]A[T]A[R]A[L]V[L]D
E[A]G[L]H[L]V[G]G[E]Y[H]G[F]E[V]A[T]T[A]G[M]G[T]V[N]A[A]A[A]Q[H]L[L]S[A]H[G]
Q[A]G[T]R[F]E[V]G[R]V[G]G[C]R[V]A[L]G[L]T[G]K[G]N[H]S[A]V[L]A[E]R[A]M[A]E[F]D
P[Q]G[T]R[F]E[V]G[D]G[R]C[R]I[A]L[L]G[L]V[G]K[G]N[Q]S[A]V[L]A[E]R[A]I[A]E[F]S
L[A]G[R]T[L]H[R]G[R]L[A]G[H]D[T]L[L]V[L]C[G]V[G]K[V]A[A]A[T]A[A]L[L]L[D]R[F]G
I[C]E[G]T[D]R[Y]A[M]Y[K]V[G]P[V]L[S]V[S]H[G]M[G]I[P]S[L]A[L]M[L]H[E]L[M]K[L]L[L]Y
R[L]G[M]R[D]Y[H]V[M]L[H]G[V]P[C]V[L]V[L]A[R]V[G]K[V]A[A]A[T]A[T]L[L]R[E]F[G]
N[R]G[Y]T[T]F[T]G[H]Y[K]G[K]R[L]S[I]C[A]F[G]I[G]F[A]M[D]F[L]V[R]E[V]R[T]I[T]Q
F[G]S[W]T[F]W[T]G[T]L[D]D[Y]P[V]I[V]S[R]T[E]V[G]I[A]N[A]S[A]S[T]T[L]A[I]E[K]E[S]
G[V]P[W]V[R]Y[Q]G[T]Y[K]D[L]N[I]S[L]I[W]P[G]V[G]T[I]S[S]A[L]V[T]Y[A]I[Q]A[L]Q
H[H]K
N[R]N[V]I[S]A[V]V[G]I[G]K[V]N[M]G[L]W[T]S[Y]L[L]S[K]Y[N]
Y[H]I[H]G[K]D[V]F[V]C[P]S[S]A[G]Q[I]R[A]A[L]A[M]T[L]L[L]D[V]Y[K]
E[A]G[L]K[L]I[G]G[E]Y[H]G[F]N[V]S[T]T[A]G[M]G[T]V[N]A[A]A[A]Q[H]L[L]S[K]Y[N]
H[A]G[R]D[F]W[L]G[D]L[H]G[R]P[V]V[L]A[L]S[K]I[G]K[V]A[A]A[T]A[T]A[L]I[E]R[F]A
A[G]R[D]F[W]L[G]E[L]H[G]R[S]V[V]L[A]L[S]K[I]G[K]V[A]A[A]T[A]T[A]L[L]I[E]R[F]G
L[G]L[N]T[Y]V[H]G[F]Y[G]K[T]E[V]V[A]V[S]T[S]H[G]K[V]A[T]S[L]A[A]T[V]L[A]I[H]F[S]
H[A]G[R]A[F]W[G]G[L]Q[G]Q[P]V[V]L[A]L[S]G[I]G[K]V[A]A[A]T[A]T[V]L[A]E[R]F[G]
M[R]S[W]V[G]E[F]E[G]T[N]V[S]I[V]I[N]G[I]G[T]E[A]A[T]L[A]T[H]L[A]I[E]K[F]Q
W[E]T[L]D[I]M[L]V[Q]C[G]I[G]K[A]N[A]A[A]T[S]L[A]I[E]K[F]S
H[H]A[G]L[Y]S[A]T[S]S[S]G[R]Q[I]L[A]Y[S]G[L]G[V]N[A]A[C]A[V]T[S]L[S]C[R]Y[S]
C[N]V[G]T[V]G[A]A[L]S[T]Y[E]T[C]A[T]L[R]
L[L]D[L]S[H]R[F]S[M]Y[K]V[G]P[V]I[F]I[N]H[G]M[G]V[P]S[L]S[L]L[L]H[E]A[Y]A[K]C[K]
F[T]F[R]G[G]F[Y]K[Q]I[R]V[A]I[V]E[S]G[M]G[A]E[R]A[R]A[T]E[L]L[D]A[H]A
F[A]A[T]R[A]W[T]G[Q]L[E]G[Q]D[A]V[A]T[T]D[I]G[L]A[A]A[S]V[A]A[W]A[L]T[W]T
H[G]G[T]E[L]T[T]G[R]Y[K]N[H]E[V]L[T]E[S]G[I]G[K]V[A]A[A]S[A]T[V]M[I]D[N]F[K]
G[G]V[L]V[A]E[T]G[V]G[K]V[A]A[A]M[A]V[A]V[L]A[R]H[V]
G[I]K[F]T[C]I[S]G[I]G[I]E[R]A[G]R[A]K[I]L[C]A[E]K

UniRef90_R7FLT9 L K E I I N L G S A G A L S N K L K P 100 V V L A T A S A Y Y D V D I T R F G Y
UniRef90_D6WB45 N P I F F R I G T C G G L G L K E G T V I V A K S V V D E M G N T F H T Q K
UniRef90_UPI000262853 P T K V I N T G S A G G F A A E L A I V G D V I V A S T E R V V H H D G Y A Y G Q V P
UniRef90_UPI00047DCF6B C S S L L F S G V A G G L D P E L A I N V G D V V V A D R L V M H H D G V P P L P G F
UniRef90_Q49Y40 P D L I I N T G S A G A L D K S L G L G D I V V S D M V A Y H H D G Y Q L G Q I P
UniRef90_A2SLT8 V D A L V F T G V A G A L Q P A A S L G D V V V A R E L L Q H D M D A S P L F P
UniRef90_UPI0003F18B44 D V T I I R I G T S G G I G D P G S V V I T D T A V D S F F K P R F E Q V
UniRef90_I1ZNR4 P S Y I I N T G S A G A L Q P L S L G D V V V A S S E V A Y H H D G Y E I G Q I P
UniRef90_UPI0004411BC9 E M A I V R L G S C G S A V T R N Y D F D F T V P T E E V K Q N G A P Y R I L S K P
UniRef90_UPI00037D985F P A R I L N T G S A G G F A H Y C E V G D I V I T S T Q V R H H D G L E M G Q G Y
UniRef90_UPI0004572C17 H A K C F R I G T S G G I G V E P G S V V I T R T S L D A S F K P Y F E M N
UniRef90_A0A031GPC3 V T H I V F T G V A G S G D K R V K V G D I V V A S E A L L Q H D M D A R P L F P
UniRef90_S2Y331 P S Y I I N T G S A G A L Q P L S L G D V V V A S S E V A Y H H D G Y E I G Q I P
UniRef90_G2NI25 T Q R I I T V G T A A S L Q R D L R L P G S L V V A R S E A L R D E G L S H H Y L P
UniRef90_R7BSD5 I E A V L N F G F V G A G L N K N I E L C E L V V P A R R V V H Y Q D D T D R V I G Q
UniRef90_F6ALN6 V R R I A F T G V A G G L G E G V R V G D V V A D D E Y L Q H H D L D A S P L F P
UniRef90_A1STE7 P G Q V I N T G S A G G Y D T T L N V G D I V I S T E V R F H H D G Y E I G Q M A
UniRef90_C2MBB7 P Q L L V N V G V S G G L Y A G A G V G D L C L L S T A Y R Y H H D V W C G E G N E
UniRef90_F0TE48 V R K V L A F G N A G A L I K R L P E N A M F I P V K A I R D E G T S F H Y K E
UniRef90_Q5FK64 V K K V L A F G N A G A L I T N L P E N A M F I P T K A I R D E G T S F H Y L E
UniRef90_A6AL1 P K Y L I N Q G T S G G H D P K L Y R G D T V I G S E A S W Q N F D V T M R L R E
UniRef90_B5DW01 H A K C Q R I G T C G G I G I E P G T V V I S S E A L D G M L N P Y E L I
UniRef90_E0VS64 V K D P I F F R I G T C G G V G V E G G T V I L S E E A V D G L G R A F L E T P
UniRef90_M3CHZ2 P V A I I N Q G T C G G H D P A L K V Y D I V T P V K A L G E G S D S R M Q W P
UniRef90_R7UD79 D V L F F R I G T A G G L G L E A G T V V V T E Q P V D G L L R P Q M D M Q I L
UniRef90_K2DPT3 V T K Y I V C G G C G V L N P E I A A G H P V I L T S A I R D E G T S Y H Y L P
UniRef90_R2ST60 P D V I I N T G S A G G F L N E V E I G D V V Y G S R L S Y S D D Y I F G Q V P
UniRef90_R8W8S8 V A A V L N Y G V V G G C T D N L H P G E V V V V K V A H Y Q Y D L F A V D N V
UniRef90_R7K7K9 V E L I V N L G F V G S L V P E L K A G D V C F V E R V V H H Q F D V S G I D G
UniRef90_K2CGW9 P D L L I F S G I S G A I N R E L K V G S I V V G K T V F S A E S N Y R K C R H T
UniRef90_UPI00035DCCB1 P K E L F M T G I C G S L S N K L K N G D I V V A T K V M Q H H D V T G A G M E T
UniRef90_G4TVV7 D M V V I R F G S C G S L V D D L P V G S L T V P K T S L C V T R N Y D F D F M
UniRef90_V5GYM2 N V V F I R I G T S G G I G I E P P G S V V V V N G A L R E E L E T H I L G E L V
UniRef90_I3J4R9 D V T I I R I G T S G G V G L E P G T V V V V T K Q S V D P T F Q P R F E Q V
UniRef90_G4KWS1 A E L I L N A G V A G C C T D L S T G S L V L A D T L V Q H D V D T T A V G D P
UniRef90_I7KGF5 P D L I V N T G S A G A L D P D L K I G D E V V I G T R V A H S D G Y A F G Q V P
UniRef90_H5XR74 P T A L L F V G V A G G L W P S T A L G D V V V A T H V Y A Y H G R V W E M P Y
UniRef90_E9CCX5 Y A I Y L R I G S S G G I G V P A G T I V I T E E A L D G E L N P F H T L K
UniRef90_S9TOC0 P D V I I N S G S G A F G A G L D V G D V I V A T Q F V Y G D G Y E L G Q V P
UniRef90_UPI000360240D V G K M V F T G V A G G V G R E V R V G D I V V A D S L L Q H H D L D A S P L F P
UniRef90_UPI0003B66B97 A E E L L A F G W A G A L Q K D I S L G S L I L P D F S F S E E G T S R H Y G
UniRef90_K3X2L3 A H D A V Y I R M G T S G G V G V E G G T V V F T S E G V N N K M E A V H E V A
UniRef90_G4Q4A3 P S L I V N Q G T A G G Y G D L A V G D V V L A S A L Y N H E S V J A M D F P
UniRef90_UPI00039580C5 D V T I I R I G T S G G L G I E A G S V V I T D T A V D S S F Q P R F E Q V
UniRef90_R6X138 V Q A L F N F G V I G T L T K R F G C K D V A V T E K V V H Y E I D T S A I D N
UniRef90_T0QWC1 A H D A I Y I R M G T S G G V G V E G G T V V L T S E A L N H E L R P L H V V P
UniRef90_C5CIA5 P R L I V M T S G A G A I D S S I E P G T V V I G S E F L E Y D L R Y L P L R S G
UniRef90_UPI00046F1032 P D V L N T G S A G G I G E N L E V G T V V L S K D V T H H D G Y A L G Q V P
UniRef90_UPI00047319AB L D F L V N T G V A G A M K K D L N Q W D I I A D S V I Q H H D M D A R P F F P
UniRef90_Q3AN92 I D L L L F T G V A G A A D P A L S Q W D V V L A D A V V Q H H D L D A S P L F P
UniRef90_R4WHI1 T D A I V F T G V A G G V R A D V R V G D I V V A D M L V H H D L D A S P L F P
UniRef90_X4ZH69 P D V L F F T G V A G A L D P E L A I N D V V L A S S V V H H D A G V L Y G S P
UniRef90_W0J1R1 V S H V L F A G V A G G I D P A L E V G D V V I P E R W A Y H H D G K G G Y H V A
UniRef90_E7QXN5 A E V V C V L C G C A G T D T D V P L S D A I L P T R A V R D D G T S Q H Y L P
UniRef90_L7RCK7 I K K I I G L G F V G S F D N N I K T G N I F A E K S L J E L G T T P H Y L T
UniRef90_K2GSA7 P K L F L M I W H C W W L R N H Q E I W E F V L A D K F V T D C W I L S K I Q R
UniRef90_Q6F192 I D S I I N I G T S G G C D K A L K Q Q W D I L I D K I Y N S V A D A T A F G
UniRef90_Q7U9T4 L D L L L F S G V A G A D A E A L Q Q W D V V L A D A V I Q H H D M N A S P L F P
UniRef90_UPI00036D8F95 P A A V F F V G V A G S L R S E V A L G D V V V A G K V Y L H H G G K E G D D G
UniRef90_K6TVR6 V T H I V L I G F A G A L N K Q L D V G D T V I S S E I A Y Y D A A H D V L T E
UniRef90_A3PE90 I D F L L F T G V A G S V D S H V R Q W D I I A D S L I Q H H D A R P L F E
UniRef90_UPI00034FEF7E H A R C C R I G T S G G I G I E A P G S V V I T D T A V D S F F K P Q F E Q V
UniRef90_R6VSF4 T D K Y V V F G G S G C L N K E I A R G K V M V P T E A Y R D E G T S Y H Y A P
UniRef90_U1QYV3 A P I V I A A G T G G L A R D I A N V G D I V Y G Q A D A T A F G Y A L G Q V P
UniRef90_C4FCB6 A N A I I F S G I A G G L N P A L H I G D V V I G E Q L R Y L D T D T A L T A E
UniRef90_U5W2J6 P T A V L F V G I A G A L W P E M S L G D V V V A T Q V Y A Y H G P R A W E I D G
UniRef90_UPI00047B50DD P T A L L F V G V A G A L H S H I A L G D V V V A T H V Y A Y H G G T S E D D G
UniRef90_UPI000344E2F3 V D A L L F T G V A G G I G P G V A V G D V V V A D T L L Q H H D M D A S P L F P
UniRef90_M7B8S7 H S K C I R I G T S G G I G L E P G S V V I T S Q S V D A T F K P Q F E Q V
UniRef90_Q46WT2 V Q E V V F T G L A G V G D G V R V G D I V I A S E T M Q H H D M D A R P L F P
UniRef90_A2EM76 G K L T F I Q L G A P S P A G H A N G T A I N V K D C V A Y E G N T E T P Y R
UniRef90_B5FFJ4 P G M I I N Q G T S G G H D P E L Y R G D I V L A V K S F N M G A N R D N K F V
UniRef90_I1K708 P D L I I N A G T A G F K A K G A S I D V F I V S D C A F H D R R I P I P V F
UniRef90_K4RMS9 V Q A L I F S G V A G G L A P N L A I N D L L A T K L C Q A D N H P L G F I P
UniRef90_UPI00037C7187 I S H I T I N C G V A G G V I N P K M N K D I V V S S E V A Y H H D H K V I G Q V P
UniRef90_W5SEZ1 C T T I I N Y G V V G A L N D R K V E E L T V V E S V S H Y E W D T S D V D D V
UniRef90_C2BH39 A N A I I F S G I A G G L N P A L H I D D V V I G E R L R Y I D T D A L T A H
UniRef90_G1WHB2 V S R L V F T G V A G G L N G V N V G D V V V A T D F V Q H H D L D A S P L F P
UniRef90_Q122W5 V R R M V F T G V A G G L G A G V N V G D V V V A S E F V Q H H D L D A S P L F P
UniRef90_J2KS48 V D Q L E L F G F C G L R N N I T P G D I V V P E S F V Q Y H H D A S A L G G
UniRef90_U7DAT1 V E R I V F T G V A G G L G A G V Q V G D V A V A H G F L Q H H D M D A S P L F P
UniRef90_E8TW81 P Q I I I N A G T A G A F A S K G A H V I G E I Y L S Y P K V V F H D H R V D I P
UniRef90_UPI000255D6D3 P Q I I L N M G S V G S L S P E L E V G D L I E E F T Y H D A D A T V F G Y A L
UniRef90_F4G17 L A A L V L L G V G G A L E S S R E V G D L V V A E K I L Q H H D S C A F F D M G
UniRef90_Q6ARG8 P D V I V N A G T A G G F K R G G E V G D V V V A T K F K N H D R R I P I P G Y
UniRef90_A4S3Z1 D V V F F R L G T C G G L G K A P G T V I V S K R C V D N Q C R S T F R I V K L
UniRef90_T1KRC6 P R W I V S T G F C G A L V S M G I Q I V V A N Q I T P T G T E R I V D I
UniRef90_UPI00029A147B P R L A I S A G T C G L A A A T R V A E V A V A D S A T Y E F G Y E R G Q V P
UniRef90_UPI0004781AB9 P D L V N T G S A G A L D P A L K I G D V V G T R I A Y S Q V D V T V F G Y D
UniRef90_B1MZK6 P E E S F L G V A G A L N P A L K A L D L L A E R A V S D W D G R A P G E T A
UniRef90_B7A6N4 P D I L M S I G V S G L A P G L S A G N L V A A T T I H S D I
UniRef90_L0R9C4

UniRef90_R7FLT9 G Q M C G C P A T F E T A T A N I K L K D R T G F K I H Y G L N L T V E S F M T
UniRef90_D6WB45 I C G K V V Q R P A K L D Q Q L V K E L T S L R F N V V E G V T M C A D D F F Y E
UniRef90_UPI000262853 K M P A M Y T S D A D D I A S Q A G Q A V E R Q L I G I G Y R E G L I A T A S D S F M G
UniRef90_UPI00047DC6B6 P E E T G Y S L D Q D L R E K I R D A V E L G L D I R L I F G T I L T G D I F L N
UniRef90_Q49Y40 Q M P A Q F V A D S H L I E L A K E A I N D Q K W V A K S G L I V S G D S F L I G
UniRef90_A2SLT8 R H E V P F P T D A D L S D S S F A A L G L D R P R V H E G L V V S G D R F V A
UniRef90_UPI0003F18B44 I L D N I V T R S T E L D K D L A E E L L N C N F P T L I G H T M C T Y D F Y E
UniRef90_I1ZNR4 P S R Y I E V D G R A L T A I E T V L K Q A S I P Y Q E V M T W S T D G F Y R
UniRef90_UPI0004411BC9 A Y P D P G L H S D A I L F D A L Q S K P A D Y K G R L L G D T I N A S A D S F Y S
UniRef90_UPI00037D985F G F P A A F E S D P K L V E L A L E A A K Q Q N C Q A F T G L I C T G D S F M D
UniRef90_UPI0004572C17 V L G K T M I H S T Q L H T C L G Q E L L K C S K E I N E F P T M C T S D F Y E
UniRef90_A0A031GPC3 R F E V P D D V S S V L K A A D I A A F G L Q H A R V H R G L T A S G D Q F I S
UniRef90_S2Y331 G M P A T Y K A D Q E L F K K V D K V L K S L S Q N G K E G L I V S G D S F I G
UniRef90_G2NI25 P G R T A S P S P A L T Q Y L A E A L A P Y D L P V T R G P I W T T D A P Y R
UniRef90_R7BSD5 Y S G M S S N Y F Y L E D E T L I H N A L A N I G K Q M K L V T V A S G D Q F V T
UniRef90_F6ALN6 R W E M P G Y C D P E M T E D L R A A H A T T A P R A H Q O G L I A S G D Q F V G
UniRef90_A1STE7 Q L P A A F P A D K N L I F A A Q K A A E T I T H K T I Q G L I C T G D I F M A
UniRef90_C2MBB7 R G Q V Q G M P A Q Y S A D A M A T V A K Q L R I P L H E G L L L C G D T F I P
UniRef90_F0TE48 P G Q F V D L Q S N F L S E I E T K I K D L G Y N Y D E I V T W T T D G F F R
UniRef90_Q5FK64 D S L T V D L R S H F L S K I E E Q L D K L N L K Y D E I T T W T T D G F F R
UniRef90_A6AL1 N G E F V E H K Q S F K A N P A L V E T A L S L S E E Y K K G K V V S A D E W N R
UniRef90_B5DW01 V Q G K V V L Y S K K L D Q C L A N E L C E D E F W Q T I I G K T L C T N D F Y E
UniRef90_E0VS64 V V Q R P A K L D K K L V R D L K A I A D P D D W Q T V S G K T M C T Y D F Y E
UniRef90_M3CHZ2 M D L L A S K G S A G E D Q K A H S K S D Y R Q G K V V E G V T G S A D V W N S
UniRef90_R7UD79 G V T R E A K L D P D L C E E L V S C A S I H R D F N T I K G K T M C T M D F Y E
UniRef90_K2DPT3 P A R E V K A N L K G V A A L E K T F K E S G L E Y R L G K T W T T D A I Y R
UniRef90_R2ST60 Q M P S E Y S L N Q D W L T V F S T S L D S S K D Y S I I H K G L T A S G D S F M S
UniRef90_R8W8S8 P A G R Y L E Y P D R L L P V S T A F T E L A S P E L R R V V C A S V T G D K F V G
UniRef90_R7K7K9 V G K H S D I Y F Y L D R Q K V L A L Q S K L P D K L P F V T L A S G D E F I C
UniRef90_K2CGW9 G L L P D T K F S T P R F E K V K K L I K S S N Q N V H F G T L V S S D F F P
UniRef90_UPI00035DCCB1 D P F D L Y T G R A S I H P K V K L I K E M S Y P S H Y G T V V S G D Q R I R
UniRef90_G4TVV7 Q E E G L D A A R P D F M D A Y R E H L P S S T P V V D E H L N A S A D S F Y S
UniRef90_V5GYM2 R R P T V I D N K L A N D I A A V G R K A M P E L N I V T G K T M C T N D F Y E
UniRef90_I3J4R9 I L I G K T V R N T D L D Q S L A E D L L Q C N F K T V V G N T M C T N D F Y E
UniRef90_G4KWS1 V G L V S T V N V T E F P A W C L E L L K R Q G A E A V K G R T A T G D W F A V
UniRef90_I7KGF5 N K P L Y L A D P E V V A D F E K L A A V K E G L I V S G D Q F V H Q
UniRef90_H5XR74 G V S Q L A H H L A R V G D W R R G L A Q E S G P E V H F G A V A G E I V H D
UniRef90_E9CCX5 V L G N K I Y R D A K F D R A L L D E I A A C K M N V L V G K T M C A E D F Y E
UniRef90_S9TOC0 Q M P A K Y E A D A E W L K V A R Q T A A S A D L P Y D F G L V L T L D S F M S
UniRef90_UPI000360240D K Y E V P E R F V T D E G T T L T E R F R L D G V R V H R G M I V S G D R F V S
UniRef90_UPI0003B66B97 Y F P Q P T K E L Y W W L Y H E L T L Q G F S F T E G K V V S T D A L F R
UniRef90_K3X2L3 V Q Q R P S I C T K E V V D E I T Q S A Q E L Q L P A V G K T L C T D D F Y D
UniRef90_G4Q4A3 D V I P L L E T D E R L V Y I L E A F L K K S G A S Y R T G L I A S S D Q W N E
UniRef90_UPI00039580C5 V L D D V V R S T E L D K D L A E E L L A C D F P T L I G H T M C T Y D F Y E
UniRef90_R6X138 I K A G H Y D E N A D P Y F Y F D K N L I K D F P K I R T A R L A S G D K F I S
UniRef90_T0QWC1 I H E R P A V L D A A V T A E I A A V C D D I S I P Y A I G K L C A D D F Y E
UniRef90_C5CIA5 H I S V P T T A S V A L D H I K Q L M P D A T Y G R I I T G D Q I L A
UniRef90_UPI00046F1032 G G P V T Y S A D E K L Q V A A K A V E I I G K H S H S G L I A S G D V F M S
UniRef90_UPI00047319AB P I S L N N D S F Y N A L K K Q S N L K K N W I F G N V K K G T I G T G D M F I S
UniRef90_Q3AN92 R F T Q P Q P P W F D W A K T A L I E A H N E G D R P S S G L I A T G D R F I G
UniRef90_R4WHI1 R Y E V P F A A D A T L S N A L V H A A Q T F R P A V H R G L I V S G D R F I A
UniRef90_X4ZH69 Q V I F P F G P R I A D E A E Q A A L W G R D R K F K E G V I A T G D Q V V F
UniRef90_W0J1R1 D Y F K I R Y A N F G M I F P D D M V A I R A D K E T F T G T G V S G T V F L D
UniRef90_E7QXN5 P E E T V T S T P A V T D H L E S A L S D T G I G T H R G P T W S M G A M Y R
UniRef90_L7RCK7 I K D D Y T F S L D I N I D C V K T C I W T T N A L Y R
UniRef90_K2GSA7 N N P L P I P T F N L N I W L K N I L E K N R V N F R I G T V F T T E D R N W
UniRef90_Q6F192 Y A Y G Q V P R M P K Y Y E T S N K D I N K T S K A K I K N I A S S D Q F I H
UniRef90_Q7U9T4 R F T L P P Q P D K W L A W A S R S L N A A Q E T V R P G L I A T G D Q F I S
UniRef90_UPI00036D8F95 F R A R P R A W E M R H D E Q R V R R A L R G R T G V H F K P L V A G D V V L N
UniRef90_K6TVR6 Y F H P W M R E L C F R S D A K L M L C E R V S S R E H V G R V I T G K Q F I S
UniRef90_A3PE90 R H I P L V F N K D E L S P K K E W E I F K K N L Y K G Q I G T G D Q F I S
UniRef90_UPI00034FEF7E I L D N V I T R S T E L D K E L A E E L F N C N F P T L I G H T M C T Y D F Y E
UniRef90_R6VSF4 A S D Y I K I Q N A D V V A K F M E T V G L P Y V K G K T W T T D A V H R
UniRef90_U1QYV3 R M P V D Y S S E R A A A R C D A L A G L V D H P V R L G R I V S D S F C T
UniRef90_C4FCB6 P G L E E F S S S D F L V E L A E Q T L R A H G F R F L R G T I A T G D R F V S
UniRef90_U5W2J6 H E C D Q L A H H I A R T D T W A R G L P E G E R T P K V G A I A A G E V V L D
UniRef90_UPI00047B50DD F K S R P R V W E V S H G A D Q I A R H V A R G P E V H F G P I A A G E V V L N
UniRef90_UPI000344E2F3 R W E V P F A A D G A L C G R L A R A A A R Q A P R V H T G L V I S G D R F V S
UniRef90_M7B8S7 I L I G K T I R S T N L D D Q L A K E L M Q C Q F N T V I G N T M C T D D F Y E
UniRef90_Q46WT2 R H E I P F P A D P T L T E A V R E H F G I G T P A L Q L G L V A S G D Q F I N
UniRef90_A2EM76 F F K K P V P A N E K L L A A L N E G L K A A N I P T V E G R V A S N P S F V N
UniRef90_B5FFJ4 E H D A F Y S T P E L V D F A Y K N V K H P A Q G K V V K G V I G T A D E W N R
UniRef90_I1K708 D L Y G V G V R K T F E A P N L V K E L N L V K G K L S T G D S L D M
UniRef90_K4RMS9 E S S V F V E S D P Q L N A L A K S V A Q N L N L P L K E G I I A T C D Q F V S
UniRef90_UPI00037C7187 P S L F A H P D P Q L T A S L A T A L S G I G A T W T R G P A W T T D A L Y R
UniRef90_W5SEZ1 E L P Q R F I A D R N L E K A L K A I K T N L G A T D V Y T G L I L S G D Q F I D
UniRef90_C2BH39 A K G Q Y E I F D D V A M K K L V D L A M K I D P H L E K V K L A S G D K F I A
UniRef90_G1WHB2 G F M D A N L S D E E I A Q F R R N D A E P R R Y L R G T I A T G D R F I S
UniRef90_Q122W5 R Y E V P F E S D P A L T A L L F N S A A F P V A R V H R G L I A S G D R F V S
UniRef90_J2KS48 R Y E V P F E G D A A L T A L L F N S A A F P V A R V H R G L I A S G D R F V S
UniRef90_U7DAT1 T T C E I P L C H G F S R F S A N K D I T H R K Q S L H R G C M G S A D T F V A
UniRef90_E8TW81 R W E L P M P C D A G R T A M L F E I L G H S H A S R V H Q G L I V S G D R F V S
UniRef90_UPI000255D6D3 G W R P H G E G H F K V W D T E Q L K T L G F K Y G I V T T G S S L D M L P
UniRef90_F4G117 G Q I P R M P A T Y A T D I T P F L N L P H E G Y A V K P G V L V T G D M F S T
UniRef90_Q6ARG8 R F L V R P G Q S L R S G A D G L G H D P C L G L R S C R G C V V T G A E F S G
UniRef90_A4S3Z1 D K Y G V G E Y D A W P T P R L I E A L G C K T G V V C T G N S L D
UniRef90_T1KRC6 G K E L N M E A T L D Q E L A N Y A S A N H P D I P I E P G C T M T T D D F Y E
UniRef90_UPI00029A147B G M T S D E K R G L Y V G R T L V D H M V R
UniRef90_UPI0004781AB9 R Q P V R F P V S E R A L E A A R A L A A A T G T R W H V G R I L S G D T F V T
UniRef90_B1MZK6 F G Q L P N K P L Y E A D I N T V A D F E Q L T A V K K G L I V S G D Q F V Q
UniRef90_B7A6N4 F G V R F F P S D P L L A R A E A A A R A L G F P C R R G V V A T G D R F L A
UniRef90_L0R9C4 S D F K P W H E N D E D A L M R S E I I P L C G K D I Q C G R L I T E K P V L

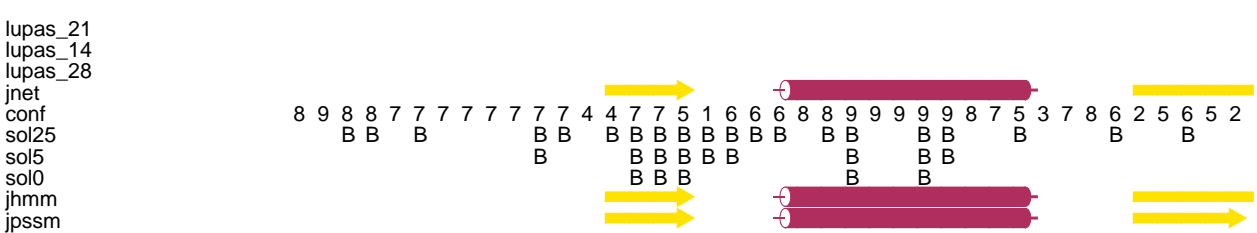
UniRef90_R7FLT9 A L T I D K D K L N K F N D P L C I D M E G A A F G Q C A Y R L N K P Y T L I R A 170 180 190 200
UniRef90_D6WB45 D K V N Y L N E L V K R G V T N I D M E G A A F A Q V L T H Y A G E I K A A L I N A V
UniRef90_UPI000262853 D A E Q A E A R L R E K F F E G L I A A E M E G A A A V A A Q V C Y Q Y G E T P F V V V R A
UniRef90_UPI00047DCF6B D A Q E R E R L V R E K F F G G V I A A V E M E G A A A V A A Q V A E R F G V P F V V V R A
UniRef90_Q49Y40 T A E Q R A D I K T N F Q A M A A E M E G A A I A A Q T C Y Q F N L P F F I T R A
UniRef90_A2SLT8 T S L E R T A L R T E P D A L A V E M E G A A V A A Q V C L D C D L P F A V L R T
UniRef90_UPI0003F18B44 G K V D Y L Q R A R Y K A G V R N I E M E S T V F A A M C G L D L K A A V V C V
UniRef90_I1ZNR4 E T P D K V A Y R I E E G C S V V E M E T A S L A A V A Q L R G A V W G L L L F
UniRef90_UPI0004411BC9 S Q G R I T A F P D H N T Q L I E E M E T F H L F H L A
UniRef90_UPI00037D985F C P T R V D K A R N D F E M L A A E M E A A A I A Q V C A Q F S V P F V V V R A
UniRef90_UPI0004572C17 E K M E Y L Q S A H A A G V R N I E M E S S V F A A M C I R S G M K G A V V C V
UniRef90_A0A031GPC3 S A A H L N Q L L K V D F P H L A A E M E G A A V A A Q V C F E L G V P F F T V M R T
UniRef90_S2Y331 T N A Q R Q T L L A S F P H L A A E M E A A A I A A Q T C F Q F N T P F I I T R A
UniRef90_G2NI25 E T T A E V T R Y G A F E G L L A A D M E A A A V F A V G H C R T V A V S T V L A
UniRef90_R7BSD5 K N D D K H R L A K E F G A D L C E M E G A A I A A Q C E R N N G V P F F S V M R T
UniRef90_F6ALN6 T A G A S S A L A Q E F H E V L A V E M E G A A V A A Q A C L D Y G V P F A A M K V
UniRef90_A1STE7 D P T K E I T A R H N F P T M A A C E M E A A A I A A Q V C Y Q F K V P F V I T R S
UniRef90_C2MBB7 E A D H L R A F A Q Q Y P D L A V D M E S A A I A A Q T A Y Q L Y H T P F L V S L R I
UniRef90_UFOE48 E T S K K V T Y F K E L G A A T V E M E C A A I A A C A Q F R S I P F F A Q I L F
UniRef90_Q5FK64 E I P K K V A Q F R Q L G A N T V E M E C S A L A A C A K F R K V D E F V Q I L F
UniRef90_A6AL1 E V D R I N W F H K T Y G T S V E M E T S S A A L V A Q A N R A Y Q V P F V G I R L
UniRef90_B5DW01 G Q T R L D G A F C D Y G V V N F D M E S T A F A A L V A Q N R A N I P F S A I V S M
UniRef90_E0VS64 E K M N Y L J E S L H K T G V I N I E M E S L S F A A L T Y H A G I K S A V I C V
UniRef90_M3CHZ2 E L D R I R Y F H D S Y R T S V E M E T A S A A Q L A A E F K V P F V G I R V
UniRef90_R7UD79 E K A E F L Q K C Y N N G I R N I E M E S L C F A A M C H A Q I N K G A V A C V
UniRef90_K2DPT3 E T K G R R N I R M A D G C D V V E M E A A A F F A V A Q F R E I T L G Q V V Y
UniRef90_R2ST60 Q L D L V K R V K D F P N A L A D S D M E S A A I A Q V A S F Y A I P V V N I R G
UniRef90_R8W8S8 D A A E K L W L H N E F G A D I C D M E S A A I L L T C D R N R V P C L L I K A
UniRef90_R7K7K9 D R K K D K L V K D F A A E I C D M E L A G I A I T A K K N G V S V L S I K L
UniRef90_K2CGW9 M P D Y I P E K F C D N L V D S I D M E S A A F Y Q V C Y K Q M K P C V A I R S
UniRef90_UPI00035DCCB1 S S E T R E L Q T V Y G A L A V D Q E L A A F S Y V C Y Q N E K P F V C L K A
UniRef90_G4TVV7 S Q G R I T D H L A A C N V G S L E M E T F H L L H L A A N W P R P H A
UniRef90_V5GYM2 G K F E F I K R L Q S L N V I N I E M E A T Q F A S M C H H A G V K G A V V C V
UniRef90_I3J4R9 D K Q E Y L N K A Q S A G V C N I E M E S S V F A A M C K L S G L R E A V V C V
UniRef90_G4KWS1 K G R R A Q W I V D T F H P L V V E M E A C A V A Q T C L R N G V K F V A L K S
UniRef90_I7KGF5 D D A K K R I L A H F P D L A V A E M E A A A V A Q V A T Q F G T P F I V L R G
UniRef90_H5XR74 S R I S Y E A Q W I R R H Y L A I E M E A A G V A Q A A H L N G S P V A V V R G
UniRef90_E9CCX5 G Q F A F S K A Q R K G V V N M E M E S L E F A A F T W H L K I P A A V L C A
UniRef90_S9TOC0 E A E R V E G L K S T F P L V V S D M E V L A I V Q S A A Q Y G I P V L S V K A
UniRef90_UPI000360240D S E A E R A L A L A L P D A L A V E M E G A A I A Q V C Y E H D V P C A V V R T
UniRef90_UPI0003B66B97 E T E E F L A R Y A E K A Q A I D M E T S A I F S V A E A L G L K I G S L L L
UniRef90_K3X2L3 D K M R F L Q Y C S E N G V K N I E M E A R G F A A F C Y K L K I P V A V V C V
UniRef90_G4Q4A3 A S E Q I R R R E K T G A L C E M E A A A V W M T A K R F R V P C A F V R L
UniRef90_UPI00039580C5 G Q G E Y L R R A Y E A G V R N I E M E S T A F A A L C G L C G L K G E S Y R F
UniRef90_R6X138 S S E V K D K L I A D F D A E I C D M E S A G G C I I A N K N G V P A L S L K T
UniRef90_T0QWC1 E Q G R F L Q V C H D A G T R N I E M E S R L F A A F T H K L N I P A A V V C V
UniRef90_C5CIA5 D T K K R D E L F K Q Y H A C C L D M D S A A L A R V A K M N R V P F L V I K V
UniRef90_UPI00046F1032 D P V R V L N V K Q Q F E M I A A E M E G A A A V A Q V C H E F K V P F V V I R A
UniRef90_UPI00047319AB D D K K I E S L L N Q P D L L A I E M E G A A V A Q V A C Q E K V D W A L R R V
UniRef90_Q3AN92 D P A V L Q A L R D A L P D L A V E M E G A A V A Q V A E Q E G V P W L V L R V
UniRef90_R4WHI1 S S E G V M A L R D A P D A L A V E M E G A A A Q V A C Y E Y A V P C A V V R T
UniRef90_X4ZH69 S S E K R Q H I R E Q F E A L A V E T E G A A F A Q V A W T N K V P F L V V R S
UniRef90_W0J1R1 N A A Y R D H V F K V W Q A R C V D M E S A A Y A H V C Y T N E V P F L A V R A
UniRef90_E7QXN5 E T E P E I E H Y A N E G V L S L G M A E A A L L A V A E Y R G V D A G V Y H Q
UniRef90_L7RCK7 E Y R D D L L F A M G E C T V V N M D T S H L Y A S C Q L L N I P C A Y Y A I
UniRef90_K2GSA7 E Y S E Y K K Y F D E D R S L A I D M E S A I I S A Q W F K Y K V P N T T L L M
UniRef90_Q6F192 S T E Q V K N F I N K D K L S V L D M E C F A Y A Q T A Y L F E K E F S V I K I
UniRef90_Q7U9T4 D A V V L K E L K A A L P D L A V E M E G G A V A Q V A Q Q E G V P W L V L R V
UniRef90_UPI00036D8F95 S R T S P L J A D L T A R T Y V A V D M E S A G M A Q A A H L S G V P V I P V R G
UniRef90_K6TVR6 S H N E R D D I E K L S P L C V D T E S A N V A Y A C Y V N S I P F I A I H S
UniRef90_A3PE90 N K K E I L E L K K N L P N L A V E M E G S V A Q V A M Q E G I P W V V I R V
UniRef90_UPI00034FEF7E S K L D Y L K R A Y K A G V R N I E M E S T V F A A M C G L C G L K V V I S C
UniRef90_R6V5F4 E T R A N F E K R K A D G C I S V E M E C A A V A Q A V C D Y R K L N A Y S F F T R A
UniRef90_U1QYV3 E Q V A E P M R Q R F P D A M G A D M E T C A I A Q V A W S C G V D W I S L R A
UniRef90_C4FCB6 G A E A K A A I A A T Q G D C V E M E G A A I A H V A A K N G I D C L V L R A
UniRef90_U5W2J6 S A V S A H A R W I K Q T Y L A V E M E G A A G L A Q A A H L N R L P A V V V R G
UniRef90_UPI00047B50DD S T V S A H A R W I R G H Y L A I E M E G A G V A Q A A H L N R L P V V V I R G
UniRef90_UPI000344E2F3 S R A E V D T L R A E P D A L A V E M E G A A V A Q V C H D F G R P F A V L R S
UniRef90_M7B8S7 E K L Q Y L K A A Y D A G V R N I E M E S S V F A A I C N C L S G V R
UniRef90_Q46WT2 S A V A V A E L R E R P G L M A V E M E G A A V A Q V C H E Y G V R Y A V M R T
UniRef90_A2EM76 S P A L P Q F D F K Q S G L L A K E M D T Y P L Y W T A L R H Q I E A A C V T
UniRef90_B5FFJ4 E V A R I N S W L H K A N Y Q T A A E E M E S S A A L V A E A Y K V P F I G I R I
UniRef90_I1K708 T Q Q D E S S I A N D A T A V E M E G A A I A Y V S D L L K V P A M F V K A
UniRef90_K4RMS9 D L K R K Q T F V Q H F G A S V V E M E G A S L G F V C R D F N I P F C V L R S
UniRef90_UPI00037C7187 E S A A E A D L Y A Q H G I L T V E M E G A A G L F A V G H H R H L P T A A A F A
UniRef90_W5SEZ1 S S Y L A K I L V A N F E D V L A V E M E G A A V A Q V C H H A H I F N V P F I V V R S
UniRef90_C2BH39 G L D A K S K L A K E W S C D I V D M E G A A I A L A C H L Y G A D F L M I K A
UniRef90_G1WHB2 G K E L R D Q V V A V T Q A D C A E M E G A A I A H V A A K N G I D C L V L R A
UniRef90_Q122W5 G A Q E S G A L R A A H E V L A V E M E G A A V A Q V C H D Y G V P F A A V R T
UniRef90_J2KS48 G A G E S R S L H A T H Q L A V E M E G A A V A Q V C L D Y G V P F A A V R T
UniRef90_U7DAT1 D R Q R R N R I S K S P E L L T V D M E S A S L A H V G Y E Y N L P I A A V I K L
UniRef90_E8TW81 T S A E S G A L R Q A H E A L A V E M E G A A V A Q V C H D Y G L P F A A V R T
UniRef90_UPI000255D6D3 E D E K Q I N R L G G K L K D M E A A A V I W A S L H N I P A F C V K A
UniRef90_F4G117 D D R R I E A I R R N F R A T V L D M E G A A I A Q T A S H Y G L G L T S V K S
UniRef90_Q6ARG8 T R E R K M E L A K L V S G V G I E M E A G G A I A Y V S D L L K V P Y A V A K S
UniRef90_A4S3Z1 A T E T C R A L L D E F E C S V K E M E A A A I A H V A H L F N V P V I A V K T
UniRef90_T1KRC6 G Q A R C D G A F C D Q G V T N I E M E A T C F A A M C T K A R K F C A I V R A
UniRef90_UPI00029A147B S I A R K K A L A E Q T G A I A V D M E T H A V A T V C R D R K T R F I A V R A
UniRef90_UPI0004781AB9 A R N V A D M R E A F P D A V G T D M E T C A I A Q V A H S L G V E F A S V R G
UniRef90_B1MZK6 D E A K Q R I L S H F P D A L V A E M E G A A V A Q V A Y Q F N T P F I V L R G
UniRef90_B7A6N4 D P E A S R L R A L H G A D A V E M E G G A A L M V A Y R F N T P F M A L R V
UniRef90_L0R9C4 T P Q D K V L M H D R T G A I A V D M E S I A V A Q T A A T E K I P F A C V R A

UniRef90_R7FLT9 I S D S V N N E A N E L E H E E L V T K C C Q N A V D V L L E 210 220 230
UniRef90_D6WB45 A L V N R L N G D Q V T
UniRef90_UPI0002626853 L S D I A G K Q S S I S F D A F L D M A A K N A A N
UniRef90_UPI00047DCF6B L S D L A G T E S H M D
UniRef90_Q49Y40 I S D L A D G D A G I T F E A F L E K A
UniRef90_A2SLT8 L S D C A D D S A H V D
UniRef90_UPI0003F18B44 T L L D R L E C D Q I T
UniRef90_I1ZNR4 T A D S L A D L E N Y D Q R D W S E A F E K A L E L C L E M V
UniRef90_UPI0004411BC9 L S D I A G K A S H Q S F T A S L A T A V K
UniRef90_UPI00037D985F C L L D R L K G D Q I T S S H P Q K L V T C F I K K Q L K K A L E
UniRef90_UPI0004572C17 I S D N A N E E A A V D F M R F V Q T V
UniRef90_A0A031GPC3 I S D L A D E E A G M T F E A F L K V A
UniRef90_S2Y331 I A D S L V D
UniRef90_G2NI25 V S D K A D E G A N V S
UniRef90_R7BSD5 V S D R A D D S A H V D F A E
UniRef90_F6ALN6 L S D I A G K K S E L S F E Q Y L P I A A K N A S I L V E E I I N
UniRef90_A1STE7 V S D T P L T S Q D H S K Q
UniRef90_C2MBB7 T G D T L A D M D N Y D R R G W G R S
UniRef90_F0TE48 T A D T L A N E K D Y D P R N G G T S H R R G L D I C F E I L
UniRef90_Q5FK64 L S N T D Q H K Q D F D P Q T A V D
UniRef90_A6AL1 C I V N R M E G D Q I L S
UniRef90_B5DW01 A L L D R F R G D Q V L A
UniRef90_E0VS64 L S N N I T N Q G K Y D P Q
UniRef90_M3CHZ2 T L L D R L K E D Q I D V S E K
UniRef90_R7UD79 G G D L V I P E G W D G R E W H K R D D D M F E M A A K A V L N
UniRef90_K2DPT3 I S D L A G V G A A T S F D
UniRef90_R2ST60 V A D S L S G G A A E Y W R E K N Q T A K S C L D Y A V E V I
UniRef90_R8W8S8 V S D N A D E N A A M S Y N D
UniRef90_R7K7K9 I S N
UniRef90_K2CGW9 A S D Q A D D K T V E E Q R V F K M L A C E K A C E
UniRef90_UPI00035DCCB1
UniRef90_G4TVV7 T L L D R T Q G D Q V S
UniRef90_V5GYM2 T L L D R L K G D Q L G S
UniRef90_I3J4R9 V S D H L F S D R Q Q E E Y F N F A Q A I E
UniRef90_G4KWS1 V S D L A N G D S G V V F D D Y
UniRef90_I7KGF5 I S D R A D G S K T T T D S A Q
UniRef90_H5XR74 T Y L N R M E T D Q V S S
UniRef90_E9CCX5 V S D L A G H G N D T A N S F D D N L D V A A D H A
UniRef90_S9T0C0 I S D T A D D H A H M S
UniRef90_UPI000360240D I S D R V F S Y E R L S Q E E L R H K T E T L M P V
UniRef90_UPI0003B66B97 T L L N R L N G D Q V L S S H A
UniRef90_K3X2L3 I S N N N E R G L S F D P S V C E A L Y R L L K
UniRef90_G4Q4A3
UniRef90_UPI00039580C5 H
UniRef90_R6X138 V S D N A D E T S P A D F N E A D Q G T S D C A K I I V D V I
UniRef90_T0QWC1 T L L N R L E G D Q V T
UniRef90_C5CIA5 I L D K C D E N S E N D
UniRef90_UPI00046F1032 L S D I A G K E S S L S F D E F L P A A A Q H S E V V L E V I
UniRef90_UPI00047319AB I S D G A D S A S E D F E N Y K K H S W D L I E
UniRef90_Q3AN92 I S D G A D E T A Q S F E D F V K R Y E Q Q A W R L I E A L L Q
UniRef90_R4WHI1 V S D
UniRef90_X4ZH69 I S D D A H E Q S L S A E K L A R I V S A A
UniRef90_W0J1R1 L S D L A G G Q E G I D A H E A T S S V N A V R V L R A I L L R
UniRef90_E7QXN5 I G D Y L T A D D W V P N S D E R S S L P S M L
UniRef90_L7RCK7 V S D N I N S K L S D F E E K P E N S W D N
UniRef90_K2GSA7 I S D K P L H W K L K K S K E S Q E F Y H E S K K I H I K M L L E
UniRef90_Q6F192 I S D V I G E K N T N N V Q F N D F I K I A G K E I L E
UniRef90_Q7U9T4 I S D G A D E A A Q S F S D F L Q V Y E Q Q A W S L I E A L L K
UniRef90_UPI00036D8F95 I S D F A D G R K E I T D
UniRef90_K6TVR6 I L D N E N E K D
UniRef90_A3PE90 L S D S A D E S A S T D F S T F L K I Y N K V S S N L I E V I A E
UniRef90_UPI00034FEF7E C G D L L D A P K W N E R I E K N Q V K H T H F D I A L E L A
UniRef90_R6VSF4 V S D
UniRef90_U1QYV3 I S D N C D E S Y D A L S S R E F D L E E Y A K S A
UniRef90_C4FCB6 I S D R A D T K N D T D A E D W Q
UniRef90_U5W2J6 V S D R A D G T K E T D R E R
UniRef90_UPI00047B50DD I S D R A D D D A H V D
UniRef90_UPI000344E2F3
UniRef90_M7B8S7 I S D R A D D S A H V D
UniRef90_Q46WT2 V V N S D A K G N A M N I E E L R K R Q L E V A A V I L L E
UniRef90_A2EM76 L S N T D L H N Q D F D P
UniRef90_B5FFJ4 V T D I I D G D K P T A E E F L Q N A V T A A L D L A V E Q V I N
UniRef90_I1K708 V S D T A D G T A P A D F D A F L H Q S A Q I S A D
UniRef90_K4RMS9 T A D C L V N R T P R A D S P R G A A L Q Q L L V A A L D A
UniRef90_UPI00037C7187 I S D N N E G N E F E Y N E F L S L A T L N A A K M V Q E I L
UniRef90_W5SEZ1 V S D A L T E G G A E F Y A N F E R A S K V A V G I I
UniRef90_C2BH39 I S D N C D E
UniRef90_G1WHB2 I S D R A D D S A H V D
UniRef90_Q122W5 I S D R A D D S A H V D
UniRef90_J2KS48 V S D T A D H
UniRef90_U7DAT1 I S D R A D D G A H V D
UniRef90_E8TW81 V T D L V D S G K P T H E E F L E N
UniRef90_UPI000255D6D3 V S D K A G K D A D D S F E K A S R N C T D Y V L K I L L E T L L
UniRef90_F4G117 I A D R F D P A D E T I I A D F H A S F E S A I R S A
UniRef90_Q6ARG8 I T D I V D G P Q A T E E E
UniRef90_A4S3Z1 I L V D R L E G D Q V
UniRef90_T1KRC6 V S D D L
UniRef90_UPI00029A147B I S D
UniRef90_UPI0004781AB9 V S D L A N G D S G V V F D D Y
UniRef90_B1MZK6 V T D G A G E G A M D F Q
UniRef90_B7A6N4 V S D G P E K S I P A E S L A G I D K N G K T H L K P V L Q
UniRef90_L0R9C4

```

UniRef90_E1G1G7      1 H L G I T K G D I K F I C M G G S M G R I K N Y A K I F E M G I S M S D N 40
UniRef90_W9ARN4      V P E I C V L D P D G D V V R H L K R T G T G R V H D W A C
UniRef90_UPI00041ADEC7      D E A V P L A D L A G E T G Q P V N T
UniRef90_S2VWV3      K L V I S A M A E E L G E T L A S L E P Q L I H N
UniRef90_R4U181      R D K L R T A I V L A F D P E W V P H I A E A K T E T
UniRef90_V4NE11      Y H F G I A S S D P A K A V I L A G T R E R I T T F A D R W S K V S R V I A F
UniRef90_R4U6E4      Y H L G L D P N E F G K F V V I G E S A G Q M E E F A R L L A K D I S Q E N L
UniRef90_B8ZST3      G D V K F V C V G G S P S R M K A F I K Y M D H P G A E Y P D
UniRef90_UPI0003716326      S P A L A Q K L D E Q P R T A I M T A F P E H A A L V G R I E Q P R T V R L N
UniRef90_B4NAJ9      G D V K F F V C G G S A E R A H K L A E T L D I K A P F G Y S
UniRef90_UPI0002C2E0ED      A E P F L R A R P A K E T
UniRef90_C5LA28      K H S
UniRef90_K9D2I3      Q K E K
UniRef90_T0R7S4      V P E V C I L D P D G D M V R Y L R A T G R A R P V D G W A
UniRef90_UPI000462B3C5      P I V V L T A L D L E Y Q A V H E H L V D T R L H R H
UniRef90_D8LCX1      L P A M F G D V K F V C V G G S P N R M K A F A L F M H K E L E D I K D
UniRef90_G7J8G7      I S T I G I I A A M P E E V N P L L K R I G I Y Q R E K R E
UniRef90_K0I516      V M S A F E P E W Q A L I G R L G D A K T H K
UniRef90_R5B8Q3
UniRef90_UPI0002B49AB0
UniRef90_K7YZT7
UniRef90_V9LEZ3
UniRef90_B5EF02
UniRef90_H2EC51
UniRef90_I9WMS8
UniRef90_F8B2V7
UniRef90_Q9T0I8
UniRef90_H2P7L4
UniRef90_I0S2H5
UniRef90_B9LZ89
UniRef90_A0A031LJH2
UniRef90_F8AAT6
UniRef90_V4NUN2

```



UniRef90_E1G1G7
UniRef90_W9ARN4
UniRef90_UPI00041ADEC7
UniRef90_S2VWV3
UniRef90_R4U181
UniRef90_V4NE11
UniRef90_R4U6E4
UniRef90_B8ZST3
UniRef90_UPI0003716326
UniRef90_B4NAJ9
UniRef90_UPI0002C2E0ED
UniRef90_C5LA28
UniRef90_K9D2I3
UniRef90_T0R7S4
UniRef90_UPI000462B3C5
UniRef90_D8LCX1
UniRef90_G7J8G7
UniRef90_K0I516
UniRef90_C9LRU5
UniRef90_R5B8Q3
UniRef90_UPI0002B49AB0
UniRef90_K7YZT7
UniRef90_V9LEZ3
UniRef90_B5EF02
UniRef90_H2EC51
UniRef90_I9WMS8
UniRef90_F8B2V7
UniRef90_Q9T0I8
UniRef90_H2P7L4
UniRef90_I0S2H5
UniRef90_B9LZ89
UniRef90_A0A031LJH2
UniRef90_F8AAT6
UniRef90_V4NUN2

50 60 70 80

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

