

QUERY	N	G	P	F	P	M	F	T	S	90	P	G	W	V	R	Q	A	E	100	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	120
UniRef90_E6ULI5	NG	GK	L	P	M	F	T	S	S	C	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R7RXP3	GG	ER	L	P	L	M	T	S	S	C	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R1AQL8	GG	ER	L	P	L	M	T	S	S	C	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R6W4F8	NG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_E7GL24	GG	GL	V	L	P	L	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R6YF12	GG	GT	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_R6NHD1	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R5BD93	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R5Y333	GG	GA	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_UPI0002E1424A	GG	EN	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_N2AQT5	GG	GL	V	L	P	M	M	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_I7L6X3	NG	GF	P	F	P	M	F	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_A0A017RXN1	GG	GR	L	P	L	I	T	S	S	C	P	S	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_W4DA90	GG	EN	L	P	L	M	T	S	S	C	P	S	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_D1JG47	GG	GL	V	L	P	L	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_B8D2G3	NER	RL	P	L	I	T	S	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_F6CJU4	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_A5D0Q2	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_UPI00037F52EB	GG	GT	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_R7K8T8	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R5PT62	KAV	L	P	M	I	T	S	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_T0IMF2	GG	GT	L	P	L	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_K1YKE5	NG	GK	L	P	M	L	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_A1HP37	GG	GK	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_D4JT97	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_I6YUQ4	GG	GL	V	L	P	M	F	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_X8IRI9	GG	GL	V	L	P	M	F	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_H2J6C6	GG	Y	M	P	M	L	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_R6Q2K7	NDN	N	L	P	M	I	T	S	S	C	P	A	W	I	R	Q	A	E	N	Y	Y	P	E	N	I	G	H	L	S	S	C	K	K	P	P	Q	Q	F	GG		
UniRef90_T4VW20	NKN	N	L	P	L	L	T	S	S	C	P	A	W	I	R	Q	A	E	N	Y	Y	P	E	N	I	G	H	L	S	S	C	K	K	P	P	Q	Q	F	GG		
UniRef90_L0KCP1	KES	N	P	Q	L	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_K6T0H6	NG	P	F	P	M	F	T	S	S	C	P	S	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_S6F281	NG	P	F	P	M	F	T	S	S	C	P	S	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_R6GX16	NA	K	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_UPI0003643B76	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_R5MHM6	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_Q67JF9	GG	P	L	P	L	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	N	M	L	E	N	L	S	S	C	K	K	P	P	Q	Q	F	GG	
UniRef90_B1I0Z7	GG	GL	V	L	P	Q	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_A4J526	GG	GL	V	L	P	M	I	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	F	L	L	N	N	L	S	S	A	K	K	P	P	Q	Q	F	GG
UniRef90_I0AGY6	GG	S	L	P	M	F	T	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	I	L	D	H	L	S	S	C	K	K	P	P	Q	Q	F	GG		
UniRef90_A5MZH3	GG	P	F	P	M	F	T	S	S	C	P	A	W	I	R	Q	A	E	N	Y	Y	P	E	L	L	E	N	L	S	S	A	K	K	P	P	Q	Q	F	GG		
UniRef90_A4J9N7	NKT	L	P	L	I	T	N	S	S	C	P	A	W	V	R	Q	A	E	N	Y	Y	P	E	L	L	I	H	V	P	S	S	A	K	K	P	P	Q	Q	F	GG	
UniRef90_C6J5D7	GEN	L	P	L	M	T	S	S	S	C	P	G	W	V	R	Q	A	E	N	Y	Y	P	E	D	M	M	E	N	L	S	S	C	K	K	P	P	Q	Q	F	GG	
UniRef90_R6QXM4	KEN	L	P	L	I	T	S	S	S	C	P	A	W	V	R	Q	A	E	N	Y	Y	P	E	N	L	L	N	H	L	S	S	C	D	S	P	M	E	M	GG		
UniRef90_G2FR14																																									

QUERY	T	A	S	K	T	Y	Y	P	S	S	G	L	D	P	K	N	V	F	T	V	T	V	M	P	C	T	S	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K			
UniRef90_E6ULI5	A	V	L	K	S	Y	Y	A	Q	K	N	G	L	D	D	K	N	V	F	T	V	T	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K		
UniRef90_R7RXP3	A	L	I	K	S	H	Y	L	A	E	K	L	G	V	D	D	K	N	V	V	V	V	S	I	M	P	C	V	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R1AQL8	A	V	I	K	S	Y	Y	A	E	K	N	N	I	D	D	P	K	N	V	V	V	V	S	I	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R6W4F8	A	I	V	K	S	Y	Y	A	E	K	M	N	G	I	D	D	P	A	K	I	L	M	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_E7GL24	A	I	L	K	S	Y	Y	A	E	K	K	A	G	I	D	D	P	K	D	I	V	S	V	S	I	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_R6YF12	A	I	L	K	S	Y	Y	A	S	K	A	G	I	A	D	P	P	K	K	M	F	V	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_R6NHD1	A	L	I	K	T	W	Y	A	E	T	H	N	I	D	D	P	K	D	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R5BD93	A	V	T	K	T	Y	F	A	Q	K	N	D	L	D	D	P	R	D	I	V	S	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R5Y333	A	T	L	K	T	W	Y	A	Q	K	M	D	I	D	D	P	A	K	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_UPI0002E1424A	S	I	A	K	S	Y	F	A	E	K	M	N	I	D	D	P	K	N	L	V	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_N2AQT5	A	V	T	K	T	Y	F	A	E	K	M	G	L	D	D	P	K	D	I	V	C	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_I7L6X3	A	L	I	K	T	W	Y	A	Q	K	N	N	I	E	D	P	K	D	I	F	V	V	G	I	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_A0A017RXN1	T	I	A	K	T	Y	L	A	D	K	M	G	L	D	D	P	E	K	L	V	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_W4DA90	A	M	V	K	S	F	F	A	K	K	A	G	I	D	D	P	K	N	M	V	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_D1JG47	S	L	A	K	T	Y	F	A	E	K	A	D	M	D	D	P	K	K	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_B8D2G3	A	L	A	K	T	Y	Y	P	E	N	N	G	I	D	D	P	E	D	V	F	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_F6CJU4	A	L	V	K	T	Y	Y	A	Q	K	V	G	V	D	D	P	K	D	M	V	V	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_A5D0Q2	A	L	A	K	T	Y	Y	A	Q	K	E	G	I	D	D	P	A	N	I	F	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_UPI00037F52EB	A	L	A	K	T	Y	Y	A	Q	K	A	G	I	D	D	P	A	N	I	F	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R7K8T8	A	V	C	K	T	Y	F	A	E	K	M	G	I	D	D	P	K	N	I	V	V	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R5PT62	A	I	L	K	S	Y	Y	A	Q	K	F	N	I	D	D	P	S	K	I	Y	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_T0IMF2	A	L	A	K	S	Y	Y	P	E	K	A	G	I	D	D	A	A	K	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_K1YKE5	A	V	V	K	S	Y	F	A	G	K	N	K	I	D	D	P	K	K	I	F	N	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_A1HP37	A	L	A	K	T	Y	Y	A	E	R	V	G	I	D	D	P	K	D	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_D4JT97	A	I	T	K	T	Y	W	A	K	K	M	G	L	D	D	P	K	N	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_I6YYQ4	A	I	L	K	S	Y	Y	A	K	K	M	G	L	N	D	P	A	D	R	I	F	V	S	V	M	P	C	T	V	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_X8IR19	A	V	T	K	S	Y	Y	A	E	V	M	G	I	P	D	A	D	R	I	V	S	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_H2J6C6	A	I	A	K	T	Y	Y	A	Q	K	A	G	I	D	D	P	K	D	L	V	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R6Q2K7	A	L	L	K	T	Y	Y	A	K	K	E	E	I	D	D	P	S	K	M	F	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_T4VW20	A	I	A	K	N	Y	F	T	S	K	I	N	I	S	D	P	S	K	D	I	V	S	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_L0KCP1	P	L	A	K	T	Y	Y	A	E	T	K	D	L	E	A	E	D	I	Y	T	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K		
UniRef90_K6T0H6	A	A	S	K	T	Y	Y	P	E	T	E	G	L	N	D	P	S	K	D	V	F	T	V	T	V	M	P	C	T	S	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_S6F281	A	A	S	K	T	Y	Y	P	E	T	Y	D	I	D	P	S	R	V	F	T	V	T	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K		
UniRef90_R6GX16	A	V	M	K	T	Y	Y	A	Q	K	L	G	I	D	D	P	A	K	M	V	V	V	T	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_UPI0003643B76	A	L	V	K	T	Y	Y	A	E	K	S	G	L	K	A	E	D	L	V	S	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K		
UniRef90_R5MHM6	A	T	M	K	T	W	Y	A	K	K	L	N	M	D	P	S	K	M	V	V	V	G	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K		
UniRef90_Q67JF9	A	L	A	K	T	Y	Y	A	E	K	A	G	I	D	D	P	A	D	M	V	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_B1I0Z7	A	L	A	K	T	Y	Y	A	K	K	K	A	I	D	D	P	A	D	V	F	V	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_A4J526	A	L	V	K	S	Y	Y	A	E	K	K	A	I	D	D	P	A	N	I	V	S	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_I0AGY6	A	V	L	K	T	Y	Y	A	K	K	M	G	I	D	D	P	K	D	I	F	V	V	S	V	M	P	C	T	V	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_A5MZH3	T	A	T	K	T	Y	Y	P	S	L	S	G	L	E	A	K	D	I	Y	T	V	T	V	M	P	C	N	D	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K		
UniRef90_A4J9N7	T	I	A	K	T	Y	Y	A	E	K	N	G	L	D	D	P	A	D	N	I	V	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_C6J5D7	A	M	I	K	S	Y	F	A	E	Q	T	M	G	I	D	D	P	G	N	I	V	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_R6QXM4	S	L	I	K	T	Y	F	A	E	K	N	N	I	D	D	P	K	N	I	V	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_G2FR14	V	L	T	K	S	Y	Y	A	K	T	Y	G	I	D	D	P	Q	K	I	T	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_D9SP17	A	I	A	K	S	Y	L	A	E	K	L	G	V	D	D	P	K	K	M	V	V	V	S	V	M	P	C	T	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R5I3X9	A	I	A	K	S	Y	F	A	D	K	L	G	V	D	D	P	R	K	D	L	V	V	V	S	V	M	P	C	L	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K
UniRef90_D9QTQ6	T	L	A	K	T	Y	Y	A	E	Q	E	D	I	D	D	P	E	D	I	F	T	V	S	V	M	P	C	C	A	K	K	F	F	E	A	A	R	D	R	P	Q	M	E	K	
UniRef90_R6XM22	A	L	I	K	T	Y	Y	A	E	K	N	N	I	D	D	P	E	K	L	Y	V	V	S	V	M	P	C	I	A	K	K	F	F	E	A	A									

QUERY	D	G	L	R	D	I	D	A	V	L	T	T	R	E	L	A	K	M	I	K	D	A	K	I	P	F	A	K	L	190	S	E	A	D	P	A	M	G	E	E	200					
UniRef90_E6ULI5	T	G	Y	P	D	D	V	V	L	T	T	T	R	E	L	A	Q	M	I	K	E	A	G	I	D	F	N	K	L	E	D	S	K	Q	E	D	D	D	P	M	G	E	E			
UniRef90_R7RXP3	E	N	L	Q	D	V	V	L	T	T	T	R	E	L	A	Q	M	I	K	E	A	G	I	D	F	F	K	L	P	D	E	E	E	F	F	D	D	D	P	L	L	L	G	E	E	
UniRef90_R1AQL8	T	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	Q	M	I	K	E	A	G	I	D	F	F	V	N	L	P	D	E	E	E	F	F	D	D	D	P	L	L	L	G	E	E
UniRef90_R6W4F8	N	G	L	Q	D	V	V	L	T	T	V	R	E	L	A	R	M	I	K	Q	A	G	I	D	F	F	A	R	L	P	D	E	E	D	F	D	S	L	L	L	G	E	E			
UniRef90_E7GL24	N	E	L	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	Q	A	G	I	D	F	F	A	R	L	P	D	E	E	D	S	E	F	Y	D	D	P	L	L	L	G	E
UniRef90_R6YFI2	E	E	L	D	N	V	V	L	T	T	T	R	E	L	A	R	M	I	K	Q	A	G	I	D	F	F	V	E	L	P	D	E	E	D	S	E	F	Y	D	D	D	P	L	L	L	G
UniRef90_R6NHD1	A	G	V	P	D	V	V	L	T	T	V	R	E	L	A	R	M	I	K	R	A	G	I	D	L	T	M	L	P	D	E	E	K	F	F	D	P	T	M	D	V					
UniRef90_R5BD93	S	G	Y	R	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	S	A	G	I	D	S	F	V	H	L	P	D	E	E	T	F	D	D	S	M	L	L	L	G	E	E	
UniRef90_R5Y333	S	G	Y	A	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	S	A	G	I	D	S	F	N	S	L	P	D	E	E	T	F	D	D	S	P	L	L	L	G	E	E	
UniRef90_UPI0002E1424A	N	G	V	K	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	E	A	G	I	D	F	F	N	S	L	Q	N	E	E	E	F	F	D	D	S	P	L	L	L	G	E	E
UniRef90_N2AQT5	A	G	V	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	E	A	G	I	D	R	F	F	N	S	L	P	D	E	E	T	F	F	D	D	Q	P	L	L	L	G	E
UniRef90_I7L6X3	A	G	F	T	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	D	K	V	G	I	D	R	F	N	S	L	P	D	E	E	T	F	F	D	D	Q	P	L	L	L	G	
UniRef90_A0A017RXN1	E	G	K	K	N	V	V	L	T	T	T	R	E	L	A	D	M	L	L	E	A	G	I	D	F	F	A	S	L	P	D	E	E	D	F	F	D	D	N	P	L	L	L	G		
UniRef90_W4DA90	E	G	L	Q	D	V	V	L	T	T	T	R	E	L	A	S	M	L	K	E	A	G	I	D	D	F	V	N	L	K	D	E	E	A	F	F	D	D	P	L	L	L	G			
UniRef90_D1JG47	S	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	S	M	L	K	E	A	G	I	D	D	F	A	S	L	P	D	E	E	E	A	F	F	D	D	P	L	L	L	G		
UniRef90_B8D2G3	S	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	K	M	F	K	Q	A	G	I	D	D	F	V	N	L	P	D	E	E	E	A	Y	D	K	P	L	L	L	G			
UniRef90_F6CJU4	S	G	Y	K	D	V	V	L	T	T	S	R	E	L	A	K	M	F	K	Q	A	G	I	D	D	F	A	S	L	P	D	E	E	G	E	Y	D	D	A	P	L	L	L			
UniRef90_A5D0Q2	S	G	Y	Q	D	V	V	L	T	T	S	R	E	L	A	G	R	M	F	K	Q	A	G	I	N	I	A	S	L	P	D	E	E	E	Y	D	D	A	P	L	L	L				
UniRef90_UPI00037F52EB	S	G	F	A	D	V	V	L	T	T	T	R	E	L	G	R	M	L	K	Q	A	G	I	D	F	A	A	L	P	P	E	E	E	D	Y	D	E	P	L	L	L					
UniRef90_R7K8T8	A	G	V	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	R	A	G	I	D	A	Y	T	E	L	P	E	E	E	K	F	F	D	D	P	L	L					
UniRef90_R5PT62	D	G	L	R	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	Q	A	G	I	D	E	F	N	K	L	P	D	E	S	E	E	F	D	D	P	L	L					
UniRef90_T0IMF2	S	G	Y	R	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	Q	A	G	I	D	D	F	N	K	L	G	N	E	E	F	D	D	A	P	L	L						
UniRef90_K1YKE5	N	G	I	Q	D	V	V	L	T	T	T	R	E	L	A	R	M	I	R	M	R	G	I	D	D	L	N	K	L	N	P	E	E	E	A	D	D	A	P	L	L					
UniRef90_A1HP37	S	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	R	M	I	R	E	A	G	I	D	D	F	A	G	L	P	P	E	E	E	Y	D	D	A	P	L	L					
UniRef90_D4JT97	A	G	V	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	N	R	A	G	I	D	R	F	R	D	L	P	D	E	E	E	V	A	D	S	P	L	L					
UniRef90_I6YYQ4	D	K	M	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	N	R	A	G	I	D	R	F	R	D	L	P	D	E	E	E	V	A	D	S	P	L	L					
UniRef90_X8IRI9	D	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	R	M	I	N	R	A	G	I	D	R	F	R	D	L	P	D	E	E	E	V	A	D	S	P	L	L					
UniRef90_H2J6C6	S	G	Y	K	D	V	V	L	T	T	T	R	E	L	A	K	M	I	R	E	S	G	I	D	E	F	N	K	L	P	E	G	E	Y	D	D	N	P	L	L						
UniRef90_R6Q2K7	S	G	Y	K	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	Q	A	G	I	D	D	F	V	N	L	E	D	D	A	K	F	D	D	P	L	L						
UniRef90_T4VW20	Q	D	V	V	L	T	T	R	E	L	A	R	M	I	K	Q	A	K	I					D	D	F	V	N	L	E	D	D	A	K	F	D	D	P	L	L						
UniRef90_L0KCP1	D	G	L	R	D	V	V	L	T	T	T	R	E	L	A	K	M	I	K	E	S	G	I	D	D	F	V	N	L	E	D	D	E	N	F	D	D	P	L	L						
UniRef90_K6T0H6	S	G	T	Q	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	E	A	G	I	D	K	F	A	E	L	E	D	T	E	Y	D	R	M	M	G	E	E					
UniRef90_S6F281	N	N	L	R	N	I	D	A	V	L	T	T	R	E	L	A	K	M	I	K	D	S	K	I	D	F	A	N	L	E	D	D	G	E	A	D	P	A	M	G	E					
UniRef90_R6GX16	A	G	V	P	D	V	V	L	T	T	T	R	E	L	A	R	M	L	K	R	N	S	I	E	L	N	C	V	E	D	S	A	F	D	D	P	L	L								
UniRef90_UPI0003643B76	S	G	F	R	D	V	V	L	T	T	T	R	E	L	A	A	M	I	Q	E	S	A	G	I	N	F	E	A	L	P	D	E	E	E	F	D	D	A	P	L						
UniRef90_R5MHM6	S	G	Y	P	D	V	V	L	T	T	T	R	E	L	A	A	M	I	Q	E	S	A	G	I	Y	F	K	H	L	P	D	E	E	E	F	D	D	A	P	L						
UniRef90_Q67JF9	S	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	R	M	F	R	Q	A	G	I	D	L	P	S	L	P	D	E	E	E	F	D	D	N	P	L							
UniRef90_B1I0Z7	S	G	Y	H	Q	D	V	V	L	T	T	S	R	E	L	A	R	M	F	R	Q	A	G	I	D	D	F	A	N	L	P	D	E	E	D	Y	D	A	P	L						
UniRef90_A4J526	S	G	Y	Q	D	V	V	L	T	T	T	R	E	L	A	R	M	L	R	E	I	G	I	D	D	W	D	N	L	S	D	D	D	Y	D	A	P	L								
UniRef90_I0AGY6	E	V	L	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	E	A	G	I	D	D	F	N	D	L	P	E	S	E	F	D	N	P	L								
UniRef90_A5MZH3	N	G	M	R	N	V	V	L	T	T	T	R	E	L	A	K	M	I	K	E	A	A	K	I	D	F	N	S	L	E	D	S	E	A	D	A	P	L								
UniRef90_A4J9N7	D	A	H	M	R	N	V	V	L	T	T	T	R	E	L	A	R	M	I	K	E	A	G	I	D	F	V	N	L	K	G	E	T	F	D	N	P									
UniRef90_C6J5D7	E	S	L	P	D	V	V	L	T	T	T	R	E	L	A	R	M	I	K	E	A	G	I	D	D	F	V	N	L	K	G	E	T	F	D	N	P									
UniRef90_R6QXM4	N	G	L	Q	N	I	D	Y	S	L	T	T	V	K	E	Y	A	E	M	L	K	R	H	A	D	F	A	T	L	E	D	A	Q	F	D	K	L									
UniRef90_G2FR1																																														

QUERY UniRef90_E6ULI5 UniRef90_R7RXP3 UniRef90_R1AQL8 UniRef90_R6W4F8 UniRef90_E7GL24 UniRef90_R6YF12 UniRef90_R6NHD1 UniRef90_R5BD93 UniRef90_R5Y333 UniRef90_UPI0002E1424A UniRef90_N2AQT5 UniRef90_I7L6X3 UniRef90_A0A017RXN1 UniRef90_W4DA90 UniRef90_D1JG47 UniRef90_B8D2G3 UniRef90_F6CJU4 UniRef90_A5D0Q2 UniRef90_UPI00037F52EB UniRef90_R7K8T8 UniRef90_R5PT62 UniRef90_T0IMF2 UniRef90_K1YKE5 UniRef90_A1HP37 UniRef90_D4JT97 UniRef90_I6YYQ4 UniRef90_X8IR19 UniRef90_H2J6C6 UniRef90_R6Q2K7 UniRef90_T4VW20 UniRef90_L0KCP1 UniRef90_K6T0H6 UniRef90_S6F281 UniRef90_R6GX16 UniRef90_UPI0003643B76 UniRef90_R5MHM6 UniRef90_Q67JF9 UniRef90_B1I0Z7 UniRef90_A4J526 UniRef90_I0AGY6 UniRef90_A5MZH3 UniRef90_A4J9N7 UniRef90_C6J5D7 UniRef90_R6QXM4 UniRef90_G2FR14 UniRef90_D9SP17 UniRef90_R5I3X9 UniRef90_D9QTQ6 UniRef90_R6XM22 UniRef90_E3PX67 UniRef90_K5Z5W7 UniRef90_R7BUM4 UniRef90_A5FSK7 UniRef90_R5JFZ6 UniRef90_C2CF68 UniRef90_UPI0004783D1D UniRef90_UPI00036CD2F8 UniRef90_I8SDD4 UniRef90_M5DYA8 UniRef90_F8F287 UniRef90_F6B965 UniRef90_UPI000237CC08 UniRef90_Q0AY73 UniRef90_K2DYW7 UniRef90_R5UT24 UniRef90_V9H4W4 UniRef90_R7K332 UniRef90_B1BAX7 UniRef90_F7YWR9 UniRef90_UPI000471EBF3 UniRef90_U7ULF2 UniRef90_E3DPJ1 UniRef90_N9XJ66 UniRef90_E3CY36 UniRef90_UPI00047E6A58 UniRef90_R5W6I1 UniRef90_UPI0004768D08 UniRef90_UPI00040BB8C8 UniRef90_UPI00046FD136 UniRef90_E3PWZ9 UniRef90_E7GCS1 UniRef90_X5D872 UniRef90_Q9WY44 UniRef90_Q180F8 UniRef90_UPI000374359C UniRef90_I4AE38 UniRef90_C0JZZ4 UniRef90_F6B4A4 UniRef90_Q6AR16 UniRef90_A5D2H3 UniRef90_B1I0U3

210 220 230 240

Y S G A G A V I F G G A T G G G V M E A A A L I R S A K D F A E N A E L E D K S I I E Y Y T Q V R R
A S G A G A V I F G G A T G G G V M E A A A L I R T V G E L L S N G K P A E D K S I I E Y Y T Q V R R
S T G A A A V I F F G G A T G G G V M E A A A L R R T V V A E D D L S T T G G K Q D D E E K K I I E D D E F F T V Q Q V R R R
S T G A A A V I F F G G A T G G G V M E A A A L R R T V V A E D D L S T T G G K Q D D E E K K I I E D D D F F T T A E A V V R R R
S T G A A A T I F F G G A T G G G V M E A A A L R R T A V E E T L T L T G G E E E L K K A K K I I D D D D F F F T T E A E A V V R R R
A T G A G A V I F F G G A T G G G V M E A A A L R R T A Y E E T L I L T G G E E E L K K A K K I I D D D D F F F T T E A E A V V R R R
S T G A A A V I F F G A T G G G V M E A A A L R R T A A D D T L L T G G K S L D D S R R N N V I L V D D I D D Y E A E D V V R R R
S S G A G A V I F F G G A T G G G V M E A A A L R R T V V E E K K I I T T G G Q A L D D P R N N V I L V D D I D D Y E A E D V V R R R
S T G A G A V I F F G G A T G G G V M E A A A L R R T A Y E E W L T T K G N T A L D E A D Q D D D F F F T T E A E A V V R R R
S T G A G A V I F F G G A T G G G V M E A A A L R R T A V E E T L T L A T G G H E A L E A D A V V I L V D D I D D Y E A E D V V R R R
Y T G A G A V I F F G G A T G G G V M E A A A L R R T A Y K L V T T G G K E L L A T N L E D D E F F T Y T P V V R R R
S T G A G T I F F G G A T G G G V M E A A A L R R T A Y E E L V T T G G E E L L P G R L E F F T T E A E A V V R R R
Y S T G A G T I F F G G A T G G G V M E A A A L R R T V Y E E V V T T G G K E L L E D N L F F T T E A E A V V R R R
S T G A G E I F F G G A T G G G V M E A A A L R R T V Y E E V V T T G S T L L S J S L D D I D D F F T T E A E A V V R R R
S T G A A V I F F G G A T G G G V M E A A A L R R T A Y E E V V T T G S T L L S J S L D D I D D F F T T E A E A V V R R R
G T G A G L I F F G G A T G G G V M E A A A L R R T V V E E V V T T G G K D A L P S Q S L D D I D D F F Y E K E E V V R R R
A T G A G A I F F G G T T G G G V M E A A A L R R T A S D I L A V E G K N L E A N K V L V I L V D D I D D F F Y E K E E V V R R R
S T G A A V I F F G G T S G G G V M E A A A L R R T V Y E V V T T G G K N L E A N K V L V I L V D D I D D F F Y E K E E V V R R R
R S S G A G K I F F G G S T G G G V M E A A A L R R T A Y E N M L T T G G R K E L L A D N L K K F F E H P L N V R R R
S T G A G V I F F G G A T G G G V M E A A A L R R T V A E L V T T G G K E L L E A D E C C K K F F E H P L N V R R R
G T G A A V I F F G G A T G G G V M E A A A L R R T A V W K L L T T G G E A A D E P V I V V I L V D D I D D F F K T N D N V R R R
S T G A A A I F F G G A T G G G V M E A A A L R R T A Y F K L S T G G K E L L E N N L D D D D L T V N D N V R R R
Y T G A G V I F F G G A T G G G V M E A A A L R R T A Y E K K L V T T G G D E L L E N N V I L V D D I D D F F K T N D N V R R R
S T G A A D I F F G R T G G G V A E A A A L R R T A Y E W I T T G G E E L L K D V L D D D D F F E A L Q S V V R R R
A T G A A A I F F G G V T T G G G V M E A A A L R S V S E E L V T T G G K P L D D S L D D S D D F F F K S V V R R R
S T G A A A D I F F G G T T G G G V L E A A A L R R T S Y E W V V T T G G Q E L L D D S D D F F F K S V V R R R
A T G A G T I F F G G T T G G G V M E A A A L R R T V Y E K L T T D E E L L P R L V D D D D L D D S E V V R R R
Y T G A G A V I F F G G T T G G G V M E A A A L R S A K D F F V E G E Y L L E N N I L V D D I D D F F Y K Q Q V V R R R
Y T G A G A I F F G G A T G G G V M E A A A L R S A K D F F V E G E Y L L E N N I L V D D I D D F F Y K Q Q V V R R R
A S S A G N M F F G G T T G G G V M E A A A L R R T V A A V V T T G G K N L E E K Q S L D D I D D F F N A E V V R R R
S T G A G A V I F F G G A T G G G V M E A A A L R R T V Y E E T V T T G A C A E A P S Q S L D D I D D F F L N D E V V R R R
S T G A A T I F F G G A T G G G V M E A A A L R R T A A K L I T G A A E A P S P I I F F F Q E D I V R R R
G S T G A G Q I F F G G A T G G G V M E A A A L R R T A Y E L V T T G R T A L D D R N I D D N D F F E T I V R R R
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H Y H F I E V I M A C C P G G G C V I N T G G G G Q Q P H V N P S A K D R Y T K D V K A E R A K A
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I L Y E Q E D S K S P L R K K S H H N N P Y K I V K M L Y E E E F F L G G E P P N G S H H K A H H E L L L H
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L L Y Q E E D R N M P K R C K K S H H N N P Y K I V K M L Y E E E F F L G G E P P N G S H H K A H H E L L L H
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H L N E V W K A A L A D K N R F T I V V Q T A P A S V R R V A I L L G E E F F G G A E L G G T L T S
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T T E K I W F A E K A G I D P K K M V T V C V T P C C T A K K A E E I K R K E W H I
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A R K L T A F F R E L L G V H H V F D E T F S R D F S L L L E S S Q R E F V I Q R R Y F N E
S R R L C G F L K L G V H Y V F D T T I A S D F S L L L E S S Q R E F V I Q R R Y F N E
A R K L T S F L K H L G V H H V F D T A F S A D D L L T I V M E E E T S G N K E E F F L E E K R L L C E E K
F R K L T T F F K S L G V K A I F D T S F S R D L L T L V E S C N E F I T R Y R Y K Q
I K K L S T F F K S L N I D Y I F D S S F S R D L L S L L E S S A A E F V V A R Y K S
V R L S T F F K Q L G S D R V Y D T S I A R D L L S L L E S S C R E F V V K R H S N
T G K I V A A A R K M G F K Y V F D I N Y G A D Q T I I E E E G T E F M A R L N H
T G K L Y G A M N Q A G F K I F D C N F A A D D L T I V M E E E T S G N K E E F F L E E K R L L C E E K
E G K V Q A S A R K L G F E K V F D T D F G A D V V T I V M E E E T S G N K E E F F L E E K R L L C E E K
S R R L C G F L K S L G V H Y V F D A V A D L L T I V L E E G Q K E F V K R R S E A
T G K M V R A L R M M G F D R L Y D T A F A A D L T V V M E E E T S G N K E E F F L E E K R L L C E E K
S R R L C G F L K S L G V H Y V F D M A I A A D F S I L L E S S Q K E F V R R R Y H H Q
S R R L C G F L K S L G V H Y V F D T S I A A D L S L L E S S Q K E F V R R R Y H H Q
L R L T G Y F K S M G A D M V L A E D L L S L L V I E S A K E F V R R R Y H H Q
E D K M A A V L K N L G A D Y V F D T T F G A D L L T I T E E T A S E L V Q R R I T S S
T K K I I G A A R E I L G F R Y V E D V N F G G D I L N I L T E A H E L L H K L L S R E
A K H L S G Y F R S L G A D Y V L N K I A D D L A L L T E C R A N E F V E R F R F
E G K M V S A L K K I G F D Y C F D T T F G A D L L T I V M E E E T S G N K E E F F L E E K R L L C E E K
H R K L V T F L K S L G V N H V I F D T S F S R E F A L T I E S A E E F J A R Y K Q K
T E Q M Y G A L K A A G F K I M D V N F A A D N T I L T E S A G T E L I H K I Q K
A G C L V T L F K S L G A D K V V E M S L A E D L A L M E S S Q F E F V E R Y R N E
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A R H L A G Y F R S L G V D Y V L C T K V A D D L A L L E S C Q K E F V E R Y R Q R
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	90	100	110	120
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UniRef90_F0ZB08	D Q P L P M L A S A	C C C C C	P G W V C C Y A E K T H G S Y I P Y I L	S S S C K K S P P Q Q M F M F G
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S G F R D L D A T I N T T R E E L A Y M M K K A G I D L P K I A N G K R D A V M G E L
E Y A G E T D C V I T T N R E E F A R L I R A C H I N M A T L E A V P A D T L Y Q S E
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Y Q T R D V D C C V I T T T G E E V L K L L E Q E G V S S L A D V D P P A A L D T L L G G S
Y Q T R D V D C C V I T T T G E E V L K L L E Q E G V S S L A D V D P P A A L D T L L G G S
S V E R E V D C C V L T T S G E E M L D L F K M K N I D F K S L E E A P L D R L L T N
S G F K D L D A T I N T T R E E L A W L I K K A G I D F N S L P D D E A D D P A L G E L
K G Y R E T D L V I T T T R E E L V K L I K K K G I D F K S L P D D T P F C Y S E
E R V T E V D S V L T T T G E E V L D L I Q L K A V D L T T L E E S P V D N L L S N
A G Y R D I D A T I N T T R E E L A Y M I K A A G I D D F A A L P D E S D P V L L G E
E A T P D D A V L T V R E E F G R L L R L V G V D C F A A L P E A S F D S P L L G L
L R I T E V D S V L T T T G E E V L D L I K L K A V D I E T L D D S P L D K M L T N
H Q T R D V D C V I T T T G E E V F K L L E E E G V S D F K A E L E E S P L D S L L Y S N
L R I T E V D S V L T T S G E E V L E L I Q L K S V D F K A E L E E S P L D S L L Y S N
S G Q Q D I D A T L T T T R E E L A Y L I R K A G I D F A S L P D D G E R D S L M G E N
N M I T S E V D S V L T T T G E E V L E L I Q S K S V D F F K L E E S P L D R L L T N
K E V T S E V D S V L T T T G E E V L D L I Q S K S V D F F K L E E S S L D R L L T N
D V Y R D V D C C V I T T S G E E V E A M L A K E Q V S L S E I E P Q E Y N R V F P F
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S E T R D V D C V I T T S I E L E Q M L T Q Q D K S L Q D F A D K G E I E K P F K E
E N I R D M D Y V I T V R E E L S N W I K E D K I E F K A L Q G A E F D S I L L S R
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Y T G G A G V I F G G T T G G V V T E A A V L R R S I A E N K K T P K N G L K A E I E F F I G A R
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U N I R E F 9 0 _ H 3 K B Y 4 S S G A G A L F F G A T G G V V M E A A A V R T M R A V T G V D D K T G L A P S F A V R
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U N I R E F 9 0 _ U P I 0 0 0 3 3 1 6 2 1 8 Q E T T S H R G G G S G G Y L E H V F R Y A A R E L F G I H V D E V T T Y R K A L R R
U N I R E F 9 0 _ U P I 0 0 0 3 2 8 D 1 8 7 A P A E S H R G G G S G G Y L E H V F R Y A A R E L F G I H V D E V T T Y R K A L R R
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F I R T R G N A P R E A G T S G G L L Y H I L K S R A A Q T P G A E I V H T R G R
R S S A G K I F G A T G G V M E A A L R T A Y K K L T G N E L T N F K I T A V R
T S G A G V I F G V S G G V S E A V L R Y Y K E R T A L S L K N S Y L G V R
A N H V G S S S G G Y L H H V L T A L R L R H D P L E T R T R V D A S M G K N Q
V T G D G C T K C A R R C P V G A I T G K A K T A H V I D M D K C I R C R T C M
T T I N S F L F S N S P K H S P C N S L H L N R Y A S K H E G A T I H T S R G R
S S G A A D I F A N S G G V M E A A V L R T A Y E I V T G K E L P N L H I T E P I M
K K G S R N P S R I A G S S G G L L H H I L Q T K A A Q I A G S E L Q I N I R G R
A A S L R N V R G S S G G H L E H V F R S A A R E L F G A E V P P Q R L E T V R
S S G A G V I F G V T G G V T E A V I R R V L D D K S T T L R T I A F N G V R
G T G A A Q I F G A T G G V M E A A L R T A Y E V V T G K T P R L D F E E V R
K T L H D M L F S K H A S K D Q Y L Y H V L K T F E S R N P G S E I V T Q R G R
A S S D G R G F A V S G G V A K A V V N C I K A K E P E R E
L T F E E Q G G S S S G G Y M S Y V M S Y A A E M L G I H D A N S F V T K V D
E S T T T K T S P I P G T S D G Y L I H I A T H I L T L H P T S T L R I E P G R
K S G A G V I F G V T G G V T E A V I R R L P E D K S A T E L R S I A F N G V R
Y S G A G T I F G A T G G V M E A A V R T A Y F Y A T G Q K L P K V E L E V A R
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Y T G A G L I F G A T G G V M E A A L R T A Y Y F I T G N N Y E A V K F E S T R
A A W L N C E G S S S G G Y A L Q Y L L H L Q K M H E N T E I R T I N G R
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A T A G R G Y A C A G G V A D A I E K C V H E Y Y P
S S T A G R I Y A R T A G V S K A V I T D T L N R I R P D K E I V G V L T Y R T L R
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Y A W S N D S G S A S G G Y S H N Y L T I M K N H L M T K S P E L V E I K T I Y
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A T A T G R G Y A V A G G V A A I T N C I S E Y Y P
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K L F V A S V S P Q V R A S V A S T Y N V S E G E
E E V M S F I Y S D H K I P V L S I S P Q S L A S L A K S S S G S P S M R G
L H A V K E F I Q S G K E V I A S I A P S S Y P A V F D V I T S
Q I F Q L I Q A I K R G D K V V A A V A P A F V S Q F G D K V T
I L D L L K N N K T V I A A V A P A I I G Q F G N V T
V V Q G L D D P H P V Y A S V S P Q T R A N L A T A C G P G V S A Q Q
Q I Y Q L I K A I K S G K R I Y A A V A P S F V G Q F G A N S S
K V I A A V A P A I T G Q F G I D V S
V L D L I K N N Q K V F A L V A P A I S G Q F G D S V T
M D R V K G Y L R Q G F K T I I S I A P S Y L G V L E F E R
E V I D S I K G D K P V Y A L V A P A A E G Q F G I D I T
L E R V K G Y L A Q G F K T I I S I A P S Y A G V L D F D Q
V V R E L H E Y D G P V Y A L V A P A I S G Q F G P A D A S
V V Q E L H A Y D G P I Y A M V A P A V S G Q F G P D I T
L V D V V K A L V A G K R V Y A M I A P S A E G Q F G D G I T
V L D K I K N N E L V I A A V A P A I S G Q F G D E V T
Y I L D A I K L L R N G D N K I Y A I I A P S I T G Q F Q N A N
M T D V I N H I R D G K K V Y A L V A P A G E G Q F G K N I T M S
M V D V I N L L S D K P I Y A M I A P A I E G Q F G A T A T
Y I V D I L R A I L S G K K V Y A L V A P A I A S Q F K D V T
E M E Q Y L N E H E N I A M T L V F T I S P Q V R V I S L A A N Y E C H P V L F
I L D A I R I L K D S N K N V Y A V V A P S I A S Q F V Y A K
K N P I L S I S P Q T L A S L S A A Y A T A S S R P P
H I V Q L I Q D L K A E N R S V Y A L L A P S F V G Q F G L K V S
Q M I D V L N A L K N P A K K V A M V A P A I L G Q F G N D
Q V F D V L Q R L R E G E K M V A V V A P A I L G Q Y N A P
E A W K N L A R D T A L V V S I P P Q C R L S L A H Y Y D M S L E S F D
E F M K A M E K G Q K I F V A S I S H Q A R A S L S N A L H L S V A D V D
Q I L Q V A K M L K K E K T I A V L A P S F V G Q F G P Q V T
K Q C I N D E S I F L V A P S S R V V L A E H V N I P G N L C
I D K V K E L V T N K N V K K I V S I A P S Y I S A Y P D K
E V E K A K V L I Q S G D P V Y V S L A P S F I A N Y E N I G

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UniRef90_U4L106 T E L L T K S L G E K Q F E M V V D T N P F R Q L S L H Y A S E E V L D S L D D
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	90										100										110										120											
UniRef90_G1QBN8	E	P	R	V	P	M	L	T	S	A	C	P	G	W	V	Q	Y	A	E	H	M	L	G	H	P	L	P	H	L	F	M	A	K	S	P	K	Q	I	M	G		
UniRef90_R5BY26	G	N	L	P	F	L	L	T	S	C	C	P	S	W	I	M	M	T	Q	K	F	F	P	D	M	Q	D	N	I	F	S	R	E	L	T	P	M	V	A	T	A	
UniRef90_C5VP18	I	D	D	F	M	L	L	S	S	C	C	P	M	W	L	A	M	L	K	K	S	F	H	E	L	L	P	H	V	S	P	S	M	T	M	T	P	M	I	A	A	G
UniRef90_D1PM53	K	H	P	F	M	G	T	S	C	C	C	P	A	W	S	V	M	A	K	K	L	F	P	E	Y	A	D	C	I	S	M	T	M	T	P	M	V	L	T	A		
UniRef90_UPI0003B3A35C	K	L	P	F	M	G	T	S	C	C	C	P	A	W	S	V	M	A	K	K	R	D	F	P	E	Q	A	N	C	I	S	M	A	L	T	P	M	V	L	T	A	
UniRef90_UPI00037B0FB4	E	L	D	F	M	A	T	S	C	C	C	P	A	W	S	V	L	A	K	K	E	F	P	Q	F	K	D	N	I	S	M	A	L	T	P	M	V	L	T	A		
UniRef90_R6QXK4	G	E	V	P	F	L	L	T	S	C	C	P	A	W	S	M	L	G	K	K	Y	F	P	E	L	L	P	H	L	S	N	S	L	T	P	M	V	A	T	A		
UniRef90_L8X1G5	D	T	R	L	P	M	L	A	S	A	C	P	G	W	V	C	Y	V	E	K	A	H	P	E	M	L	P	F	L	S	R	T	K	S	P	Q	Q	V	M	C		
UniRef90_XOPP45																																										
UniRef90_E1QWH8	K	L	P	F	M	G	T	S	C	C	P	A	W	S	V	M	A	K	K	E	F	P	E	H	A	D	C	I	S	M	A	L	T	P	M	T	L	T	A			
UniRef90_Q891G1	G	K	K	Y	M	T	T	S	C	C	P	G	F	L	G	Y	I	E	K	K	F	P	D	Q	L	E	N	V	S	N	T	L	V	S	P	M	V	A	I	G		
UniRef90_C5FU93	A	P	N	R	P	L	L	T	S	C	C	P	G	W	I	C	Y	A	E	K	T	H	P	H	V	L	P	H	L	S	R	L	K	S	P	Q	A	L	T	G		
UniRef90_G2SWM6	D	T	D	F	L	L	T	S	C	C	C	P	V	W	S	M	I	R	N	I	Y	G	E	L	V	P	Y	M	P	G	A	V	S	P	M	I	A	A	G			
UniRef90_K9LCD4																																										
UniRef90_C3KWA6	K	D	D	L	M	I	T	S	C	C	C	P	M	W	L	A	M	V	R	V	Y	K	D	L	V	K	Y	V	S	P	S	V	S	P	M	I	A	S	G			
UniRef90_A5DS12	G	K	K	N	P	V	L	S	S	L	C	P	G	W	V	L	A	E	K	T	H	P	Y	V	L	P	Y	I	S	T	V	K	S	A	Q	I	T	G				
UniRef90_K7ZM33																																										
UniRef90_U4L106	E	R	K	R	P	L	L	T	S	A	C	P	G	F	I	C	Y	L	E	S	T	H	P	L	L	P	H	L	S	T	L	K	S	P	Q	A	L	T	G			
UniRef90_N2A8R6	P	D	A	F	Q	L	T	S	C	C	C	P	L	W	L	N	L	I	R	K	D	F	G	K	L	V	G	H	L	P	A	S	V	S	P	M	I	A	C	G		
UniRef90_R9M4L8	K	Q	P	W	M	G	T	S	C	C	C	P	A	W	S	V	M	A	K	K	L	Y	P	E	F	A	D	Y	I	S	M	A	L	T	P	M	V	I	T	A		
UniRef90_D2V7A2	G	K	G	P	V	F	A	S	A	C	C	P	G	W	I	C	Y	A	E	K	T	Q	P	E	L	L	P	S	I	S	T	V	K	S	P	Q	Q	I	M	G		
UniRef90_H0KTB5	N	L	N	Q	V	Q	L	T	S	C	C	P	G	F	V	L	Y	V	E	K	T	K	P	E	L	L	P	Y	L	F	N	I	K	S	P	Q	Q	I	T	G		
UniRef90_H2VT80	A	T	S	R	P	L	L	T	S	A	C	P	G	F	V	C	Y	A	E	K	S	H	G	E	L	L	P	R	I	S	K	I	R	S	P	Q	A	L	T	G		
UniRef90_M1Q4W8	H	A	K	L	P	L	L	T	S	C	C	P	G	W	V	N	F	E	E	Y	F	P	D	L	K	D	L	P	S	T	S	V	K	S	P	Q	A	M	F	G		
UniRef90_U5HB14	T	G	P	L	P	L	L	T	S	A	C	P	G	W	I	C	Y	A	E	K	T	H	G	E	L	L	P	F	V	S	N	V	K	S	P	Q	A	M	M	G		
UniRef90_R6RJY2	K	L	P	F	M	A	T	S	C	C	P	A	W	S	V	M	A	K	K	L	F	P	E	L	K	D	C	I	S	M	A	L	T	P	M	V	L	T	G			
UniRef90_Q5APK7	G	S	S	G	P	L	L	T	S	L	C	P	A	F	V	L	Y	A	E	K	T	H	P	Y	I	T	P	K	M	S	T	V	K	S	P	Q	Q	I	T	G		
UniRef90_D7GQG4	G	K	K	M	T	T	S	C	C	C	P	A	F	V	N	M	I	K	K	H	Y	P	E	L	L	I	D	N	M	S	T	T	V	S	P	M	C	A	V	S		
UniRef90_R7B288	G	K	K	M	T	T	S	C	C	C	P	A	F	V	N	M	V	K	K	H	Y	P	E	L	M	E	N	V	S	T	T	V	S	P	M	C	A	V	S			
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UniRef90_R5CS28	K	H	P	F	M	V	T	S	C	C	C	P	S	W	S	D	M	V	R	K	L	F	P	E	F	E	Q	N	I	S	V	A	M	T	P	M	V	L	T	A		
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A S W R D V D C V L T F F E E I A A L M G A F E I D P A E C E E E D I N D
V S W R D V D C V L T F F E E L T L M L A S S R N I T L S S L P P A H Y S T P F P D
A G I P D V D Y V L T T Q E E V T S M I K E A G L D F K K L T P E A P D A P F G I
D L Q G D I D F V L T F F E E L L K D I F D S L N I N S K M P E A D F S S E Y
D N V P D V D C V L T A R E L V T I L D E K D I A E V Y K S A A P T N W P F L G I
N G M P A V D A V L T T R E E F I W L I K H M G V I D F Q S L K P E A P D N P L G D S
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D G N R D V D Y S I S T T G E V N T M I T A S G T T L S R L A K E S N D T L L S P
S V R D V D C V L T T F E E V M G M F E A K G V I D F T K L E E H G S M H G
E E E P D V D C V L T A K E L I T L L E E C P I P P T L P Q E E P P N W P F I E E
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G E N G [C] R E [V] T T Q [L] G G K D V N V A N A E G L E D [C] R K M M K D A V K G K Y
E G [I] K F N P [L] R [V] S G P D Q [T] K R A M [I] M A K [V] G K [L]
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K F L K A V [Q] G N G V [T] E [C] K K L L S K A Q E G K L
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UniRef90_R5QNL0	G Q K F	M T T S	CC	P A Y F R A A Q V H I P	E I Q P Y V S S T K T P	M Y Y T A		
UniRef90_G9PZW7	K R P F	M T T S	CC	P A Y I Q A A R R H M P	E L T P H I S D T P T	M H F T A		
UniRef90_R6HDL7	E Q K Y	M T S	CC	P S F V N M I K K H V P	A A E S K I S Q T V S	P M V A C G		
UniRef90_I6MKV6								
UniRef90_R5TIB6	G K M D N	I I V T S	C	P A I V Y L V E K H Y P	M L I P Y L A P V V S	P M I A H G		
UniRef90_I6MKV7								
UniRef90_R5AHL1	G Q R D	V L I S	CC	H S I N L L I Q K Y Y P	D L L P Y L A D V A S	P M Q A H C		
UniRef90_V5E5A5	S R K R	P M L A	CC	P G W I C Y A E K T H G	E L L P Y L A S T T K S	P M Q Q V A G		
UniRef90_C4Z1N7	G K K	L T T S	CC	P A F V N L I K K Q Y P	E L A E H I S S T T I S	P M F A L S		
UniRef90_W0FJ16	G R K	M T T S	CC	P A F I S M L R H H F P	E Y R K Y K S N T V S	P M V A V S		
UniRef90_K4E0K9	R D K L	P M I V S	CC	P G W V C Y C E K Q G S	A I L P L L C P V M S	P M Q G I A G		
UniRef90_C5CFY5		R L G F I T S	CC	P A F K R M I E T R F P	E L V E H I S S S L S	P M H M L A		
UniRef90_R6PJ63	P G D F	Q L T S	CC	P V W I A M I E R K R Y F	E L L P H V P G A V S	P M V A C G		
UniRef90_C4G7X6	G R K	M T T S	CC	P A F I R M L Q K H F P	D Y K E N M S S T V S	P M T A V S		
UniRef90_H1HR00	G K K	M T T S	CC	P A F I N L I K K H F P	Q Q Y E N M S S T T V S	P M C A V S		
UniRef90_UPI0003722F99	Q A K G	P L I S	CC	P V T V N L I E K Y Y P	T L V K Y P T T R S	P M L A H T		
UniRef90_R5FL50		K G F L T S	CC	P A F V S Y I Q K N F P	V L T P F V S H N L S	P M A T I G		
UniRef90_R5CXN6	G T Q D	I I S	CC	H S V N L L V E K H Y P	E L R K F L A P T V S	P M V A H A		
UniRef90_D5XDS5	K A E F	P V I S	CC	P A V V G L I E K H Y P	D L I K Y L A P I D T A	M I A C G		
UniRef90_C9XRK5	D E E	C F I T S	C	P I W V S L I E K N S F P	Q L L E N V S P S V S	P M I A C G		
UniRef90_R7BU86		K G F L T S	CC	P A F V S Y I K K N F P	Q M V E H I S H N L S	P M A M I A		
UniRef90_D4JRV0		K G F L T S	CC	P A F V M Y I E K A F P	T M T D K I S H N L S	P M A E I A		
UniRef90_L0K7F9		P L I S	CC	P A V V N L I E R H Y P	E L I P Y L A P S I S	P M V A H G		
UniRef90_B0P9R6		K G F L T S	CC	P A F V A Y V K S A F P	D L A N H I S H N P S	P M E A V A		
UniRef90_R7BWC7	E K R D	L V I S	CC	H S V N L L I Q K Y Y P	K E L P Y L A D V L S	P M Q A H C		
UniRef90_R4KIX2	G F D K	A L I S	CC	P V V N L V E R H Y P	E A L P Y L A P I V S	P M I A H G		
UniRef90_C1N383	A K H A	P V L T S	CC	P G W V C Y A E K T H G	A V L N H V S A V T V S	P M Q Q V M G		
UniRef90_I0XBX0	G K K	M T T S	CC	P A F I N L L R Q H Y P	D V F E N M S N T V S	P M C A I S		
UniRef90_R7ESJ7		I V I S	CC	H S V N L L I Q K Y Y P	H M L P Y L A D V V S	P M V A H C		
UniRef90_A6TVD1	S Q K D	N L I A T S	CC	P S N N Y I E T Y Y P	E L R K Y M P I V S	P M I A H G		
UniRef90_R6P7L0	G E M E N I	L I S	CC	P S V N M Y I E K Y Y P	K L T K Y I A P V M S	P A L V H G		
UniRef90_R5YGL8		K G F L T S	CC	P A F V T Y I E K T F P	Q L L P F V S H N L S	P M A A V S		
UniRef90_F5T9K9	G K K	M T T S	CC	P A F I H L I E K H F P	E Y K E N M S E T L S	P M A A V S		
UniRef90_UPI00047A6E6B	G K Y K	N I T T S	CC	P S A N L L I E K Y Y P	Q L V E Y M L P V V S	P M V A H G		
UniRef90_L1QLJ0	G D K Y	M T N S	CC	P G F L S F L E K T N Q	S E A T K I S G T V S	P M V A T A		
UniRef90_G8C2G0	G T S S	P R L C	VC	P G F V L Y C E K S K P	E L V P Y L V D I K S	P M Q Q L T G		
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UniRef90_U5QA86	N G E P	F M T T S	CC	P S Y K L W A E K Y M P	E L V P Y I S H T A T P	A S Y T A		
UniRef90_R5B957	G V Q S	V I I T S	CC	P T V N L I T E K Y Y P	E I T E C L A N P V M T S	P M Q A H C		
UniRef90_J8PJ20	K Q R K	P L L S	AV	P G F L T Y T E K T K P	Q L A P M L L N V M S	P M Q I T G		
UniRef90_B0P9R8	K T Q D	V I I S	CC	H T V V T L I Q K Y Y P	A V I P Y I A P I I S	P M M A C A		
UniRef90_R7HAA7	G K K	M T T S	CC	P A F V N M I R K H Y P	E L A D N I S T T V S	P M C A V S		
UniRef90_G2SX67	G E K K	V T S	CC	P A F V N M V R L H Y P	D L A D C V S T T V S	P M C A V S		
UniRef90_B3E2E2	T D R	P L I S	T H	P A V V D L I E R H Y P	K L L P N L M P V V S	P M V A M G		
UniRef90_A4J5G6	E D K A	I L L S	CC	P A V V K A V S L K L P	E L K D C I S T T L S	P M R V T G		
UniRef90_R6X6W8	G T A D	I I S	CC	H S I N L L I Q K F F P	A E L P Y L A D V L S	P M Q A H C		
UniRef90_D7JGA3	G Q S F	M T T S	CC	P S Y I E L T E K H L K	D L K P Y V S S T G S	P M Y Y A A		
UniRef90_H7CS71	T G D	L L T S	CC	P M W V A M L R K C Y K	D L V K D V S P S V S	P M I A A G		
UniRef90_U2L2E8	G D V L	M T S	CC	S A Y V R A V N I H V P	A L K P C V S E T R S	P M H Y T A		
UniRef90_R6ETM5		K G F L T S	CC	P A F V K Y I E T K H P	T M V E H I S H N L S	P M A E L A		
UniRef90_B6FW90	G A S	I M T N S	CC	P G F V S Y I D I M F P	D M A D K I S H T V S	P M I A T G		
UniRef90_F4LLT0	G D K M	M T T S	CC	P A Y V R A V H K H V P	E L S P C I S D T R S	P M H Y T A		
UniRef90_H6LFH0	R Y P K	P L I S	CC	P A V V K L I Q V R F P	E L T D N I C R L K S	P M A M T A		
UniRef90_R5DXC3	G R K K	T T S	CC	P A F V N M I K K C Y P	E L V E C I S D T V S	P M C G I S		
UniRef90_Q6AKL7	G A P F	M T T S	CC	P A Y T M L V R K H L T	D L G E F V S D T R T P	M H Y T A		
UniRef90_A0A037ZBR3	N C R E	N Y I T T	CC	P S A N Y L I E K Y F P	K L I S Y M I P I V T	P M T A H G		
UniRef90_N1Z3R4	K G W K	T S	CC	P A F V D F V K R H Y P	Q L M P H V S T A V S	P M I A V S		
UniRef90_UPI00046F6813	G Q S F	M T T S	CC	P G Y V Q A V E K H V P	N M K S Y V S H T K T P	P M Y Y A A		
UniRef90_R5DM25	G E K F	M T T S	CC	A G Y N E L V D K H L P	E M K P F R S D T K T P	M Y Y T A		
UniRef90_R6M114	G Q K K	V T S	CC	P A F V N M V R L H Y P	Q L A D N I S T T V S	P M C A I S		
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UniRef90_H3EDC2	G A H R	P L L V S	CC	P G F A C Y A E K S H G	A L R P L M S R T R S	S Q G V A G		
UniRef90_A4XKK7	K D K R	P I I S	CC	P A V V R L I Q T K F P	D L I D N I L P L A S	P M E V A A		
UniRef90_R5MZ54	E K Q D	V I I S	CC	H T V N L L V Q K H F P	D V I P Y L A K V V S	P M Q A H C		
UniRef90_E8WI21	N A E L	P L I S	CC	P A V V D L V E R H Y P	E L I E N M V G V V T	H M V A M G		
UniRef90_UPI00046F28B7	G Q S F	M T T S	CC	P S Y I E L V N K H I P	E M K P Y V S H T G S	P M Y Y A A		

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UniRef90_R4KIX2 R Y L K E S Y P G C K T V F I G P C C A A K K D E A L V N G I S D
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UniRef90_A6TVD1 K Y L K Q K Y G H D T H V F I G P C C I A K K V E A Y E R
UniRef90_R6P7L0 K M L K E K Y G K D D T K V V F L G S C L S M L K E V N E S E Y
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UniRef90_R6MI14 R M I K A Q D P E A I T V F I G P C C L A K K S E V V D Q Q L E
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