

QUERY	T	A	A	T	N	P	E	E	Q	Q	L	L	F	A	V	G	Y	A	A	C	F	S	N	A	I	L	H	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_A7N3F8	A	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	S	N	A	I	L	H	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_B5ETB0	E	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	S	N	A	I	L	H	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_A8FT24	E	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	S	N	A	I	L	H	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_A6WS37	L	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	S	N	A	I	L	H	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_L2TTL8	V	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	R	M	I	G	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_UPI000255F269	N	G	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	R	M	I	G	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_X4Z8Q2	S	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	E	S	A	L	A	N	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_Q46PN0	D	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	I	G	A	M	R	H	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_Q08XP6	G	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	E	S	A	L	R	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_Q82D91	Q	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	A	S	A	L	R	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_J9S9Z6	Q	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	R	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_T0BZ91	G	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	D	S	A	L	V	N	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E
UniRef90_Q2W218	D	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	M	G	A	L	K	F	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_J1AII5	N	Y	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	D	S	A	L	N	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_Q65KU4	S	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	D	S	A	L	N	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_Q5QZZ0	D	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	I	G	A	L	K	F	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_UPI000376B352	G	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	H	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_UPI0003B5E029	G	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	H	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_C2FU63	D	Y	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	D	S	A	L	N	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_K4IHQ2	D	G	V	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	G	S	A	L	S	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E
UniRef90_UPI0002631DDC	D	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	I	G	A	L	K	A	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_A0A010PL41	E	G	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	L	H	G	A	L	R	K	I	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_S2EY88	G	T	N	P	E	Q	Q	L	L	F	A	A	G	W	S	A	A	C	F	I	G	A	M	G	V	A	A	K	E	L	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E					
UniRef90_U5LAP7	N	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	D	S	A	L	N	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_C2N6Y6	E	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	D	S	A	L	N	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_S4AM20	A	G	T	N	P	E	Q	Q	L	L	F	A	A	G	F	S	A	A	C	F	Q	G	A	L	G	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E		
UniRef90_K8R738	P	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	L	S	A	M	K	F	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_A0LYQ6	D	Y	S	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	G	S	A	L	E	V	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_C6XKD8	D	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	I	G	A	M	K	A	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_D7BR51	K	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	A	S	A	L	R	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_L8TLY5	D	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	R	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_J0LQ54	G	K	S	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	R	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_UPI00036BF64D	N	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	Y	E	S	A	L	S	N	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E
UniRef90_W5Y5C0	N	G	N	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	Q	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_D2PNT3	E	G	T	N	P	E	Q	Q	L	L	F	A	A	G	F	S	A	A	C	F	H	S	A	L	K	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_F2GAZ5	E	E	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	I	G	A	L	K	H	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E
UniRef90_D5USS9	E	G	S	N	P	E	Q	Q	L	L	F	A	A	S	G	Y	A	A	C	F	H	S	A	L	Q	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_K4R260	T	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	Q	G	A	L	G	V	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_W8YZJ1	E	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	E	S	A	L	Q	L	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_C5CBF8	Q	G	S	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	H	S	A	L	Q	M	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_UPI00047B92D3	E	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	L	G	A	M	K	F	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_Q2RX64	K	A	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	E	S	A	L	R	H	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V	T	A	E	E	
UniRef90_E4PLG4	K	G	T	N	P	E	Q	Q	L	L	F	A	A	G	Y	S	A	A	C	F	I	G	A	M	K	F	V	V	A	A	R	R	E	A	K	V	A	L	L	K	K	T	E	S	A	P	V	V					

QUERY	90	100	110	120
UniRef90_A7N3F8	V	A	L	L
UniRef90_B5ETB0	V	G	L	L
UniRef90_A8FT24	V	G	L	L
UniRef90_A6WS37	V	G	L	L
UniRef90_L2TTL8	V	S	L	L
UniRef90_UPI000255F269	V	S	L	L
UniRef90_X4Z8Q2	V	S	L	L
UniRef90_Q46PN0	V	S	L	L
UniRef90_Q08XP6	A	T	I	P
UniRef90_Q82D91	V	G	L	L
UniRef90_J9S9Z6	V	S	L	L
UniRef90_T0BZ91	T	T	I	P
UniRef90_Q2W218	V	S	L	L
UniRef90_J1AI15	V	S	L	L
UniRef90_Q65KU4	V	S	L	L
UniRef90_Q5QZZ0	I	G	L	L
UniRef90_UPI000376B352	V	G	L	L
UniRef90_UPI0003B5E029	V	V	A	I
UniRef90_C2FU63	V	G	L	L
UniRef90_K4IHQ2	V	G	L	L
UniRef90_UPI0002631DDC	V	G	L	L
UniRef90_A0A010PL41	V	S	L	L
UniRef90_S2EY88	V	D	L	L
UniRef90_U5LAP7	V	T	I	P
UniRef90_C2N6Y6	V	S	L	L
UniRef90_S4AM20	V	G	L	L
UniRef90_K8R738	V	G	L	L
UniRef90_A0LYQ6	V	K	L	L
UniRef90_C6XKD8	V	G	L	L
UniRef90_D7BR51	V	G	L	L
UniRef90_L8TLY5	V	H	L	L
UniRef90_J0LQ54	V	D	L	L
UniRef90_UPI00036BF64D	V	S	L	L
UniRef90_W5Y5C0	V	S	L	L
UniRef90_D2PNT3	V	G	L	L
UniRef90_F2GAZ5	V	S	L	L
UniRef90_D5USS9	V	G	L	L
UniRef90_K4R260	V	G	L	L
UniRef90_W8YZJ1	V	S	L	L
UniRef90_C5CBF8	V	G	L	L
UniRef90_UPI00047B92D3	V	G	L	L
UniRef90_Q2RX64	V	G	L	L
UniRef90_E4PLG4	V	G	L	L
UniRef90_UPI000248E836	V	S	L	L
UniRef90_K2K1I2	V	S	L	L
UniRef90_I1DV18	V	G	L	L
UniRef90_S7VR86	I	G	L	L
UniRef90_M7NBH3	V	G	L	L
UniRef90_P0A0V4	V	G	L	L
UniRef90_A0A021W461	V	G	L	L
UniRef90_UPI00037C87B2	V	G	L	L
UniRef90_UPI00037C47E4	V	S	L	L
UniRef90_I3UG38	V	G	L	L
UniRef90_UPI00037B5FD9	V	G	L	L
UniRef90_UPI0002D51531	V	T	L	L
UniRef90_D4HC98	V	S	L	L
UniRef90_F4AHE6	V	S	L	L
UniRef90_D7C4U6	V	S	L	L
UniRef90_UPI000474083E	V	S	L	L
UniRef90_UPI0003B6A701	V	S	L	L
UniRef90_L7FIR8	V	G	L	L
UniRef90_U2ENS4	V	G	L	L
UniRef90_K6VDM2	V	G	L	L
UniRef90_UPI00035CFCE1	V	G	L	L
UniRef90_A6VSD1	I	G	L	L
UniRef90_UPI00037D0E8F	I	G	L	L
UniRef90_U8MM47	V	S	L	L
UniRef90_I0H8Q1	V	G	L	L
UniRef90_E1SUE9	V	S	L	L
UniRef90_U7KQ59	V	G	L	L
UniRef90_L0LWS8	V	D	L	L
UniRef90_UPI00035D4244	V	G	L	L
UniRef90_UPI0003814910	V	S	L	L
UniRef90_J2K9A3	V	S	L	L
UniRef90_D3F2E1	V	Q	L	L
UniRef90_G7UWP6	V	G	L	L
UniRef90_UPI00041788D4	V	S	F	N
UniRef90_F5J0U3	V	S	L	L
UniRef90_UPI00029A461B	I	S	L	L
UniRef90_E6V7M3	V	D	L	L
UniRef90_S3HH12	V	D	L	L
UniRef90_UPI00029A552F	V	S	L	L
UniRef90_C7R3U9	V	S	L	L
UniRef90_UPI000363FA9D	V	D	L	L
UniRef90_UPI00041CDA3F	V	S	L	L
UniRef90_D2QM88	V	S	L	L
UniRef90_H8KMJ4	V	S	L	L
UniRef90_J2X8Q8	V	D	L	L
UniRef90_A0A022LG47	V	G	L	L
UniRef90_X4YYL4	V	S	L	L
UniRef90_W8F786	I	G	F	G

QUERY	Y	S	N	A	V	R	G	N	I	130	D	V	Q	V	S	V	N	G	L	A	L	140
UniRef90_A7N3F8	Y	S	N	A	V	R	G	N	I	I	D	V	A	V	T	S	N	G	L	A	L	
UniRef90_B5ETB0	Y	S	N	A	V	K	G	N	I	I	D	V	K	L	T	S	N	G	L	A	L	
UniRef90_A8FT24	Y	S	N	A	V	R	N	N	I	I	D	V	M	L	T	S	N	G	V	E	L	
UniRef90_A6WS37	Y	S	N	A	T	R	N	N	I	I	D	V	K	L	S	V	N	G	V	A	L	
UniRef90_L2TTL8	Y	S	N	A	T	R	G	N	I	V	D	V	T	L	T	T	V	T	D	E		
UniRef90_UPI000255F269	Y	S	N	A	T	R	G	N	I	I	D	V	H	V	T	V	T					
UniRef90_X4Z8Q2	Y	S	K	A	T	R	G	N	I	I	D	V	E	L	N	V	T					
UniRef90_Q46PN0	Y	S	N	A	T	R	G	N	I	I	E	V	T	L	T	T	V					
UniRef90_Q08XP6	Y	S	K	A	T	R	G	N	I	I	D	V	K	L	S	V	E	E				
UniRef90_Q82D91	Y	S	N	A	T	R	G	N	I	I	E	V	E	L	V	V	E	E				
UniRef90_J9S9Z6	Y	S	N	A	T	R	G	N	I	I	D	V	T	L	T	T	V	T				
UniRef90_T0BZ91	Y	S	K	A	T	R	G	N	I	I	E	V	Q	L	N	V						
UniRef90_Q2W218	Y	S	N	A	T	R	G	N	I	I	D	V	V	L	T	L	T					
UniRef90_J1AII5	Y	S	N	A	T	R	S	N	I	I	E	V	E	L	S	V	T					
UniRef90_Q65KU4	Y	S	K	A	T	R	G	N	I	I	D	V	N	L	E	V	K					
UniRef90_Q5QZZ0	Y	S	N	A	T	R	N	N	I	I	D	V	R	L	N	V	T					
UniRef90_UPI000376B352	Y	S	N	A	T	R	G	N	I	I	D	V	T	L	S	S	T	G	S	A		
UniRef90_UPI0003B5E029	Y	S	N	A	T	R	G	N	I	I	E	V	T	L	T	V						
UniRef90_C2FU63	Y	S	N	A	T	R	G	N	I	I	E	V	K	L	T	V	S					
UniRef90_K4IHQ2	F	S	R	A	T	R	D	N	I	I	D	V	T	L	N	L						
UniRef90_UPI0002631DDC	Y	S	N	A	T	R	G	N	I	V	D	V	G	L	T	L						
UniRef90_A0A010PL41	Y	S	K	A	T	R	G	N	I	I	E	V	T	V	T	V	S					
UniRef90_S2EY88	Y	S	K	A	T	R	N	N	I	I	N	V	T	L	K	L						
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V S L F A L D S G G F N L A V T L T A H P G L D R Q D T T A D Q I V E R T T H E V V
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V G I G P R S E G G G F G L E I A L E V S P G V D R A A G E E L I V A K A H H Q V V
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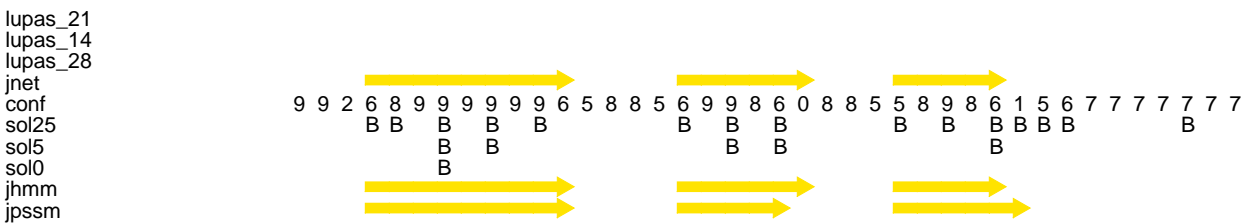
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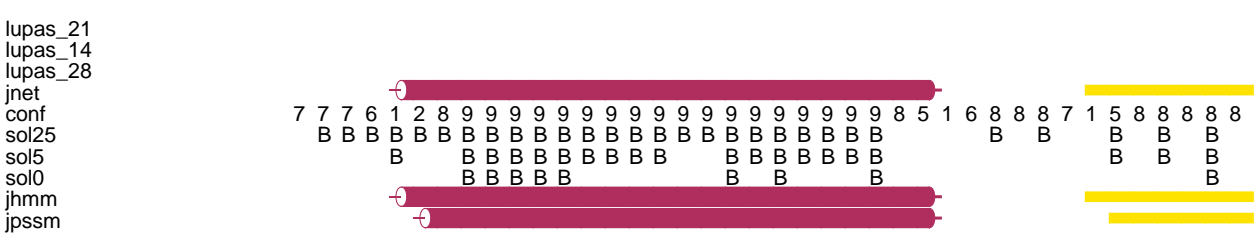

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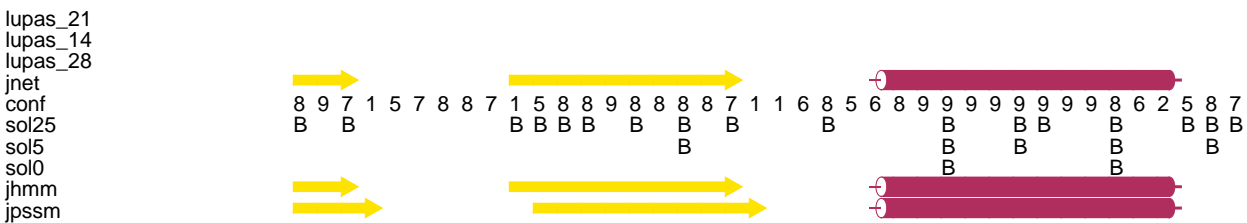
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		50		60		70		80																																			
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UniRef90_UPI000255CAA3	E	S	F	S	P	T	D	L	L	A	T	S	L	G	C	C	I	M	T	I	M	G	I	V	A	K	D	N	N	I	D	L	E	G	T	E	V	E	I	T			
UniRef90_L8A8U8	K	G	Y	S	P	V	Q	M	L	V	S	A	V	A	A	C	G	G	Y	V	Y	A	S	V	L	E	N	S	K	I	T	A	E	I	E	K	I	E	V	S			
UniRef90_W7D3Q7	T	G	F	S	P	T	Q	V	T	V	A	A	V	A	A	C	S	G	Y	V	Y	D	A	I	L	E	K	K	R	L	D	Y	T	L	E	N	I	H	A	D			
UniRef90_N6Y0S2	L	A	P	R	P	M	E	L	M	L	A	G	A	G	C	T	A	F	D	V	V	L	I	L	K	R	G	R	H	D	V	R	G	C	S	V	R	L	E				
UniRef90_G2J2H3	L	G	P	R	P	M	E	L	L	L	L	G	T	A	G	C	T	S	Y	D	V	L	G	I	L	K	K	S	R	Q	D	V	H	D	C	W	V	D	I	D			
UniRef90_M3F925	H	G	F	R	P	Y	Q	L	L	V	S	S	L	A	I	C	S	G	G	V	M	R	K	V	E	D	K	M	R	M	S	F	E	D	I	Q	I	E	V	K			
UniRef90_D1BCH8					F	T	P	G	E	L	L	K	I	A	L	A	A	C	T	G	F	S	S	D	V	T	L	A	R	R	L	G	D	D	Y	A	A	T	I	H	V	S	
UniRef90_S7TJK6	N	F	P	S	P	P	N	L	F	V	A	S	L	A	T	C	S	A	I	F	A	S	R	F	C	V	Q	H	G	M	D	P	A	A	V	G	V	R	M	V			
UniRef90_J1FNH1	E	G	A	R	P	M	E	L	M	L	M	G	L	G	G	C	S	A	I	D	I	T	S	I	L	K	K	Q	R	Q	P	L	E	S	F	D	I	N	V	K			
UniRef90_UPI0001850A60	F	G	F	R	P	F	Q	L	L	V	S	S	I	A	V	C	S	G	G	V	L	R	S	I	L	D	K	M	R	L	S	Y	E	D	I	S	M	E	A	K			
UniRef90_UPI0003FD7FD4	G	F	R	P	Y	Q	L	M	L	A	S	I	A	A	C	S	G	T	V	L	Q	N	I	L	E	K	K	R	I	Q	L	E	E	M	T	I	Q	T	K				
UniRef90_Q65QZ9	E	N	I	S	P	A	D	L	L	A	A	S	L	A	G	C	A	M	T	I	M	A	L	R	A	E	Q	L	G	A	D	F	S	G	C	Y	A	E	V	E			
UniRef90_V5XCF2					F	T	P	G	E	L	L	K	I	A	L	A	A	C	S	G	M	S	S	D	H	P	L	R	T	R	L	G	D	D	Y	Q	A	T	I	K	V	S	
UniRef90_E4NKD4	L	G	P	S	P	E	L	L	C	A	V	V	S	T	C	L	T	H	T	V	L	C	L	A	A	L	D	D	V	P	L	D	R	V	E	V	R	V	R	T			
UniRef90_I0DTE7	K	A	P	S	P	M	E	M	V	L	M	A	V	G	C	S	S	V	D	V	V	S	L	L	Q	K	G	R	H	D	V	K	G	C	E	V	K	L	H				
UniRef90_H8FIB5																																											
UniRef90_U7PUY5	S	A	P	S	P	V	V	Y	S	L	A	S	L	G	S	C	N	Q	V	T	G	S	I	V	G	R	D	H	G	V	R	L	G	R	W	K	V	D	V	E			
UniRef90_E6PZ08	D	G	P	S	P	V	E	A	V	L	M	A	L	C	S	C	T	S	V	D	V	V	S	I	L	K	K	K	R	Q	P	L	T	S	L	E	V	V	A	K			
UniRef90_D3FUK8	H	G	F	R	P	Y	Q	L	L	V	S	S	I	A	V	C	S	G	G	V	L	R	K	V	L	E	K	K	R	V	A	Y	E	D	I	H	I	K	A	D			
UniRef90_F3L064	L	G	I	R	P	M	E	M	L	L	I	G	A	G	C	A	S	F	D	V	I	S	M	L	E	K	G	R	Q	N	V	V	D	C	E	V	L	L	Q				
UniRef90_Y0KEK2	I	G	M	R	P	M	E	M	L	L	I	G	M	G	C	A	S	F	D	V	V	A	I	L	K	K	A	R	Q	P	L	V	D	A	E	I	Q	A	E				
UniRef90_K9B3J6	E	G	M	T	P	V	E	L	L	L	A	A	V	A	G	C	S	I	D	V	D	T	V	T	S	R	R	T	E	P	T	R	F	D	V	R	A	S					
UniRef90_T0YZ57					P	M	E	L	L	L	A	A	L	G	C	T	G	I	D	V	V	D	I	M	R	K	K	R	T	P	L	A	R	Y	R	I	E	I	E				
UniRef90_M5SVW3	S	A	P	P	P	L	A	Y	Y	S	A	S	I	A	F	C	L	L	T	Q	L	S	R	Y	A	S	I	K	K	L	N	I	T	R	F	A	M	E	G	S			
UniRef90_A7HC11	A	A	P	S	P	T	A	L	L	L	G	A	L	A	G	C	A	V	V	F	I	R	T	L	A	P	Q	M	G	I	R	V	D	S	V	E	A	E	A	R			



	90	100	110	120
UniRef90_V4NZI9	H	A	K	E
UniRef90_UPI000255CAA3	K	M	S	E
UniRef90_L8A8U8	Y	D	R	D
UniRef90_W7D3Q7	F	E	Q	D
UniRef90_N6Y0S2	A	E	R	A
UniRef90_G2J2H3	A	D	R	A
UniRef90_M3F925	E	V	V	R
UniRef90_D1BCH8	G	V	S	D
UniRef90_S7TJK6	C	E	T	N
UniRef90_J1FNH1	A	E	R	Q
UniRef90_UPI0001850A60	V	E	R	N
UniRef90_UPI0003FD7FD4	E	E	R	V
UniRef90_Q65QZ9	K	E	A	D
UniRef90_V5XCF2	G	A	A	D
UniRef90_E4NKD4	G	V	P	T
UniRef90_I0DTE7	S	Q	R	R
UniRef90_H8FIB5	Y	T	Q	R
UniRef90_U7PUY5	G	A	L	G
UniRef90_E6PZ08	G	E	R	Q
UniRef90_D3FUK8	V	V	R	N
UniRef90_F3L064	A	E	R	A
UniRef90_Y0KEK2	R	A	A	E
UniRef90_K9B3J6	A	D	K	V
UniRef90_T0YZ57	G	V	R	A
UniRef90_M5SVW3	V	V	K	G
UniRef90_A7HC11	C	D	A	D



		130	140																	
UniRef90_V4NZI9	V	T	L	T	L	K	E	G	A	D	I	S	T	T						
UniRef90_UPI000255CAA3	V	P	L	S	L	S	S	E	L	K	Q	T	I	R	F	N				
UniRef90_L8A8U8	V	I	Q	S	L	D	P	A	I	E	V	T	E	T	V	T				
UniRef90_W7D3Q7	V	A	M	S	L	D	P	K	L	E	I									
UniRef90_N6Y0S2	A	S	I	M	L	G	K	T	A	E	I									
UniRef90_G2J2H3	A	S	I	M	L	G	K	T	A	D	I	T								
UniRef90_M3F925	M	V	Q	S	V	Q	D	S	I	E	V									
UniRef90_D1BCH8	V	G	R	T	L	K	A	G	A	E	V	E	L	T	I	A	S	V	S	
UniRef90_S7TJK6	V	K	Q	V	Q	A	A	P	E	F	A	V	E	I						
UniRef90_J1FNH1	V	A	A	L	Y	K	T	A	T	I	T									
UniRef90_UPI0001850A60	M	V	Q	S	V	I	G	S	I	E	V	E	E	T	F	E	I	V	K	
UniRef90_UPI0003FD7FD4	M	A	R	S	V	E	N	C	L	D	L	K	E	T	F	E	L	E		
UniRef90_Q65QZ9	V	G	R	S	L	R	A													
UniRef90_V5XCF2	V	G	N	T	L	K	A	G	T	E	V	T	L	A	V	T	D	V		
UniRef90_E4NKD4	M	L	R	M	V	R	A	E	H	A	V	V	L							
UniRef90_I0DTE7	V	S	L	M	L	E	K	A	V	K	V	T								
UniRef90_H8FIB5	I	H	R	L	L	T	G	E	V	R	L	E	T	R	L	Q	A	A		
UniRef90_U7PUY5	I	T	A	L	F	R														
UniRef90_E6PZ08	V	S	A	M	L	D	G	K	A	M	I	N	A	A	I	E				
UniRef90_D3FUK8	M	V	Q	S	V	K	E	S	I	E	I	T								
UniRef90_F3L064	A	S	I	M	L	A	A	G	V	E	V	T	H	T	F	E	A			
UniRef90_Y0KEK2	A	S	I	M	L	S	K	S	V	D	I	T								
UniRef90_K9B3J6	V	S	R	T	I	E	H	P	T	P	V	D	V	R	I	H				
UniRef90_T0YZ57	V	S	A	S	L	S	A	N	V	H	A	E	I	R	L	E				
UniRef90_M5SVW3	I	H	Q	S	I	M	N	P	V	P	I	E	A	T	V	N	G	D	P	L
UniRef90_A7HC11	V	Y	L	A	L	V	K	A	T	P	V	R	T	S	F	E	A			

lupas_21																				
lupas_14																				
lupas_28																				
jnet																				
conf	3	0	1	2	2	6	8	7	1	7	8	9	9	9	9	8	6	3	9	
sol25	B	B		B	B				B		B		B		B					
sol5	B				B						B				B					
sol0																				
jhmm																				
jpssm																				