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

QUERY	H	A	G	W	R	G	L	C	A	G	V	L	E	E	T	V	S	C	F	A	D	N	P	E	N	I	L	A	W	L	G	P	A	I	G	P	P	R	A	F	E					
UniRef90_W8KM73	H	A	G	W	R	G	L	V	A	G	V	L	E	E	T	V	S	C	F	A	D	N	P	E	N	I	L	A	W	L	G	P	A	I	G	P	P	R	A	F	E					
UniRef90_I0DRQ7	H	A	G	W	R	G	L	C	G	V	L	E	E	N	T	V	A	A	Q	F	T	C	D	K	K	D	I	M	A	W	L	G	P	A	I	G	P	P	Q	K	F	E				
UniRef90_D3RQD8	H	A	G	W	R	G	L	A	G	V	L	E	E	S	A	T	V	A	A	M	V	A	P	D	T	V	L	V	W	M	G	P	A	I	G	P	P	D	A	F	E					
UniRef90_H2G1U5	H	A	G	W	R	G	L	A	A	G	V	L	E	E	A	T	V	L	Q	E	M	Q	V	D	P	T	V	L	A	W	L	G	P	A	I	G	P	P	R	S	A	F	E			
UniRef90_U2LLV8	H	A	G	W	R	G	L	C	H	G	V	L	E	E	T	V	A	A	R	F	A	A	S	P	E	N	I	T	A	W	L	G	P	A	I	G	P	P	R	A	F	E				
UniRef90_K8A3Z1	H	A	G	W	R	G	L	C	E	G	V	L	E	E	T	V	A	A	R	F	R	A	S	P	E	N	I	Q	A	W	L	G	P	A	I	G	P	P	A	V	F	E				
UniRef90_Q2C150	H	A	G	W	R	G	L	A	T	G	V	L	E	E	T	V	H	A	V	E	K	F	H	C	N	T	S	D	I	M	A	W	L	G	P	A	I	G	P	P	T	A	F	E		
UniRef90_E7B0Y6	H	A	G	W	R	G	L	C	A	G	V	L	E	E	T	V	L	Q	A	F	N	A	G	S	S	E	I	L	A	W	L	G	P	A	I	G	P	P	Q	A	F	E				
UniRef90_H3ZBV1	H	A	G	W	R	G	L	A	G	V	L	E	E	T	V	L	L	A	Q	H	F	Q	A	P	A	E	L	L	V	W	L	G	P	A	I	G	P	P	Q	A	F	E				
UniRef90_UPI0002F7054F	H	A	G	W	R	G	L	V	N	G	V	L	E	E	T	V	L	L	A	T	F	T	D	P	E	N	V	L	V	W	L	G	P	A	I	G	P	P	S	A	F	E				
UniRef90_I0QLM9	H	A	G	W	R	G	L	N	A	G	V	L	E	E	T	V	I	S	A	F	R	A	K	H	L	M	A	W	F	G	P	A	I	G	P	P	Q	Q	F	E						
UniRef90_UPI0004199BC4	H	A	G	W	K	G	L	A	A	G	V	L	E	E	A	V	I	E	S	A	F	K	G	A	D	L	L	A	W	L	G	P	A	I	G	P	P	D	A	F	E					
UniRef90_G7LRC8	H	A	G	W	R	G	L	C	A	G	V	L	E	E	T	V	L	S	C	F	R	A	K	P	S	R	I	M	A	W	L	G	P	A	I	G	P	P	D	A	F	E				
UniRef90_J3HEK0	H	A	G	W	R	G	L	C	N	G	V	L	E	E	T	V	L	S	Q	F	H	C	S	R	H	H	A	W	L	G	P	A	I	G	P	P	Q	Q	F	E						
UniRef90_CON8S5	H	A	G	W	R	G	L	L	N	G	V	L	E	E	T	V	L	S	Q	F	S	G	A	R	E	D	I	L	V	W	L	G	P	A	I	G	P	P	T	A	F	E				
UniRef90_W0HMA9	H	A	G	W	R	G	L	C	A	G	V	L	E	E	T	V	L	A	A	F	Q	A	P	R	A	D	I	L	A	W	R	G	P	A	I	G	P	P	T	A	F	E				
UniRef90_UPI0003784119	H	A	G	W	R	G	L	C	C	D	G	V	L	E	E	T	V	L	Q	A	F	Q	E	P	P	S	E	L	V	W	L	G	P	A	I	G	P	P	S	N	A	F	E			
UniRef90_G9Y2S6	H	A	G	W	R	G	L	C	C	Q	G	V	L	E	E	T	V	L	A	C	F	R	S	V	P	E	D	I	V	A	W	L	G	P	A	I	G	P	P	D	A	F	E			
UniRef90_Q7NVZ9	H	A	G	W	R	G	L	C	D	G	V	L	E	E	T	V	L	A	A	M	A	L	P	P	S	E	D	L	M	A	W	L	G	P	A	I	G	P	P	D	A	F	E			
UniRef90_E4PNH4	H	C	A	G	W	R	G	L	C	G	V	L	E	E	T	V	L	S	K	M	A	V	A	P	E	A	L	Q	A	W	L	G	P	A	I	G	P	P	D	D	S	F	E			
UniRef90_D8K9U3	H	A	G	W	R	G	L	A	A	D	L	E	E	T	V	L	I	S	A	L	G	T	P	G	E	H	L	A	W	L	G	P	A	I	G	P	P	Q	D	A	F	E				
UniRef90_Y0KGB6	H	A	G	W	R	S	L	C	D	G	A	I	E	E	T	V	E	S	M	L	J	A	R	P	N	Q	L	M	A	W	L	G	P	A	I	G	P	P	Q	A	F	E				
UniRef90_W2DDU7	H	A	G	W	R	G	L	A	A	G	V	L	E	E	A	A	Q	S	L	E	T	A	P	A	E	V	M	V	W	L	G	P	A	I	G	P	P	K	A	F	E					
UniRef90_UPI0003B7131B	H	A	G	W	R	G	L	C	A	A	G	V	L	E	E	T	V	A	A	L	P	V	A	P	E	R	L	M	A	W	L	G	P	A	I	G	P	P	K	A	F	E				
UniRef90_U2ZST7	H	A	G	W	R	G	L	A	G	V	L	E	E	T	V	L	V	A	A	L	G	I	E	P	A	E	L	L	V	W	L	G	P	A	I	G	P	P	Q	S	F	E				
UniRef90_UPI0002D5F61D	H	A	G	W	R	G	L	V	N	G	V	L	E	E	T	V	L	A	A	Q	F	S	D	P	K	N	V	M	A	W	L	G	P	A	I	G	P	P	A	E	K	F	E			
UniRef90_UPI00046AF6CF	H	A	G	W	R	G	M	A	E	G	I	E	E	R	T	V	L	S	A	L	G	T	L	N	S	P	L	M	A	W	L	G	P	A	I	G	P	P	A	H	F	E				
UniRef90_K2BYS2	H	A	G	W	R	G	L	A	N	G	I	I	E	E	N	T	V	L	K	T	D	L	P	S	G	E	L	L	A	W	L	G	P	A	I	G	P	P	N	A	F	E				
UniRef90_UPI000375B19D	H	A	G	W	R	G	L	L	A	G	V	L	E	E	T	V	A	T	F	P	P	G	R	D	L	L	V	W	L	G	P	A	I	G	P	P	E	A	F	E						
UniRef90_UPI00029AC0BC	H	A	G	W	R	G	L	L	A	G	V	L	E	E	T	V	L	D	R	L	A	L	P	P	D	D	V	L	V	W	L	G	P	A	I	G	P	P	Q	A	F	E				
UniRef90_A6F6M5	H	A	G	W	R	G	L	L	D	G	I	I	E	E	N	T	V	L	A	K	L	T	A	P	P	D	D	L	L	V	W	L	G	P	A	I	G	P	P	S	Q	A	H	F	Q	
UniRef90_D5CTV3	H	A	G	W	K	G	L	A	A	G	V	L	E	E	T	V	L	K	A	M	G	R	A	P	Q	S	E	L	M	A	W	F	G	P	A	I	G	P	P	H	A	F	E			
UniRef90_UPI000428C11C	H	A	G	W	R	G	L	C	H	G	V	L	E	E	T	V	L	A	C	F	S	A	E	P	S	H	I	L	A	W	L	G	P	A	I	G	P	P	T	A	F	E				
UniRef90_V6MNU0	H	G	W	R	G	L	C	H	G	V	L	E	E	T	V	L	Q	N	T	L	A	K	F	N	A	P	S	K	D	Q	I	M	A	W	L	G	P	A	I	G	P	P	S	A	F	E
UniRef90_UPI0004631D2B	H	A	G	W	R	G	L	A	Q	G	V	L	E	E	T	V	L	A	A	V	A	R	F	S	E	A	Q	L	L	A	Y	L	G	P	A	I	G	P	P	S	H	F	E			
UniRef90_E8XLZ8	H	A	G	W	R	G	L	C	A	G	V	L	E	E	T	V	L	A	R	F	E	A	T	P	S	G	D	V	M	A	W	M	L	G	P	A	I	G	P	P	S	H	F	E		
UniRef90_I1E2F8	H	A	G	W	R	G	L	C	D	G	I	I	E	E	T	V	L	R	T	F	T	P	G	A	V	V	L	A	Y	L	G	P	A	I	G	P	P	S	Q	A	H	F	E			
UniRef90_W0Q628	H	A	G	W	R	G	L	C	A	D	G	V	L	E	E	T	V	I	K	F	Q	C	P	S	A	N	E	I	S	A	W	L	G	P	A	I	G	P	P	A	K	A	F	Q		
UniRef90_W9ASP4	H	A	G	W	R	G	L	A	A	G	V	L	E	E	T	V	L	A	K	F	T	C	P	A	A	D	I	S	A	W	M	G	P	A	I	G	P	P	A	K	A	F	Q			
UniRef90_S7J7S8	H	A	G	W	R	G	L	S	G	G	I	V	E	E	N	A	L	S	Q	F	A	N	A	E	D	V	L	V	W	L	G	P	A	I	G	P	P	Q	A	F	E					
UniRef90_F9S3X9	H	A	G	W	R	G	L	A	D	G	V	L	E	E	N	A	L	M	T	F	D	A	D	R	S	E	N	V	I	A	W	L	G	P	A	I	G	P	P	A	T	A	F	E		
UniRef90_U7GGW8	H	A	G	W	R	S	L	C	D	G	V	L	E	E	N	L	V	A	A	M	A	V	E	P	S	E	D	I	V	A	W	M	G	P	A	I	G	P	P	K	A	F	Q			
UniRef90_P44552	H	A	G	W	R	G	L	C	D	G	V	L	E	E	T	V	L	K	Y	F	Q	A	K	P	E	E	D	I	I	A	W	F	G	P	A	I	G	P	P	K	A	F	Q			
UniRef90_I3CH46	H	A	G	W	R	G	L	L	N	G	V	L	E	E	T	V	L	Q	A	L	A	V	P	P	E	Q	E	I	L	V	W	L	G	P	A	I	G	P	P	S	Q	A	F	E		
UniRef90_A0A023RQQ0	H	A	G	W	R	G	L	K	E	G	V	L	E	E	T	V	L	A	S	I	A	M	G	C	E	P	G	E	I	L	A	W	L	G	P	A	I	G	P	P	T	A	F	E		
UniRef90_U3BLZ1	H	A	G	W	R	G	L	A	G	G	I	V	E	E	N	A	L	A	E	F	D	S	A	E	V	M	A	W	L	G	P	A	I	G	P	P	R	E	F	E						
UniRef90_UPI00036E5E73	H	A	G	W	R	G	L	A	S	G	V	L	E	E	D	A	V	A	R	M	D	V	A	P	A	R	I	M	A	W	M	G	P	A	I	G	P	P	D	A	F	E				
UniRef90_UPI0002E831C9	H	A	G	W	R	G	L	A	A	G	V	L	E	E	A	A	Q	S	L	N	V	E	P	A	Q	D	L	L	V	W	L	G	P	A	I	G	P	P	A	K	A	F	E			
UniRef90_A3QH67	H	A	G	W	R	G	L	C	N	G	I	V	E	E	A	T	V	A	E	F	D	A	P	A	D	E	L	L	V	Y	L	G	P	A	I	G	P	P	K	A	F	E				
UniRef90_A3MZE9	H	A	G	W	R	G	L	C	D	G	V	L	E	E	T	V	L	A	E	F	A	C	S	P	T	D	I	C	A	W	L	G	P	A	I	G	P	P	T	K	F	Q				
UniRef90_D0ZDN4	H	A	G	W	R	G	L	C	D	G	V	L	E	E</																																

QUERY UniRef90_W8KM73 UniRef90_I0DRQ7 UniRef90_D3RQD8 UniRef90_H2G1U5 UniRef90_Q2LLV8 UniRef90_K8A3Z1 UniRef90_Q2C150 UniRef90_E7B0Y6 UniRef90_H3ZBV1 UniRef90_UPI0002F7054F UniRef90_I0QLM9 UniRef90_UPI0004199BC4 UniRef90_G7LRC8 UniRef90_J3HEK0 UniRef90_CON8S5 UniRef90_W0HMA9 UniRef90_UPI0003784119 UniRef90_G9Y2S6 UniRef90_Q7NVZ9 UniRef90_E4PNH4 UniRef90_D8K9U3 UniRef90_Y0KGB6 UniRef90_W2DDU7 UniRef90_UPI0003B7131B UniRef90_U2ZST7 UniRef90_UPI0002D5F61D UniRef90_UPI00046AF6CF UniRef90_K2BYS2 UniRef90_UPI000375B19D UniRef90_UPI00029AC0BC UniRef90_A6F6M5 UniRef90_D5CTV3 UniRef90_UPI000428C11C UniRef90_V6MNU0 UniRef90_UPI0004631D2B UniRef90_E8XLZ8 UniRef90_I1E2F8 UniRef90_W0Q628 UniRef90_W9ASP4 UniRef90_S7J7S8 UniRef90_F9S3X9 UniRef90_U7GGW8 UniRef90_P44552 UniRef90_I3CH46 UniRef90_A0A023RQ00 UniRef90_U3BLZ1 UniRef90_UPI00036E5E73 UniRef90_UPI0002E831C9 UniRef90_A3QH67 UniRef90_A3MZE9 UniRef90_D0ZDN4 UniRef90_A0A031MDL0 UniRef90_A7MTB4 UniRef90_Q5X5N4 UniRef90_UPI0002FCE1DE UniRef90_UPI00039C678A UniRef90_UPI00037FD84C UniRef90_A4XQX2 UniRef90_E8M799 UniRef90_A4BNG5 UniRef90_F7NTU2 UniRef90_UPI000468BC36 UniRef90_UPI00035D1651 UniRef90_U2FYN8 UniRef90_UPI0002624E46 UniRef90_Q7MKN2 UniRef90_F2K1G6 UniRef90_W0SKN4 UniRef90_W0BFL8 UniRef90_UPI0003675622 UniRef90_U3C530 UniRef90_UPI000369BD76 UniRef90_A6VKB9 UniRef90_A6D3Q6 UniRef90_F9TEP0 UniRef90_K5Y160 UniRef90_D0W1N0 UniRef90_I3IGA7 UniRef90_C3XB38 UniRef90_UPI00026C7E24 UniRef90_B5FAQ9 UniRef90_N9VRN2 UniRef90_C9P153 UniRef90_B5EMG9 UniRef90_A0L025 UniRef90_I7ZC09 UniRef90_A1S8V0 UniRef90_UPI0003747398 UniRef90_F7RYP5 UniRef90_UPI00036DA93E UniRef90_Q60A95

QUERY	N	V	G	V	E	Q	I	F	G	210	R	D	T	Y	T	E	N	E	T	F	F	S	Y	R	R	D	K	T	T	G	R	M	A	S	F	I	W	L	240		
UniRef90_W8KM73	D	C	G	V	V	T	S	R	V	Y	G	G	G	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_I0DRQ7	A	A	G	V	S	R	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_D3RQD8	R	L	G	V	S	R	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_H2G1U5	A	A	G	V	H	H	I	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_2LLV8	G	A	G	V	F	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_K8A3Z1	N	V	G	V	T	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_Q2C150	R	L	G	V	T	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_E7B0Y6	A	V	G	V	H	A	I	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_H3ZBV1	R	A	G	V	T	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_UPI0002F7054F	R	A	G	V	T	N	I	N	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_I0QLM9	A	A	G	V	S	A	V	F	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_UPI0004199BC4	D	A	G	V	S	A	V	F	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_G7LRC8	A	A	G	V	T	Q	I	F	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_J3HEK0	A	A	G	V	H	S	I	S	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_CON8S5	A	L	G	V	T	Q	I	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_W0HMA9	T	A	G	V	T	R	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L
UniRef90_UPI0003784119	N	V	G	V	T	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_G9Y2S6	R	A	G	V	H	H	I	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_Q7NVZ9	K	L	G	V	S	R	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_E4PNH4	H	L	G	V	S	N	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_D8K9U3	R	Q	G	V	R	S	N	V	Y	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_Y0KGB6	A	L	G	V	T	N	M	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_W2DDU7	A	R	G	V	T	A	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
UniRef90_UPI0003B7131B	R	A	G	V	T	S	V	Y	G	G	G	G	D	T	T	H	S	Q	P	E	R	F	F	Y	Y	R	R	D	G	E	T	T	R	M	A	S	F	I	W	L	
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A V P E A D A V A R M R G R A C A V M V A D C C L P V L L F C C D D D A T V V A A A
S M A E A D A S V A K R Q P H A R C A V V M T A D C C L P V L L F C C D K D A T V V A A A
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T D A N Q D A L Y T Q Q V N Q P L A I M T A D C C L P V F V C C S K A Q G D E V A V I
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R H G F F T T R R G G A S S G I F H G L N C G M G S S
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N V R W K I T T R S G G I S Q P Y D S L N L G V H V G
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L W P Q W K V S P R V R A F V T T R A G G V S A P G A G L N L G F S S G
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U n i R e f 9 0 _ A 0 A 0 1 0 Q 6 1 8 D D L M L V K A N R S L I P H S Q K I T W L E Q V H S N R V S L P S A
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U n i R e f 9 0 _ J 2 V V Y 5 D N Q D H V T E N R R R V A E A L G A P L S H V T V H Q V H S P D V V T I T A P
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	90	100	110	120	
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UniRef90_UPI00037DFDC6 D D P R A V L E N R R R R V A E S L G F D S A R V L R L N Q V V H G S T E V I L E A R P P
UniRef90_C1A0X1 D D D P A A V E A N R R R L A A R E I L G V P F E T H V W M E Q I H S D D N K I L N V V T E D P P
UniRef90_UPI00047A80F5 D D P A D V L E N R R R R V F L A N A L G N V P F E T H V W M E Q I H S D D N K I L N V V T E D P P
UniRef90_R6P2H5 D D P D E N V L E N Y R R I C G A A G F P Y E E G L T A A Q D H H T F I L R R V G R E Q
UniRef90_UPI00030C3B7B D D D E H A V A V R T N R R Q A L A K T N L K L P S E P E W L E Q I T I S N L C V L V E E G P
UniRef90_I2MWU1 D D D P E A V A V R T N R R I A A K E L L G L D P S E P E W L E Q I T I S N L C V L V E E G P
UniRef90_UPI0003A2B9FB D D D P V I Q V A H N R R A L L A Q A L A L P S P P Q W L R Q V V H G G V E V L G A R A T A
UniRef90_K0IAF4 D D D P Q A V A A A N R R Q L V Q S A L Q P G A R A V F L N S Q V V H G H T D G V A D A G Q T
UniRef90_E4U5M9 D D D P A A V A A E N R R R R V R A A F G G A P L A R L S Q V V H G H T A V H A V G G P
UniRef90_D5DJS6 D N V E D V I T N R R K I L A G E L D M S F E F V C A E Q V V H E A T V Q K V T T K A E
UniRef90_UPI000364FD42 D D D P V A I L N N R I Q L A G S V L G L G D D D R V F M E Q I V H S P T V D M V T G R G S
UniRef90_R6MP62 D D P E N V Y E N R Y R L L A G S A V G R P D T V F T K Q L H G T D I V A R V V T A G R A S
UniRef90_A4IM19 D D R T A V V N N R R R L A A S L F P L D D W V C C E Q V V H G A D V I Q K V T S K S E
UniRef90_K6DKP4 D T R E D V I R N R R E K L S E M I G A P H T W I C A E Q I V H G N D A K L A K V S D K E
UniRef90_C9LHZ8 D S P A H V K E N R K D R L C A Q L N I E E E R L I L H Q V I H N D A S L I I S D E P
UniRef90_R7R2A8 D D R E A V E M N F H R I A E A M G V P F E M V F T D Q T H T T T C V R K V T T S A
UniRef90_R6QXU2 D S D E N V R K N Y K L M C R A A V G L D Y S T V S S A Q D H H T F V R K V T T S A
UniRef90_UPI00037B38BD D Q P A H V E G N R A N F C D A A F N L Q P H Q L T I K Q V V H G T S L L L I D E E
UniRef90_UPI0003695939 D N I E K V T L H R N I L Q H F L S E D V E I Q W L E Q V V H G N E V V E V T V V
UniRef90_UPI00021931B5 D D P A A V A A N R S R L G A S V L G L G D D D R V F M E Q I V H S P T V D M V T G R G S
UniRef90_UPI00036DF426 D V P A A V A S N R K R L G A S V L G L G D R L A W M E Q I V H G T V V D G T E S H
UniRef90_UPI000362B41C D D P A A V T G N R R A A A A L G T D A A R T V W M R Q V V H G A D V A H V T E S P
UniRef90_I4C361 D T S D S V R T N F D R R L T E D L E I P K H M A T C K Q V V H G D H V I E I R G P K
UniRef90_UPI0003633413 D H P E H V R E N R R V L E R F G N P P V A A L D Q V V H G N G V H A V E I R G P P
UniRef90_V4NYB0 D T R E N I F E N R R R V A A A F D Q P E D R L N C Y Q V V H S K I A V T V D D Q A P
UniRef90_E6YUD0 D Y P E H I M Q N R H I L I A H Y F D I E V Q N I T V N Q V V H S C E V I V L D Q A P
UniRef90_UPI00023764B5 D D G A A V Q A N R R T L Q T A L Q A R T R A V F L R Q V V H G V A V A H L H S P
UniRef90_A9IIX0 D A P A T V L E N R R R V R A V V P S E P L W L R Q V V H G A D V A D A D G P
UniRef90_R5VGP6 D A P D K A V E R N R E L L C S L L P V R P R M V V P H Q T H D T V V K V V D E A
UniRef90_A2SGZ0 D D P L L V A E A N R R R Y A A A L G G T P V F L R A L R L P L T
UniRef90_A0YDU3 D D P T I V A A N R D L L S Q S C S G L D Q M Q W L N Q V V H G T R I T V T A G E E
UniRef90_W6EGM3 D T A L H H N Q N R E I L K A K L G V S K L V F M D Q V V H G D T I T Q I F H R G
UniRef90_M1N4D0 N H S E H I T K N H K L I T D Y F G I E V K N V T V R Q L H S C E V I S V F L G
UniRef90_Z5X6C9 D D P K A V A A N R T R L A A A I G L P E D H V W M N Q T H S D H V T V V D G P
UniRef90_UPI0002F5B0C8 D V P A H V Q A N R D H L T H L L G R R P V F L K Q V V H G V H S V H L S S E K
UniRef90_UPI0003474D79 D K K E D V I K N R R L A D E L T I P N H W I V A E Q I V H G G E I E S V S G K
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UniRef90_A5Z6D0 D L D E N V I R N H E I F A N A I G V N P K N V T G N Q T H T T N V K V V T D G P
UniRef90_UPI000377C823 D N P V H V L E N R R L L A E A L G F A P E W T C G E Q V V H G T N L A V V R S G
UniRef90_W7IRL3 D D P A A V R A N R R L A G E L G V S P G D R V W M E Q V V H G R T A Q V V D D E P
UniRef90_F5IZQ0 D N P D H V K E N R R E I A N V A G I S V E N L Y P Y Q T H H D R I F I V D E Q
UniRef90_UPI0001D2D552 D D P A R V G E N R A R M A R R V G V A A E R L V P Y Q I H S S E A L Y V A P
UniRef90_I7DVC9 D D E G N V F A N R K R L A A E L G L A E D E L W M E Q V V H G T I V D G S E T A A
UniRef90_E0I3H0 D R D E D V V A N R Q R L A A E S L G W P F E A F T C E Q V V H G D H V H V V T A A
UniRef90_E4T6Y5 D A P E S L S Q N Q Q I L C D Q L G I N L E N L I L P Q N H G T E V R E I D E A
UniRef90_C0GFR8 D P P A A V L E N R R R L A A A L G Y K N E M V T A Q Q V H S T N V V R V T A E D
UniRef90_Q5FRU3 D D P A N V A E N R A R V A R A I G V V P D H L L L K Q T H S D I T V P V T D R P
UniRef90_R6LPQ9 D D D V N V K E N Y K R M C K E L K A D Y K K L V L D Q V V H E D K V E Y V T D E Q
UniRef90_UPI0003B459CE D D K E A V D E N Y R L V A D A L G H G D D F V C T F Q T H T T N I K V V T T E E
UniRef90_K2MKM0 D S R D R V T E N R A R A K A F G T K A D R L T V V Y Q V V H G T I D V A V L K R P
UniRef90_UPI000382182D D S P A D V A E N R R R V T E A L G F G A E Q V R L N Q I V H G L D V L E A R S A
UniRef90_NOAP49 D R D N D V C Q N R R T L A E N M L D F P K R Q W V G A E Q T H G T T I Q K V T T K S
UniRef90_UPI00041C17B9 D A P G A V R A N R A R F A E V L Q G R R R P V F L R L R Q V V H G T R V L A I D R P
UniRef90_G1WBU9 D S L E H V T R N K Q L L A A T L G I P S Q N I V P H Q V V H G T K V A C V D Q E
UniRef90_UPI0003B4509E D D P A R V A T N R S R F C A R L G R G P E A L T A G Q V V H G A E V A T V T A P
UniRef90_Q0B0Y0 D E R E K V L D N R R R F L A S L G Q K N L V C C C Q V V H G Q R V L R V Y E T
UniRef90_UPI0003143124 N Q P E H I A Q N R I L I A N Y F G V G V Q N V T V N Q T H S C E V I T V H Q A
UniRef90_D4RWJ9 D D E K A V S Q N F E I L G N E L D M D N S M V Y A M Q T H T T N V M K V T T K E
UniRef90_G5ZZE6 D D R A F V L K N R A R V A A A M E L P D R M A G L Y Q I H S A R C V T L C A
UniRef90_K0ETX8 D D P A T V R R N R D R L A A A G I G L T P D R V W M E Q I H S R N V E I I D G P
UniRef90_R5A3V6 D D P E K V A E N Y R R F C A A A G F D S D S V C G A Q D H H I N I R R V I R E K E
UniRef90_R6XC47 D E A V N I A E N R K Q L A D E L G I S T D H I I M H Q I H G T E C L Q I R C Q
UniRef90_H1HL66 D D P A S I A E N R K A L A A E L G I S A D H I V M H Q I H G T E C L Q I R C Q
UniRef90_A9B4M9 D D P S A V L A N R R R F A D R V G F R L D D V I L A Q V V H G T V A V V R T K E
UniRef90_J8QEF8 D K E E N V I N N R E V A R L D D F P T E W I G S K Q V H E A K I E K V T K E
UniRef90_R7RRF9 D D A D D V Y R N M E K F T D N K M N L N N A V Y L K Q V H S D K I Y I V D R S A
UniRef90_D1B419 D N S L H V N A N R E L R E K A M D V D A V F M E Q V H G A E I V R I E E A
UniRef90_UPI0004761ECC D D P V H V A E N R S R V A A A G F R F D W T S G E Q V H L A E I A I V K E V
UniRef90_UPI00036D3794 D A P N S V E N R R R L A A A V Q V P F D C V Y A E Q V H G K D V Q L V T R K
UniRef90_V4NIF5 D D Q E K V A E N R R R V A A S F G R P E N Y L S L H Q T H S N K V N E P F T G
UniRef90_UPI000288A31F D Q A E R V R Q N R H I L A G H I G F P D R W V C A E Q V H G T T I A R A M E D
UniRef90_K6ZET0 D D A L C V E K N R Q R L A R Q L K N M R S I S W L N Q T H G T N V L R L R D E P
UniRef90_Q64XA4 D K L E R V I E K N Q T L L F Q S L S Q A P H R L I P Q T H G R A E L P V D E K
UniRef90_R6CQB9 D V I M E N I K N R S L L C S L L G T E K E L V I P H Q V H G T E V R V D R E
UniRef90_UPI0004699EBE D E P G N V R E N R A R L L G G F Q P I E L I V P V Q T H G V E I L H I E D S
UniRef90_J4K846 P D K E G V L E N Y K R M A K A L G V K E D F V L S Y Q E H S T N V R V V D K S
UniRef90_R6DLH2 D S L E T V E R N Y Q R I C K S A G I H A G N L V L D Q V H D T K V R Y V T K E
UniRef90_R5EE77 D S L E N V E E N L R R L G R A V G F D P E K L V M T Q I H S D I V R T V C H R
UniRef90_G9YPF8 D A P D R V R E N R R R F C A A I G A D M N I V C A S Q V H G D T V R T V D E P
UniRef90_G0VL37 D R P K D V L E N R R R L C A L L G A Y P L Q K L T A Q Q T H E D H V V A V G P A
UniRef90_UPI00026CD09B D D A A A V A E N R A R A S A A V L P G A T L V T V Y Q V H S A E C V T V R E P
UniRef90_R5GDE9 D N P A H V A A N R A A L C G E L G I Q Q D R L I L H Q V H G K K V E V A R H E
UniRef90_K8B8Z7 D D P E H V E E N R R R F Y Q A A N F P S A P V W L E Q V H G K D V L H L D P E
UniRef90_K6YCH0 D N P A D V Q S N R G N L P L S E S T A W L T Q V H G K R C I R I T E D
UniRef90_UPI0003B713E3 D D P N A V E M N R K L L F Q E T G L T N L R Y C R Q I H S A S V H I I N D E
UniRef90_UPI00034906FD D D P E A V D R N R A A A E R F G L D H R R V W M D Q V H S A D V A V A T G P
UniRef90_Q1Q3Y4 D D S N T V V E N R K R L A N S M G I P L E N F T S Q I H T D N I E I Y K T

	90										100										110										120														
UniRef90_B1YR24	V	P	V	Q	A	D	A	S	V	T	D	R	A	G	A	V	C	V	V	M	V	A	D	C	L	V	P	L	L	F	Y	Y	P	Q	D	K	A	V	V	G	A	A			
UniRef90_G7WHB6	D	G	G	A	V	D	G	L	I	T	T	Q	N	A	I	G	L	M	A	F	F	A	D	C	C	V	P	L	L	F	Y	Y	P	Q	D	K	A	V	V	G	A	A			
UniRef90_E7C3X5	A	N	K	A	I	D	G	L	I	W	T	R	N	E	A	N	E	A	A	L	A	V	T	V	A	D	C	C	V	P	L	L	F	Y	Y	P	Q	D	K	A	V	V	G	A	A
UniRef90_R7CRZ3	D	C	P	D	T	D	G	L	I	T	T	R	S	E	A	N	V	P	I	T	M	N	Y	A	D	C	C	V	P	L	L	F	Y	Y	P	Q	D	K	A	V	V	G	A	A	
UniRef90_UPI00037DFDC6	G	V	Q	E	G	D	A	L	V	T	T	R	E	P	G	L	L	A	I	G	T	A	D	C	C	V	P	L	L	L	A	D	L	K	A	G	V	V	G	A	A				
UniRef90_C1A0X1	T	D	P	V	T	D	A	L	V	T	T	N	K	T	N	I	Q	L	A	T	V	S	A	D	C	C	V	P	L	L	L	S	D	E	E	A	G	V	V	A	A	V			
UniRef90_UPI00047A80F5	G	R	D	G	Y	D	A	L	V	T	T	N	K	T	N	I	Q	L	A	T	V	S	A	D	C	C	V	P	L	L	L	S	D	E	E	A	G	V	V	A	A	V			
UniRef90_R6P2H5	D	R	E	S	V	D	G	L	V	T	T	D	E	P	D	V	V	L	V	T	Y	Y	A	D	C	C	V	P	L	L	F	Y	L	D	P	E	K	R	V	I	G	L	A		
UniRef90_UPI00030C3B7B	K	N	R	A	A	D	A	A	J	I	T	R	S	R	Q	H	T	L	A	I	M	V	A	D	C	C	V	P	L	L	L	C	N	D	Q	Q	G	T	E	J	I	G	A	I	
UniRef90_I2MWU1	W	A	E	G	P	D	A	V	V	T	T	A	R	R	R	G	L	A	L	A	V	L	T	A	D	C	C	V	P	L	L	L	A	D	P	V	A	G	V	V	A	A	A		
UniRef90_UPI0003A2B9FB	A	G	P	T	E	A	A	A	E	P	E	A	D	A	A	V	T	A	I	L	T	A	D	C	C	V	P	L	L	L	A	A	D	D	G	S	E	J	I	A	A	A			
UniRef90_K0IAF4	D	G	T	E	A	D	A	C	V	V	T	A	S	A	P	G	A	V	C	T	I	M	V	A	D	C	C	V	P	L	L	L	A	H	P	G	L	V	V	A	A	A			
UniRef90_E4U5M9	G	V	W	E	A	D	G	L	V	S	T	A	S	A	P	G	V	L	V	A	M	S	V	A	D	C	C	V	P	L	L	L	E	D	P	A	V	G	V	V	A	A	L		
UniRef90_D5DJS6	D	C	K	A	T	D	G	L	I	Y	T	T	N	E	S	D	I	L	L	A	L	C	Y	A	D	C	C	V	P	L	L	F	Y	A	P	D	H	H	L	V	G	L	A		
UniRef90_UPI000364FD42	D	K	G	D	T	D	A	G	M	I	T	T	N	V	P	G	V	L	V	S	F	Y	A	D	C	C	V	P	L	L	F	W	D	P	V	E	Q	V	V	G	L	A			
UniRef90_R6MP62	D	R	K	G	A	C	D	A	Q	I	T	D	E	P	G	V	A	L	V	A	F	A	A	D	C	C	V	P	L	L	F	D	P	V	R	R	A	I	A	A	V				
UniRef90_A4IM19	D	R	G	G	A	D	G	L	Y	T	T	D	E	S	G	V	L	L	A	L	C	F	A	D	C	C	V	P	L	L	F	M	A	P	S	V	I	G	L	V	G	L	A		
UniRef90_K6DKP4	D	K	G	G	V	D	A	L	I	Y	T	T	R	D	Q	N	T	F	L	F	S	A	Y	A	D	C	C	V	P	L	L	F	F	A	S	A	D	I	I	A	G	V	A		
UniRef90_C9LHZ8	A	L	E	G	V	D	A	L	I	T	T	R	D	Q	N	T	F	L	F	S	A	Y	A	D	C	C	V	P	L	L	L	F	D	Q	K	S	A	D	R	V	I	A	A	V	
UniRef90_R7R2A8	D	A	G	D	V	D	G	L	I	T	T	D	E	A	G	L	V	L	C	A	F	F	A	D	C	C	V	P	L	L	F	V	D	P	V	H	R	A	J	I	G	L	S		
UniRef90_R6QXU2	D	C	G	S	V	D	G	L	M	T	T	N	E	P	N	V	T	L	V	T	H	Y	A	D	C	C	V	P	L	L	L	E	A	D	P	E	K	H	V	I	A	T	S		
UniRef90_UPI00037B38BD	N	L	D	E	A	D	G	L	V	T	T	N	Q	R	G	F	M	L	G	V	L	V	A	D	C	C	V	P	L	L	L	H	H	P	G	K	G	V	V	A	A	V			
UniRef90_UPI0003695939	A	K	E	A	M	D	A	S	I	T	T	R	Q	K	N	I	A	L	A	I	M	T	A	D	C	C	V	P	L	L	L	T	N	K	C	G	N	E	J	I	A	A	I		
UniRef90_UPI00021931B5	P	V	P	A	T	D	A	L	V	T	T	V	R	A	A	L	V	V	L	T	A	D	C	C	V	P	L	L	L	S	D	G	E	A	G	V	V	A	A	V	A	A	V		
UniRef90_UPI00036DF426	P	A	E	A	T	D	A	L	V	T	T	A	T	P	G	V	A	V	V	A	L	V	A	D	C	C	V	P	L	L	L	S	D	A	E	A	G	V	V	A	A	V			
UniRef90_UPI000362B41C	G	P	P	P	V	D	A	V	T	T	D	R	P	G	V	T	L	A	V	L	V	A	D	C	C	V	P	L	L	L	A	D	A	A	A	G	V	V	G	A	A	V			
UniRef90_I4C361	T	P	P	V	A	D	A	L	I	T	T	P	K	G	V	E	L	V	K	T	A	D	C	C	V	P	L	L	L	L	D	K	S	A	R	G	I	A	S	A	V				
UniRef90_UPI0003633413	G	V	W	Q	A	D	G	L	V	T	T	D	T	P	G	L	L	L	R	V	G	V	A	D	C	C	V	P	L	L	L	Y	D	P	V	R	Q	V	V	G	A	L			
UniRef90_V4NYB0	W	P	P	E	A	D	G	L	V	T	T	T	P	G	L	V	I	G	A	L	S	A	D	C	C	V	P	L	L	L	W	A	D	P	V	N	G	V	V	G	A	C			
UniRef90_E6YUD0	E	P	P	K	A	D	A	L	V	T	T	K	K	G	L	A	I	G	V	L	T	A	D	C	C	V	P	L	L	L	E	S	D	P	H	A	G	V	V	G	A	A			
UniRef90_UPI00023764B5	D	G	T	A	A	D	A	C	V	V	T	R	T	P	G	M	V	C	T	I	L	V	A	D	C	C	V	P	L	L	L	A	H	R	S	G	A	V	V	A	A	A			
UniRef90_A9IIX0	D	E	P	A	A	D	A	S	V	T	T	A	T	P	G	R	V	L	A	I	M	V	A	D	C	C	V	P	L	L	F	I	T	D	L	D	G	T	V	V	G	A	A		
UniRef90_R5VGP6	Q	L	E	G	V	D	A	M	V	S	T	D	M	R	V	C	L	C	I	S	T	A	D	C	C	V	P	L	L	F	C	Y	D	T	R	G	K	V	I	A	A	I			
UniRef90_A2SGZ0	E	P	P	E	A	D	A	C	W	T	T	D	P	G	V	A	C	V	I	Q	V	A	D	C	C	V	P	L	L	L	F	A	A	P	G	L	G	V	A	A	A				
UniRef90_A0YDU3	Y	L	P	A	A	D	G	C	I	T	T	R	A	S	G	F	A	C	T	V	M	T	A	D	C	C	V	P	L	L	L	C	D	R	Y	G	Q	Q	V	A	A	V			
UniRef90_W6EGM3	D	E	P	T	C	D	A	M	I	T	T	D	S	D	I	L	A	I	A	V	M	V	A	D	C	C	V	P	L	L	F	Y	D	P	H	H	A	J	I	G	V	A			
UniRef90_M1N4D0	E	P	P	E	A	D	A	L	V	T	T	V	S	K	G	L	A	I	A	V	I	T	A	D	C	C	V	P	L	L	L	F	A	D	P	E	R	A	G	V	I	G	A	A	
UniRef90_Z5X6C9	A	V	D	D	T	D	A	L	V	T	T	T	P	R	L	A	L	A	I	V	T	A	D	C	C	V	P	L	L	L	M	S	D	A	S	A	G	V	V	A	A	V			
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UniRef90_D4YX23	E	R	P	A	A	D	A	M	V	T	T	N	R	S	G	L	L	L	G	I	L	T	A	D	C	C	V	P	L	L	F	A	D	A	S	A	G	V	V	I	G	A	A		
UniRef90_F7MAV1	Y	F	D	G	I	D	A	L	I	T	T	N	V	P	G	Y	C	V	C	V	T	Y	A	D	C	C	V	P	L	L	L	Y	D	K	L	Q	Q	V	V	A	A	I			
UniRef90_A5Z6D0	D	C	G	D	I	D	G	L	I	T	T	N	E	K	G	V	L	V	A	T	Y	A	D	C	C	V	P	L	L	L	I	V	D	T	K	N	K	A	I	G	L	S			
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170 180 190 200

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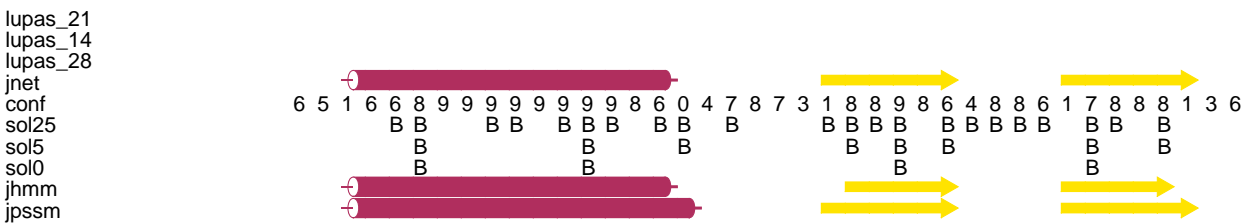
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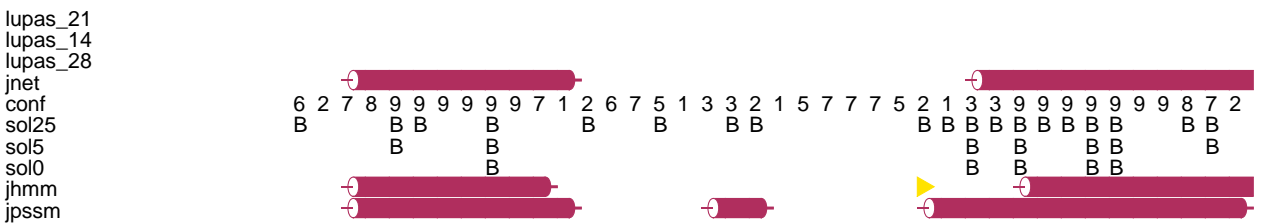
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lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm