

QUERY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
UniRef90_Q62QY3	E	D	K	M	D	L	Y	L	Q	Q	G	M	Y	G	P	L	E	T	K	P	D	E	R	H	L	F	L	L	G	S	L	R	E	R	V	V	I	A	L	T	K			
UniRef90_W4RQ15	D	Q	S	N	V	D	D	Y	L	Q	Q	G	I	H	G	A	K	E	T	K	P	D	E	R	R	R	F	L	L	G	S	T	I	R	R	E	R	V	V	I	A	L	T	K
UniRef90_U5L4W6	K	Q	N	V	D	D	Y	V	K	Q	Q	G	M	Y	G	Q	K	Q	T	K	P	D	E	R	R	K	F	L	L	G	T	I	R	R	E	R	V	V	I	A	L	T	K	
UniRef90_UPI00041C9AAB	K	E	H	I	D	D	Y	L	Q	Q	G	I	H	G	G	V	K	E	T	K	P	D	E	R	K	K	F	L	L	G	T	F	R	E	R	V	V	I	A	L	T	K		
UniRef90_E3DSP9	D	E	T	I	D	L	Y	L	Q	Q	G	M	Y	G	P	L	E	T	K	P	D	E	R	R	H	L	F	L	L	G	S	L	R	E	R	V	V	I	A	L	T	K		
UniRef90_UPI00047B2338	E	N	I	D	D	Y	L	Q	Q	G	I	H	G	G	Q	K	Q	T	K	P	D	E	R	R	K	F	L	L	G	T	L	R	E	R	V	V	I	A	L	T	K			
UniRef90_A0A024BH84	D	K	T	V	D	L	Y	L	Q	Q	G	M	Y	G	P	L	E	T	K	P	D	E	R	R	H	L	F	L	L	G	S	T	L	R	E	R	V	V	I	A	L	T	K	
UniRef90_UPI00030866EE		N	L	D	D	Y	L	Q	Q	G	I	H	G	G	Q	K	E	T	N	P	D	E	R	R	K	F	L	L	G	T	L	R	E	R	V	V	I	A	L	T	K			
UniRef90_I3DZX9	K	Q	N	V	D	D	Y	L	Q	Q	G	I	H	G	G	Q	K	E	T	K	P	D	E	R	R	K	F	L	L	G	T	L	R	E	R	V	V	I	A	L	T	K		
UniRef90_UPI00047B49D0	K	T	T	V	D	E	V	L	Q	Q	G	I	H	G	P	L	E	T	K	P	D	E	R	R	K	F	L	L	G	T	L	R	E	R	V	V	I	A	L	T	K			
UniRef90_S0SDR8	K	D	D	V	Q	S	H	L	D	K	G	M	Y	G	T	P	L	V	N	P	D	E	E	Q	H	K	Y	L	L	G	T	F	R	E	R	C	Y	L	S	M	T	I		
UniRef90_UPI00047ABE2B	D	R	L	D	E	Y	L	Q	Q	G	I	H	G	G	P	R	E	I	N	P	D	E	R	R	K	F	L	L	G	T	L	R	E	R	V	V	V	V	L	T	K			
UniRef90_UPI0002893890		N	V	D	D	Y	L	Q	Q	G	I	H	G	G	A	K	E	I	N	P	D	E	R	R	K	F	L	L	G	T	I	R	E	R	V	V	I	A	L	T	K			
UniRef90_UPI00036DDF3C	K	N	V	E	D	Y	L	Q	E	G	I	H	G	G	Y	G	Q	K	N	K	P	D	E	E	R	N	M	F	L	L	G	T	I	R	E	R	V	E	I	A	L	T	K	
UniRef90_A6CU25		V	D	D	Y	L	Q	Q	G	M	Y	G	Q	K	Q	T	K	P	D	E	R	R	K	F	L	L	G	T	I	R	E	R	I	V	F	A	L	T	K					
UniRef90_R3U9X6	Q	D	D	L	Q	K	H	L	D	N	A	M	Y	G	T	P	L	L	K	P	D	E	E	Q	R	K	Y	L	L	G	T	F	R	E	R	C	Y	L	T	M	T	I		
UniRef90_UPI00047249F1	K	K	E	L	D	D	Y	L	Q																																			

QUERY	G	Q	V	L	R	S	K	P	Y	K	E	A	E	H	E	L	K	N	S	H	N	V	T	L	L	L	N	G	E	L	Q	Y	Y	Q	S	H	L	S	S	Y	I	I	Q							
UniRef90_Q62QY3	G	Q	V	L	R	S	K	K	A	Y	R	E	V	I	D	A	L	G	E	N	S	A	D	A	T	L	L	L	N	G	E	I	L	G	Y	Y	Q	S	H	L	S	S	Y	I	I	Q				
UniRef90_W4RQ15	G	E	V	M	R	K	G	V	E	P	E	V	I	D	A	L	M	D	E	N	S	K	A	D	A	T	H	L	L	N	G	E	I	L	G	Y	Y	Q	S	H	L	S	S	Y	I	I	Q			
UniRef90_U5L4W6	P	Q	V	L	R	S	K	E	G	T	H	R	E	V	E	A	A	L	K	E	N	P	S	A	T	H	L	L	N	G	N	G	N	M	N	Y	S	S	L	S	S	K	Y	I	I	Q				
UniRef90_UPI00041C9AAB	G	Q	V	K	E	K	L	V	I	Y	Q	Q	V	L	E	E	A	K	K	Y	N	G	A	T	L	L	L	N	G	S	I	L	N	Y	T	Y	L	S	S	K	Y	S	H	L	S	S	Y	I	I	Q
UniRef90_E3DSP9	G	Q	V	L	R	S	K	P	Y	Q	E	V	L	R	A	I	Q	K	N	S	K	G	A	S	V	L	L	N	G	S	I	L	N	Y	T	A	Y	L	S	S	P	Y	I	M	K					
UniRef90_UPI00047B2338	P	Q	V	R	E	D	G	V	I	P	Q	V	E	E	A	L	K	A	N	S	K	Q	A	V	L	L	N	G	N	G	N	M	S	Y	P	Y	L	S	S	K	Y	I	I	Q						
UniRef90_A0A024BH84	G	Q	V	L	Q	K	G	P	Y	E	E	V	K	Q	A	L	K	A	N	S	K	R	K	D	A	V	L	L	N	G	R	L	P	Y	H	A	Y	L	S	S	P	Y	I	M	K					
UniRef90_UPI00030866EE	A	Q	V	R	E	D	I	I	F	P	E	V	E	Q	A	L	K	E	N	Q	K	A	T	L	L	N	G	N	G	I	D	Y	S	H	L	S	S	K	Y	I	I	Q								
UniRef90_I3DZX9	K	Q	V	R	E	N	G	I	Y	K	E	A	E	T	L	M	K	E	N	P	Q	K	A	H	L	L	N	G	N	G	N	M	D	Y	S	H	L	S	S	K	Y	I	I	Q						
UniRef90_UPI00047B49D0	S	Q	V	A	E	A	N	V	I	P	Q	V	E	Q	Q	M	K	E	K	P	K	A	S	H	L	L	N	G	N	G	N	M	S	Y	E	T	L	S	S	K	Y	I	I	Q						
UniRef90_S0SDR8	A	E	M	K	D	P	T	N	K	E	K	F	I	E	E	I	M	K	Q	P	D	A	T	I	L	L	N	G	E	T	P	I	A	I	Q	N	Q	Y	I	I	Q									
UniRef90_UPI00047ABE2B	S	Q	V	R	E	P	G	T	Y	K	E	V	E	D	I	M	K	N	K	Q	A	T	L	L	N	G	N	G	N	M	N	Y	S	Y	L	S	S	D	Y	I	I	Q								
UniRef90_UPI0002893890	S	Q	V	R	E	N	K	V	I	Q	E	I	Q	A	A	C	K	N	N	K	V	H	M	Y	L	L	N	G	N	G	H	V	D	Y	R	Y	L	S	S	K	Y	I	I	Q						
UniRef90_UPI00036DDF3C	G	Q	V	M	Q	T	N	V	Y	P	E	I	K	N	T	M	S	S	S	Q	Q	L	T	L	L	N	G	T	V	I	T	Y	S	H	L	S	S	K	Y	I	I	Q								
UniRef90_A6CU25	K	Q	V	R	K	K	G	L	P	Q	A	E	S	L	M	R	E	N	K	E	A	N	A	T	L	L	N	G	N	G	N	M	S	Y	S	Y	L	S	S	K	Y	I	I	Q						
UniRef90_R3U9X6	E	Q	M	K	N	T	E	D	K	A	N	F	L	K	E	L	E	Q																																

QUERY	90	100	110	120
UniRef90_Q62QY3	M A S R Y G V P F K I V S D L Q F H T P L G I V I A A R D I A V N R E L I Y I Q D	E S N K R Q G V I P F S T I V S D Q Q S Y H T T P L G L V L A A R H E H A V N K E E S I Y Y L Q G S	A A E K R G V I E F S T I V S D K Q D Y D T S E I G L V L A A H H H A I D K E E I Y Y V L Q K S	UniRef90_W4RQ15
UniRef90_U5L4W6	L A S K F G V I E Y T I V T N K E H N T E I G L V L A A Y D H A I D K E E I Y Y V L Q S S	UniRef90_UPI00041C9AAB	M A N K N G M H F Y K S I S D L E Q T T P L G L V I V E Q Q A I V N R K D A I Y Y V M Q R	UniRef90_E3DSP9
UniRef90_UPI00047B2338	L A S K Y K V I E Y T I V T N K E H N S E I G L V L A H D Y A I V N D K P E I F V V Q E R	UniRef90_A0A024B84	L A A L A V R S S V I S D L Q F E T P L G L V F A H D Y A I V N D D G I D Y Y V T K	UniRef90_UPI00030866EE
UniRef90_I3DZX9	L A A L A Q N I K Y S T I V T N K E H N S E I G L V L A H D Y A I V N D K E D I Y Y V T K	UniRef90_UPI00047B49D0	V A K K Y R I E S T I V T N K D H D T S E I G L V L A Y D Y A I V N D K K D I Y Y V T K	UniRef90_S0SDR8
UniRef90_UPI00047ABE2B	L A T K N N I R F T S V V N D F V S D A P I G L L L A A K Q A I V N E P V I D V I E E	UniRef90_UPI0002893890	L A N K V I G N K F T S L S T N K E H D S S E L G L V L A Y D H A I V N I E D I Y I Q E N	UniRef90_UPI00036DDF3C
UniRef90_UPI00036DDF3C	L A G S N N I E Y T I V T N K D Y N S S E L G L V L A Y D H A I V N I E D I Y I Q E N	UniRef90_A6CU25	L A N E K N V I P F T I V T Q N K D T N T S P I G L V L A H N T A I V N E K K E H I Y I E D E	UniRef90_R3U9X6
UniRef90_UPI00047249F1	M A E K Y G I H Y T M V N D K E H N S E I G L V F A Y G H A I V N D K K E I Y I D E Q	UniRef90_R9BWT4	L I N E R Q I K F T V V N D K F V E N T P F G I V L T A S E A V N D Q E N I Y I L S N Q	UniRef90_W8R388
UniRef90_UPI000185098F	A A E T Y N I P F S T I V V E R K D T K T D I G F L V L A Y D Y A I V N D Q E N I Y I L S N Q	UniRef90_UPI000381305E	E A N Q I V H M E Y T I V T N K D A D S S D I G L L I A Y D H A I V N T Q E H I Y I E Q	UniRef90_UPI0003800B81
UniRef90_UPI000381305E	M A N A A G C G S K F V V N H H E S H S P F G L V L A Y D Y A I V N N Q E H I Y I E Q	UniRef90_UPI0003800B81	K A T Q L S I P Y T M V T N K E Y N S E L G L V L A Y D Y A I V N N Q E H I Y I E Q	UniRef90_V5XLE2
UniRef90_V5XLE2	K A R Q N N I P F S T V R D K D H S T D I G L V L T Y Q H A I V N D K E E I Y I L Q	UniRef90_H5T3G1	L A E K L G L P H T I V S N R E A D S D Y G L L I A A K T A V D K E E I L	UniRef90_R2PPG2
UniRef90_R2PPG2	L A T K N Q T K F T V V N D H V S E D A P I G L L I A A K E A V N E P V I D V I E E	UniRef90_UPI0004236F2C	L I T K T K H P F T V V N A F D Q P D N I G L L V T A Q E A V N N Q E P V I D I D I E K	UniRef90_S1NAK4
UniRef90_S1NAK4	E A N K N G V I Q F T I V V N D G K E S S P I G L V L A S K S A I V N E K E D I F I T E D	UniRef90_N0AVR2	L A T K N H A K F T V V N D D A N P S S F G L L L V A K E A V N E P V I D V I E K	UniRef90_S0JD47
UniRef90_N0AVR2	I A K S L N I E Y T I V T N K D Y N S D S F G L V L A Q E F A I V N D K E I F I E G Q	UniRef90_C5ADL5	L A L K A N L S F T V V D D S N Q N D R L G L L V V A K T A I V N E Q T I F I E R D	UniRef90_C9A9L2
UniRef90_C5ADL5	L V G Q H N L K F T I R E E A I Y I D S D I G L L V A S D Q A I V N N Q D P I V I D I E E	UniRef90_S4DJH7	L L T K Q Q M E F R V S D A Q D A G P I G L L I A A G K E A V N N E D V T D I E K	UniRef90_UPI0003050861
UniRef90_UPI0003050861	L A T Q K K A H F T V I N D F V T A E P F G L L L A T A K E A V N E P V I D I E E	UniRef90_UPI000462E816	K A K S Y N I Q F T S I V N N K E H N S E I G L V L A Y D Y A I V N D K E N I F L Q N	UniRef90_UPI00036FF62A
UniRef90_UPI000462E816	S A S Q N N V I T F S I K Q D T I Y D S D I G L V V A Y N T A I N V A P V T T V	UniRef90_L5NF33	L A A Q H N L K F T I R N D I F Y A D D Y G L I I A S D H A I N D N P I T T V	UniRef90_R3WC23
UniRef90_R3WC23	L A E E S S I H H T M V S N Q E A D T T G L V L T V D Y P V E L E D V T V	UniRef90_W4VJU7	I A T Q N K V K F T I V N D F V E T N P F G L L T A K E A V N N K E E I F I L P E	UniRef90_R4RJ80
UniRef90_R4RJ80	I A N K H E V S Y T S V T N R E A E S D Y G I V L A S K V A V N D K E E I F I L P E	UniRef90_UPI0004145DB9	V I A Q A G S N F T L K T D P Q F E T D L A L V M A A D D A V Y Q S E P I D V I A S	UniRef90_UPI0002E22B91
UniRef90_UPI0004145DB9	L A E K Y S I P Y T E V S N Q G T S T D I G L A V L T Y D Y A V D I Q E E I F I V S	UniRef90_Q82ZH1	L A N K H N L S F T I S S N L E H E T D I G L V L A Y D Y A I V D Q E E I F I V S	UniRef90_UPI0004796284
UniRef90_UPI0004796284	L A N Q H G A F R K I V N N F V E N N P L G L L L A E K H A I V D E E I F I V S	UniRef90_UPI00037B9DE2	I A R Q H N I R Y T A V T N K Q A E T D I G A I L T S S A V D D R E T I F I T E K	UniRef90_UPI00040FBEAE
UniRef90_UPI00037B9DE2	A A H K N D L P F S I V E K K G I T T D I G L V L A Y D H A I V D Q K E I F I T E K	UniRef90_UPI00040FBEAE	L A S N Y G I H A R R V S M D K K S D V I G L V I A K E Y A I V H R E V I F V E E	UniRef90_Q9K7K9
UniRef90_Q9K7K9	I A D Q L S I D Y L V V S N Q K E T D I G L V L A H D H A I D K E D I F I E E	UniRef90_E6LDW5	I L A A A A I P F T I V V S S Q K S D D I G L L L V A S E A I V D K E S I F I A E	UniRef90_W1SDG0
UniRef90_W1SDG0	L A T K N K V S Y H K I V N N K E H D T E I G L V L A M S H A I D K E E I F I S	UniRef90_G9SPG0	L A N D Q N L V T I I Q N H E A E T D I G L V V A H K H A V D K E M I W A S	UniRef90_R2XLT7
UniRef90_G9SPG0	L A S K N A A D F T I K I N D A T V I E D E I G V L L V T D H A I V N E E I D I S E K	UniRef90_W6T6P4	A V A Q A G V A F T L K T D S I Y H T N Y A L V I M T D H A I N E D V I D I D Q	UniRef90_N4WJV8
UniRef90_W6T6P4	I A N Q Y N I S Y T S V S N Q E A K S D Y G I V I T L S A I E K E N I F L N E	UniRef90_R2STY9	V A V K K G I D F T V V S D A I A D D D I G L L L V A D Y A V N I P V I D I	UniRef90_UPI00021915CA
UniRef90_R2STY9	L A S K Y S I G F T L K S D D V F D S D I V A V F A A K E A V N I D Q I D I	UniRef90_G4L371	M V M K A S L K F T V V T D L K E D T D S G L V L V I S D K A V N E D T I D I Q	UniRef90_UPI000478E65D
UniRef90_G4L371	L A A K Y K M E H T I V T N K D H D T E I G L V L A L D R A I V N D K E E I F I T N	UniRef90_U6D4V1	L A N D N H P F T I S N D Q E H S T D I G L V L A Y D Y A I V N I E N I Y I Q	UniRef90_K5S854
UniRef90_U6D4V1	L S Q D T D C S F R I S N D E G A H S P F G L I Y V I S T H A V N E E V V D V A	UniRef90_C		

QUERY	D	I	Y	N	R	S	V	L
UniRef90_Q62QY3	D	I	F	E	Q	S	V	L
UniRef90_W4RQ15	K	K	P					
UniRef90_U5L4W6	D							
UniRef90_UPI00041C9AAB	E	T	V	K	K	P	L	M
UniRef90_E3DSP9	D	I	F	K	R	S	V	L
UniRef90_UPI00047B2338	K	T	V	K	T	E		
UniRef90_A0A024BH84	D	I	F	Q	R	S	L	L
UniRef90_UPI00030866EE	P							
UniRef90_I3DZX9	Q	K	E	E	K	Q		
UniRef90_UPI00047B49D0	K	E	P	K				
UniRef90_S0SDR8	K	Y	P	K	E	E		
UniRef90_UPI00047ABE2B	K	A	E	Q	K	E		
UniRef90_UPI0002893890	K	I						
UniRef90_UPI00036DDF3C	E	L	Y	K	Q	E	M	
UniRef90_A6CU25	K	K	P	Q	P	S	V	
UniRef90_R3U9X6	K	H	P	K	Q			
UniRef90_UPI00047249F1	E	T	P	N	K			
UniRef90_R9BWT4	Q							
UniRef90_W8R388	E	L	F	Q	K			
UniRef90_UPI000185098F	K	E	M	E	P			
UniRef90_UPI000381305E								
UniRef90_UPI0003800B81								
UniRef90_V5XLE2	K	Y	P	T	K	Q		
UniRef90_H5T6I3	K	Y	P					
UniRef90_R2PPG2	K	Y	P	D	Q	K		
UniRef90_UPI0004236F2C	E	L	Y	E	K	D	M	
UniRef90_S1NAK4	K	Y						
UniRef90_N0AVR2	E	T	E	T	E	P	V	L
UniRef90_S0JD47	K	F						
UniRef90_M5ADL5	K	Y	P	A	S	S		
UniRef90_C9A9L2	K	F	P					
UniRef90_S4DJH7	K	Y	P	K				
UniRef90_UPI0003050861	E							
UniRef90_UPI000462E816	K	Y	P	T	E			
UniRef90_UPI00036FF62A	K	Y	P	D	Q			
UniRef90_L5NF33								
UniRef90_R3WC23	K	Y						
UniRef90_W4VJU7	E	K	E	P	H	P		
UniRef90_R4RJ80	C	Y	P					
UniRef90_UPI0004145DB9	K	E	E					
UniRef90_UPI0002E22B91	Q							
UniRef90_Q82ZH1	K	Y	P	Q				
UniRef90_UPI0004796284	E	E	A	R	T	S	I	
UniRef90_UPI00037B9DE2	Q	K	P	A	P	Q		
UniRef90_UPI00040FBEAE	E							
UniRef90_Q9K7K9	H	T	E	K	D	D	L	
UniRef90_E6LDW5	K	Y	P	T	N	E		
UniRef90_W1SDG0	T	Q	P	L	P	E		
UniRef90_G9QPG0	K	K	P					
UniRef90_R2XLT7	K	Y	P					
UniRef90_W6T6P4	R	Y	P	K				
UniRef90_N4WJV8	D	K	P					
UniRef90_R2STY9	K	Y	P	E				
UniRef90_UPI00021915CA								
UniRef90_G4L371	K	F						
UniRef90_UPI000478E65D	K	A	P	V	Q			
UniRef90_K6D4V1								
UniRef90_U5S854	K	Y	P					
UniRef90_C6VI75	R	Y	P	S	Q			
UniRef90_S0KMJ7	K	W	S	E	K			
UniRef90_I0JJQ8	H	E	E	K	A	E		
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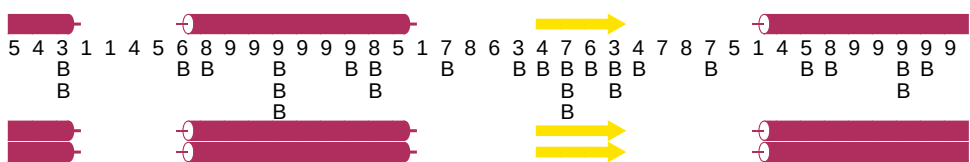
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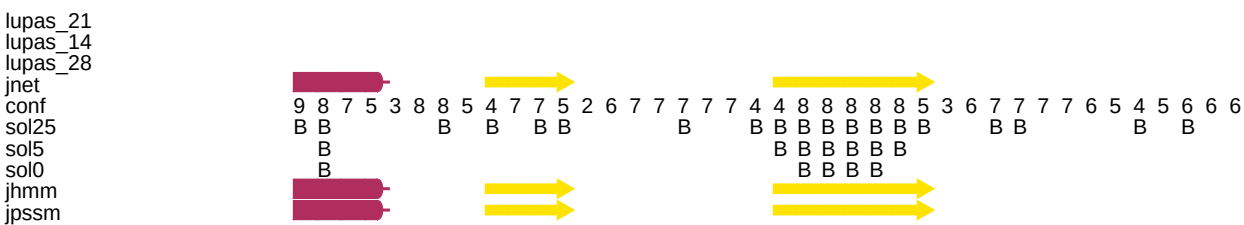
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